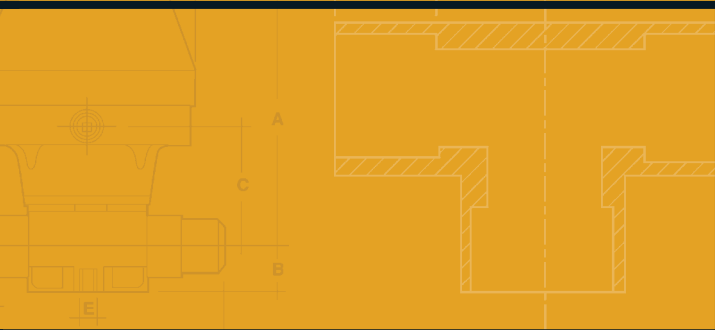


# Industrial Product Catalogue



[www.ipexamerica.com](http://www.ipexamerica.com)

ISSUE DATE: JUNE 2014

- Process Piping Systems
- Double Containment Systems
- Acid Waste Piping Systems
- Compressed Air Systems
- Thermoplastic Valves
- Specialty Products



We build tough products for tough environments®

NEUTRATANK™

FLOWAY™

Encase™

Clear-Guard™

Guardian™

PLENUMLINE™

Duratec™  
AIRLINE SYSTEM

enpure™

CORZAN™

Centra-Guard™

ENFIELD™

Xirtec 140

LABLINE™

Duraplus™

CustomGuard®



# Committed to EXCELLENCE

As one of the world's leading supplier of thermoplastic pipe, valves, fittings and related products for plumbing and mechanical applications, IPEX USA LLC offers a comprehensive range of integrated solutions to meet the needs of engineers and contractors in commercial, institutional, industrial and residential construction.

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# PHYSICAL PROPERTIES

PVC (POLYVINYL CHLORIDE) CPVC (CHLORINATED POLYVINYL CHLORIDE)

PROPERTIES	MATERIALS			STANDARDS
	PVC	CPVC (STANDARD)	CORZAN CPVC (HIGH IMPACT)	
Cell classification	12454	23447	24448	ASTM D1784
Specific gravity	1.42	1.50	1.51	ASTM D792
Tensile strength, psi at 73°F	7,000	7,500	7,320	ASTM D638
Modulus of elasticity tensile, psi at 73°F	400,000	380,000	423,000	ASTM D638
Flexural strength, psi	14,500	11,400	13,200	ASTM D790
Izod impact, ft.lbs./in. at 73°F, notched	0.65	2.0	10.0	ASTM D256
Compressive strength, psi	9,000	10,100	10,100	ASTM D695
Poisson's ratio	0.38	0.33	0.33	
Working stress, psi at 73°F	2,000	2,000	2,000	
Coefficient of thermal expansion in./in./°F (x 10 <sup>-5</sup> )	3.0	3.8	3.4	ASTM D696
Linear expansion, in./10°F per 100' of pipe	0.36	0.44 - 0.46	0.41	
Maximum operating temperature under pressure	140°F (60°C)	200°F (93°C)	200°F (93°C)	
Deflection temperature under load, °F at 66 psi	173	n/a	n/a	ASTM D648
Deflection temperature under load, °F at 264 psi	160	212	239	ASTM D648
Thermal conductivity, BTU.in./hr.ft <sup>2</sup> .°F	1.2	0.95	0.95	ASTM C177
Burning rate	Self extinguish	Self extinguish	Self extinguish	ASTM D635
Burning class	V-0	V-0	V-0	UL-94
Flash ignition, °F	730	900	900	
Limited oxygen index (%)	43	60	60	ASTM D2863-70
Water absorption, %, (24 hrs. at 73°F)	0.05	0.03	0.03	ASTM D570

\* The properties listed in this table represent general material properties and should be used as a guideline only.

IPEX offers a comprehensive range of integrated process piping systems – pipe, fittings and valves in PVC, CPVC, polypropylene and ABS – designed to meet the temperature, pressure and size requirements of a wide range of chemical processing and similar industrial applications.

In addition to costing less than common and exotic metal systems, IPEX thermoplastic process piping systems are lightweight, as well as easy to handle, store, cut and join, so transportation and installation cost are substantially lower.

When you specify a high-performance process piping system from IPEX, you get the added benefits of a complete piping solution that is engineered for total integration, and backed by comprehensive, coast-to-coast support – all from one reliable source.

# PROCESS PIPING SYSTEMS



Xirtec PVC & Corzan CPVC

2

Clear-Guard Clear PVC Pipe

4

Corzan HP

6

Empure High Purity

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Duraplus ABS Industrial

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# XIRTEC PVC & CORZAN CPVC

PVC Sch 40 – 1/2" - 24"  
PVC Sch 80 – 1/4" - 24"  
CPVC Sch 40 – 1/2" - 16"  
CPVC Sch 80 – 1/2" - 16"



## THE IPEX SYSTEM ADVANTAGE

IPEX vinyl process piping systems; a complete line of pipe, fittings and valves to meet all your process system requirements.

IPEX developed the Xirtec®140 (PVC) and Corzan® (CPVC) systems to meet industry demands for a complete Pipe, Valves and Fittings (PVF) package that is designed, produced and backed by a single manufacturer. These systems are engineered and manufactured to IPEX's strict quality, performance and dimensional standards, and therefore eliminate the problems inherent in purchasing and installing piping system components manufactured by several different companies.

IPEX high-performance vinyl systems are designed to meet the temperature, pressure and size requirements of piping systems used in chemical processes and other industrial applications. They feature outstanding resistance to photodegradation, creep stress and immunity to oxidation, and are exceptionally suited for use with a wide range of acids, alcohols, salts and halogens. The perfect extended service, low maintenance alternative to common and exotic metal systems.

Xirtec140 pipe and fittings and Corzan pipe are available in Schedule 40 and 80, IPS. Corzan fittings are available in Schedule 80.

## APPLICATIONS

- Plant chemical distribution lines
- Water and wastewater
- Acid systems for refineries, pickling lines and plating shops
- Chlorine injection, chlorine dioxide and chloralkali plant piping
- Steel wire plants
- Battery manufacturing
- Bleach lines in textile and paper mills
- Alum and caustic handling systems
- Circuit board manufacturing
- Semiconductor
- Pharmaceutical
- Cooling water and cooling tower systems
- Tailing and slurry lines
- Washwater recovery systems
- Plant water supply
- Brine and seawater systems
- Fish farming
- Waterworks
- Aquariums and swimming pools
- Irrigation systems in golf courses, greenhouses, etc.

## STANDARDS

XIRTEC140



CORZAN



## ADVANTAGES

- 1 Lower Installation Costs, Easy Handling**

In addition to a lower material cost, Xirtec & Corzan pipe can significantly reduce labor and transportation costs on a typical installation. The reason? They are lightweight, easily handled, stored, cut and joined.
- 2 Extended Life**

Xirtec PVC and Corzan CPVC provide years of maintenance free service. Our materials will not rust, pit, scale or corrode on either interior or exterior surfaces. Thermoplastic piping systems in a variety of demanding industrial applications have operated successfully for over 45 years.
- 3 Superior Underground Performance**

Xirtec and Corzan CPVC are immune to damage from naturally corrosive soil conditions as well as electrochemical and galvanic corrosion. This is particularly advantageous in underground installations where galvanic reaction often causes damage to metal piping products.
- 4 Exceptional Chemical Resistance**

The IPEX vinyl systems, including pipe, valves and fittings, provide outstanding resistance to a wide range of chemicals such as most acids, alcohols, alkalies, salt solutions, halogens and more.
- 5 Improved Flow**

Xirtec and Corzan have a substantially lower Roughness Factor than metal and other materials, and since they do not rust, pit, scale or corrode, the interior walls remain smooth in virtually any service.
- 6 Potable Water Approved**

Xirtec140 polyvinyl chloride (PVC) and Corzan chlorinated polyvinyl chloride (CPVC) are suitable for use with potable water as listed with the National Sanitation Foundation (NSF) and CSA International.
- 7 Exceptional Temperature Range**

IPEX vinyl systems are designed to meet a broad range of service temperatures. Xirtec has a recommended maximum service temperature of 140°F (60°C) in pressure, with occasional exposure to boiling water (212°F / 100°C) in drainage; Corzan has a maximum service temperature of 200°F.
- 8 Lower Thermal Conductivity**

With a low thermal conductivity factor, IPEX vinyl systems have less heat loss or gain, thus sustaining service temperature more efficiently than metal piping. As a result, pipe insulation is often not required.
- 9 Environmentally Responsible**

With energy conservation a prime concern, you can rely on the fact that IPEX's manufacturing process for Xirtec and Corzan piping materials requires less than half the energy needed to produce the equivalent size of carbon steel or steel alloy materials.



### **i DID YOU KNOW?**

One of the outstanding characteristics of PVC is its resistance to ignition. This is demonstrated by its flash point of 730°F, compared to 400°F for wood chips.

CPVC offers an even greater fire safety profile than PVC. CPVC's ignition resistance is demonstrated by its flash point of 900°F, with a low flame spread as well.

# HIGH PRESSURE CLEAR-GUARD CLEAR PVC PIPE

1/2" - 8"

## Clear-Guard™

IPEX Clear-Guard™ Clear PVC pipe provides a cost-effective multipurpose solution for many different piping applications. The benefits of rigid Xirtec®140 PVC piping are well documented including light weight, flexibility, durability and exceptional corrosion resistance. These benefits with the addition of clarity, are now available in our Clear-Guard Clear PVC pipe product. Our clarity provides 360° visibility for several applications including dual-containment, clean room and site glass applications.

With IPEX's new high pressure clear PVC pipe you can specify Schedule 40 clear pipe for applications where previously only Schedule 80 clear pipe would suffice. Our high pressure formulation, with a long-term hydrostatic design basis of 3,150 psi allows for better clarity and more versatility for various applications.

### ADVANTAGES

- 1 Sizes range from 1/2" to 8" Schedule 40 pipe
- 2 Standard 10 foot lengths
- 3 20 foot lengths available by special order
- 4 Certified to NSF-61
- 5 3,150 psi HDB – tested in accordance with ASTM D2837
- 6 Pressure and Vacuum service

### APPLICATIONS

- Clear-Guard Dual-Containment Systems
- Dual-Containment for High Purity Tubing
- Leak Detection Systems
- Agricultural & Aquacultural Applications
- Chemical Processing/Blending
- Healthcare/Hospital Use
- Laboratory Applications
- Environmental Applications
- Sight Gauge Assemblies
- Displays/Exhibits
- Food & Beverage Processing
- and more ...

### STANDARDS



Clear-Guard™ Clear PVC pipe is designed for indoor applications where there is no significant exposure to ultraviolet sources or to direct sunlight.



## COMPATIBILITY & PRESSURE RATING

IPEX Clear-Guard Clear PVC pipe is produced from a rigid, virgin Polyvinyl Chloride (PVC) compound with a Cell Classification of 15334 per ASTM D1784. This material also enables Clear-Guard Clear PVC piping to carry a maximum service temperature of 140°F when appropriate temperature/pressure de-rating factors are applied.

As with our Xirtec140 PVC piping system our pressure ratings are dependent on the pipe diameter and the operating temperature of the system. As temperatures increase, the pressure rating of the system decreases. Refer to the table for de-rating factors on our Clear-Guard pressure ratings.

This material is compatible with Xirtec140 PVC pipe, fittings and valves, and can be joined into existing PVC systems using the appropriate solvent cement joining process.

## JOINING TECHNIQUES

IPEX Clear-Guard Clear PVC pipe is easily joined by the solvent cementing process, providing a quick, strong, leak-tight seal for pressure applications.

To maintain the system's clarity, IPEX recommends the use of a clear, mediumbodied, fast-setting cement in conjunction with a clear primer for optimum joint integrity. As an added advantage due to the product's transparency, joint integrity is readily identified during the solvent cement joining process.

Details on proper solvent cementing techniques are available and must be reviewed for proper assembly and joint integrity.

Operating Temperature (°F)	Operating Pressure De-rating Factor
73	1.00
80	0.88
90	0.75
100	0.62
110	0.51
120	0.40
130	0.31
140	0.22



## DID YOU KNOW?

Clear-Guard™ has a higher Pressure Rating when compared to the competition

IPEX Clear-Guard PVC 3150 = HDB* @ 73°F		
Size	Product Code	Sch 40 Pressure Rating
1/2"	22003	480
3/4"	22009	390
1"	22014	360
1-1/4"	22026	290
1-1/2"	22031	260
2"	22036	220
3"	22045	210
4"	22053	180
6"	22057	140
8"	22198	120

\* HDB = Hydrostatic Design Basis – the established stress value for a compound at a specific temperature

## CORZAN® HP

The IPEX CORZAN® HP CPVC system has been specially developed with greater pressure and high temperature performance. IPEX CORZAN HP has a 25% higher pressure rating than the equivalent sized CPVC at 180°F. Both schedule 80 pipe and fittings are certified to NSF SE 8459. This specification requires CPVC pipe to meet or exceed a 24448 cell class and have an HDB of 4000psi at 72°F and 1250psi at 180°F. It also requires the CPVC fitting compound to have an HDB of 4000psi at 72°F and 1000psi at 180°F. This makes IPEX CORZAN HP the only CPVC system with pressure rated pipe AND fittings.

### ADVANTAGES

- 1 IPEX Corzan HP** pipe possesses a 24448 cell class. That means that the impact strength and heat deflection temperature of our HP CPVC is superior compared to generic 23447 CPVC compounds.
- 2 IPEX Corzan HP** material is the only CPVC that has been approved by the US Coast Guard for use on US flagged ships.
- 3 IPEX Corzan HP** utilizes the same solvent cement installation method as CORZAN CPVC and can be joined using CORZAN grade solvent cements and primers that meet or exceed the requirements of ASTM F656. Expansion coefficients, support spacing, and chemical resistance remain identical to IPEX CORZAN CPVC eliminating the for additional installer training.

### APPLICATIONS

- Chemical processing
- Semiconductor and electronics
- Water treatment
- Industrial manufacturing
- Mining
- Power generation

### MARINE & OFFSHORE APPLICATIONS

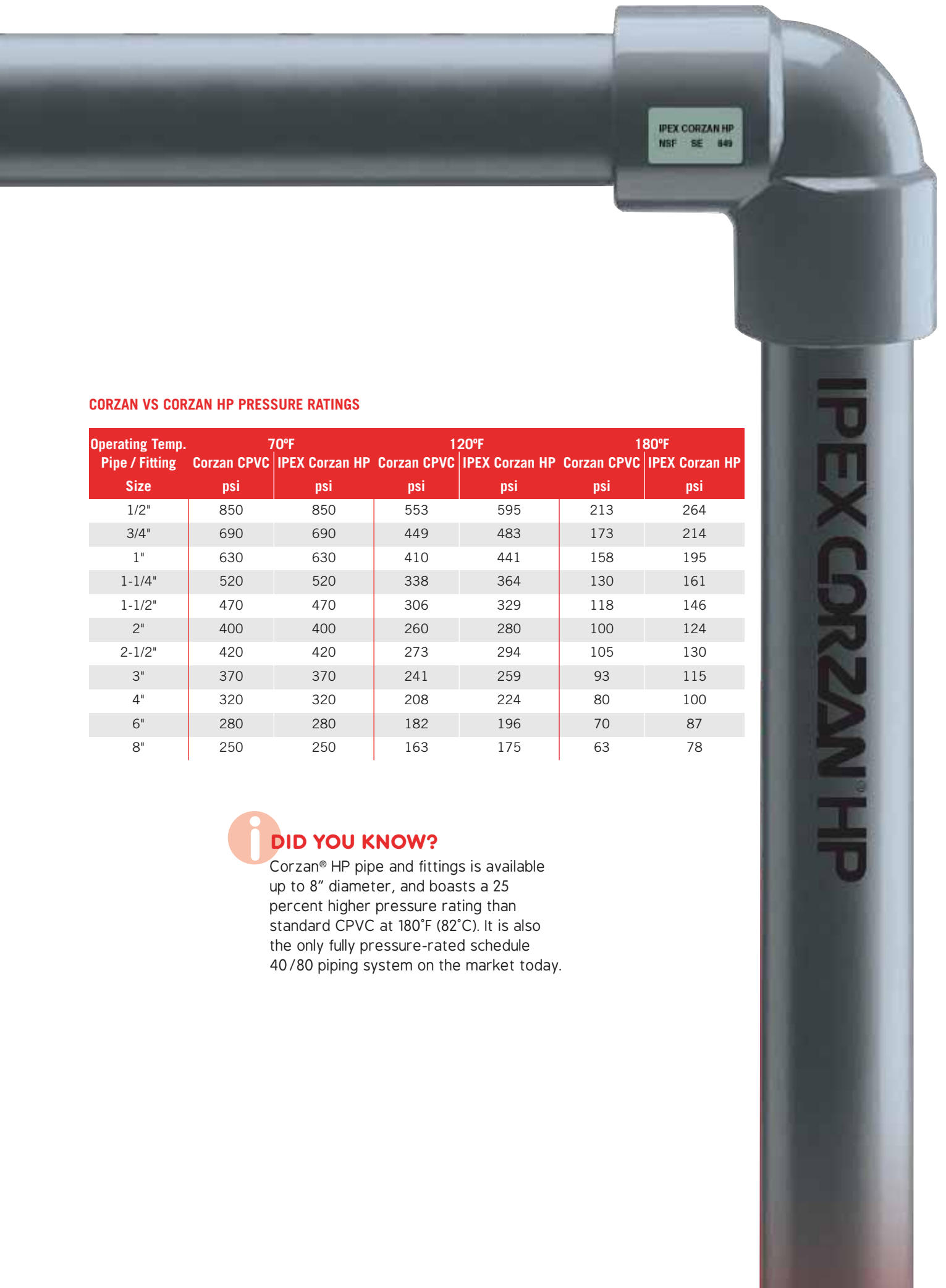
- Potable water
- Deck wash system – supply and drainage
- Desalinization and chemical waste treatment
- Black Water
- Brine
- Ballast treatment piping

### STANDARDS



IPEX CORZAN HP meets or exceeds the requirements of:

- ASTM F441 and NSF SE 8459 for Sch80 pipe
- ASTM F439 and NSF SE 8459 for Sch80 fittings
- NSF 61



### CORZAN VS CORZAN HP PRESSURE RATINGS

Operating Temp. Pipe / Fitting	70°F		120°F		180°F	
	Corzan CPVC	IPEX Corzan HP	Corzan CPVC	IPEX Corzan HP	Corzan CPVC	IPEX Corzan HP
Size	psi	psi	psi	psi	psi	psi
1/2"	850	850	553	595	213	264
3/4"	690	690	449	483	173	214
1"	630	630	410	441	158	195
1-1/4"	520	520	338	364	130	161
1-1/2"	470	470	306	329	118	146
2"	400	400	260	280	100	124
2-1/2"	420	420	273	294	105	130
3"	370	370	241	259	93	115
4"	320	320	208	224	80	100
6"	280	280	182	196	70	87
8"	250	250	163	175	63	78



#### DID YOU KNOW?

Corzan® HP pipe and fittings is available up to 8" diameter, and boasts a 25 percent higher pressure rating than standard CPVC at 180°F (82°C). It is also the only fully pressure-rated schedule 40/80 piping system on the market today.

# PRODUCT SELECTION CHART

## PVC PIPE PRESSURE RATINGS

Sizes		IPEX schedule 40 PVC			IPEX Schedule 80 PVC		
Diameter (in.)	O.D. (in.)	Wall Thickness (in.)	I.D. (in.)	*Max. Pressure 73°F (psi)	Wall Thickness (in.)	I.D. (in.)	*Max. Pressure 73°F (psi)
1/4	.540	–	–	–	.119	.302	1,130
3/8	.675	–	–	–	.126	.423	920
1/2	.840	.109	.602	600	.147	.526	850
3/4	1.050	.113	.804	480	.154	.722	690
1	1.315	.133	1.029	450	.179	.936	630
1-1/4	1.660	.141	1.360	370	.191	1.255	520
1-1/2	1.900	.145	1.590	330	.200	1.476	470
2	2.375	.154	2.047	280	.218	1.913	400
2-1/2	2.875	.203	2.445	300	.276	2.290	420
3	3.500	.216	3.042	260	.300	2.864	370
4	4.500	.237	3.998	220	.337	3.786	320
6	6.625	.280	6.031	180	.432	5.709	280
8	8.625	.322	7.941	160	.500	7.565	250
10	10.750	.365	9.976	140	.593	9.493	230
12	12.750	.406	11.888	130	.687	11.294	230
14	14.000	.438	13.072	130	.750	12.412	220
16	16.000	.500	14.936	130	.843	14.224	220
18	18.000	.562	16.809	130	.937	16.014	220
20	20.000	.593	18.743	120	1.031	17.814	220
24	24.000	.687	22.544	120	1.218	21.418	210

## CPVC PIPE PRESSURE RATINGS

Sizes		IPEX Schedule 40 CPVC			IPEX Schedule 80 CPVC			IPEX Schedule 80 HP CPVC				
Diameter (in.)	O.D. (in.)	Wall Thickness (in.)	I.D. (in.)	*Max. Pressure 73°F (psi)	Wall Thickness (in.)	I.D. (in.)	*Max. Pressure 73°F (psi)	*Max. Pressure 180°F (psi)	Wall Thickness (in.)	I.D. (in.)	*Max. Pressure 73°F (psi)	*Max. Pressure 180°F (psi)
1/2	.840	.109	.602	600	.147	.526	850	213	.147	.526	850	264
3/4	1.050	.113	.804	480	.154	.722	690	173	.154	.722	690	214
1	1.315	.133	1.029	450	.179	.936	630	158	.179	.936	630	195
1-1/4	1.660	.141	1.360	370	.191	1.255	520	130	.191	1.255	520	161
1-1/2	1.900	.145	1.590	330	.200	1.476	470	118	.200	1.476	470	146
2	2.375	.154	2.047	280	.218	1.913	400	100	.218	1.913	400	124
2-1/2	2.875	.203	2.445	300	.276	2.290	420	105	.300	2.864	370	115
3	3.500	.216	3.042	260	.300	2.864	370	93	.337	3.786	320	100
4	4.500	.237	3.998	220	.337	3.786	320	80	.430	5.709	280	87
6	6.625	.280	6.031	180	.432	5.709	280	70	.500	7.565	250	78
8	8.625	.322	7.941	160	.500	7.565	250	63	–	–	–	–
10	10.750	.365	9.976	140	.593	9.493	230	58	–	–	–	–
12	12.750	.406	11.888	130	.687	11.294	230	58	–	–	–	–
14	14.000	.438	13.072	130	.750	12.412	220	55	–	–	–	–
16	16.000	.500	14.936	130	.843	14.224	220	55	–	–	–	–

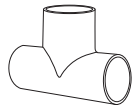
**PVC AND CPVC PRESSURE PIPE**

Dimension inches	PRODUCT CODE								
	PVC Sch 40 White Plain End	PVC Sch 40 White Bell End	PVC Sch 40 Grey Bell End	PVC Sch 80 Grey Plain End	PVC Sch 80 Grey Bell End	CPVC Sch 40 Plain End	CPVC Sch 80 Plain End	CPVC Sch 80 Solvent Bell End	HP CPVC Sch 80 Plain End
1/2 x 10'	022600	022603	022004	-	085106	-	-	-	
3/4 x 10'	022633	022604	022011	-	085111	-	-	-	
1 x 10'	022612	022611	022016	-	085114	-	-	-	
1-1/4 x 10'	022608	022674	022027	-	085119	-	-	-	
1-1/2 x 10'	022614	022616	022032	-	-	-	-	-	
2 x 10'	022618	022619	022037	-	-	-	-	-	
2-1/2 x 10'	022621	-	022042	-	-	-	-	-	
3 x 10'	022637	022624	022046	-	-	-	-	-	
4 x 10'	022626	022628	-	085138	-	-	-	-	
5 x 10'	-	-	-	-	-	-	-	-	
6 x 10'	022666	022659	-	085143	-	-	-	-	
1/4 x 20'	-	-	-	085103	-	-	-	-	
3/8 x 20'	-	-	-	085104	-	-	-	-	
1/2 x 20'	022602	022601	-	085101	085108	019300	019203	-	019035
3/4 x 20'	022677	022607	-	085107	085112	019301	019205	-	019036
1 x 20'	022606	022610	-	085110	085116	019302	019207	-	019037
1-1/4 x 20'	022678	022617	-	085117	085122	019303	019209	-	019038
1-1/2 x 20'	022675	022615	-	085115	085127	019304	019211	019031	019039
2 x 20'	022679	022620	-	085120	085132	019305	019213	019032	019040
2-1/2 x 20'	022646	022625	-	085125	085134	019306	019216	-	019041
3" x 20'	022623	022630	-	085130	085137	019307	019217	019033	019042
4 x 20'	022627	022640	022040	085140	085139	019308	019219	019256	019043
5 x 20'	022651	022650	-	085150	-	-	-	-	-
6 x 20'	022665	022660	022060	085160	085162	019309	019220	019218	019044
8 x 20'	022681	022680	022058	085180	085147	019310	019221	019255	019045
10 x 20'	022691	222690	022061	085190	085192	019013	019222	-	-
12 x 20'	022693	022692	022064	085195	085151	019016	019223	-	-
14 x 20'	022682	022694	-	085158	085152	-	019228	-	-
16 x 20'	022683	022696	-	085153	085155	019226	019229	-	-
18 x 20'	022687	022697	-	085159	-	-	-	-	-
20 x 20'	022702	022698	-	-	085170	-	-	-	-
24 x 20'	022704	022699	-	-	085171	-	-	-	-

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 40 WHITE

Dimension inches	Universal Number	Sch 40 WHITE Product Code
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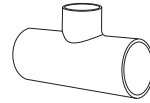
## Tee Soc x Soc x Soc



1/2	401005	035775
3/4	401007	035776
1	401010	035777
1-1/4	401012	035778
1-1/2	401015	035779
2	401020	035780
2-1/2	401025	035781
3	401030	035782
4	401040	035783
5	401050	035784
6	401060	035785
8	401080	035786
10	401100	035930
12	401120	035931

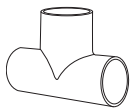
Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## Reducing Tee Soc x Soc x Soc



1/2 x 1/2 x 3/4	401074	035789
1/2 x 1/2 x 1	401075	035354
3/4 x 1/2 x 1/2	401094	035790
3/4 x 1/2 x 3/4	401095	235007
3/4 x 3/4 x 1/2	401101	035792
3/4 x 3/4 x 1	401102	035791
1 x 1/2 x 1	401122	235008
1 x 3/4 x 1/2	401124	235009
1 x 3/4 x 3/4	401125	035994
1 x 3/4 x 1	401126	035962
1 x 1 x 1/2	401130	035794
1 x 1 x 3/4	401131	035795
1 x 1 x 1-1/4	401132	035989
1 x 1 x 1-1/2	401133	035793
1-1/4 x 1 x 1/2	401156	235010
1-1/4 x 1 x 3/4	401157	035796
1-1/4 x 1 x 1	401158	235011
1-1/4 x 1-1/4 x 1/2	401166	035797
1-1/4 x 1-1/4 x 3/4	401167	035798
1-1/4 x 1-1/4 x 1	401168	035799
1-1/4 x 1-1/4 x 1-1/2	401169	235012
1-1/4 x 1-1/4 x 2	401170	235013
1-1/2 x 1-1/4 x 1/2	401199	235014
1-1/2 x 1-1/4 x 3/4	401201	235015
1-1/2 x 1-1/4 x 1	401202	035959
1-1/2 x 1-1/2 x 1/2	401209	035800
1-1/2 x 1-1/2 x 3/4	401210	035801
1-1/2 x 1-1/2 x 1	401211	035802
1-1/2 x 1-1/2 x 1-1/4	401212	035803
1-1/2 x 1-1/2 x 2	401213	035082
1-1/2 x 1-1/2 x 2-1/2	401214	235016
2 x 1-1/2 x 3/4	401238	235017
2 x 1-1/2 x 1	401239	035804
2 x 1-1/2 x 1-1/2	401241	035805
2 x 2 x 1/2	401247	035806
2 x 2 x 3/4	401248	035807
2 x 2 x 1	401249	035808
2 x 2 x 1-1/4	401250	035809
2 x 2 x 1-1/2	401251	035810
2-1/2 x 2-1/2 x 1/2	401287	035811
2-1/2 x 2-1/2 x 3/4	401288	035812
2-1/2 x 2-1/2 x 1	401289	035813
2-1/2 x 2-1/2 x 1-1/4	401290	035814
2-1/2 x 2-1/2 x 1-1/2	401291	035815
2-1/2 x 2-1/2 x 2	401292	035816
3 x 3 x 1/2	035817	401333
3 x 3 x 3/4	035818	401334
3 x 3 x 1	035819	401335
3 x 3 x 1-1/4	035820	401336
3 x 3 x 1-1/2	035821	401337

## Fabricated Tee Soc x Soc x Soc - 130 psi



10	401100F	135835	
12	401120F	135836	
14	401140F	135837	
16	401160F	135838	
*	18	401180F	135839
**	20	401200F	135840
**	24	401240F	135841

\* 18" Tee - 100 psi maximum internal pressure.  
 \*\* 20" & 24" Tee - 50 psi maximum internal pressure.

## Tee Soc x Soc x Fpt



1/2	402005	035851
3/4	402007	035852
1	402010	035853
1-1/4	402012	035854
1-1/2	402015	035855
2	402020	035856
2-1/2	402025	035857
3	402030	035858
4	402040	035859

## Tee Fpt x Fpt x Fpt

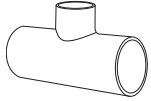


1/2	405005	035844
3/4	405007	035845
1	405010	035846
1-1/4	405012	035847
1-1/2	405015	035848
2	405020	035849

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 40 WHITE

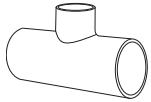
Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## Reducing Tee Soc x Soc x Soc (cont'd)



3 x 3 x 2	401338	035822
3 x 3 x 2-1/2	401339	035823
3 x 3 x 4	401342	235018
4 x 4 x 3/4	401416	035824
4 x 4 x 1	401417	035825
4 x 4 x 1-1/4	401418	035826
4 x 4 x 1-1/2	401419	035827
4 x 4 x 2	401420	035828
4 x 4 x 3	401422	035829
5 x 5 x 2	401486	035956
5 x 5 x 3	401488	035830
5 x 5 x 4	401490	035831
6 x 6 x 2	401528	035832
6 x 6 x 3	401530	035833
6 x 6 x 4	401532	035834
8 x 8 x 3	401580	035835
8 x 8 x 4	401582	035836
8 x 8 x 6	401585	035837
10 x 10 x 4	401624	235842
10 x 10 x 6	401626	235843
10 x 10 x 8	401628	235844
12 x 12 x 4	401664	235845
12 x 12 x 6	401666	235846
12 x 12 x 8	401668	235847

## Fabricated Reducing Tee Soc x Soc x Soc - 130 psi



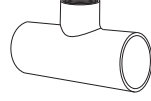
\* 18" Reducing Tees – 100 psi maximum internal pressure.

\*\* 20" & 24" Reducing Tees – 50 psi maximum internal pressure.

10 x 10 x 4	401624F	135842
10 x 10 x 6	401626F	135843
10 x 10 x 8	401628F	135844
12 x 12 x 4	401664F	135845
12 x 12 x 6	401666F	135846
12 x 12 x 8	401668F	135847
12 x 12 x 10	401670F	135848
14 x 14 x 6	401696F	135849
14 x 14 x 8	401698F	135850
14 x 14 x 10	401700F	135851
14 x 14 x 12	401702F	135852
16 x 16 x 8	401758F	135853
16 x 16 x 10	401760F	135854
16 x 16 x 12	401762F	135855
16 x 16 x 14	401764F	135856
* 18 x 18 x 8	401788F	135857
* 18 x 18 x 10	401790F	135858
* 18 x 18 x 12	401792F	135859
* 18 x 18 x 14	401794F	135860
* 18 x 18 x 16	401796F	135861
** 20 x 20 x 16	401826F	135862
** 20 x 20 x 18	401828F	135863
** 24 x 24 x 18	401918F	135864
** 24 x 24 x 20	401920F	135865

Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## Reducing Tee Soc x Soc x Fpt



1/2 x 1/2 x 3/4	402074	035860
3/4 x 1/2 x 1/2	402094	035862
3/4 x 1/2 x 3/4	402095	235019
3/4 x 3/4 x 1/2	402101	035863
1 x 3/4 x 1/2	402124	035867
1 x 1 x 1/2	402130	035865
1 x 1 x 3/4	402131	035866
1-1/4 x 1 x 1/2	402156	035868
1-1/4 x 1 x 1	402158	235020
1-1/4 x 1-1/4 x 1/2	402166	035869
1-1/4 x 1-1/4 x 3/4	402167	035870
1-1/4 x 1-1/4 x 1	402168	035871
1-1/2 x 1-1/4 x 1/2	402199	235021
1-1/2 x 1-1/4 x 3/4	402201	035872
1-1/2 x 1-1/4 x 1	402202	235022
1-1/2 x 1-1/2 x 1/2	402209	035873
1-1/2 x 1-1/2 x 3/4	402210	035874
1-1/2 x 1-1/2 x 1	402211	035875
1-1/2 x 1-1/2 x 1-1/4	402212	035876
2 x 1-1/2 x 3/4	402238	235023
2 x 1-1/2 x 1	402239	235024
2 x 2 x 1/2	402247	035877
2 x 2 x 3/4	402248	035878
2 x 2 x 1	402249	035879
2 x 2 x 1-1/4	402250	035880
2 x 2 x 1-1/2	402251	035881
2-1/2 x 2-1/2 x 1/2	402287	235025
2-1/2 x 2-1/2 x 3/4	402288	035592
2-1/2 x 2-1/2 x 1	402289	035882
2-1/2 x 2-1/2 x 1-1/4	402290	035883
2-1/2 x 2-1/2 x 1-1/2	402291	035884
3 x 3 x 1/2	402333	035885
3 x 3 x 3/4	402334	035886
3 x 3 x 1	402335	035887
3 x 3 x 1-1/4	402336	035888
3 x 3 x 1-1/2	402337	035889
3 x 3 x 2	402338	035890
4 x 4 x 1	402417	035891
4 x 4 x 1-1/2	402419	035893
4 x 4 x 2	402420	035894
4 x 4 x 3	402422	035895
5 x 5 x 4	402490	235026
6 x 6 x 2	402528	035896
6 x 6 x 3	402530	235027
6 x 6 x 4	402532	035897
8 x 8 x 3	402580	235028
8 x 8 x 4	402582	035898

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 40 WHITE

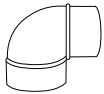
Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## 90° Elbow Soc x Soc



1/2	406005	035519
3/4	406007	035520
1	406010	035521
1-1/4	406012	035522
1-1/2	406015	035523
2	406020	035524
2-1/2	406025	035525
3	406030	035526
4	406040	035527
5	406050	035528
6	406060	035529
8	406080	035530
10	406100	035928
12	406120	035929

## 90° Elbow Soc x Sp



10	409100	235928
12	409120	235929

## Fabricated 90° Elbow Soc x Soc - 130 psi



10	406100F	135871
12	406120F	135872
14	406140F	135873
16	406160F	135874
* 18	406180F	135875

\*18" 90° Elbow - 100 psi maximum internal pressure

## 90° Elbow Soc x Fpt



1/2	407005	035506
3/4	407007	035507
1	407010	035508
1-1/4	407012	035509
1-1/2	407015	035510
2	407020	035511
2-1/2	407025	035512
3	407030	035589
4	407040	035513

## 90° Elbow Fpt x Fpt



1/2	408005	035538
3/4	408007	035539
1	408010	035540
1-1/4	408012	035541
1-1/2	408015	035542
2	408020	035543

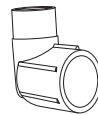
Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## 90° Street Elbow Mpt x Soc



1/2	410005	035500
3/4	410007	035501
1	410010	035502
1-1/4	410012	035503
1-1/2	410015	035504
2	410020	035505

## 90° Street Elbow Spig x Soc



1/2	409005	035544
3/4	409007	035545
1	409010	035546
1-1/4	409012	035547
1-1/2	409015	035548
2	409020	035549

## 90° Street Elbow Mpt x Fpt



1/2	412005	035552
3/4	412007	035553
1	412010	035554
1-1/4	412012	035555
1-1/2	412015	035556
2	412020	035557

## 90° Reducing Elbow Soc x Soc



3/4 x 1/2	406101	035535
1 x 1/2	406130	035536
1 x 3/4	406131	035978
1-1/4 x 1/2	406166	235029
1-1/4 x 3/4	406167	235030
1-1/4 x 1	406168	035991
1-1/2 x 1/2	406209	235031
1-1/2 x 1	406211	235032
2 x 1-1/2	406251	035537

## 90° Reducing Elbow Soc x Fpt



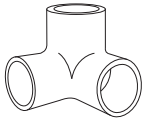
1/2 x 3/4	407074	035514
3/4 x 1/2	407101	035515
1 x 1/2	407130	035516
1 x 3/4	407131	035517
1-1/4 x 1	407168	051007
1-1/2 x 1	407211	035594
2 x 1-1/2	407251	035518



# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 40 WHITE

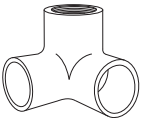
Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## Side Outlet Elbow Soc x Soc x Soc



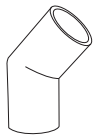
1/2	413005	035498
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## Side Outlet Elbow Soc x Soc x Fpt



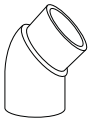
1/2	414005	235033
3/4	414007	235034
3/4 x 3/4 x 1/2	414101	235035
1 x 1 x 1/2	414130	235036

## 45° Elbow Soc x Soc



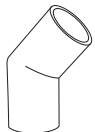
1/2	417005	035481
3/4	417007	035482
1	417010	035483
1-1/4	417012	035484
1-1/2	417015	035485
2	417020	035486
2-1/2	417025	035487
3	417030	035488
4	417040	035489
5	417050	035490
6	417060	035491
8	417080	035492
10	417100	035926
12	417120	035927

## 45° Elbow Soc x Sp



10	423100	235876
12	423120	235877

## Fabricated 45° Elbow Soc x Soc - 130 psi

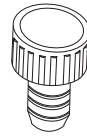


10	417100F	135876
12	417120F	135877
14	417140F	135878
16	417160F	135879
* 18	417180F	135880

\*18" 45° Elbow – 100 psi maximum internal pressure

Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## Hose Adapter Insert x IPS Soc



1/2	474005	035596
3/4	474007	035597
1	474010	035598
1-1/4	474012	035599
1-1/2	474015	035600
2	474020	035601
3	474030	235037
4	474040	235038

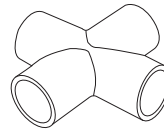
## Hose Adapter (grey) Insert x Mpt



1/2	1436005	035157
3/4	1436007	035158
1	1436010	035159
1-1/4	1436012	035160
1-1/2	1436015	035161
2	1436020	035162
2-1/2	1436025	035163
3	1436030	035164
4	1436040	035165

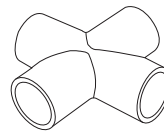
ASTM D2609 – Plastic Insert fitting for polyethylene

## Cross Soc x Soc x Soc x Soc



1/2	420005	035469
3/4	420007	035470
1	420010	035471
1-1/4	420012	035472
1-1/2	420015	035473
2	420020	035474
2-1/2	420025	035475
3	420030	035476
4	420040	035477

## Fabricated Cross Soc x Soc x Soc x Soc - 130 psi



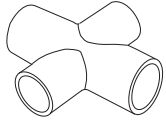
6	420060F	035478
8	420080F	135881
10	420100F	135882
12	420120F	135883
14	420140F	135884
16	420160F	135885

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 40 WHITE

Dimension inches	Universal Number	Sch 40 WHITE Product Code
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Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## Fabricated Reducing Cross Soc x Soc x Soc x Soc - 130 psi



8 x 4	420582F	135886
8 x 6	420585F	135887
10 x 6	420626F	135888
10 x 8	420628F	135889
12 x 8	420668F	135890
12 x 10	420670F	135891
14 x 10	420700F	135892
14 x 12	420702F	135893
16 x 12	420762F	135894
16 x 14	420764F	135895

## Reducing Coupling Soc x Soc



3/4 x 1/2	429101	035759
1 x 3/4	429131	035760
1-1/4 x 1	429168	035761
1-1/2 x 1-1/4	429212	035762
2 x 1-1/2	429251	035764
4 x 3	429422	035765
6 x 4	429532	035766
10 x 6	429626	235898
10 x 8	429628	235899
12 x 8	429668	235900
12 x 10	429670	235901

## Coupling Soc x Soc



3/8	429003	035447
1/2	429005	035448
3/4	429007	035449
1	429010	035450
1-1/4	429012	035451
1-1/2	429015	035452
2	429020	035453
2-1/2	429025	035454
3	429030	035455
4	429040	035456
5	429050	035457
6	429060	035458
8	429080	035459
10	429100	235460
12	429120	235461

## Fabricated Eccentric Reducing Coupling Soc x Soc - 130 psi



8 x 4	429582FE	135896
8 x 6	429585FE	135897
10 x 4	429624FE	035479
10 x 6	429626FE	135898
10 x 8	429628FE	135899
12 x 6	429666FE	035480
12 x 8	429668FE	135900
12 x 10	429670FE	135901

## Female Adapter Soc x Fpt



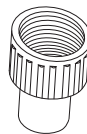
1/2	435005	035559
3/4	435007	035560
1	435010	035561
1-1/4	435012	035562
1-1/2	435015	035563
2	435020	035564
2-1/2	435025	035565
3	435030	035566
4	435040	035567
5	435050	035568
6	435060	035569
8	435080	035570

## Fabricated Coupling Soc x Soc



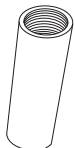
10	429100F	035460
12	429120F	035461
14	429140F	035462
16	429160F	035463
18	429180F	035434
20	429200F	035464
24	429240F	035465

## Female Adapter Spig x Fpt



1/2	478005	035578
3/4	478007	035579
1	478010	035580
1-1/4	478012	035581
1-1/2	478015	035582
2	478020	035583
3	478030	035585
4	478040	035586

## Coupling Fpt x Fpt

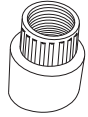


1/2	430005	035466
3/4	430007	035467
1	430010	035468

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 40 WHITE

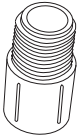
Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## Reducing Female Adapter Soc x Fpt



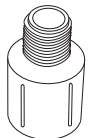
1/2 x 1/4	435072	035571
1/2 x 3/8	435073	035951
1/2 x 3/4	435074	035572
3/4 x 1/2	435101	035992
3/4 x 1	435102	035990
1 x 3/4	435131	035958

## Male Adapter Soc x Mpt



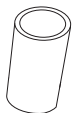
3/8	436003	035934
1/2	436005	035602
3/4	436007	035603
1	436010	035604
1-1/4	436012	035605
1-1/2	436015	035606
2	436020	035607
2-1/2	436025	035608
3	436030	035609
4	436040	035610
5	436050	035611
6	436060	035612
8	436080	035613

## Reducing Male Adapter Mpt x Soc



1/2 X 3/4	436074	035614
3/4 x 1/2	436101	035615
1 x 3/4	436102	035616
3/4 x 1	436131	035617
1 x 1-1/4	436132	035618
1-1/4 x 1	436168	035380
1-1/4 X 1-1/2	436169	035593
1-1/2 x 1-1/4	436212	035619
1-1/2 x 2	436213	035620
2 x 1-1/2	436251	035973
2-1/2 x 2	436252	235041
3 x 2-1/2	436294	235042
4 x 2-1/2	436296	235043
4 x 3	436342	235044

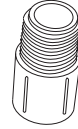
## IPS to PIP Adapter Spig x Soc



6	431060	235045
8	431080	235046

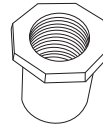
Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## Riser Extension Fpt x Mpt



1/2	434005	035591
3/4	434007	035944
1	434010	035947

## Reducer Bushing Spig x Fpt

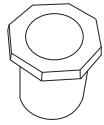


1/2 x 1/8	438071	035717
1/2 x 1/4	438072	035718
1/2 x 3/8	438073	035719
3/4 x 1/4	438098	035720
3/4 x 1/2	438101	035722
1 x 3/8	438129	035723
1 x 1/2	438130	035724
1 x 3/4	438131	035725
1-1/4 x 1/2	438166	035726
1-1/4 x 3/4	438167	035727
1-1/4 x 1	438168	035728
1-1/2 x 1/2	438209	035729
1-1/2 x 3/4	438210	035730
1-1/2 x 1	438211	035731
1-1/2 x 1-1/4	438212	035732
2 x 1/2	438247	035733
2 x 3/4	438248	035734
2 x 1	438249	035735
2 x 1-1/4	438250	035736
2 x 1-1/2	438251	035737
2-1/2 x 1/2	438287	035738
2-1/2 x 3/4	438288	035739
2-1/2 x 1	438289	035740
2-1/2 x 1-1/4	438290	035741
2-1/2 x 1-1/2	438291	035742
2-1/2 x 2	438292	035743
3 x 3/4	438334	035744
3 x 1	438335	035745
3 x 1-1/4	438336	035746
3 x 1-1/2	438337	035747
3 x 2	438338	035748
3 x 2-1/2	438339	035749
4 x 2	438420	035750
4 x 2-1/2	438421	035751
4 x 3	438422	035752
5 x 3	438488	035753
5 x 4	438490	035754
6 x 2	438528	035755
6 x 3	438530	035756
6 x 4	438532	035757
6 x 5	438534	035758

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 40 WHITE

Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## Reducer Bushing Spig x Soc



Dimension inches	Universal Number	Sch 40 WHITE Product Code
1/2 x 1/4	437072	035643
1/2 x 3/8	437073	035644
3/4 x 1/2	437101	035646
1 x 1/2	437130	035648
1 x 3/4	437131	035649
1-1/4 x 1/2	437166	035650
1-1/4 x 3/4	437167	035651
1-1/4 x 1	437168	035652
1-1/2 x 1/2	437209	035653
1-1/2 x 3/4	437210	035654
1-1/2 x 1	437211	035655
1-1/2 x 1-1/4	437212	035656
2 x 1/2	437247	035657
2 x 3/4	437248	035658
2 x 1	437249	035659
2 x 1-1/4	437250	035660
2 x 1-1/2	437251	035661
2-1/2 x 1/2	437287	035662
2-1/2 x 3/4	437288	035663
2-1/2 x 1	437289	035664
2-1/2 x 1-1/4	437290	035665
2-1/2 x 1-1/2	437291	035666
2-1/2 x 2	437292	035667
3 x 3/4	437334	035668
3 x 1	437335	035669
3 x 1-1/4	437336	035670
3 x 1-1/2	437337	035671
3 x 2	437338	035672
3 x 2-1/2	437339	035673
4 x 2	437420	035677
4 x 2-1/2	437421	035678
4 x 3	437422	035679
5 x 2	437486	035680
5 x 3	437488	035681
5 x 4	437490	035682
6 x 2	437528	035683
6 x 3	437530	035684
6 x 4	437532	035685
6 x 5	437534	035686
8 x 4	437582	035687
8 x 6	437585	035688
10 x 6	437626	235690
10 x 8	437628	035691
12 x 8	437668	235693
12 x 10	437670	235694

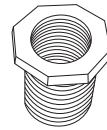
Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## Fabricated Reducer Bushing Spig x Soc - 130 psi



Dimension inches	Universal Number	Sch 40 WHITE Product Code
10 x 4	437624F	035689
10 x 6	437626F	035690
12 x 4	437664F	035041
12 x 6	437666F	035692
12 x 8	437668F	035693
12 x 10	437670F	035694

## T.T. Bushing Mpt x FPT



Dimension inches	Universal Number	Sch 40 WHITE Product Code
3/8 x 1/4	439052	035696
1/2 x 1/4	439072	035697
1/2 x 3/8	439073	035698
3/4 x 1/4	439098	035699
3/4 x 3/8	439099	035698
3/4 x 1/2	439101	035700
1 x 1/2	439130	035701
1 x 3/4	439131	035702
1-1/4 x 1/2	439166	035703
1-1/4 x 3/4	439167	035704
1-1/4 x 1	439168	035705
1-1/2 x 1/2	439209	035706
1-1/2 x 3/4	439210	035707
1-1/2 x 1	439211	035708
1-1/2 x 1-1/4	439212	035709
2 x 1	439249	035711
2 x 1-1/4	439250	035712
2 x 1-1/2	439251	035713
2-1/2 x 2	439292	035714
3 x 2	439338	035715
3 x 2-1/2	439339	035716

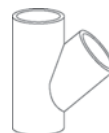
## 45° Wye Soc x Soc x Soc



Dimension inches	Universal Number	Sch 40 WHITE Product Code
1-1/2	475015	035912
2	475020	035913
3	475030	035915
4	475040	035916
6	475060	035917
6 x 6 x 4	475532	035922

1-1/2" - 2" Wye - 235 psi maximum internal pressure @ 73°F  
 3" - 6 x 6 x 4 Wye - 150 psi maximum internal pressure @ 73°F

## Fabricated 45° Wye Soc x Soc x Soc - 100 psi



Dimension inches	Universal Number	Sch 40 WHITE Product Code
8	475080F	135866
10	475100F	135867
12	475120F	135868
14	475140F	135869
16	475160F	135870

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 40 WHITE

Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## Cap Soc



3/8	447003	035406
1/2	447005	035407
3/4	447007	035408
1	447010	035409
1-1/4	447012	035410
1-1/2	447015	035411
2	447020	035412
2-1/2	447025	035413
3	447030	035414
4	447040	035415
5	447050	035416
6	447060	035417
8	447080	035418
10	447100	235902
12	447120	235903

## Fabricated Cap Soc - 130 psi



10	447100F	135902	
12	447120F	135903	
14	447140F	135904	
16	447160F	135905	
*	18	447180F	135906
**	20	447200F	135907
**	24	447240F	135908

\* 18" Cap - 100 psi maximum internal pressure

\*\* 20" & 24" Cap - 50 psi maximum internal pressure

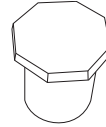
## Cap Fpt



3/8	448003	035948
1/2	448005	035423
3/4	448007	035424
1	448010	035425
1-1/4	448012	035426
1-1/2	448015	035427
2	448020	035428
2-1/2	448025	035429
3	448030	035430
4	448040	035431
5	448050	035432
6	448060	035433

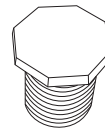
Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## Plug Spig



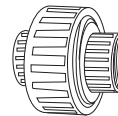
3/8	449003	035946
1/2	449005	035631
3/4	449007	035632
1	449010	035633
1-1/4	449012	035634
1-1/2	449015	035635
2	449020	035636
2-1/2	449025	035637
3	449030	035638
4	449040	035639

## Plug Mpt



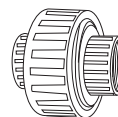
3/8	450003	035621
1/2	450005	035622
3/4	450007	035623
1	450010	035624
1-1/4	450012	035625
1-1/2	450015	035626
2	450020	035627
2-1/2	450025	035628
3	450030	035629
4	450040	035630
6	450060	235047

## Union Soc x Soc EPDM O-ring Seal



1/2	497005	235001
3/4	497007	235002
1	497010	235003
1-1/4	497012	235004
1-1/2	497015	235005
2	497020	235006

## Union Soc x Soc Buna O-ring Seal (Nitrile)

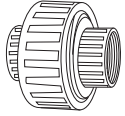


1/2	457005	035900
3/4	457007	035901
1	457010	035902
1-1/4	457012	035903
1-1/2	457015	035904
2	457020	035905

# PRODUCT SELECTION CHART – XIRTEC 140 PVC SCH. 40 **WHITE**

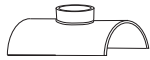
Dimension inches	Universal Number	Sch 40 WHITE Product Code
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## Union Fpt x Fpt Buna O-ring Seal (Nitrile)



1/2	458005	035906
3/4	458007	035907
1	458010	035908
1-1/4	458012	035909
1-1/2	458015	035910
2	458020	035911

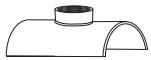
## Saddles Pipe OD x Soc (Rated for 80 psi Open-Ended)



2-1/2 x 3/4	463288	235048
* 3 x 1-1/4	463336	035996
3 x 1-1/2	463337	235049
* 3 x 2	463338	035995
* 4 x 1-1/4	463418	035767
4 x 1-1/2	463419	035768
* 4 x 2	463420	035769
* 5 x 1-1/2	463485	235050
5 x 2	463486	035955
* 6 x 1-1/4	463526	235051
6 x 1-1/2	463527	035588
* 6 x 2	463528	035942
6 x 4	463532	035770
* 8 x 1-1/4	463576	235052
8 x 1-1/2	463577	235053
* 8 x 2	463578	235054
8 x 4	463582	035976
10 x 4	463624	035771

\* These sizes are bushed.

## Saddles Pipe OD x Fpt (Rated for 80 psi Open-Ended)



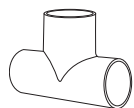
2-1/2 x 3/4	464288	235055
3 x 1-1/2	464337	035993
4 x 1-1/2	464419	035772
5 x 2	464486	035943
6 x 1-1/2	464527	035587
6 x 4	464532	235056
8 x 1-1/2	464577	235057
8 x 4	464582	035774
10 x 4	464624	235058

NOTE: When assembling Saddles to PVC pipe, IPEX recommends Industrial Polychemical Service (IPS) #719 cement, or equivalent. Although good connections may be accomplished without Saddle Straps, IPEX recommends the use of a clamp or strap device during the assembly step to insure good compression between the pipe and fitting surfaces as the solvent cures. For further details contact the factory.

# PRODUCT SELECTION CHART – XIRTEC 140 PVC SCH. 40 GREY

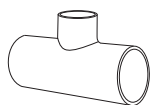
Dimension inches	Universal Number	Sch 40 GREY Product Code
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## Tee Soc x Soc x Soc



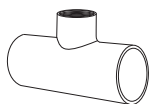
1/2	401005G	035290
3/4	401007G	035291
1	401010G	035292
1-1/4	401012G	035293
1-1/2	401015G	035294
2	401020G	035295
2-1/2	401025G	035296
3	401030G	035297
4	401040G	035298
5	401050G	035299
6	401060G	035300
8	401080G	035301

## Reducing Tee Soc x Soc x Soc



3/4 x 3/4 x 1/2	401101G	035305
1 x 1 x 1/2	401130G	035307
1 x 1 x 3/4	401131G	035308
1-1/4 x 1-1/4 x 1/2	401166G	035311
1-1/4 x 1-1/4 x 3/4	401167G	035312
1-1/4 x 1-1/4 x 1	401168G	035313
1-1/2 x 1-1/2 x 1/2	401209G	035315
1-1/2 x 1-1/2 x 3/4	401210G	035316
1-1/2 x 1-1/2 x 1	401211G	035317
1-1/2 x 1-1/2 x 1-1/4	401212G	035318
2 x 2 x 1/2	401247G	035319
2 x 2 x 3/4	401248G	035320
2 x 2 x 1	401249G	035321
2 x 2 x 1-1/2	401251G	035322
3 x 3 x 1-1/2	401337G	035327
3 x 3 x 2	401338G	035328
3 x 3 x 2-1/2	401339G	035329
4 x 4 x 2	401420G	035331
4 x 4 x 3	401422G	035332
6 x 6 x 3	401530G	035334
6 x 6 x 4	401532G	035335

## Reducing Tee Soc x Soc x Fpt



3/4 x 3/4 x 1/2	402101G	035348
1 x 1 x 1/2	402130G	235059
1 x 1 x 3/4	402131G	035349
1-1/4 x 1-1/4 x 1/2	402166G	035350
1-1/4 x 1-1/4 x 3/4	402167G	035977
1-1/4 x 1-1/4 x 1	402168G	235060
1-1/2 x 1-1/2 x 1/2	402209G	035351
1-1/2 x 1-1/2 x 3/4	402210G	035352
1-1/2 x 1-1/2 x 1	402211G	035353
2 x 2 x 3/4	402248G	035355
2 x 2 x 1	402249G	035356
2 x 2 x 1-1/2	402251G	235061

Dimension inches	Universal Number	Sch 40 GREY Product Code
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## 90° Elbow Soc x Soc



3/8	406003G	035108
1/2	406005G	035109
3/4	406007G	035110
1	406010G	035111
1-1/4	406012G	035112
1-1/2	406015G	035113
2	406020G	035114
2-1/2	406025G	035115
3	406030G	035116
4	406040G	035117
5	406050G	035118
6	406060G	035119
8	406080G	035120

## 90° Elbow Soc x Fpt



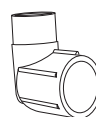
1/2	407005G	035101
3/4	407007G	035102
1	407010G	035103
1-1/4	407012G	035104
1-1/2	407015G	035105
2	407020G	035106

## 90° Elbow Fpt x Fpt



1/2	408005G	035125
3/4	408007G	035126
1	408010G	035127

## 90° Street Elbow Spig x Soc



1	409010G	035128
1-1/2	409015G	035129
2	409020G	035130

## 90° Street Elbow Mpt x Fpt



1/2	412005G	035132
3/4	412007G	035133
1	412010G	035134
1-1/2	412015G	035135

## 45° Elbow Soc x Soc

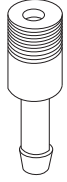


1/2	417005G	035083
3/4	417007G	035084
1	417010G	035085
1-1/4	417012G	035086
1-1/2	417015G	035087
2	417020G	035088
2-1/2	417025G	035089
3	417030G	035090
4	417040G	035091
5	417050G	035092
6	417060G	035093
8	417080G	035094

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 40 GREY

Dimension inches	Universal Number	Sch 40 GREY Product Code
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## Hose Adapter (grey) Insert x Mpt

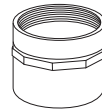


1/2	1436005G	035157
3/4	1436007G	035158
1	1436010G	035159
1-1/4	1436012G	035160
1-1/2	1436015G	035161
2	1436020G	035162
2-1/2	1436025G	035163
3	1436030G	035164
4	1436040G	035165

ASTM D2609 - Plastic Insert fitting for polyethylene

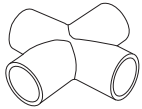
Dimension inches	Universal Number	Sch 40 GREY Product Code
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## Female Adapter Soc x Fpt



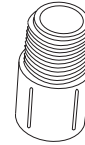
1/2	435005G	035136
3/4	435007G	035137
1	435010G	035138
1-1/4	435012G	035139
1-1/2	435015G	035140
2	435020G	035141
2-1/2	435025G	035142
3	435030G	035143
4	435040G	035144
5	435050G	035145
6	435060G	035146

## Cross Soc x Soc x Soc x Soc



1/2	420005G	035068
3/4	420007G	035069
1	420010G	035070
1-1/4	420012G	035071
1-1/2	420015G	035072
2	420020G	035073
2-1/2	420025G	035074
3	420030G	035075
4	420040G	035076

## Male Adapter Soc x Mpt



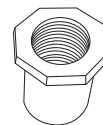
1/2	436005G	035167
3/4	436007G	035168
1	436010G	035169
1-1/4	436012G	035170
1-1/2	436015G	035171
2	436020G	035172
2-1/2	436025G	035173
3	436030G	035174
4	436040G	035175
5	436050G	035176
6	436060G	035177

## Coupling Soc x Soc



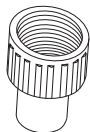
1/2	429005G	035052
3/4	429007G	035053
1	429010G	035054
1-1/4	429012G	035055
1-1/2	429015G	035056
2	429020G	035057
2-1/2	429025G	035058
3	429030G	035059
4	429040G	035060
5	429050G	035061
6	429060G	035062
8	429080G	035063

## Reducer Bushing Spig x Fpt



1/2 x 1/4	438072G	035258
1/2 x 3/8	438073G	035259
3/4 x 1/2	438101G	035260
1 x 1/2	438130G	035262
1 x 3/4	438131G	035263
1-1/4 x 1/2	438166G	035264
1-1/4 x 3/4	438167G	035265
1-1/4 x 1	438168G	035266
1-1/2 x 1/2	438209G	035267
1-1/2 x 3/4	438210G	035268
1-1/2 x 1	438211G	035269
1-1/2 x 1-1/4	438212G	035270
2 x 1/2	438247G	035271
2 x 3/4	438248G	035272
2 x 1	438249G	035273
2 x 1-1/4	438250G	035274
2 x 1-1/2	438251G	035275
2-1/2 x 1-1/2	438291G	035277
2-1/2 x 2	438292G	035278
3 x 2	438338G	035283
4 x 2	438420G	035285
4 x 3	438422G	035286
5 x 4	438490G	235062
6 x 4	438532G	035287

## Female Adapter Spig x Fpt



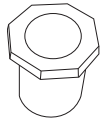
1/2	478005G	035148
3/4	478007G	035149
1	478010G	035150
1-1/4	478012G	035151
1-1/2	478015G	035152
2	478020G	035153
3	478030G	035155
4	478040G	035156



# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 40 GREY

Dimension inches	Universal Number	Sch 40 GREY Product Code
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## Reducer Bushing Spig x Soc



Dimension inches	Universal Number	Sch 40 GREY Product Code
3/4 x 1/2	437101G	035209
1 x 1/2	437130G	035211
1 x 3/4	437131G	035212
1-1/4 x 1/2	437166G	035213
1-1/4 x 3/4	437167G	035214
1-1/4 x 1	437168G	035215
1-1/2 x 1/2	437209G	035216
1-1/2 x 3/4	437210G	035217
1-1/2 x 1	437211G	035218
1-1/2 x 1-1/4	437212G	035219
2 x 1/2	437247G	035220
2 x 3/4	437248G	035221
2 x 1	437249G	035222
2 x 1-1/4	437250G	035223
2 x 1-1/2	437251G	035224
2-1/2 x 1	437289G	035226
2-1/2 x 1-1/4	437290G	035227
2-1/2 x 1-1/2	437291G	035228
2-1/2 x 2	437292G	035229
3 x 1	437335G	035231
3 x 1-1/4	437336G	035232
3 x 1-1/2	437337G	035233
3 x 2	437338G	035234
3 x 2-1/2	437339G	035235
4 x 2	437420G	035238
4 x 2-1/2	437421G	035239
4 x 3	437422G	035240
5 x 4	437490G	035241
6 x 4	437532G	035244
8 x 6	437585G	035246

## Cap Soc



Dimension inches	Universal Number	Sch 40 GREY Product Code
3/8	447003G	035590
1/2	447005G	035017
3/4	447007G	035018
1	447010G	035019
1-1/4	447012G	035020
1-1/2	447015G	035021
2	447020G	035022
2-1/2	447025G	035023
3	447030G	035024
4	447040G	035025
5	447050G	035026
6	447060G	035027
8	447080G	035028

Dimension inches	Universal Number	Sch 40 GREY Product Code
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## Cap Fpt



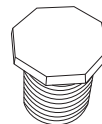
Dimension inches	Universal Number	Sch 40 GREY Product Code
1/2	448005G	035032
3/4	448007G	035033
1	448010G	035034
1-1/4	448012G	035035
1-1/2	448015G	035036
2	448020G	035037
3	448030G	035038
4	448040G	035039

## Plug Spig



Dimension inches	Universal Number	Sch 40 GREY Product Code
1/2	449005G	035197
3/4	449007G	035198
1	449010G	035199
1-1/4	449012G	035200
1-1/2	449015G	035201
2	449020G	035202
3	449030G	035204

## Plug Mpt

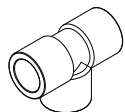


Dimension inches	Universal Number	Sch 40 GREY Product Code
1/2	450005G	035188
3/4	450007G	035189
1	450010G	035190
1-1/4	450012G	035191
1-1/2	450015G	035192
2	450020G	035193
2-1/2	450025G	035194
3	450030G	035195
4	450040G	035196

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 80

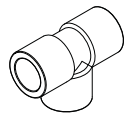
Dimension inches	Universal Number	Sch 40 GREY Product Code
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## Tee Soc x Soc x Soc



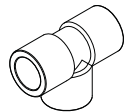
1/4	801002	036768
3/8	801003	036769
1/2	801005	036770
3/4	801007	036771
1	801010	036772
1-1/4	801012	036773
1-1/2	801015	036774
2	801020	036775
2-1/2	801025	036776
3	801030	036777
4	801040	036778
6	801060	036780
8	801080	036781
10	801100	036866
12	801120	036876

## Fabricated Tee Soc x Soc x Soc - 130 psi



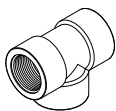
10	801100F	036407
12	801120F	036430
14	801140F	036431
16	801160F	036432

## Tee Soc x Soc x Fpt



1/2	802005	036828
3/4	802007	036829
1	802010	036830

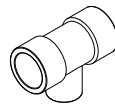
## Tee Fpt x Fpt x Fpt



1/4	805002	036817
3/8	805003	036818
1/2	805005	036819
3/4	805007	036820
1	805010	036821
1-1/4	805012	036822
1-1/2	805015	036823
2	805020	036824
2-1/2	805025	036825
3	805030	036826
4	805040	036827

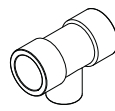
Dimension inches	Universal Number	Sch 40 GREY Product Code
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## Reducing Tee Soc x Soc x Soc



3/4 x 3/4 x 1/2	801101	036786
1 x 3/4 x 3/4	801102	036790
1 x 3/4 x 1	801126	036791
1 x 1 x 1/2	801130	036788
1 x 1 x 3/4	801131	036789
1-1/4 x 1 x 3/4	801157	036792
1-1/4 x 1-1/4 x 3/4	801167	036793
1-1/4 x 1-1/4 x 1	801168	036794
1-1/2 x 1-1/2 x 3/4	801210	036795
1-1/2 x 1-1/2 x 1	801211	036796
2 x 2 x 1/2	801247	036797
2 x 2 x 3/4	801248	036798
2 x 2 x 1	801249	036799
2 x 2 x 1-1/2	801251	036800
3 x 3 x 2	801338	036802
3 x 3 x 2-1/2	801339	036803
4 x 4 x 2	801420	036804
4 x 4 x 3	801422	036805
6 x 6 x 3	801530	036807
6 x 6 x 4	801532	036808
8 x 8 x 6	801585	036810

## Fabricated Reducing Tee Soc x Soc x Soc - 130 psi



8 x 8 x 4	801582F	036433
10 x 10 x 6	801626F	036465
10 x 10 x 8	801628F	036594
12 x 12 x 8	801668F	036755
12 x 12 x 10	801670F	036756
14 x 14 x 10	801700F	036757
14 x 14 x 12	801702F	036806
16 x 16 x 12	801762F	036811
16 x 16 x 14	801764F	036831

## 90° Elbow Soc x Soc

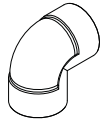


1/4	806002	036179
3/8	806003	036180
1/2	806005	036181
3/4	806007	036182
1	806010	036183
1-1/4	806012	036184
1-1/2	806015	036185
2	806020	036186
2-1/2	806025	036187
3	806030	036188
4	806040	036189
6	806060	036191
8	806080	036192
10	806100	036864
12	806120	036865

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 80

Dimension inches	Universal Number	PVC Sch 80 Product Code
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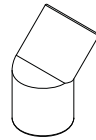
## Fabricated 90° Elbow Soc x Soc - 130 psi



10	806100F	036860
12	806120F	036877
14	806140F	036878
16	806160F	036879

Dimension inches	Universal Number	PVC Sch 80 Product Code
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## Fabricated 45° Elbow Soc x Soc - 130 psi



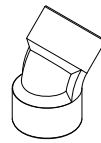
10	817100F	036880
12	817120F	036881
14	817140F	036882
16	817160F	036885

## 90° Elbow Fpt x Fpt



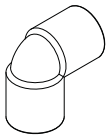
1/4	808002	036197
3/8	808003	036198
1/2	808005	036199
3/4	808007	036200
1	808010	036201
1-1/4	808012	036202
1-1/2	808015	036203
2	808020	036204
2-1/2	808025	036205
3	808030	036206
4	808040	036207

## 45° Elbow Fpt x Fpt



1/4	819002	036160
3/8	819003	036161
1/2	819005	036162
3/4	819007	036163
1	819010	036164
1-1/4	819012	036165
1-1/2	819015	036166
2	819020	036167
2-1/2	819025	036168
3	819030	036169
4	819040	036170

## 90° Elbow Soc x Fpt



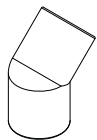
1/2	807005	036172
3/4	807007	036173
1	807010	036174
1-1/4	807012	036175
1-1/2	807015	036176
2	807020	036177

## 30° Elbow Soc x Soc



6	815060	236003
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## 45° Elbow Soc x Soc



1/4	817002	036142
3/8	817003	036143
1/2	817005	036144
3/4	817007	036145
1	817010	036146
1-1/4	817012	036147
1-1/2	817015	036148
2	817020	036149
2-1/2	817025	036150
3	817030	036151
4	817040	036152
6	817060	036154
8	817080	036155
10	817100	036862
12	817120	036863

## 22-1/2° Elbow Soc x Soc



2	816020	036134
3	816030	036135
4	816040	036136
6	816060	036137

## Fabricated 22-1/2° Elbow Soc x Soc - 130 psi

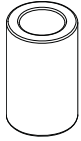


8	816080F	036888
10	816100F	036890

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 80

Dimension inches	Universal Number	PVC Sch 80 Product Code
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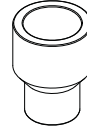
## Coupling Soc x Soc



1/4	829002	036088
3/8	829003	036089
1/2	829005	036090
3/4	829007	036091
1	829010	036092
1-1/4	829012	036093
1-1/2	829015	036094
2	829020	036095
2-1/2	829025	036096
3	829030	036097
4	829040	036098
6	829060	036099
8	829080	036100
10	829100	236021
12	829120	236022

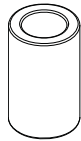
Dimension inches	Universal Number	PVC Sch 80 Product Code
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## Reducer Coupling Soc x Soc



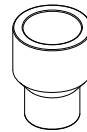
3/4 x 1/2	829101	036719
1 x 1/2	829130	036720
1 x 3/4	829131	036721
1-1/4 x 3/4	829167	036723
1-1/4 x 1	829168	036724
1-1/2 x 1/2	829209	036725
1-1/2 x 3/4	829210	036726
1-1/2 x 1	829211	036727
1-1/2 x 1-1/4	829212	036728
2 x 1/2	829247	036897
2 x 1	829249	036729
2 x 1-1/2	829251	036731
3 x 2	829338	036735
4 x 2	829420	036736
4 x 3	829422	036738
6 x 4	829532	036740
8 x 6	829585	036743

## Fabricated Coupling Soc x Soc



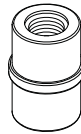
10	829100F	036101
12	829120F	036102
14	829140F	036103
16	829160F	036889

## Fabricated Reducer Coupling Soc x Soc - 130 psi



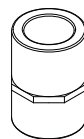
8 x 4	829582F	136167
10 x 4	829624F	136168
10 x 6	829626F	136169
10 x 8	829628F	136170
12 x 6	829666F	136171
12 x 8	829668F	136172
12 x 10	829670F	136173
14 x 8	829698F	136174
14 x 10	829700F	136175
14 x 12	829702F	136176
16 x 10	829760F	136177
16 x 12	829762F	136178
16 x 14	829764F	136179

## Coupling Fpt x Fpt



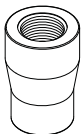
1/4	830002	036104
3/8	830003	036105
1/2	830005	036106
3/4	830007	036107
1	830010	036108
1-1/4	830012	036109
1-1/2	830015	036110
2	830020	036111
2-1/2	830025	036112
3	830030	036113
4	830040	036114

## Female Adapter Soc x Fpt



1/4	835002	036209
3/8	835003	036210
1/2	835005	036211
3/4	835007	036212
1	835010	036213
1-1/4	835012	036214
1-1/2	835015	036215
2	835020	036216
2-1/2	835025	036217
3	835030	036218
4	835040	036219

## Reducer Coupling Fpt x Fpt

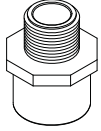


1/2 x 1/4	830072	036746
3/4 x 1/2	830101	036748
1 x 1/2	830130	036749
1 x 3/4	830131	036750
1-1/4 x 3/4	830167	036751
1-1/2 x 1	830211	036754
2 x 1-1/2	830251	036758

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 80

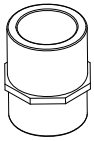
Dimension inches	Universal Number	PVC Sch 80 Product Code
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## Male Adapter Soc x Mpt



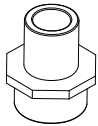
1/2	836005	036420
3/4	836007	036421
1	836010	036422
1-1/4	836012	036423
1-1/2	836015	036424
2	836020	036425
2-1/2	836025	036426
3	836030	036427
4	836040	036428

## Female Adapter Soc x Fpt (SS reinforced)



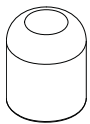
1/2	835005SR	036971
3/4	835007SR	036972
1	835010SR	036973
1-1/4	835012SR	036974
1-1/2	835015SR	036975
2	835020SR	036976
2-1/2	835025SR	036977
3	835030SR	036978
4	835040SR	036979

## Female Adapter Spig x Fpt (SS reinforced)



1/2	878005SR	036965
3/4	878007SR	036966
1	878010SR	036967
1-1/4	878012SR	036968
1-1/2	878015SR	036969
2	878020SR	036970
3	878030SR	236000
4	878040SR	236001

## Cap Soc



1/4	847002	036056
3/8	847003	036057
1/2	847005	036058
3/4	847007	036059
1	847010	036060
1-1/4	847012	036061
1-1/2	847015	036062
2	847020	036063
2-1/2	847025	036064
3	847030	036065
4	847040	036066
6	847060	036067
8	847080	036068
10	847100	236023
12	847120	236024

Dimension inches	Universal Number	PVC Sch 80 Product Code
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## Fabricated Cap Soc - 130 psi



* 10	847100F	036891
12	847120F	036892
14	847140F	036893
16	847160F	036894

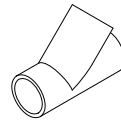
\* 10" - 140 psi

## Cap Fpt



1/4	848002	036072
3/8	848003	036073
1/2	848005	036074
3/4	848007	036075
1	848010	036076
1-1/4	848012	036077
1-1/2	848015	036078
2	848020	036079
2-1/2	848025	036080
3	848030	036081
4	848040	036082

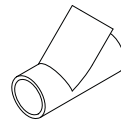
## Wye Soc x Soc x Soc



1-1/2	875015	036854
2	875020	036855
3	875030	036856
4	875040	036857
6	875060	036858
6 x 4	875532	036861

1/2" - 2" Wye - 235 psi maximum internal pressure rating @ 73°F  
 3" - 6 x 6 x 4" Wye - 150 psi maximum internal pressure rating @ 73°F

## Fabricated Wye Soc x Soc x Soc - 130 psi

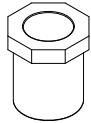


8	875080F	036895
10	875100F	036896
12	875120F	036898
14	875140F	036899

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 80

Dimension inches	Universal Number	PVC Sch 80 Product Code
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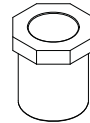
## Reducer Bushing Spig x Soc (flushstyle)



3/8 x 1/4	837052	036599
1/2 x 1/4	837072	036600
1/2 x 3/8	837073	036601
3/4 x 1/2	837101	036604
1 x 1/2	837130	036605
1 x 3/4	837131	036606
1-1/4 x 1/2	837166	036607
1-1/4 x 3/4	837167	036608
1-1/4 x 1	837168	036609
1-1/2 x 1/2	837209	036610
1-1/2 x 3/4	837210	036611
1-1/2 x 1	837211	036612
1-1/2 x 1-1/4	837212	036613
2 x 1/2	837247	036614
2 x 3/4	837248	036615
2 x 1	837249	036616
2 x 1-1/4	837250	036617
2 x 1-1/2	837251	036618
2-1/2 x 1-1/4	837290	036620
2-1/2 x 1-1/2	837291	036621
2-1/2 x 2	837292	036622
3 x 1	837335	036623
3 x 1-1/4	837336	036269
3 x 1-1/2	837337	036624
3 x 2	837338	036625
3 x 2-1/2	837339	036626
4 x 2	837420	036628
4 x 2-1/2	837421	036629
4 x 3	837422	036630
6 x 2	837528	036632
6 x 3	837530	036633
6 x 4	837532	036634
8 x 4	837582	136155
8 x 6	837585	036638
10 x 6	837626	236025
10 x 8	837628	036026
12 x 8	837668	236027
12 x 10	837670	236028

Dimension inches	Universal Number	PVC Sch 80 Product Code
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## Fabricated Reducer Bushing Spig x Soc

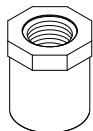


10 x 4	837624F	136156
10 x 6	837626F	136157
12 x 6	837666F	136158
12 x 8	837668F	136159
12 x 10	837670F	036208
14 x 8	837698F	136162
14 x 10	837700F	136160
14 x 12	837702F	136161
16 x 8	837758F	136163
16 x 10	837760F	136164
16 x 12	837762F	136165
16 x 14	837764F	136166

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 80

Dimension inches	Universal Number	PVC Sch 80 Product Code
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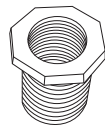
## Reducer Bushing Spig x Fpt (flushstyle)



3/8 x 1/4	838052	036679
1/2 x 1/4	838072	036681
1/2 x 3/8	838073	036682
3/4 x 1/4	838098	036683
3/4 x 1/2	838101	036684
1 x 3/8	838129	036685
1 x 1/2	838130	036686
1 x 3/4	838131	036687
1-1/4 x 1/2	838166	036688
1-1/4 x 3/4	838167	036689
1-1/4 x 1	838168	036690
1-1/2 x 1/2	838209	036691
1-1/2 x 3/4	838210	036692
1-1/2 x 1	838211	036693
1-1/2 x 1-1/4	838212	036694
2 x 1/2	838247	036695
2 x 3/4	838248	036696
2 x 1	838249	036697
2 x 1-1/4	838250	036698
2 x 1-1/2	838251	036699
2-1/2 x 1/2	838287	236002
2-1/2 x 3/4	838288	036700
2-1/2 x 1	838289	036701
2-1/2 x 1-1/4	838290	036702
2-1/2 x 1-1/2	838291	036703
2-1/2 x 2	838292	036704
3 x 3/4	838334	036705
3 x 1	838335	036706
3 x 1-1/4	838336	036707
3 x 1-1/2	838337	036708
3 x 2	838338	036709
3 x 2-1/2	838339	036710
4 x 2	838420	036711
4 x 2-1/2	838421	036712
4 x 3	838422	036713
6 x 2	838528	036714
6 x 3	838530	036715
6 x 4	838532	036716

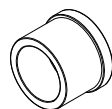
Dimension inches	Universal Number	PVC Sch 80 Product Code
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## Reducer Bushing Mpt x Fpt (flushstyle)



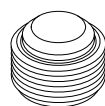
3/8 x 1/4	839052	036647
1/2 x 1/4	839072	036648
1/2 x 3/8	839073	036649
3/4 x 1/4	839098	036651
3/4 x 3/8	839099	036652
3/4 x 1/2	839101	036653
1 x 1/4	839128	036654
1 x 3/8	839129	036655
1 x 1/2	839130	036656
1 x 3/4	839131	036657
1-1/4 x 1/2	839166	036658
1-1/4 x 3/4	839167	036659
1-1/4 x 1	839168	036660
1-1/2 x 1/2	839209	036661
1-1/2 x 3/4	839210	036662
1-1/2 x 1	839211	036663
1-1/2 x 1-1/4	839212	036664
2 x 1/2	839247	036665
2 x 3/4	839248	036666
2 x 1	839249	036667
2 x 1-1/4	839250	036668
2 x 1-1/2	839251	036669
2-1/2 x 2	839292	036672
3 x 1-1/2	839337	036673
3 x 2	839338	036674
3 x 2-1/2	839339	036675
4 x 2	839420	036676
4 x 3	839422	036677

## Plug Spig



2	849020	036585
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## Plug Mpt

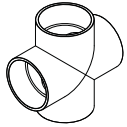


1/4	850002	036568
3/8	850003	036569
1/2	850005	036570
3/4	850007	036571
1	850010	036572
1-1/4	850012	036573
1-1/2	850015	036574
2	850020	036575
2-1/2	850025	036576
3	850030	036577
4	850040	036578
6	850060	036579

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 80

Dimension inches	Universal Number	PVC Sch 80 Product Code
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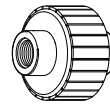
## Cross Soc x Soc x Soc x Soc



Dimension inches	Universal Number	PVC Sch 80 Product Code
1/2	820005	036116
3/4	820007	036117
1	820010	036118
1-1/4	820012	036119
1-1/2	820015	036120
2	820020	036121
2-1/2	820025	036122
3	820030	036123
4	820040	036124

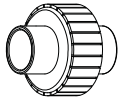
Dimension inches	Universal Number	PVC Sch 80 Product Code
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## Union Fpt x Fpt (Viton® O-ring Seal)



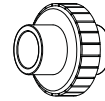
Dimension inches	Universal Number	PVC Sch 80 Product Code
1/4	858002	036844
3/8	858003	036845
1/2	858005	036846
3/4	858007	036847
1	858010	036848
1-1/4	858012	036849
1-1/2	858015	036850
2	858020	036851
3	858030	036852
4	858040	036853

## Union Soc x Soc (EPDM O-ring Seal)



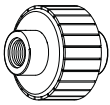
Dimension inches	Universal Number	PVC Sch 80 Product Code
1/4	897002	236004
3/8	897003	236005
1/2	897005	036956
3/4	897007	036964
1	897010	036980
1-1/4	897012	036981
1-1/2	897015	036982
2	897020	036983
3	897030	036984
4	897040	236006

## Union Soc x Fpt (Viton® O-ring Seal)



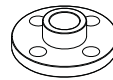
Dimension inches	Universal Number	PVC Sch 80 Product Code
1/2	859005	036410
3/4	859007	036411
1	859010	036412
1-1/4	859012	036413
1-1/2	859015	036414
2	859020	036415
3	859030	236010
4	859040	236011

## Union Fpt x Fpt (EPDM O-ring Seal)



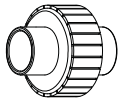
Dimension inches	Universal Number	PVC Sch 80 Product Code
1/4	898002	236007
3/8	898003	236008
1/2	898005	036985
3/4	898007	036986
1	898010	036987
1-1/4	898012	036988
1-1/2	898015	036989
2	898020	036990
3	898030	036993
4	898040	236009

## One Piece Flange Soc (solid style)



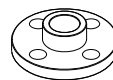
Dimension inches	Universal Number	PVC Sch 80 Product Code
1/2	851005	036223
3/4	851007	036224
1	851010	036225
1-1/4	851012	036226
1-1/2	851015	036227
2	851020	036228
2-1/2	851025	036229
3	851030	036230
4	851040	036231
5	851050	036232
6	851060	036233
8	851080	036234

## Union Soc x Soc (Viton® O-ring Seal)



Dimension inches	Universal Number	PVC Sch 80 Product Code
1/4	857002	036833
3/8	857003	036834
1/2	857005	036835
3/4	857007	036836
1	857010	036837
1-1/4	857012	036838
1-1/2	857015	036839
2	857020	036840
3	857030	036842
4	857040	036843

## Fabricated One Piece Flange Soc - 150 psi



Dimension inches	Universal Number	PVC Sch 80 Product Code
10	851100F	036235
12	851120F	036236
14	851140F	036237
16	851160F	036238

Note: Lower pressure rated large diameter one piece fabricated flanges are available.

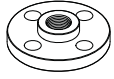
All Molded Flanges are rated at 150 psi at 73°F., non-shock. Standard 150 lb. bolting pattern.  
 CAUTION: When thermoplastic flanges are used with butterfly valves or other equipment, where a full face continuous support does not exist, a back-up ring or fiberglass reinforcement should be used to prevent cracking of the flange face.



# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 80

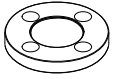
Dimension inches	Universal Number	PVC Sch 80 Product Code
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## One Piece Flange



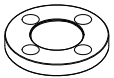
Fpt (solid style)	Universal Number	PVC Sch 80 Product Code
1/2	852005	036240
3/4	852007	036241
1	852010	036242
1-1/4	852012	036243
1-1/2	852015	036244
2	852020	036245
2-1/2	852025	036246
3	852030	036247
4	852040	036248
6	852060	036249

## Blind Flange



1/2	853005	036250
3/4	853007	036251
1	853010	036252
1-1/4	853012	036253
1-1/2	853015	036254
2	853020	036255
2-1/2	853025	036256
3	853030	036257
4	853040	036258
6	853060	036259
8	853080	036260

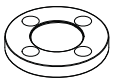
## Fabricated Blind Flange - 150 psi



10	853100F	036261
12	853120F	036262
14	853140F	036263
16	853160F	036264

Note: Lower pressure rated large diameter one piece fabricated flanges are available.

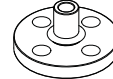
## Heavy Duty Vanstone Flange



Spig w Fibre-Loc Ring	Universal Number	PVC Sch 80 Product Code
3	856030	036381
4	856040	036382
6	856060	036383
8	856080	036384

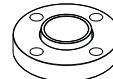
Dimension inches	Universal Number	PVC Sch 80 Product Code
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## Vanstone Flange



Spig w PVC Ring	Universal Number	PVC Sch 80 Product Code
1/2	856005	036374
3/4	856007	036375
1	856010	036376
1-1/4	856012	036377
1-1/2	856015	036378
2	856020	036379
2-1/2	856025	036380
3	-	036902
4	-	036905
6	-	036906
8	-	036907
10	-	036995
12	-	036996

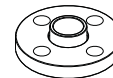
## Heavy Duty Vanstone Flange



Soc w Fibre-Loc Ring	Universal Number	PVC Sch 80 Product Code	
1-1/2	854015HD	036323	
2	854020HD	036324	
3	854030HD	036326	
4	854040HD	036416	
6	854060HD	036417	
8	854080HD	036418	
10	854100HD	036419	
12	854120HD	036429	
*	14	854140HD	036358
*	16	854160HD	036359

\* 14" & 16" complete with coated metal rings.

## Vanstone Flange



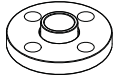
Soc w PVC Ring	Universal Number	PVC Sch 80 Product Code
1/2	854005	036344
3/4	854007	036345
1	854010	036346
1-1/4	854012	036347
1-1/2	854015	036348
2	854020	036349
2-1/2	854025	036350
3	854030	036351
4	854040	036352
5	854050	036353
6	854060	036354
8	854080	036355
10	854100	036356
12	854120	036357

All Molded Flanges are rated at 150 psi at 73°F., non-shock. Standard 150 lb. bolting pattern.  
 CAUTION: When thermoplastic flanges are used with butterfly valves or other equipment, where a full face continuous support does not exist, a back-up ring or fiberglass reinforcement should be used to prevent cracking of the flange face.

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 80

Dimension inches	Universal Number	PVC Sch 80 Product Code
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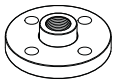
## Fabricated Vanstone Flange Soc w PVC Ring - 75 psi



Dimension inches	Universal Number	PVC Sch 80 Product Code
18	854180F	036947
* 20	854200F	036913
* 24	854240F	036914

\* 20" - 24" flanges are rated at 50 psi at 73°F.

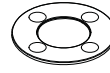
## Vanstone Flange Fpt



Dimension inches	Universal Number	PVC Sch 80 Product Code
1/2	855005	036385
3/4	855007	036386
1	855010	036387
1-1/4	855012	036388
1-1/2	855015	036389
2	855020	036390
2-1/2	855025	036391
3	855030	036392
4	855040	036393

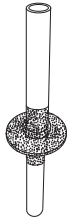
Dimension inches	Universal Number	PVC Sch 80 Product Code
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## 1/8" Flange Gasket Neoprene



Dimension inches	Universal Number	PVC Sch 80 Product Code
1/2	-	036296
3/4	-	036297
1	-	036298
1-1/4	-	036299
1-1/2	-	036300
2	-	036301
2-1/2	-	036302
3	-	036303
4	-	036304
5	-	036305
6	-	036306
8	-	036307
10	-	036308
12	-	036309
14	-	036310
16	-	036311
18	-	036312
20	-	036313
24	-	036314

## Fabricated No-Leak/Waterstop Flange Spig x Spig



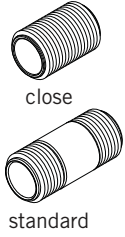
Dimension inches	Universal Number	PVC Sch 80 Product Code
1/2	-	036331
3/4	-	036332
1	-	036923
1-1/4	-	036333
1-1/2	-	036334
2	-	036335
2-1/2	-	036336
3	-	036337
4	-	036338
6	-	036339
8	-	036340
10	-	036341
12	-	036342
14	-	036915
16	-	036343
18	-	036874

All Molded Flanges are rated at 150 psi at 73°F., non-shock. Standard 150 lb. bolting pattern.  
 CAUTION: When thermoplastic flanges are used with butterfly valves or other equipment, where a full face continuous support does not exist, a back-up ring or fiberglass reinforcement should be used to prevent cracking of the flange face.

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 80

Dimension inches	Universal Number	PVC Sch 80 Product Code
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## Nipples



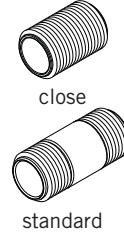
1/4" diameter		
7/8 close	880005	036434
1-1/2	880015	036445
2	880020	036456
2-1/2	880025	036457
3	880030	036458
3 1/2	880035	036459
4	880040	036460
4-1/2	880045	036461
5	880050	036462
6	880060	036463
8	880080	036464
10	880100	236012
12	880120	236013

3/8" diameter		
1 close	881005	036435
1-1/2	881015	036446
2	881020	036466
2-1/2	881025	036467
3	881030	036468
3-1/2	881035	036469
4	881040	036470
4-1/2	881045	036471
5	881050	036472
6	881060	036473
8	881080	036474

1/2" diameter		
1-1/8 close	882005	036436
1-1/2	882015	036447
2	882020	036475
2-1/2	882025	036476
3	882030	036477
3-1/2	882035	036478
4	882040	036479
4-1/2	882045	036480
5	882050	036481
5-1/2	882055	036482
6	882060	036483
8	882080	036484
10	882100	036485
12	882120	036486

Dimension inches	Universal Number	PVC Sch 80 Product Code
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## Nipples



3/4" diameter		
1-3/8 close	883005	036437
1-1/2	883015	036448
2	883020	036490
2-1/2	883025	036491
3	883030	036492
3-1/2	883035	036493
4	883040	036494
4-1/2	883045	036495
5	883050	036496
5-1/2	883055	036497
6	883060	036498
8	883080	036500
10	883100	036501
12	883120	036502

1" diameter		
1-1/2 close	884005	036438
2	884020	036449
2-1/2	884025	036504
3	884030	036505
3-1/2	884035	036506
4	884040	036507
4-1/2	884045	036508
5	884050	036509
5-1/2	884055	036510
6	884060	036511
8	884080	036512
10	884100	036514
12	884120	036515

1-1/4" diameter		
1-5/8 close	885005	036439
2	885020	036450
2-1/2	885025	036516
3	885030	036517
3-1/2	885035	036518
4	885040	036519
4-1/2	885045	036520
5	885050	036521
6	885060	036522
8	885080	036523
10	885100	036524
12	885120	036525

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 80

Dimension inches	Universal Number	PVC Sch 80 Product Code
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Dimension inches	Universal Number	PVC Sch 80 Product Code
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## Nipples



close



standard

1-1/2" diameter		
1-3/4 close	886015	036440
2	886020	036451
2-1/2	886025	036526
3	886030	036527
3-1/2	886035	036528
4	886040	036529
4-1/2	886045	036530
5	886050	036531
5-1/2	886055	036532
6	886060	036533
8	886080	036534
10	886100	036535
12	886120	036536

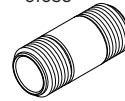
2" diameter		
2 close	887005	036441
2-1/2	887025	036452
3	887030	036539
3-1/2	887035	036540
4	887040	036541
4-1/2	887045	036542
5	887050	036543
5-1/2	887055	036544
6	887060	036545
8	887080	036546
10	887100	036547
12	887120	036548

2-1/2" diameter		
2-1/2 close	888005	036442
3	888030	036549
4	888040	036550
5	888050	036272
6	888060	036551
8	888080	036552
10	888100	036276
12	888120	036553

## Nipples



close



standard

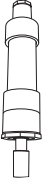
3" diameter		
2-5/8 close	889005	036443
3	889030	036554
4	889040	036555
5	889050	036556
6	889060	036557
8	889080	036558
10	889100	036559
12	889120	036560

4" diameter		
2-7/8 close	890005	036444
4	890040	036562
5	890050	036563
6	890060	036564
8	890080	036565
10	890100	036566
12	890120	036567

# PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 80

Dimension inches	Universal Number	PVC Sch 80 Product Code
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## Expansion Joint 6" Travel EPDM



1/2	826005X6E	136115
3/4	826007X6E	136117
1	826010X6E	136119
1-1/2	826015X6E	136121
2	826020X6E	136123
3	826030X6E	136125
4	826040X6E	136127

## Expansion Joint 12" Travel EPDM



1/2	826005X12E	136116
3/4	826007X12E	136118
1	826010X12E	136120
1-1/2	826015X12E	136122
2	826020X12E	136124
3	826030X12E	136126
4	826040X12E	136128

## Expansion Joint 6" Travel FPM



1/2	826005X6	136101
3/4	826007X6	136103
1	826010X6	136105
1-1/2	826015X6	136107
2	826020X6	136109
3	826030X6	136111
4	826040X6	136113

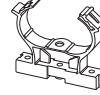
## Expansion Joint 12" Travel FPM



1/2	826005X12	136102
3/4	826009X12	136104
1	826010X12	136106
1-1/2	826015X12	136108
2	826020X12	136110
3	826030X12	136112
4	826040X12	136114

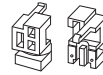
Dimension inches	Universal Number	PVC Sch 80 Product Code
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## Pipe Clamps



1/2	CCS10	035180
3/4	CCS15	035181
1	CCS20	035182
1-1/4	CCS25	035183
1-1/2	CCS30	035184
2	CCS35	035185

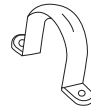
## PVC Strut Base



- 035186

Note: Strut Bases are sold individually, two Strut Bases are required to create one Strut Base Unit. Example: If you require 10 complete Strut Base Units you must order 20 strut bases.

## Pipe Straps 2 holes



1/2	PS05	036000
3/4	PS07	036001
1	PS10	036002
1-1/4	PS12	036003
1-1/2	PS15	036004
2	PS20	036005

## Pipe Straps PVC Coated Steel 2 holes

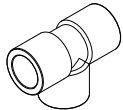


2-1/2	PSC25	036006
3	PSC30	036007
3-1/2	PSC35	036008
4	PSC40	036009
5	PSC50	036010
6	PSC60	036011

# PRODUCT SELECTION CHART - CORZAN CPVC SCH. 80

Dimension inches	Universal Number	PVC Sch 80 Product Code
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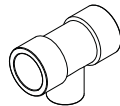
## Tee Soc x Soc x Soc



1/4	9801002	059479
3/8	9801003	059480
1/2	9801005	059481
3/4	9801007	059482
1	9801010	059483
1-1/4	9801012	059484
1-1/2	9801015	059485
2	9801020	059486
2-1/2	9801025	059487
3	9801030	059488
4	9801040	059489
6	9801060	059490
8	9801080	059491
10	9801100	059062
12	9801120	059084

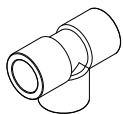
Dimension inches	Universal Number	PVC Sch 80 Product Code
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## Reducing Tee Soc x Soc x Soc



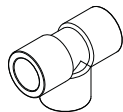
3/4 x 3/4 x 1/2	9801101	059492
1 x 1 x 1/2	9801130	059493
1 x 1 x 3/4	9801131	059494
1-1/4 x 1 x 1	9801158	059601
1-1/4 x 1	9801168	059602
1-1/4 x 1 x 1-1/4	9801159	059495
1-1/2 x 1-1/4 x 1	9801202	059603
1-1/2 x 1-1/2 x 3/4	9801210	059496
1-1/2 x 1-1/2 x 1	9801211	059497
2 x 2 x 1/2	9801247	059498
2 x 2 x 3/4	9801248	059499
2 x 2 x 1	9801249	059500
2 x 2 x 1-1/2	9801251	059501
2-1/2 x 1	9801289	059604
2-1/2 x 1-1/4	9801290	059605
2-1/2 x 2-1/2 x 1-1/2	9801291	059606
2-1/2 x 2	9801292	059607
3 x 3 x 2	9801338	059502
3 x 2-1/2	9801339	059608
4 x 4 x 2	9801420	059504
4 x 4 x 3	9801422	059505
6 x 6 x 3	9801530	059609
6 x 6 x 4	9801532	059506
8 x 8 x 6	9801585	059567
10 x 6	9801626	059610

## Fabricated Tee Soc x Soc x Soc - 130 psi



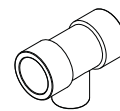
14	9801140F	059012
16	9801160F	059030

## Tee Soc x Soc x Fpt



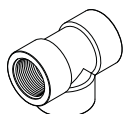
1/2	9802005	059942
3/4	9802007	059943
1	9802010	059518
2	9802020	059089

## Fabricated Reducing Tee Soc x Soc x Soc



12 x 8	9801668	059611
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## Tee Fpt x Fpt x Fpt



1/4	9805002	059507
3/8	9805003	059508
1/2	9805005	059509
3/4	9805007	059510
1	9805010	059511
1-1/4	9805012	059512
1-1/2	9805015	059513
2	9805020	059514
2-1/2	9805025	059515
3	9805030	059516
4	9805040	059517

## 90° Elbow Soc x Soc

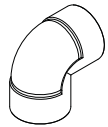


1/4	9806002	059192
3/8	9806003	059193
1/2	9806005	059194
3/4	9806007	059195
1	9806010	059196
1-1/4	9806012	059197
1-1/2	9806015	059198
2	9806020	059199
2-1/2	9806025	059200
3	9806030	059201
4	9806040	059202
6	9806060	059203
8	9806080	059204
10	9806100	059085
12	9806120	059086

# PRODUCT SELECTION CHART – CORZAN CPVC SCH. 80

Dimension inches	Universal Number	CPVC Sch 80 Product Code
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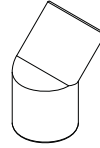
## Fabricated 90° Elbow Soc x Soc – 130 psi



14	9806140F	059047
16	9806160F	059050

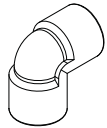
Dimension inches	Universal Number	CPVC Sch 80 Product Code
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## Fabricated 45° Elbow Soc x Soc – 130 psi



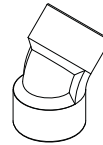
14	9817140F	059051
16	9817160F	059055

## 90° Elbow Fpt x Fpt



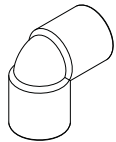
1/4	9808002	059206
3/8	9808003	059207
1/2	9808005	059208
3/4	9808007	059209
1	9808010	059210
1-1/4	9808012	059211
1-1/2	9808015	059212
2	9808020	059213
2-1/2	9808025	059214
3	9808030	059215
4	9808040	059216

## 45° Elbow Fpt x Fpt



1/4	9819002	059176
3/8	9819003	059177
1/2	9819005	059178
3/4	9819007	059179
1	9819010	059180
1-1/4	9819012	059181
1-1/2	9819015	059182
2	9819020	059183
2-1/2	9819025	059184
4	9819040	059186

## 90° Elbow Soc x Fpt



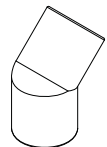
1/4	9807002	059612
1/2	9807005	059187
3/4	9807007	059941
1	9807010	059188
1-1/4	9807012	059189
1-1/2	9807015	059190
2	9807020	059191

## 30° Elbow Soc x Soc



6	9815060	059022
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## 45° Elbow Soc x Soc



1/4	9817002	059162
3/8	9817003	059163
1/2	9817005	059164
3/4	9817007	059165
1	9817010	059166
1-1/4	9817012	059167
1-1/2	9817015	059168
2	9817020	059169
2-1/2	9817025	059170
3	9817030	059171
4	9817040	059172
6	9817060	059173
8	9817080	059174
10	9817100	059087
12	9817120	059088

## 22-1/2° Elbow Soc x Soc



2	9816020	059614
3	9816030	059615
4	9816040	059616

## 11-1/4° Elbow Soc x Soc

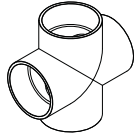


2	9811020	059617
3	9811030	059618
4	9811040	059619

# PRODUCT SELECTION CHART - CORZAN CPVC SCH. 80

Dimension inches	Universal Number	CPVC Sch 80 Product Code
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## Cross Soc x Soc x Soc x Soc



3/4	9820007	059155
1	9820010	059156
1-1/4	9820012	059157
1-1/2	9820015	059158
2	9820020	059159
2-1/2	9820025	059018
3	9820030	059160
4	9820040	059161

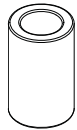
Dimension inches	Universal Number	CPVC Sch 80 Product Code
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## Coupling Fpt x Fpt



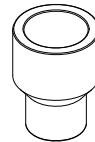
1/4	9830002	059143
3/8	9830003	059144
1/2	9830005	059145
3/4	9830007	059146
1	9830010	059147
1-1/4	9830012	059148
1-1/2	9830015	059149
2	9830020	059150
2-1/2	9830025	059151
3	9830030	059152
4	9830040	059153

## Coupling Soc x Soc



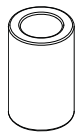
1/4	9829002	059130
3/8	9829003	059131
1/2	9829005	059132
3/4	9829007	059133
1	9829010	059134
1-1/4	9829012	059135
1-1/2	9829015	059136
2	9829020	059137
2-1/2	9829025	059138
3	9829030	059139
4	9829040	059140
6	9829060	059141
8	9829080	059142

## Reducer Coupling Soc x Soc



3/4 x 1/2	9829101	059460
1 x 1/2	9829130	059461
1 x 3/4	9829131	059462
1-1/4 x 1/2	9829166	059621
1-1/4 x 3/4	9829167	059622
1-1/4 x 1	9829168	059463
1-1/2 x 1/2	9829209	059623
1-1/2 x 3/4	9829210	059464
1-1/2 x 1	9829211	059465
1-1/2 x 1-1/4	9829212	059466
2 x 3/4	9829248	059624
2 x 1	9829249	059467
2 x 1-1/4	9829250	059625
2 x 1-1/2	9829251	059458
2-1/2 x 2	9829292	059626
3 x 2	9829338	059470
4 x 2	9829420	059459
4 x 3	9829422	059472
6 x 4	9829532	059471
8 x 6	9829585	059473

## Fabricated Coupling Soc x Soc



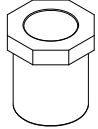
10	9829100F	059033
12	9829120F	059043
14	9829140F	059060
16	9829160F	059090



# PRODUCT SELECTION CHART – CORZAN CPVC SCH. 80

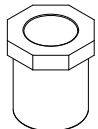
Dimension inches	Universal Number	CPVC Sch 80 Product Code
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## Reducer Bushing Spig x Soc



3/8 x 1/4	9837052	059627
1/2 x 1/4	9837072	059373
1/2 x 3/8	9837073	059374
3/4 x 1/2	9837101	059375
1 x 1/2	9837130	059376
1 x 3/4	9837131	059377
1-1/4 x 1/2	9837166	059378
1-1/4 x 3/4	9837167	059379
1-1/4 x 1	9837168	059380
1-1/2 x 1/2	9837209	059381
1-1/2 x 3/4	9837210	059382
1-1/2 x 1	9837211	059383
1-1/2 x 1-1/4	9837212	059384
2 x 1/2	9837247	059385
2 x 3/4	9837248	059386
2 x 1	9837249	059387
2 x 1-1/4	9837250	059388
2 x 1-1/2	9837251	059389
2-1/2 x 1-1/4	9837290	059628
2-1/2 x 1-1/2	9837291	059629
2-1/2 x 2	9837292	059392
3 x 1	9837335	059568
3 x 1-1/4	9837336	059630
3 x 1-1/2	9837337	059393
3 x 2	9837338	059394
3 x 2-1/2	9837339	059395
4 x 2	9837420	059396
4 x 3	9837422	059397
6 x 2	9837528	059398
6 x 3	9837530	059399
6 x 4	9837532	059400
8 x 6	9837585	059401
10 x 8	9837628	059036

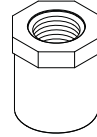
## Fabricated Reducer Bushing Spig x Soc – 130 psi



10 x 6	9837626F	059631
12 x 8	9837668F	059632
12 x 10	9837670F	059633

Dimension inches	Universal Number	CPVC Sch 80 Product Code
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## Reducer Bushing Spig x Fpt

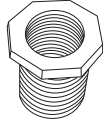


3/8 x 1/4	9838052	059634
1/2 x 1/8	9838071	059635
1/2 x 1/4	9838072	059428
1/2 x 3/8	9838073	059429
3/4 x 1/4	9838098	059430
3/4 x 1/2	9838101	059431
1 x 3/8	9838129	059636
1 x 1/2	9838130	059432
1 x 3/4	9838131	059433
1-1/4 x 1/2	9838166	059434
1-1/4 x 3/4	9838167	059435
1-1/4 x 1	9838168	059436
1-1/2 x 1/2	9838209	059437
1-1/2 x 3/4	9838210	059438
1-1/2 x 1	9838211	059439
1-1/2 x 1-1/4	9838212	059440
2 x 1/2	9838247	059441
2 x 3/4	9838248	059442
2 x 1	9838249	059443
2 x 1-1/4	9838250	059444
2 x 1-1/2	9838251	059445
2-1/2 x 1/2	9838287	059637
2-1/2 x 3/4	9838288	059446
2-1/2 x 1	9838289	059447
2-1/2 x 1-1/4	9838290	059448
2-1/2 x 1-1/2	9838291	059449
2-1/2 x 2	9838292	059450
3 x 3/4	9838334	059638
3 x 1	9838335	059547
3 x 1-1/4	9838336	059639
3 x 1-1/2	9838337	059451
3 x 2	9838338	059452
3 x 2-1/2	9838339	059453
4 x 2	9838420	059454
4 x 2-1/2	9838421	059640
4 x 3	9838422	059455
6 x 3	9838530	059641
6 x 4	9838532	059456

# PRODUCT SELECTION CHART - CORZAN CPVC SCH. 80

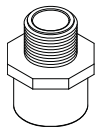
Dimension inches	Universal Number	CPVC Sch 80 Product Code
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## Reducer Bushing Mpt x Fpt



3/8 x 1/4	9839052	059402
1/2 x 1/4	9839072	059403
1/2 x 3/8	9839073	059404
3/4 x 1/4	9839098	059405
3/4 x 3/8	9839099	059406
3/4 x 1/2	9839101	059407
1 x 3/8	9839129	059642
1 x 1/4	9839128	059643
1 x 1/2	9839130	059408
1 x 3/4	9839131	059409
1-1/4 x 1/2	9839166	059410
1-1/4 x 3/4	9839167	059411
1-1/4 x 1	9839168	059412
1-1/2 x 1/2	9839209	059413
1-1/2 x 3/4	9839210	059414
1-1/2 x 1	9839211	059415
1-1/2 x 1-1/4	9839212	059416
2 x 1/2	9839247	059417
2 x 3/4	9839248	059418
2 x 1	9839249	059419
2 x 1-1/4	9839250	059420
2 x 1-1/2	9839251	059421
2-1/2 x 2	9839292	059422
3 x 1-1/2	9839337	059423
3 x 2	9839338	059424
3 x 2-1/2	9839339	059425
4 x 2	9839420	059426
4 x 3	9839422	059427

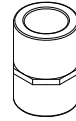
## Male Adapter Soc x Mpt



1/2	9836005	059286
3/4	9836007	059287
1	9836010	059288
1-1/4	9836012	059289
1-1/2	9836015	059290
2	9836020	059291
2-1/2	9836025	059292
3	9836030	059293
4	9836040	059294

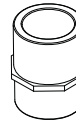
Dimension inches	Universal Number	CPVC Sch 80 Product Code
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## Female Adapter Soc x Fpt



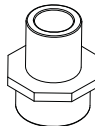
1/4	9835002	059217
3/8	9835003	059218
1/2	9835005	059219
3/4	9835007	059220
1	9835010	059221
1-1/4	9835012	059222
1-1/2	9835015	059223
2	9835020	059224
2-1/2	9835025	059225
3	9835030	059226
4	9835040	059227

## Female Adapter Soc x Fpt (SS reinforced)



1/2	9835005SR	059951
3/4	9835007SR	059952
1	9835010SR	059953
1-1/4	9835012SR	059954
1-1/2	9835015SR	059955
2	9835020SR	059956
2-1/2	9835025SR	059646
3	9835030SR	059957
4	9835040SR	059958

## Female Adapter Spig x Fpt (SS reinforced)

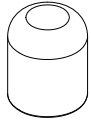


1/2	9878005SR	059945
3/4	9878007SR	059946
1	9878010SR	059947
1-1/4	9878012SR	059948
1-1/2	9878015SR	059949
2	9878020SR	059950
3	9878030SR	059647
4	9878040SR	059648

# PRODUCT SELECTION CHART - CORZAN CPVC SCH. 80

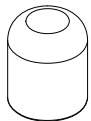
Dimension inches	Universal Number	CPVC Sch 80 Product Code
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## Cap Soc



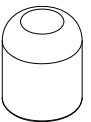
1/4	9847002	059107
3/8	9847003	059108
1/2	9847005	059109
3/4	9847007	059110
1	9847010	059111
1-1/4	9847012	059112
1-1/2	9847015	059113
2	9847020	059114
2-1/2	9847025	059115
3	9847030	059116
4	9847040	059117
6	9847060	059118
8	9847080	059029

## Fabricated Cap Soc - 130 psi



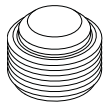
10	9847100F	059070
12	9847120F	059071
14	9847140F	059080
16	9847160F	059081

## Cap Fpt



1/4	9848002	059119
3/8	9848003	059120
1/2	9848005	059121
3/4	9848007	059122
1	9848010	059123
1-1/4	9848012	059124
1-1/2	9848015	059125
2	9848020	059126
2-1/2	9848025	059127
3	9848030	059128
4	9848040	059129

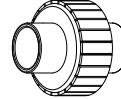
## Plug Mpt



1/4	9850002	059361
3/8	9850003	059362
1/2	9850005	059363
3/4	9850007	059364
1	9850010	059365
1-1/4	9850012	059366
1-1/2	9850015	059367
2	9850020	059368
2-1/2	9850025	059369
3	9850030	059370
4	9850040	059371

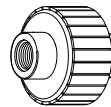
Dimension inches	Universal Number	CPVC Sch 80 Product Code
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## Union Soc x Soc (EPDM O-ring Seal)



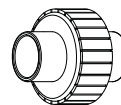
1/2	9897005	059571
3/4	9897007	059572
1	9897010	059573
1-1/4	9897012	059574
1-1/2	9897015	059575
2	9897020	059576
3	9897030	059577
4	9897040	059649

## Union Fpt x Fpt (EPDM O-ring Seal)



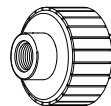
1/2	9898005	059584
3/4	9898007	059578
1	9898010	059579
1-1/4	9898012	059580
1-1/2	9898015	059581
2	9898020	059582
3	9898030	059583
4	9898040	059650

## Union Soc x Soc (Viton® O-ring Seal)



1/4	9857002	059519
1/2	9857005	059520
3/4	9857007	059521
1	9857010	059522
1-1/4	9857012	059523
1-1/2	9857015	059524
2	9857020	059525
3	9857030	059526
4	9857040	059550

## Union Fpt x Fpt (Viton® O-ring Seal)

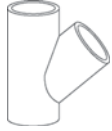


1/4	9858002	059527
1/2	9858005	059529
3/4	9858007	059530
1	9858010	059531
1-1/4	9858012	059532
1-1/2	9858015	059533
2	9858020	059534
3	9858030	059535
4	9858040	059651

# PRODUCT SELECTION CHART – CORZAN CPVC SCH. 80

Dimension inches	Universal Number	CPVC Sch 80 Product Code
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## 45° Wye Soc x Soc x Soc

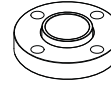


1/2	9875005	059652
3/4	9875007	059653
1	9875010	059654
1-1/4	9875012	059655
1-1/2	9875015	059553
2	9875020	059536
3	9875030	059537
4	9875040	059538
6	9875060	059539
6 x 6 x 4	9875532	059541

1/2" - 2" Wye – 235 psi maximum internal pressure rating @ 73°F  
 3" - 6 x 6 x 4" Wye – 150 psi maximum internal pressure rating @ 73°F

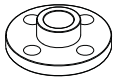
Dimension inches	Universal Number	CPVC Sch 80 Product Code
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## Heavy Duty Vanstone Flange Soc



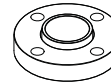
1/2	9854005	059262
3/4	9854007	059263
1	9854010	059264
1-1/4	9854012	059265
1-1/2	9854015	059266
2	9854020	059267
2-1/2	9854025	059268
3	9854030	059269
4	9854040	059270
6	9854060	059271
8	9854080	059272
10	9854100	059273
12	9854120	059569
16	9854160	059360

## One Piece Flange Soc



1/2	9851005	059228
3/4	9851007	059229
1	9851010	059230
1-1/4	9851012	059231
1-1/2	9851015	059232
2	9851020	059233
2-1/2	9851025	059234
3	9851030	059235
4	9851040	059236
6	9851060	059238
8	9851080	059239

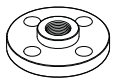
## Fabricated Heavy Duty Vanstone Flange Soc



14	9854140F	059295
16	9854160F	059315

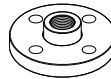
Note: Lower pressure rated fabricated Vanstone flanges are available. Please consult with the factory for special prices.

## One Piece Flange Fpt



1/2	9852005	059240
3/4	9852007	059241
1	9852010	059242
1-1/4	9852012	059243
1-1/2	9852015	059244
2	9852020	059245
2-1/2	9852025	059246
3	9852030	059247
4	9852040	059248

## Vanstone Flange Fpt



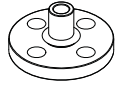
1/2	9855005	059656
1	9855010	059658
1-1/4	9855012	059284
1-1/2	9855015	059659
2	9855020	059660
2-1/2	9855025	059661
3	9855030	059285
4	9855040	059662

All Molded Flanges are rated at 150 psi at 73°F., non-shock. Standard 150 lb. bolting pattern.  
 CAUTION: When thermoplastic flanges are used with butterfly valves or other equipment, where a full face continuous support does not exist, a back-up ring or fiberglass reinforcement should be used to prevent cracking of the flange face.

# PRODUCT SELECTION CHART - CORZAN CPVC SCH. 80

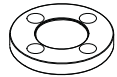
Dimension inches	Universal Number	CPVC Sch 80 Product Code
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## Vanstone Flange Spig



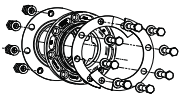
1/2	9856005	059274
3/4	9856007	059275
1	9856010	059276
1-1/4	9856012	059277
1-1/2	9856015	059278
2	9856020	059279
2-1/2	9856025	059280
3	9856030	059281
4	9856040	059282
6	9856060	059283
8	9856080	059570
10	9856100	059663
12	9856120	059664

## Blind Flange



1/2	9853005	059250
3/4	9853007	059251
1	9853010	059252
1-1/4	9853012	059253
1-1/2	9853015	059254
2	9853020	059255
2-1/2	9853025	059256
3	9853030	059257
4	9853040	059258
6	9853060	059259
8	9853080	059260
10	9853100	059665
12	9853120	059666

## Full Pressure Flange Kit



2-1/2	059469
3	059477
4	059358
6	059359

Dimension inches	Universal Number	CPVC Sch 80 Product Code
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## Expansion Joint 6" Travel EPDM



1/2	9826005X6E	059973
3/4	9826007X6E	059975
1	9826010X6E	059977
1-1/2	9826015X6E	059979
2	9826020X6E	059981
3	9826030X6E	059983
4	9826040X6E	059985

## Expansion Joint 12" Travel EPDM



1/2	9826005X12E	059974
3/4	9826007X12E	059976
1	9826010X12E	059978
1-1/2	9826015X12E	059980
2	9826020X12E	059982
3	9826030X12E	059984
4	9826040X12E	059986

## Expansion Joint 6" Travel FPM



1/2	9826005X6	059959
3/4	9826007X6	059961
1	9826010X6	059963
1-1/2	9826015X6	059965
2	9826020X6	059967
3	9826030X6	059969
4	9826040X6	059971

## Expansion Joint 12" Travel FPM



1/2	9826005X12	059960
3/4	9826009X12	059962
1	9826010X12	059964
1-1/2	9826015X12	059966
2	9826020X12	059968
3	9826030X12	059970
4	9826040X12	059972

All Molded Flanges are rated at 150 psi at 73°F., non-shock. Standard 150 lb. bolting pattern.

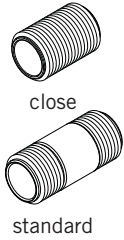
CAUTION: When thermoplastic flanges are used with butterfly valves or other equipment, where a full face continuous support does not exist, a back-up ring or fiberglass reinforcement should be used to prevent cracking of the flange face.

# PRODUCT SELECTION CHART – CORZAN CPVC SCH. 80

Dimension inches	Universal Number	CPVC Sch 80 Product Code
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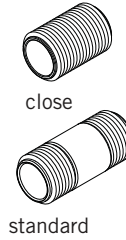
Dimension inches	Universal Number	CPVC Sch 80 Product Code
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## Nipples



1/4" diameter		
7/8 close	9880005	059296
1-1/2	9880015	059306
2	9880020	059316
3	9880030	059317
4	9880040	059318
5	9880050	059319
6	9880060	059320

## Nipples



1-1/4" diameter		
1-5/8 close	9885005	059300
2	9885020	059311
3	9885030	059338
4	9885040	059339
5	9885050	059340
6	9885060	059341

3/8" diameter		
1 close	9881005	059551
1-1/2	9881015	059307
2	9881020	059552
3	9881030	059939
4	9881040	059554

1-1/2" diameter		
1-3/4 close	9886005	059301
2	9886020	059312
3	9886030	059342
4	9886040	059343
5	9886050	059344
6	9886060	059345

1/2" diameter		
1-1/8 close	9882005	059297
1-1/2	9882015	059308
2	9882020	059322
3	9882030	059321
4	9882040	059324
5	9882050	059325
6	9882060	059326

2" diameter		
2 close	9887005	059302
2-1/2	9887025	059313
3	9887030	059346
4	9887040	059347
5	9887050	059348
6	9887060	059349

3/4" diameter		
1-3/8 close	9883005	059298
1-1/2	9883015	059309
2	9883020	059327
3	9883030	059328
4	9883040	059329
5	9883050	059331
6	9883060	059332

2-1/2" diameter		
2-1/2 close	9888005	059303
6	9888060	059352

3" diameter		
2-5/8 close	9889005	059304
3	9889030	059353
4	9889040	059354
5	9889050	059355
6	9889060	059356


1" diameter		
1-1/2 close	9884005	059299
2	9884020	059310
3	9884030	059333
4	9884040	059334
5	9884050	059335
6	9884060	059336

4" diameter		
2-7/8 close	9890005	059305
4	9890040	059314
5	9890050	059039
6	9890060	059357



# IPEX Industrial CADonDemand Center

## REGISTER TO GAIN ACCESS TO:

- 
- Complete dimensions of Schedule 40 and Schedule 80, Xirtec PVC and Corzan CPVC fittings
  - 2D & 3D CAD drawing formats available
  - 2D & 3D Valve CAD drawings available soon
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# ENPURE HIGH PURITY

4" - 16" (100mm - 300mm)

## enpure™

Enpure® proves itself as the superior high purity system manufacturing industries and research facilities are increasingly requiring high purity water systems that will meet the stringent requirements of their operations. Whether the application is for ultra pure water or for transporting chemically pure agents of foodstuffs, water purification technologies such as distillation, de-ionization, reverse osmosis and filtration eliminate a variety of impurities such as bacteria, particulates and both organic and inorganic contaminants.

The purity of a system depends on the leach ability of the material and joining method used to assemble the system.

Traditional materials used for handling high purity water have been metal and glass piping. The issue is that metals can exhibit problems with trace metal contamination; and elements such as sodium, boron, silica, lead and arsenic can be leached out of glass piping.

Over the past twenty years, advances in thermoplastic technology have enabled the effective use of plastics for high-purity water distribution systems, even in aggressive ultra high purity applications.

### APPLICATIONS

- Food processing
- Laboratories
- Hospitals
- Universities
- Research facilities
- Biotechnology
- Chemical manufacturing
- Photographic chemical processing
- Effluent treatment plants
- Water treatment plants
- Pharmaceutical manufacturing

### STANDARDS



FDA Code of Federal Regulations  
CFR Title 21-177.1520 2002

### DID YOU KNOW?

Enpure is manufactured from special high purity natural polypropylene materials. No regrind material or pigment is used in the production of pipe or fittings. Using virgin un-pigmented material ensures purity. To avoid contamination during manufacturing, the pipe is capped and boxed immediately after production. Enpure is a low-cost solution with a high resistance to chemicals, corrosion, and abrasion. It also has improved flow characteristics compared to traditional purity systems.





## ADVANTAGES

- 1 Virgin Material**

Enpure is manufactured from special high purity virgin polypropylene materials. No regrind material is used in the manufacturing process, thereby avoiding contamination by colorants or other materials and potential loss of physical properties due to the incorporation of heat stressed materials.
- 2 Abrasion Resistance**

The inherent abrasion resistance of natural PP allows substantial increases in life expectancy compared to other materials. In many applications, natural polypropylene outperforms other materials such as metals.
- 3 Improved Flow**

IPEX piping is smooth and has a substantially lower roughness factor than metal and other materials, and since thermoplastics do not rust, pit, scale or corrode, the interior walls remain smooth in virtually any service.
- 4 Biological Resistance**

Enpure natural PP piping is resistant to fungi and bacterial growth. The smoothness of the interior walls inhibits bacterial growth by eliminating sites where bacteria can adhere.
- 5 Chemical Resistance**

Enpure natural PP offers a complete high purity system including pipe, fittings and valves with outstanding resistance to most organic and inorganic chemicals in common use. It is potentially vulnerable to strong oxidizing acids, certain organic solvents and chlorinated hydrocarbons.
- 6 Corrosion Resistance**

Our thermoplastic materials are immune to damage from naturally corrosive soil conditions as well as electrochemical or galvanic corrosion. These non-corroding properties extend service life and lower maintenance costs even in below-grade applications
- 7 Extended Life**

Once properly selected for the application and correctly installed, Enpure products provide years of maintenance free service.
- 8 Lower Costs**

IPEX Enpure natural PP has lower material and installation costs than other comparable materials such as stainless steel or PVDF.
- 9 Service Temperature**

IPEX Enpure line of pipe, fittings and valves are designed to meet the highest purity standards. It is because of this that there are no additives in the virgin polypropylene material. Additives such as antioxidants and UV stabilizers help thermoplastic materials with oxidation resistance. Since Enpure does not contain these additives, it is pressure rated at 73°F (23°C) and will experience lower pressure capabilities and a shortened service life if operated at elevated temperatures.
- 10 Standards and Approvals**

IPEX manufactures the widest range of thermoplastic piping systems available. All products are produced to the strictest internal quality control specifications and meet or exceed applicable regulatory standards.

## VALVE SELECTION

As is the case with other thermoplastic components in a processing system, a valve must be selected based on the characteristics of the fluid medium, the system's operating parameters, and its intended function for a particular application. Certain valve types are more suitable than others for on/off service, throttling or modulating, automation, back flow prevention, etc. The following table summarizes the valves offered as part of the Enpure system.

Some other considerations that may be important when selecting a valve include: physical space requirements or constraints, connection style, manual or remote operation, as well as position indication or feedback.

## AUTOMATED VALVES

IPEX can provide quarter turn pneumatic or electric actuators and mounting assemblies for Enpure ball valves. Pneumatic actuator bonnets are also available for Enpure diaphragm valves. A wide selection of accessories such as pilot solenoid valves, position indicators, and microswitches, allow various control and feedback options. Please refer to the Thermoplastic Valves and Quarter Turn Automation literature or contact IPEX for further details regarding availability.

## ENPURE NATURAL PP VALVES

Valve Type	Sizes	Materials	Connections/Style	Pressure Rating (psi) at 73°F
VKD Series Ball Valves	1/2 - 2	Natural PP	Socket, Flange	150
VM Series Diaphragm Valves	1/2 - 2	Natural PP	Socket, Flange	150
SR Series Ball Check Valves	1/2 - 2	Natural PP	Socket, Flange	150

## SHORT FORM SPECIFICATIONS

### SCOPE

All high-purity water piping as shown on drawings shall be socket-fused, virgin natural polypropylene (containing no regrind material) as manufactured by IPEX. The complete system of piping, valves, fittings, faucets, pipe supports and fusion equipment shall be supplied and warranted by a single manufacturer.

### DIMENSIONS

Physical dimensions of Enpure PP pipe and fittings shall meet or exceed Schedule 40 and Schedule 80 requirements.

### PIPING

Piping shall be manufactured in 10' or 20' (3 m or 6.1 m) lengths to Schedule 40 and Schedule 80 dimensions from virgin, unpigmented, Type 2 high-impact copolymer

polypropylene conforming to ASTM D 4101, using no antioxidants or plasticizers.

Piping shall be capped at each end and boxed for protection and cleanliness at the point of manufacturing.



### FITTINGS

Fittings shall be manufactured from virgin, unpigmented, Type 2 high-impact copolymer polypropylene conforming to ASTM D 4101, using no antioxidants or plasticizers. Fittings shall be designed for socket fusion utilizing IPEX socket fusion tools and shall have a working design pressure of 150 psi at 73°F (1,000 kPa @ 23°C). All fittings shall be packaged in polybags at the point of manufacturing to preserve fitting cleanliness.



### FAUCETS

All metal faucets shall be polyster powered lacquer coated and have non-pigmented polypropylene wetted parts. Faucets shall be recirculating- style to ensure the elimination of static water pockets and shall be rated at 150 psi @ 73°F (1,000 kPa @ 23°C). All faucets shall be fully compatible with all other natural polypropylene piping components in terms of dimensions, quality and purity.

### VALVES

All valves shall be manufactured from virgin, unpigmented type 1 Homopolymer polypropylene conforming to ASTM D 4101, using no antioxidants or plasticizers that could compromise water quality. Valves shall be designed for socket fusion utilizing IPEX socket fusion tools and shall have a working design pressure of 150 psi @ 73°F (1,000 kPa @ 23°C).



- All ball valves shall be double-blocking type with o-ring cushions under the PTFE seats, in-line micro adjustment capability and incorporate a spanner wrench in the handle.
- All diaphragm valves shall be weir-style featuring smooth (non-drilled) GRF bonnets with integrated fasteners (for cleanliness) and rising position indicator.
- All valves with EPDM diaphragms shall feature concentric ridges on valve body and smooth diaphragms.
- All valves with PTFE diaphragm shall feature machined (smooth) bodies and rigid PTFE diaphragms for positive seal and longer cycle life.
- All ball check valves shall be single union design with micro adjustable locking seat carrier.

### SUPPORTS

All piping supports shall incorporate IPEX Cobra clips manufactured from U.V. stabilized polypropylene and designed to allow free axial pipe movement during expansion and contraction of a pipe system. Support spacings shall be to the manufacturer's recommendations for the design temperature of the system.

### INSTALLATION

Installation shall be in accordance with the contract drawings, the manufacturer's recommendations and the local building codes. The entire system shall be installed stress-free and in proper alignment, with due allowance for expansion and contraction.

### TESTING

The water-testing requirements on any complete piping system vary dramatically depending on the operating pressure, temperature, installation conditions, jointing method and the proposed service medium. If the testing is not determined by the engineer or governed by regulatory code, the manufacturer should be contacted.

**Air or compressed gas shall never be used for pressure testing rigid thermoplastic piping systems.**


## JOINING METHODS


Joining methods should also be considered when reviewing sources of potential contamination. Not all joining methods are equal. Some joining methods can introduce contaminants into the system that are not introduced by the pipe material itself.


Below is a breakdown of the most common joining methods and their potential affects on purity. To ensure a contamination-free system, Enpure utilizes a socket fusion joining method.


Purity Level	Joining Methods	Description
●	Threaded Metal Joints	Threaded metal components may cause leaching of contained metals, local stagnation of fluid flow and may produce potential sites for bacterial growth when used with high purity water.
● ●	Soldered Metal Joints	Oxidation at welded, braised or soldered metal joints can cause contamination when exposed to the high purity water.
● ● ●	Solvent Welded Joints	Solvent welded plastic joints, unless carefully made and cured, can contribute contamination to high purity water.
● ● ● ●	Socket Fusion	Socket fusion is a simple process of melting and fusing components together resulting in a clean homogeneous joint. As no compounds are used in the process, sources of material contamination are eliminated. For these types of applications, socket fusion is the joining method of choice.

## PRODUCT SELECTION CHART

	Dimension inches	Significant Number	Product Code
	<b>Schedule 40 Pipe 10' Lengths</b>		
	1/2	U1002	546000
	3/4	U1003	546001
	1	U1004	546002
	1-1/4	U1005	546003
	1-1/2	U1006	546004
	2	U1007	546005
	3	U1008	546006
	4	U1009	546007

	Dimension inches	Significant Number	Product Code
	<b>Schedule 80 Pipe 10' Lengths</b>		
	1/2	U1102	546008
	3/4	U1103	546009
	1	U1104	546010
	1-1/4	U1105	546011
	1-1/2	U1106	546012
	2	U1107	546013
	3	U1108	546014
	4	U1109	546015

	Dimension inches	Significant Number	Product Code
	<b>Schedule 40 Pipe 20' Lengths</b>		
	1/2	U1002-20	546020
	3/4	U1003-20	546021
	1	U1004-20	546022
	1-1/4	U1005-20	546023
	1-1/2	U1006-20	546024
	2	U1007-20	546025
	3	U1008-20	546026
	4	U1009-20	546027


	Dimension inches	Significant Number	Product Code
	<b>Schedule 80 Pipe 20' Lengths</b>		
	1/2	U1102-20	546028
	3/4	U1103-20	546029
	1	U1104-20	546030
	1-1/4	U1105-20	546031
	1-1/2	U1106-20	546032
	2	U1107-20	546033
	3	U1108-20	546034
	4	U1109-20	546035

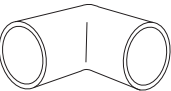
Note: 20' Enpure pipe lengths are non-stock items available upon special request.

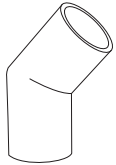
Note: 20' Enpure pipe lengths are non-stock items available upon special request.

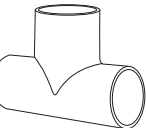
IPEX components are dimensionally matched; do not install Enpure system components with components of other brands.

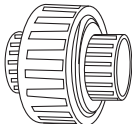
## PRODUCT SELECTION CHART – ENPURE


	Dimension inches	Significant Number	Product Code
	1/2	U1202	537122
	3/4	U1203	537123
	1	U1204	537124
	1-1/4	U1205	537125
	1-1/2	U1206	537126
	2	U1207	53717
	3	U1208	537128
	4	U1209	537129

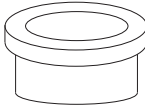
	Dimension inches	Significant Number	Product Code
	1/2	U1402	537142
	3/4	U1403	537143
	1	U1404	537144
	1-1/4	U1405	537145
	1-1/2	U1406	537146
	2	U1407	537147
	3	U1408	537148
4	U1409	537149	

	Dimension inches	Significant Number	Product Code
	1/2	U1502	537152
	3/4	U1503	537153
	1	U1504	537154
	1-1/4	U1505	537155
	1-1/2	U1506	537156
	2	U1507	537157
	3	U1508	537158
4	U1509	537159	

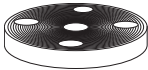
	Dimension inches	Significant Number	Product Code
	1/2	U1602	537162
	3/4	U1603	537163
	1	U1604	537164
	1-1/4	U1605	537165
	1-1/2	U1606	537166
	2	U1607	537167
	3	U1608	537168
4	U1609	537169	

	Dimension inches	Significant Number	Product Code
	1/2	U1702	537172
	3/4	U1703	537173
	1	U1704	537174
	1-1/4	U1705	537175
	1-1/2	U1706	537176
	2	U1707	537177

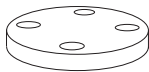
	Dimension inches	Significant Number	Product Code
	1/2	U1802	537182
	3/4	U1803	537183
	1	U1804	537184
	1-1/4	U1805	537185
	1-1/2	U1806	537186
	2	U1807	537187
	3	U1808	537188

	Dimension inches	Significant Number	Product Code
	1/2	U1902	537192
	3/4	U1903	537193
	1	U1904	537194
	1-1/4	U1905	537195
	1-1/2	U1906	537196
	2	U1907	537197
	3	U1908	537198
4	U1909	537099	

Note: One stub flange and one steel backing flange are required for complete flange system.

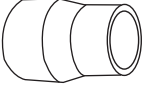
	Dimension inches	Significant Number	Product Code
	1/2	U2112	537222
	3/4	U2113	537223
	1	U2114	537224
	1-1/4	U2115	537225
	1-1/2	U2116	537226
	2	U2117	537227
	3	U2118	537228
4	U2119	537229	

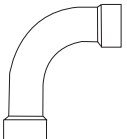
Note: One stub flange and one steel backing flange are required for complete flange system.


	Dimension inches	Significant Number	Product Code
	1/2	U2102	537212
	3/4	U2103	537213
	1	U2104	537214
	1-1/4	U2105	537215
	1-1/2	U2106	537216
	2	U2107	537217
	3	U2108	537218
4	U2109	537219	


IPEX components are dimensionally matched; do not install Enpure system components with components of other brands.

## PRODUCT SELECTION CHART – ENPURE


	Dimension inches	Significant Number	Product Code
	3/4 x 1/2	U2232	537241
	1 x 1/2	U2242	537242
	1 x 3/4	U2243	537243
	1-1/4 x 1	U2254	537244
	1-1/2 x 1	U2264	537245
	1-1/2 x 1-1/4	U2265	537246
	2 x 1	U2274	537247
	2 x 1-1/4	U2275	537248
	2 x 1-1/2	U2276	537249
	3 X 1-1/2	U2286	537250
	3 x 2	U2287	537251
	4 x 2	U2297	537252
	4 x 3	U2298	537253

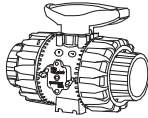
	Dimension inches	Significant Number	Product Code
	1/2	U2302	537272
	3/4	U2303	537273
	1	U2304	537304
	1-1/4	U2305	537305
	1-1/2	U2306	537306
	2	U2307	537307
	3	U2308	537308
	4	U2309	537309


	Dimension inches	Significant Number	Product Code
	1/2	U2402	537322
	3/4	U2403	537323
	1	U2404	537324
	1-1/4	U2405	537325
	1-1/2	U2406	537326
	2	U2407	537327
	3	U2408	537328
	4	U2409	537329

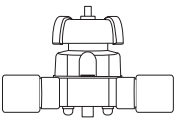
	Dimension inches	Significant Number	Product Code
	1/2	434306	437341
	3/4	434307	437342
	1	434308	437343
	1-1/4	434309	437344
	1-1/2	434310	437345
	2	434311	437346
	3	434313	437348
	4	434314	437349

Note: 1/2" and 3/4" pipe clips are supplied without retaining bands.

	Dimension inches	Significant Number	Product Code
	1/2 x 1/2	U2702	537362
	1/2 x 1/4	U2720	537370
	1/2 x 3/8	U2721	537371
	3/4 x 3/4	U2703	537363
	1 x 1	U2704	537364
	1-1/4 x 1-1/4	U2705	537365

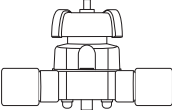
	Dimension inches	Significant Number	Product Code
	1/2	U3112	537031
	3/4	U3113	537032
	1	U3114	537033
	1-1/4	U3115	537034
	1-1/2	U3116	537035
	2	U3117	537036

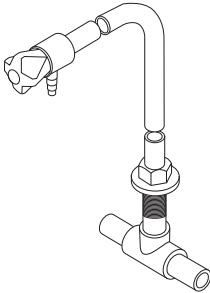
	Dimension inches	Significant Number	Product Code
	1/2	U3102EC	537014
	3/4	U3103EC	537015
	1	U3104EC	537016
	1-1/4	U3105EC	537017
	1-1/2	U3106EC	537018
	2	U3107EC	537019


	Dimension inches	Significant Number	Product Code
	1/2	U3502	537451
	3/4	U3503	537453
	1	U3504	537455
	1-1/4	U3505	537456
	1-1/2	U3506	537457
	2	U3507	537458

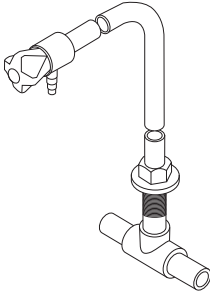
IPEX components are dimensionally matched; do not install Enpure system components with components of other brands.

## PRODUCT SELECTION CHART – ENPURE

	Dimension inches	Significant Number	Product Code
	<b>UPP Diaphragm Valve – EPDM Diaphragm Soc</b>		
	1/2	U3602	537469
	3/4	U3603	537470
	1	U3604	537471
	1-1/4	U3605	537472
	1-1/2	U3606	537473
	2	U3607	537474

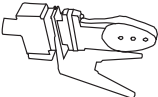
	Dimension inches	Significant Number	Product Code
	<b>Heater Bushing Set- PTFE Coated (1 x Soc, 1 x Sp)</b>		
	1/2	U2812	537382
	3/4	U2813	537383
	1	U2814	537384
	1-1/4	U2815	537385
	1-1/2	U2816	537386
	2	U2817	537387
	3	U2818	537388
	4	U2819	537389

	Dimension inches	Significant Number	Product Code
	<b>Single Union Ball Check Valve w/ Viton® Seats &amp; Seals Soc</b>		
	1/2	U3702	537784
	3/4	U3703	537785
	1	U3704	537786
	1-1/4	U3705	537787
	1-1/2	U3706	537788
	2	U3707	537189

	Dimension inches	Significant Number	Product Code
	<b>Recirculating Faucet Sp</b>		
	1/2	U4000	537039

	Dimension inches	Significant Number	Product Code
<b>Socket Fusion Joining Kit c/w Full Set of Heater Bushings</b>			
	1/2 to 2	U2827	537401
	1/2 to 4	U2829	537404

	Significant Number	Product Code
<b>Tempilstiks</b>		
	U2850 (488°)	537406
	U2851 (575°)	537407

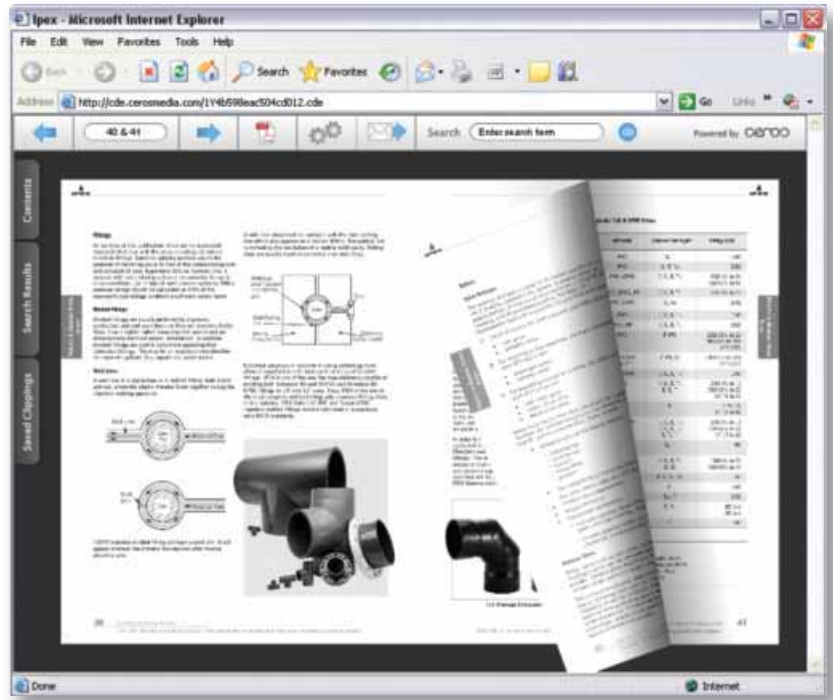
	Dimension inches	Significant Number	Product Code
	<b>Socket Fusion Joining Tool - Paddle Only</b>		
	1/2 to 2	-	537403
	1/2 to 4	-	537400

	Dimension inches	Significant Number	Product Code
<b>Bench Fusion Joining Kit c/w Full Set of Heater Bushings</b>			
	1/2 to 4	U2890	537410

IPEX components are dimensionally matched; do not install Enpure system components with components of other brands.

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# DURAPLUS ABS INDUSTRIAL

4" - 16" (100mm - 300mm)

## Duraplus™

The Duraplus® Industrial Piping System by IPEX offers a complete range of ABS pressure pipe, valves and fittings that are ideal for demanding applications ranging from abrasive slurries and separation reagents to caustic processes and low temperature glycol systems. These rugged Duraplus components operate over a wide range of temperatures while delivering excellent material properties including:

- Exceptional Toughness
- Non-Toxicity
- Corrosion Resistance

This design and installation manual provides the most up-to-date comprehensive information about IPEX's Duraplus ABS Industrial Piping System. By combining IPEX's laboratory test results with over 65 years of field experience, we have produced a manual suited to engineers, contractors and distributors alike. All aspects of Duraplus are described here – from basic raw material properties through to installation procedures of the finished product.

IPEX offers matched Duraplus pipes, fittings and valves in IPS sizes ranging from 3/8" to 12" nominal diameter, suitable for pressures up to 230 psi at 73°F (depending on the size).

### DURAPLUS® FEATURES:

- High impact strength
- Outstanding ductility
- Wide chemical resistance
- Competitive installed cost
- Operating range from -40°F to +158°F
- Long term UV resistance
- Multiple proven and easy joining methods

### ADVANTAGES

- 1 Lightweight**  
Duraplus Industrial ABS material is 1/8 the weight of steel and 1/5 the weight of copper.
- 2 Simple, reliable joining method**  
Solvent cemented joints can be made quickly and easily without expensive equipment or certifications. Flanging and threaded joints are also possible.
- 3 Grooved joints**  
Allow quick assembly and disassembly, pipe rotation for even wear and cleaning of individual pipe sections.
- 4 Wide range of pressure and temperature capabilities**  
Operating pressures from drainage up to 230 psi and temperature range from -40°F to 176°F make this product suitable for the harshest environments.
- 5 Lower installation costs**  
Duraplus Industrial ABS is less expensive to install because of its simple joining methods – its lightweight and ease of handling.
- 6 Lower maintenance costs**  
Duraplus Industrial ABS has excellent chemical resistance, corrosion resistance and impact resistance resulting in a piping system that lasts longer.
- 7 No heat, no sparks, no open flames**  
Pipe can be joined to fitting without the necessity of heat.
- 8 Abrasion resistance**  
The rubber-like poly-butadiene phase gives Duraplus Industrial ABS exceptionally good abrasion resistance to slurries and other abrasive media.

### APPLICATIONS

#### • Chilled water / HVAC

Chilled Water Lines	Cooling Tower Pipes
Condensate Drain Lines	Humidification Supply Lines

#### • Off Shore Applications

"Mud" Systems	Deluge Systems
Topside (low pressure) Operations	(Emergency Showers/Eye Baths)
Vacuum Systems (Drill Cuttings Transport)	Chilled Water (Air Conditioning)
Deck Wash System – Supply & Drainage	Potable Water
	Black Water Drainage

#### • Mining

Slurries	Chemical Treatment
Water Lines	Tailing Lines
Vent Piping	

#### • Secondary Loop Refrigeration

Glycol Chilled Lines

### STANDARDS



The ABS compound used in the manufacturing of Duraplus ABS Industrial Pipe complies with the material requirements of ASTM D3965, "Standard Specification for Rigid Acrylonitrile-Butadiene-Styrene (ABS) Materials for Pipe and Fittings".



## SHORT FORM SPECIFICATIONS

### GENERAL

Duraplus ABS is designed for industrial pressure pipe applications where the extremely high-impact resistance and ductility of the material offers some insurance against internal and external shock loadings and site abuse conditions. It's unique combination of ABS properties – non-toxicity, purity, corrosion- and chemical-resistance, toughness, low-hydraulic resistance, and the ability to perform over a wide temperature range (-40°F to +158°F) ensures excellent in-service performance and system life.

### MATERIAL SPECIFICATION

Pipe and fittings shall be manufactured from a copolymeric material – Acrylonitrile Butadiene Styrene (ABS) – conforming to a 43232 cell classification in accordance with ASTM D3965.

Material for both pipe and fittings shall have a design stress of not less than 2,000 psi, and shall be designed with a 2 to 1 safety factor for a 50 year lifespan when operated under continuous pressure.

The material shall have an izod impact resistance value of not less than 6 ft./lb. at 73°F and 3 ft./lb. at -22°F, when tested in accordance with ASTM D256, method 'A'.

### PIPE

Pipes shall be manufactured by IPEX and designed on a Standard Dimension Ratio (SDR) basis to give various pressure ratings as described below:

Pipe Class	Equivalent DR	Continuous Pressure Rating at 73°F (23°C)	Size Range
Class B 90 psi	DR 24.0	90 psi	10" & 12"
Class C 145 psi	DR 15.5	145 psi	1" to 8"
Class D 180 psi	DR 12.5	180 psi	1" to 6"
Class E 230 psi	DR 10.0	230 psi	3/8" to 4"
Class T 230 psi		180 psi	3/8" to 2"

### FITTINGS

Fittings shall be of the socket type, designed for solvent welding as supplied by IPEX.

Fittings shall be designed and manufactured so that they withstand the continuous pressures applicable to the maximum pressure native of the pipe.

### SOLVENT CEMENT

All joints shall be made with Gray Duraplus ABS solvent cement as supplied by IPEX.

The solvent cement shall be designed to withstand continuous applied pressures up to 230 psi at 73°F.

### DESIGN AND INSTALLATION

The design and installation of ABS pressure systems shall be performed in accordance with the recommendations detailed in the Handling and Installation section of this manual, local and national regulations where applicable.

To ensure the full integrity of the completed system, all components shall be supplied by IPEX.

## DID YOU KNOW?

Duraplus Industrial ABS is an extremely versatile process piping system that combines ruggedness, chemical resistance, light weight and ease of installation.

The most common applications for Duraplus Industrial ABS utilizes its outstanding impact resistance, ductility and abrasion resistance at both low and high temperatures.



# PRODUCT SELECTION CHART – DURAPLUS

Dimension inches	Significant Number	Product Code
------------------	--------------------	--------------

## Pipe – 90 psi at 73° F



10	542114	346034
12	542115	346035

Standard length of pipe is 20 feet.

## Pipe – 145 psi at 73° F



1	511104	346003
1-1/2	511106	346004
2	511107	346005
3	511109	346007
4	511110	346008
6	511112	346009
8	511113	346010

Standard length of pipe is 20 feet.

## Pipe – 180 psi at 73° F



1	512104	346013
1-1/4	512105	346014
1-1/2	512106	346015
2	512107	346011
3	512109	346016
4	512110	346017
6	512112	346012

Standard length of pipe is 20 feet.

Note: 180 psi pipe is a non-stock item available upon special request.

Minimum runs are required.

## Pipe – 230 psi at 73° F



3/8	513101	346018
1/2	513102	346019
3/4	513103	346020
1	513104	346021
1-1/4	513105	346022
1-1/2	513106	346023
2	513107	346024
3	513109	346025
4	513110	346026

The standard pipe length for 3/8" and 1/2" pipe is 10 feet. The standard length for all other sizes is 20 feet.

Dimension inches	Significant Number	Product Code
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## Class "T" – Suitable for Threading

3/8	514101	346033
1/2	514102	346027
3/4	514103	346028
1	514104	346029
1-1/4	514105	346030
1-1/2	514106	346031
2	514107	346032

## Saddle Clip – Polypropylene



3/8	455101	337453
1/2	455102	337454
3/4	455103	337455
1	455104	337456
1-1/4	455105	337457
1-1/2	455106	337458
2	455107	337459
3	455109	337460
4	455110	337461

## Cobra Pipe Clip – Polypropylene



3/8	434305	437340
1/2	434306	437341
3/4	434307	437342
1	434308	437343
1-1/4	434309	437344
1-1/2	434310	437345
2	434311	437346
2-1/2	434312	437347
3	434313	437348
4	434314	437349
6	434317	437432

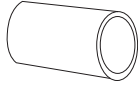
Note: 3/8" 1/2", 3/4" and 1" pipe clips are supplied without retaining bands.

All Threads are BSP tapered unless otherwise noted \*\*\*.

Systems using plastic threaded components are restricted to 180 psi. The use of PTFE sealing tape is recommended.

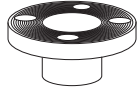
Only the correct Duraplus® cement will provide a compatible joint. All warranties void if other cement used.

## PRODUCT SELECTION CHART – DURAPLUS

	Dimension inches	Significant Number	Product Code	
	3/8	100101	337021	
	1/2	100102	337022	
	3/4	100103	337023	
	1	100104	337024	
	1-1/4	100105	337025	
	1-1/2	100106	337026	
	2	100107	337027	
	3	100109	337028	
	4	100110	337029	
	6	100112	337030	
	8	100113	337031	
	*	10	100114	337032
	*	12	100115	337033


\* Fabricated - 90 psi max

### Flange – Full Face, Drilled ASA 150 Soc

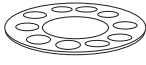
	1/2	322102	337353
	3/4	322103	337354
	1	322104	337355
	1-1/4	322105	337356
	1-1/2	322106	337357
	2	322107	337358
	3	322109	337359
	4	322110	337360
	6	322112	337361

Note: A metal backing ring must be used with this flange.

### Flange – Full Face, Undrilled Soc

	1/2	129102	337226
	3/4	129103	337227
	1	129104	337228
	1-1/4	129105	337229
	1-1/2	129106	337230
	2	129107	337231
	3	129109	337232
	4	129110	337233
	6	129112	337234

Note: A metal backing ring must be used with this flange.


	Dimension inches	Significant Number	Product Code
	1/2	426102	337439
	3/4	426103	337440
	1	426104	337441
	1-1/4	426105	337442
	1-1/2	426106	337443
	2	426107	337444
	3	426109	337445
	4	426110	337446
	6	426112	337447

### Flange – Stub Soc

	2	135107	337235
	3	135109	337236
	4	135110	337237
	6	135112	337238
	8	135113	337239
	10	139114	337243
	12	139115	337244

Note: A metal backing ring must be used with this flange.

### Gasket – Stub Flange, Neoprene

	2	431107	337448
	3	431109	337449
	4	431110	337450
	6	431112	337451
	8	431113	337452
	10	411114	337422
	12	411115	337423

Note: It is essential that steel backing rings are used with all types of stub, full face and blind flanges.

All Threads are BSP tapered unless otherwise noted \*\*\*.

Systems using plastic threaded components are restricted to 180 psi. The use of PTFE sealing tape is recommended. Only the correct Duraplus® cement will provide a compatible joint. All warranties void if other cement used.

## PRODUCT SELECTION CHART – DURAPLUS

Dimension inches	Significant Number	Product Code
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### Backing Ring – Galv, M.S. Drilled ASA 150



Dimension inches	Significant Number	Product Code
1/2	425102	337426
3/4	425103	337427
1	425104	337428
1-1/4	425105	337429
1-1/2	425106	337430
2	425107	337431
3	425109	337433
4	425110	337434
6	425112	337435
8	425113	337436
10	425114	337437
12	425115	337438

Note: For use with flanges.

### Blind Flange – Drilled ASA 150

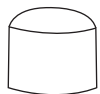


Dimension inches	Significant Number	Product Code
3	325109	337364
4	325110	337365
6	325112	337366
8	325113	337367
10	325114	337368
12	325115	337383

Note: A metal backing ring must be used with this flange.

Undrilled flanges are available at the same price as drilled. Order code 131.

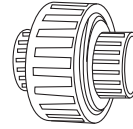
### Cap Soc



Dimension inches	Significant Number	Product Code
3/8	140101	337245
1/2	140102	337246
3/4	140103	337247
1	140104	337248
1-1/4	140105	337249
1-1/2	140106	337250
2	140107	337251
3	140109	337252
4	140110	337253

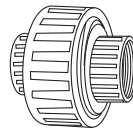
Dimension inches	Significant Number	Product Code
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### Union – EPDM Seal Soc



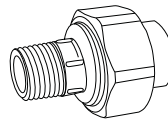
Dimension inches	Significant Number	Product Code
3/8	205101	337270
1/2	205102	337271
3/4	205103	337272
1	205104	337273
1-1/4	205105	337274
1-1/2	205106	337275
2	205107	337276
3	205109	337277
4	205110	337278

### Union ABS Soc x Brass Female Thread



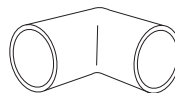
Dimension inches	Significant Number	Product Code
1/2	212102	337280
3/4	212103	337281
1	212104	337282
1-1/4	212105	337000
1-1/2	212106	337283
2	212107	337284

### Transition Union ABS Soc x Brass Male Thread



Dimension inches	Significant Number	Product Code
1/2	217102	337103
3/4	217103	337104
1	214104	337109
1-1/4	217105	337191
1-1/2	217106	337192
2	217107	337193

### 90° Elbow Soc



Dimension inches	Significant Number	Product Code	
3/8	115101	337132	
1/2	115102	337133	
3/4	115103	337134	
1	115104	337135	
1-1/4	115105	337136	
1-1/2	115106	337137	
2	115107	337138	
3	115109	337139	
4	115110	337140	
6	115112	337141	
8	115113	337142	
*	10	115114	337011
*	12	115115	337012

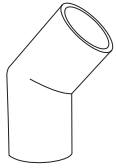
\* Only available in spigot x spigot.

All Threads are BSP tapered unless otherwise noted \*\*\*.  
Systems using plastic threaded components are restricted to 180 psi. The use of PTFE sealing tape is recommended.  
Only the correct Duraplus® cement will provide a compatible joint. All warranties void if other cement used.

## PRODUCT SELECTION CHART – DURAPLUS

Dimension inches	Significant Number	Product Code
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### 45° Elbow Soc

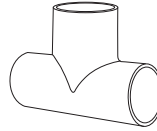


Dimension inches	Significant Number	Product Code
3/8	119101	337156
1/2	119102	337157
3/4	119103	337158
1	119104	337159
1-1/4	119105	337160
1-1/2	119106	337161
2	119107	337162
3	119109	337163
4	119110	337164
6	119112	337165
8	119113	337166
* 10	119114	337013
* 12	119115	337014

\* Only available in spigot x spigot.

Dimension inches	Significant Number	Product Code
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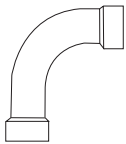
### Tee Soc



Dimension inches	Significant Number	Product Code
3/8	122101	337170
1/2	122102	337171
3/4	122103	337172
1	122104	337173
1-1/4	122105	337174
1-1/2	122106	337175
2	122107	337176
3	122109	337177
4	122110	337178
6	122112	337179
8	122113	337180
* 10	122114	337015
* 12	122115	337016

\* Only available in spigot tees.

### 90° Bend – Short Radius Soc



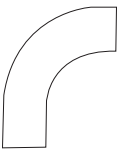
Dimension inches	Significant Number	Product Code
1/2	118102	337148
3/4	118103	337149
1	118104	337150
1-1/4	118105	337151
1-1/2	118106	337152
2	118107	337153
3	118109	337154
4	118110	337155

### Saddle Soc



Dimension inches	Significant Number	Product Code
2 x 1-1/4	126129	337205
3 x 1	126132	337207
3 x 1-1/2	126134	337208
4 x 1	126137	337209
4 x 2	126140	337210
6 x 1	126143	337211
6 x 1-1/2	126145	337212
6 x 2	126146	337213

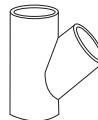
### 90° Bend – Long Radius Sp (Center Line Radius = 4xD)



Dimension inches	Significant Number	Product Code
3	309109	337320
4	309110	337321
6	309112	337322
8	309113	337323
* 10	309114	337384
* 12	309115	337385

\* Please note center line radius of 10" & 12" varies from 4xD

### 45° Wye Soc



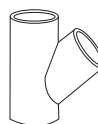
Dimension inches	Significant Number	Product Code
1/2	128102	337214
3/4	128103	337215
1	128104	337216
1-1/4	128105	337217
1-1/2	128106	337218
2	128107	337219

### 45° Bend – Long Radius Sp (Center Line Radius = 4xD)

Dimension inches	Significant Number	Product Code
3	310109	337330
4	310110	337331
6	310112	337332
8	310113	337333
* 10	310114	337386
* 12	310115	337387

\* Please note center line radius of 10" & 12" varies from 4xD

### 45° Wye – Fabricated Sp x Sp



Dimension inches	Significant Number	Product Code
3	128109	337220
4	128110	337221
6	128112	337222
8	128113	337223
10	128114	337224
12	128115	337225

All Threads are BSP tapered unless otherwise noted \*\*\*.

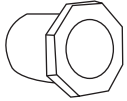
Systems using plastic threaded components are restricted to 180 psi. The use of PTFE sealing tape is recommended.

Only the correct Duraplus® cement will provide a compatible joint. All warranties void if other cement used.

# PRODUCT SELECTION CHART – DURAPLUS

Dimension inches	Significant Number	Product Code
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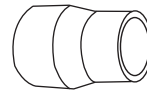
## Reducer Bushing Sp x Soc



Dimension inches	Significant Number	Product Code
1/2 x 3/8	109121	337050
3/4 x 1/2	109122	337051
1 x 1/2	109123	337052
1 x 3/4	109124	337053
1-1/4 x 1/2	109116	337045
1-1/4 x 3/4	109117	337046
1-1/4 x 1	109125	337054
1-1/2 x 1/2	109118	337047
1-1/2 x 3/4	109119	337048
1-1/2 x 1	109126	337055
1-1/2 x 1-1/4	109127	337056
2 x 3/4	109120	337049
2 x 1	109128	337057
2 x 1-1/4	109129	337058
2 x 1-1/2	109130	337059
3 x 1-1/2	109134	337061
3 x 2	109135	337062
4 x 3	109141	337064
6 x 4	109147	337065
8 x 6	109152	337066
10 x 8	109157	337067
12 x 10	109162	337068

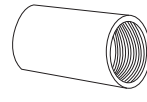
Dimension inches	Significant Number	Product Code
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## Reducer Coupler Soc



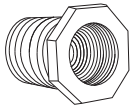
Dimension inches	Significant Number	Product Code
1/2 x 3/8	114121	337120
3/4 x 1/2	114122	337121
1 x 3/4	114124	337122
1-1/4 x 1	114125	337123
1-1/2 x 1-1/4	114127	337124
2 x 1-1/2	114130	337125
3 x 2	114135	337126
4 x 3	114141	337127
6 x 4	114147	337128
8 x 6	114152	337129
10 x 8	114157	337130
12 x 10	114162	337131

## Adapter Coupling Soc x Female Thread



Dimension inches	Significant Number	Product Code
1/2	101102	337037
3/4	101103	337038
1	101104	337039
1-1/4	101105	337040
1-1/2	101106	337098
2	101107	337099

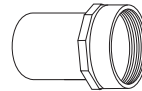
## Reducer Bushing Male Thread x Female Thread



** 3/4 x 1/2	113122	337076
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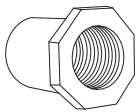
\*\* Discontinued when stock is depleted

## Female Adapter Sp x Female Thread



Dimension inches	Significant Number	Product Code
1/2	153102	337257
3/4	153103	337258
1	153104	337259
1-1/4	153105	337260
1-1/2	153106	337261
2	153107	337262

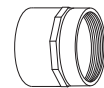
## Reducer Bushing Sp x Female Thread



** 1/2 x 3/8	111121	337072
** 3/4 x 1/2	111122	337073
** 1 x 3/4	111124	337074

\*\* Discontinued when stock is depleted

## Female Adapter Soc x FPT



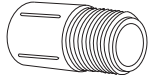
Dimension inches	Significant Number	Product Code
1/2	102102	337094
3/4	102103	337095
1	102104	337096
1-1/4	102105	337097
1-1/2	102106	337098
2	102107	337099
3	102108	337100
4	102109	337101

All Threads are BSP tapered unless otherwise noted \*\*\*.  
 Systems using plastic threaded components are restricted to 180 psi. The use of PTFE sealing tape is recommended.  
 Only the correct Duraplus® cement will provide a compatible joint. All warranties void if other cement used.

## PRODUCT SELECTION CHART – DURAPLUS

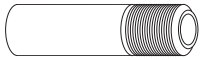
Dimension inches	Significant Number	Product Code
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### Male Adapter Soc x MPT



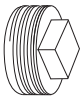
Dimension inches	Significant Number	Product Code
1/2	103102	337086
3/4	103103	337087
1	103104	337088
1-1/4	103105	337089
1-1/2	103106	337090
2	103107	337091
3	103108	337092
4	103109	337093

### Nipple Sp x NPT



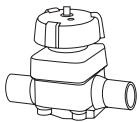
Dimension inches	Significant Number	Product Code
3/8	314101	337340
1/2	314102	337341
3/4	314103	337342
1	314104	337343
1-1/4	314105	337344
1-1/2	314106	337345
2	314107	337346
3	314109	337347
4	314110	337348

### Plug Male Thread



Dimension inches	Significant Number	Product Code
1/2	155102	337264
3/4	155103	337265
1	155104	337266
1-1/4	155105	337267
1-1/2	155106	337268
2	155107	337269

### VM Manual Diaphragm Valve – EPDM Diaphragm T/U Soc

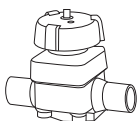


Dimension inches	Significant Number	Product Code
1/2	HOUMA102	337110
3/4	HOUMA103	337111
1	HOUMA104	337112
1-1/4	HOUMA105	337113
1-1/2	HOUMA106	337114
2	HOUMA107	337115
◆ 3	HOVMA209	337649
◆ 4	HOVMA210	337116

◆ 3" & 4" are spigot ended

Note: Other diaphragm materials available on request

### VM Manual Diaphragm Valve – EPDM Diaphragm Sp

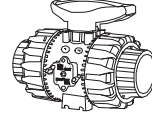


Dimension inches	Significant Number	Product Code
** 1/2	624102	337643
** 3/4	624103	337644
** 1	624104	337645
** 1-1/4	624105	337646
** 1-1/2	624106	337647
** 2	624107	337648

\*\* Discontinued when stock is depleted

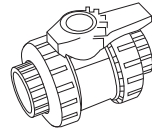
Dimension inches	Significant Number	Product Code
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### VKD True Union Ball Valve – EPDM Seals Soc



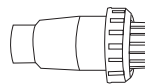
Dimension inches	Significant Number	Product Code
3/8	902101	337801
1/2	902102	337802
3/4	902103	337803
1	902104	337804
1-1/4	902105	337805
1-1/2	902106	337806
2	902107	337807
3	902109	337808
4	902110	337809

### VXE True Union Ball Valve – EPDM Seals Soc



Dimension inches	Significant Number	Product Code
1/2	902111	337810
3/4	902112	337811
1	902113	337812
1-1/4	902114	337813
1-1/2	902115	337814
2	902116	337816

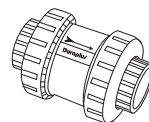
### Single Union Ball Check Valve – EPDM Soc



Dimension inches	Significant Number	Product Code
** 3/8	836101	337727
** 1/2	836102	337728
** 3/4	836103	337729
** 1	836104	337730
** 1-1/4	836105	337731
** 1-1/2	836106	337732
** 2	836107	337733
** 3	836109	337734

\*\* Discontinued when stock is depleted

### True (Double) Union Ball Check Valve – EPDM Soc



Dimension inches	Significant Number	Product Code
1/2	837102	337185
3/4	837103	337186
1	837104	337187
1-1/4	837105	337188
1-1/2	837106	337189
2	837107	337190

All Threads are BSP tapered unless otherwise noted \*\*\*.

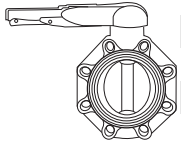
Systems using plastic threaded components are restricted to 180 psi. The use of PTFE sealing tape is recommended.

Only the correct Duraplus® cement will provide a compatible joint. All warranties void if other cement used.

## PRODUCT SELECTION CHART – DURAPLUS

Dimension inches	Significant Number	Product Code
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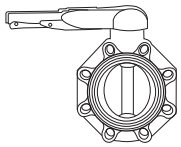
### FK, EPDM Seals – Glass filled PP Body



2	680107	337651
3	680109	337652
4	680110	337653
6	680112	337654
8	680113	337655

General service (GS) - offered primarily for use with water, but suitable for a wide range of diluted chemicals, swimming pools, irrigation, potable water, etc. The GS valve is also suitable for compressed air and gases.

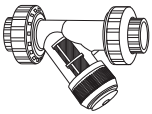
### FK, Viton® Seals – Glass filled PP body



2	681107	337656
3	681109	337657
4	681110	337658
6	681112	337659
8	681113	337660

Chemical duty (CD) - incorporating more chemically resistant components, this valve can be used with a wide range of organic or inorganic chemicals even at elevated temperatures.

### RV Y-Strainer EPDM Seals Soc



1/2	846102	337739
3/4	846103	337740
1	846104	337741
1-1/4	846105	337742
1-1/2	846106	337743
2	846107	337744

Liquid Quantity	Significant Number	Product Code
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### Solvent Cement



1 pint	461392	337466
1 quart	461393	337467

### MEK Cleaner



1 pint	461397	337468
1 quart	461398	337469

### Joints

An indication of the number of joints likely to be made per quart of Duraplus® cement is as follows (it is recommended that MEK Cleaner order equals one-half the quantity of solvent cement required):

Pipe Size inches	Number of Joints
3/8 – 1	290
1-1/4 – 2	144
3	48
4	32
6	16
8	10
10	4
12	4

All Threads are BSP tapered unless otherwise noted \*\*\*.

Systems using plastic threaded components are restricted to 180 psi. The use of PTFE sealing tape is recommended.

Only the correct Duraplus® cement will provide a compatible joint. All warranties void if other cement used.



Safety and environmental concerns are top priorities on today's industrial agenda. Reduction of emissions, energy conservation and prevention of ground water contamination are some of the areas where regulations are increasingly defining an important line between utilization and exploitation of our planet's resources.

For most common chemical-waste or process applications, IPEX offers systems that are both simple yet highly advanced state-of-the-art technologies.

These systems utilize pre-assembled components that guarantee reliability, ease of installation, fewer joints (up to 40% less) and quick delivery.

Certain environments demand fail-safe systems. No leaks. No risk.

The professionals at IPEX understand the complexity of design and installation for demanding double containment applications.

# DOUBLE CONTAINMENT SYSTEMS



Guardian	62
Drain-Guard	63
Clear-Guard	64
CustomGuard	65
Encase	66
Centra-Guard	72
IPEX PAL-AT	73

# GUARDIAN VINYL DOUBLE CONTAINMENT SYSTEMS



For more than 25 years, Guardian systems have been the benchmark in pressure and drainage double containment. Guardian systems are available in tough industrial grade PVC and even tougher high temperature CPVC. For instant leak detection of overhead piping, Clear-Guard clear PVC containment pipe is also available. Guardian's patented Centra-Lock design reduces the required joints by 40 - 60% compared to conventional double containment systems.

## SPECIFICATIONS

### Material Selection

Xirtec®140 PVC and Corzan® CPVC are the chosen materials for the Guardian systems. IPEX controls not only the design and fabrication of the systems, but also the blending of the PVC resin, the extrusion and injection molding of most components. This unparalleled consistency of quality and resin as well as dimensional compatibility results in superior systems that are unmatched in the industry. Clear-Guard utilizes a fail-safe, fully pressure rated clear PVC that uses a solvent cement jointing method identical to traditional vinyl pressure pipe. This eliminates the need for expensive caulking guns and epoxy adhesive for assembly. Clear-Guard can be used in conjunction with both Schedule 40 and 80 Xirtec140 PVC or Corzan CPVC primary pipe.

### Design

Guardian and Clear-Guard systems offer a complete selection of pretested modular components which are extremely easy to install. Our Centra-lok™ patented design allows IPEX to offer vinyl systems which average up to 60% fewer overall joints and up to 10% fewer field joints. Since joints are always the most common source of premature failures and leaks, it is easy to realize the immense impact the Centra-lok design has on maintenance, repair and installation costs. The patented ingenuity and simplicity of the Centra-lok design also reduces the purchase cost of IPEX systems, making Guardian and Clear-Guard the industry's most cost-effective vinyl system. As with all our containment systems, the IPEX patented Centra-Guard™ point-of-collection or cable leak detection systems are also available.

### General

Each contained piping system shall consist of Xirtec®140 PVC primary piping system supported within a Xirtec®140 PVC secondary containment housing. Carrier fitting sizes 1/2" through 4" will use Centra-Lok [U.S. Patent No. 5,398,973] molded supports minimizing the number of field (factory assembled) fitting joints. Carrier sizes 6" and larger will use IPEX standard polypropylene fitting discs to support and centralize. Each system shall be provided with suitable drains and vents and be designed to provide complete drainage of both the primary and secondary containment piping. Interstitial supporting devices shall be made from Polypropylene Centra-Guide supports and shall be provided within the secondary containment pipe, and shall be designed to allow continuous drainage in the annular space to the drain points. Drain fittings shall be designed to allow a valve attachment to be made so that the secondary containment compartment may be readily drained and manually checked for leaks.

Material	Carrier	Containment
Xirtec140 PVC	1/2" - 12"	2" - 18"
Corzan CPVC	1/2" - 12"	2" - 18"

Larger sizes are available on request.

**FOR PRICING CONTACT YOUR IPEX REPRESENTATIVE.**



### DID YOU KNOW?

Made from PVC and Corzan® CPVC, these systems offer a complete selection of pre-tested modular components that are considered unmatched in the industry.



# DRAIN-GUARD VINYL DOUBLE CONTAINMENT SYSTEM

## Drain-Guard™

The Drain-Guard™ system is available in tough industrial grade PVC enabling safety and reliability in Drain, Waste and Vent (DWV) applications. The patented Centra-Lok™ design reduces the required joints by 40-60% compared to conventional double containment systems.

Material	Carrier	Containment
Xirtec140 PVC	1-1/2" - 12"	4" - 16"

Larger sizes are available on request.

**FOR PRICING CONTACT YOUR IPEX REPRESENTATIVE.**



### **DID YOU KNOW?**

Our Drain-Guard system provides safe transport of sanitary or storm drainage in a variety of buildings, including hospitals, museums, historical sites, libraries, art galleries, theaters, data centers, restaurants, and arenas.

## SPECIFICATIONS

### Material Selection

Xirtec®140 PVC is the chosen material for the Drain-Guard system. IPEX controls not only the design and fabrication of the systems, but also the blending of the PVC resin, the extrusion and injection molding of most components. This unparalleled consistency of quality and resin as well as dimensional compatibility results in superior systems that are unmatched in the industry.

### Design

The Drain-Guard system offer a complete selection of pretested modular components which are extremely easy to install. Our Centra-lok™ patented design allows IPEX to offer vinyl systems which average up to 60% fewer overall joints and up to 10% fewer field joints. Since joints are always the most common source of premature failures and leaks, it is easy to realize the immense impact the Centra-lok design has on maintenance, repair and installation costs. The patented ingenuity and simplicity of the Centra-lok design also reduces the purchase cost of IPEX systems. As with all our containment systems, the IPEX patented Centra-Guard™ point-of-collection or cable leak detection systems are also available.

### General

Each contained piping system shall consist of Xirtec®140 PVC primary piping system supported within a Xirtec®140 PVC secondary containment housing. Carrier fitting sizes 1-1/2" through 4" will use Centra-Lok [U.S. Patent No. 5,398,973] molded supports minimizing the number of field (factory assembled) fitting joints. Carrier sizes 6" and larger will use IPEX standard polypropylene fitting discs to support and centralize. Each system shall be provided with suitable drains and vents and be designed to provide complete drainage of both the primary and secondary containment piping.

Interstitial supporting devices shall be made from

Polypropylene Centra-Guide supports and shall be provided within the secondary containment pipe, and shall be designed to allow continuous drainage in the annular space to the drain points. Drain fittings shall be designed to allow a valve attachment to be made so that the secondary containment compartment may be readily drained and manually checked for leaks.



# THE CLEAR-GUARD OPTION

## Clear-Guard™

Clear-Guard's fail-safe, fully pressure rated clear containment system allows for easy detection of leaks and eliminates the risks associated with piping aggressive chemicals overhead. Clear-Guard utilizes Guardian's patented Centra-Lok fitting design, which reduces the required joints by 40-60% compared to conventional double containment systems. Fittings are available in clear or opaque containment fittings.

Material	Carrier	Containment
Clear-Guard PVC	-	2" - 8"

**FOR PRICING CONTACT YOUR IPEX REPRESENTATIVE.**

### SPECIFICATIONS

#### General

Each contained piping system shall consist of Xirtec 140 PVC or Corzan CPVC primary piping system supported within a Clear-Guard Schedule 40 clear PVC secondary containment housing. Carrier fitting sizes 1/2" through 4" will use Centra-Lok [U.S. Patent No. 5,398,973] molded supports minimizing the number of field (factory assembled) fitting joints. Each system shall be provided with suitable drains and vents and be designed to provide complete drainage of both the primary and secondary containment piping. Interstitial supporting devices shall

be made from Polypropylene Centra-Guide supports and shall be provided within the secondary containment pipe, and shall be designed to allow continuous drainage in the annular space to the drain points. Drain fittings shall be designed to allow a valve attachment to be made so that the secondary containment compartment maybe readily drained and manually checked for leaks.



# THE CUSTOMGUARD OPTION

## CustomGuard®

Custom-designed and fabricated double containment systems including dissimilar material systems, CustomGuard is unlike other systems that try to run everything through the same material. Our specialists will recommend and provide the absolute best system for each individual application, looking not only at chemical compatibility but also at cost (material and installation), life expectancy and turn around time.

For applications with more demanding mechanical, chemical and/or thermal requirements, IPEX has developed our CustomGuard offering. CustomGuard includes a variety of different system choices ranging from Fluoropolymers (e.g. PVDF), Thermosets (FRP); and carbon and stainless steel to hybrid combinations. Applications that require such materials are obviously complex, each demanding expertise and specialized knowledge to design an effective system. The CustomGuard option includes material selection, design, specification support (if needed) and fabrication of pre-assembled spooled pieces to minimize installation time and field joints.



### DID YOU KNOW?

Together with Encase and Guardian, Custom Guard sets IPEX apart from any other double containment system. Custom Guard is available in several different materials. Unlike other manufacturers, IPEX is not constrained by a limited material selection. This variety enables IPEX to provide customers with the best solution for their double containment needs.

Material	Carrier	Containment
FRP/Metals/Dissimilar	1/2" - 20"	2" - 26"

**FOR PRICING CONTACT YOUR IPEX REPRESENTATIVE.**

## SPECIFICATIONS

### Material Selection

Carbon and stainless steel, copper, fiberglass (polyester and vinyl ester resins), PVDF, PP and dissimilar materials, are all available in CustomGuard® systems. This comprehensive offering, unmatched by any one company, gives IPEX the unique ability to examine just about any double containment requirement and truly offer the best suited, most cost-effective system. While other manufacturers have vested interests in recommending their one and only material/system, IPEX isn't confined by that limitation.

### Design

Drawing on more than 25 years of experience in double containment, IPEX has developed a variety of product-specific designs to maximize efficiency and reduce installation costs. As with all our containment systems, our own patented Centra-Guard™ point-of-collection or cable leak detection systems are also available.

### General

Each contained piping system shall consist of Schedule 40 A-53 Carbon Steel primary piping system supported within a UL FRP secondary containment housing. Each system shall be provided with suitable drains and vents and be designed to provide complete drainage of both the primary and secondary containment piping. Interstitial supporting devices shall be made from Polypropylene Centra-Guide supports and shall be provided within the secondary containment pipe, and shall be designed to allow continuous drainage in the annular space to the drain points. Drain fittings shall be designed to allow a valve attachment to be made so that the secondary containment compartment may be readily drained and manually checked for leaks.

# ENCASE ACID WASTE PP DOUBLE CONTAINMENT

1-1/2" - 12"



At the heart of our patented Encase polypro system is its electrofusion fitting with a groundbreaking heavy-gauge resistance wire molded into the socket. The result is a premier system that offers considerable reduction of installation time and the highest quality bubble-tight joints available.



## DID YOU KNOW?

Encase is a polypropylene piping system that uses proven Enfusion joining methods to provide an easy-to-install, safe, reliable and cost-effective method to convey chemical waste under gravity-flow conditions.

## ADVANTAGES

- 1 Polypropylene Material**
  - 30 years of success in chemical waste applications
  - High corrosion resistance
  - Wide temperature range
  - Excellent chemical resistance
- 2 Same Material Inside and Out**
  - Eliminates differential expansion problems
  - Chemical resistance is the same for the entire piping system
  - System integrity is maintained in the event of a primary pipe leak
- 3 Restrained System**
  - Expansion anchor plates are installed on each fitting to control expansion
  - No expansion loops necessary
- 4 Full Product Range**
  - 1-1/2" to 8" primary sizes available
  - Manufactured in both non-flame retardant as well as flame retardant material for above ground installation
- 5 Drainage Pattern Fittings**
  - Ensures smooth chemical flow.
  - Enfield piping has been used for chemical waste for over 23 years
- 6 Modular Design**
  - Components are factory fabricated. The only site joining necessary is the fusion of couplings to pipes and fittings
  - Reduces labor costs
- 7 Fast Joining Method**
  - All site joints are made by electrofusion using an Enfusion Hand Held Unit.
  - Quick and simple to make without the need for costly and cumbersome butt fusion machines
  - Proven technology
  - Narrower trench widths than for butt fusion, resulting in quicker and cheaper installation
  - Joints can be made in the trench which reduces installation time
  - Automatic microprocessor-controlled Enfusion unit ensures joint repeatability
- 8 Easy System Testing**
  - The primary pipe can be inspected and tested prior to closing the secondary joint (impossible with butt-welded systems)
  - Any suspect primary joints can be re-fused prior to final closure of the secondary pipe
- 9 Leak Detection Compatible**
  - Encase is compatible with all common types of leak detection systems
  - Upon request, pipe is furnished with knot-free twine to allow insertion of a pull rope for leak detection cable installation minimizing installation time.
- 10 Full Product Backup**
  - Expert personnel are available to assist in every facet of the Encase product



## SHORT FORM SPECIFICATIONS

### GENERAL

Acid waste double containment drain lines shall be Encase, manufactured by IPEX, with no substitutions. Pipe and fittings shall be manufactured from Schedule 40 polypropylene and joined by the Enfusion method.

### MATERIAL

Pipe, fittings, internal pipe supports and anchor plates shall be manufactured from Type 1 homopolymer or Type 2 copolymer polypropylene material as described in ASTM D4101.

### PIPE AND FITTINGS – CONSTRUCTION

All pipe fittings shall be factory assembled and of unitized construction, with the primary and secondary components integrally anchored together to prevent movement of the primary pipe/fitting with in the containment pipe/fitting. All piping components shall be manufactured to Schedule 40 dimensions. The primary pipe shall be adequately supported by means of support plates welded to the primary pipe. Anchor plates shall be provided at each end of the pipe/fitting section to restrain pipe expansion. All anchor plates must be mechanically located in a machined recess on the inside of each secondary pipe/fitting and welded to both the primary and secondary pipe/fitting sections.

### FACTORY WELDED JOINTS

All factory joints shall be made either by butt fusion or Enfusion. Joining by means of fillet welding is expressly forbidden.

### SITE JOINTS

All site joints shall be made using Enfusion couplings, manufactured from polypropylene with a nickel/chrome resistance wire, molded in place. Components with copper wire elements are prohibited. Solvent, butt-welded or fillet-welded site joints are also prohibited.

### INSTALLATION

Installation shall be in accordance with the contract drawings, the manufacturer's recommendations and the local plumbing code. The entire installation shall be installed in proper alignment and free of stress.

### TESTING

The system shall be tested in accordance with the manufacturer's recommendations and the local plumbing code. The primary pipe shall be tested prior to making the secondary joints. If Secondary pipe cannot be hydro-tested, as determined by the engineer or authority having jurisdiction, then the use of nitrogen or air at a MAXIMUM 5 psi (gauge) shall be allowed. It is imperative that a working-pressure regulator be used during the pneumatic test to ensure that over-pressurization of the PVC, beyond 5 psi, cannot occur. The following must also be noted: Air or nitrogen under pressure is compressed and therefore poses a potential hazard. If a failure of the pipe or fitting occurs during such test, the air exits at the failure point and expands rapidly. This increase in velocity can cause the system to fail in a catastrophic mode. Therefore during such air test all personnel involved in the test or present in the test surrounding area must be aware of such a possibility and take all necessary precautions. Precautions include, but are not limited to, taking extreme care not to impact or damage the system in any way. Such procedure is a limited exception to IPEX standard policy which forbids the use of its rigid systems with any compressed gases.


Material	Carrier	Containment
PP	1-1/2" - 8"	4" - 12"



## PRODUCT SELECTION CHART – ENCASE

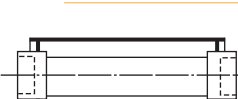
Dimension inches		significant Number	Product Code
Primary	Secondary		

### Schedule 40 Pipe Soc x Sp (20' Nominal Lengths)



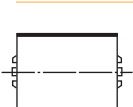
Dimension inches	Primary	Secondary	significant Number	Product Code
1-1/2	4	264150	246040	
2	4	264200	246050	
3	6	266300	246060	
4	8	268400	246070	
6	10	261060	246020	
8	12	261280	246030	

### Schedule 40 Pipe Spool Soc x Soc (5' Nominal Lengths)



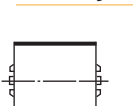
Dimension inches	Primary	Secondary	significant Number	Product Code
1-1/2	4	314150	231313	
2	4	314200	231314	
3	6	316300	231315	
4	8	318400	231316	
6	10	311060	231311	
8	12	311280	231312	

### Secondary Coupling Soc



Dimension inches	Primary	Secondary	significant Number	Product Code
-	4	024000	231114	
-	6	026000	231116	
-	6	028000	231118	
-	10	021000	231110	
-	12	021200	231112	

### Primary Coupling Soc



Dimension inches	Primary	Secondary	significant Number	Product Code
1-1/2	-	L161	257141	
2	-	L162B	257147	
3	-	L163B	257150	
4	-	L164B	257154	
6	-	L166B	257158	
8	-	L168B	257161	

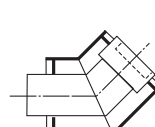
### Secondary Repair Coupling Soc



Dimension inches	Primary	Secondary	significant Number	Product Code
-	4	014000	231004	
-	6	016000	231006	
-	8	018000	231008	
-	10	011000	231010	
-	12	011200	231009	

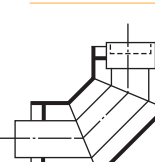
Dimension inches		significant Number	Product Code
Primary	Secondary		

### 1/8 Bend Soc x Sp



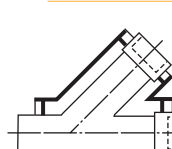
Dimension inches	Primary	Secondary	significant Number	Product Code
1-1/2	4	064150	231141	
2	4	064200	231142	
3	6	066300	231143	
4	8	068400	231144	
6	10	061060	231139	
8	12	061280	231140	

### 1/4 Bend Soc x Sp



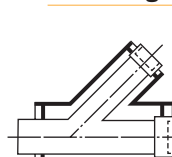
Dimension inches	Primary	Secondary	significant Number	Product Code
1-1/2	4	044150	231134	
2	4	044200	231135	
3	6	046300	231136	
4	8	048400	231137	
6	10	041060	231132	
8	12	041280	231133	

### 45° Wye Soc x Sp x Soc



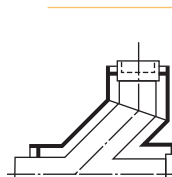
Dimension inches	Primary	Secondary	significant Number	Product Code
1-1/2	4	124150	231153	
2	4	124200	231154	
3	6	126300	231155	
4	8	128400	231156	
6	10	121060	231151	
8	12	121280	231152	

### Reducing Wye Soc x Sp x Soc



Dimension inches	Primary	Secondary	significant Number	Product Code
2 x 1-1/2	4 x 4	154215	231187	
3 x 1-1/2	6 x 4	156315	231188	
3 x 2	6 x 4	156320	231189	
4 x 2	8 x 4	158420	231190	
4 x 3	8 x 6	158430	231191	
6 x 2	10 x 4	151062	231181	
6 x 3	10 x 6	151063	231182	
6 x 4	10 x 8	151064	231183	
8 x 3	12 x 6	151283	231184	
8 x 4	12 x 8	151284	231185	
8 x 6	12 x 10	151286	231186	

### Combination Wye & 1/8 Bend Soc x Sp x Soc



Dimension inches	Primary	Secondary	significant Number	Product Code
1-1/2	4	174150	231203	
2	4	174200	231204	
3	6	176300	231205	
4	8	178400	231206	
6	10	171060	231201	
8	12	171280	231202	

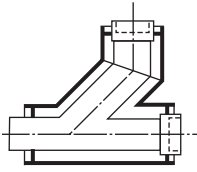
Encase components should only be joined using IPEX Control Units.  
NFRPP is the standard material of construction for all Encase components. FRPP is available on request.



## PRODUCT SELECTION CHART – ENCASE

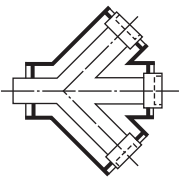
Dimension inches		significant Number	Product Code
Primary	Secondary		

### Reducing Combination Wye & 1/8 Bend Soc x Sp x Soc



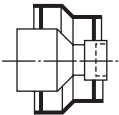
Primary	Secondary	significant Number	Product Code
2 x 1-1/2	4 x 4	204215	231227
3 x 1-1/2	6 x 4	206315	231228
3 x 2	6 x 4	206320	231229
4 x 2	8 x 4	208420	231230
4 x 3	8 x 6	208430	231231
6 x 2	10 x 4	201062	231221
6 x 3	10 x 6	201063	231222
6 x 4	10 x 8	201064	231223
8 x 3	12 x 6	201283	231224
8 x 4	12 x 8	201284	231225
8 x 6	12 x 10	201286	231226

### Double Wye Soc x Sp



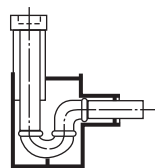
Primary	Secondary	significant Number	Product Code
1-1/2	4	224150	231243
2	4	224200	231244
3	6	226300	231245
4	8	228400	231246
6	10	221060	231241
8	12	221280	231242

### Reducing Coupling Soc x Sp



Primary	Secondary	significant Number	Product Code
2 x 1-1/2	4 x 4	344215	231347
3 x 1-1/2	6 x 4	346315	231348
3 x 2	6 x 4	346320	231349
4 x 1-1/2	8 x 4	348415	231324
4 x 2	8 x 4	348420	231350
4 x 3	8 x 6	348430	231351
6 x 1-1/2	10 x 4	341061	231352
6 x 2	10 x 4	341062	231341
6 x 3	10 x 6	341063	231342
6 x 4	10 x 8	341064	231343
8 x 3	12 x 6	341283	231344
8 x 4	12 x 8	341284	231345
8 x 6	12 x 10	341286	231346

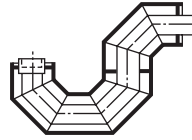
### P-Trap Soc x Sp



Primary	Secondary	significant Number	Product Code
1-1/2	4	374150	231361
2	4	374200	231372

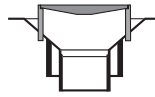
Dimension inches		significant Number	Product Code
Primary	Secondary		

### P-Trap Soc x Sp



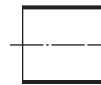
Primary	Secondary	significant Number	Product Code
3	6	376300	231373
4	8	378400	231374
6	10	371060	231371
8	12	371280	231375

### Floor Drain Sp



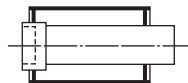
Primary	Secondary	significant Number	Product Code
1-1/2	4	514150	231400
2	4	514200	231402
3	6	516300	231403
4	8	518400	231404
6	10	511060	231401

### End Cap Soc



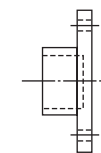
Primary	Secondary	significant Number	Product Code
1-1/2	-	641500	231462
2	-	642000	231463
3	-	643000	231464
4	-	644000	231465
6	-	646000	231466
8	-	648000	231467
10	-	641000	231832
12	-	641200	231833

### End Seal Soc x Sp



Primary	Secondary	significant Number	Product Code
1-1/2	4	664150	231483
2	4	664200	231484
3	6	666300	231485
4	8	668400	231486
6	10	661060	231481
8	12	661280	231482

### Flange - ASA 150 Soc




Primary	Secondary	significant Number	Product Code
1-1/2	-	L361	257361
2	-	L362	257365
3	-	L363	257366
4	-	L364	257367
6	-	L366	257368
8	-	L368	257369
10	-	L3610	257362
12	-	L3612	257363

Encase components should only be joined using IPEX Control Units.  
NFRPP is the standard material of construction for all Encase components. FRPP is available on request

## PRODUCT SELECTION CHART – ENCASE

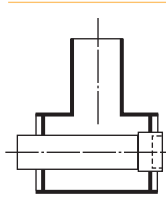
Dimension inches		significant Number	Product Code
Primary	Secondary		

### Blind Flange - ASA 150



1-1/2	-	621500	231453
2	-	622000	231454
3	-	623000	231455
4	-	624000	231456
6	-	626000	231457
8	-	628000	231458
10	-	621000	231451
12	-	621200	231452

### Access Tee Soc x Sp x Sp



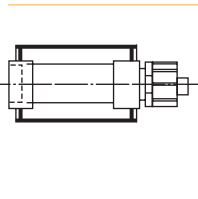
1-1/2	4	544150	231425
2	4	544200	231426
3	6 x 4	540643	231421
4	8 x 4	540844	231422
6	10 x 4	541046	231423
8	12 x 4	541248	231424

### Cleanout Sp



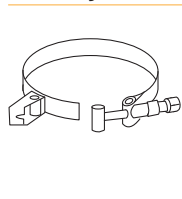
1-1/2	-	L241	257232
2	-	L242	257235
3	-	L243	257238
4	-	L244	257241
6	-	L246	257244

### Cleanout Assembly Soc



1-1/2	4	484150	231383
2	4	484200	231384
3	6	486300	231385
4	8	488400	231386
6	10	481060	231381
8	12	481280	231382

### Primary Hub Clamp c/w Brass Nut



1-1/2	-	L26101P	231741
2	-	L26102P	231742
* 3	-	523000	231411
4	-	L26104P	231743
6	-	L26106P	231744
8	-	L26108P	231745

\* Designed to be left on.

Encase components should only be joined using IPEX Control Units.  
NFRPP is the standard material of construction for all Encase components. FRPP is available on request.


Dimension inches		significant Number	Product Code
Primary	Secondary		

### Secondary Hub Clamp



-	4	L26104	257258
-	6	606000	231444
-	8	608000	231445
-	10	601000	231441
-	12	601200	231442

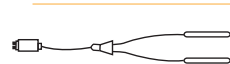
### IPEX Control Unit (Current Style)



-	-	EHHL2600	257279
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Kit includes hub clamps, 1-1/2" thru 6", connector cable & 5' link cable.

### Connector Cable Old Style Machine – Complete Kit



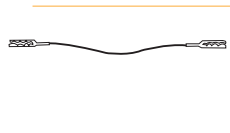
-	-	50802	231302
---	---	-------	--------

### Connector Cable Current Style Machine



-	-	50801	231301
---	---	-------	--------

### Link Cable c/w EZ Connector



2 ft. EZ	4	L26260	257268
5 ft. EZ	6	L26261	257269
10 ft. EZ	8	L26262	257270
15 ft. EZ	10	L26263	257271

### Encase Link Cable c/w Link Lead

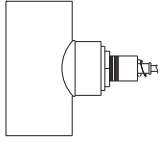


5 ft.	-	50805	257124
-------	---	-------	--------

## PRODUCT SELECTION CHART – ENCASE

Dimension inches		significant Number	Product Code
Primary	Secondary		

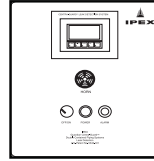
### Above Ground Leak Detection Station with Sensor



4	-	231834	231834
6	-	231835	231835
8	-	231836	231836
10	-	231837	231837

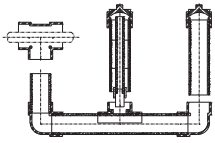
Dimension inches		significant Number	Product Code
Primary	Secondary		

### 8 Zone Micro Processor Panel



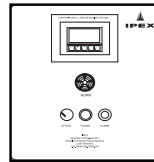
-	-	631188	631248
---	---	--------	--------

### Below Ground Leak Detection Station with Sensor



4	-	231838	231838
6	-	231839	231839
8	-	231840	231840
10	-	231841	231841
12	-	231842	231842

### 16 Zone Micro Processor Panel



-	-	-	631249
---	---	---	--------

### Leak Detection Jumper Cable



-	-	-	631186
---	---	---	--------

Encase components should only be joined using IPEX Control Units.  
NFRPP is the standard material of construction for all Encase components. FRPP is available on request

# ELECTRONIC LOW POINT LEAK DETECTION

## Centra-Guard™

In many situations double containment protection by itself may not be enough. In these applications it is critical that a leak is immediately detected and located.

Although many different leak detection systems are available on the market today, only the Centra-Guard™ patented electronic low point leak-detection system offers a combination of advanced features:

### KEY FEATURES

- No cables to string during installation
- No false alarms due to condensation
- Non-intrusive, re-usable capacitive proximity sensors with sensitivity adjustment
- NEMA 4X enclosed microprocessor control panel with audible and visual alarms
- LCD screen continuously reads system status and reports alarms
- HMI push buttons allow for history, status, and test screens to be accessed
- Multi-level password protection
- Standard output relay for direct communication with plant control systems

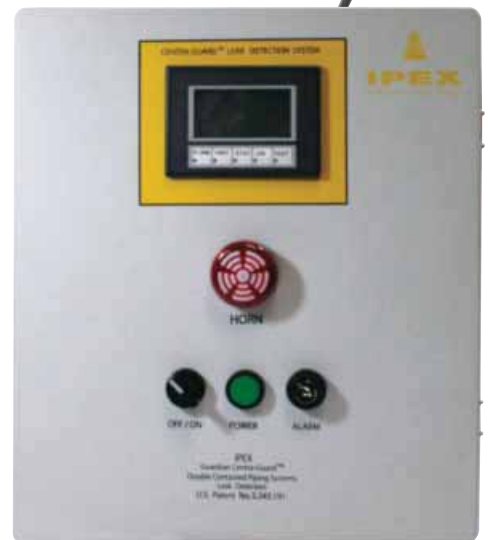
Centra-Guard electronic low point leak detection offers versatility, customization, and lower material, installation and maintenance costs when compared to cable leak detection.

### APPLICATIONS

- Above-ground suspended pipeline applications, with sensors housed in a saddle-type clamp, as well as underground pipeline systems with drip leg assembly.

### OVERVIEW

The basic concept behind electronic low point leak detection is that a Double contained piping system is designed with leak detection zones. Leak detection zones are essentially a drip leg in the containment piping. Each zone is monitored by a sensor that raises an alarm to warn operators that a leak has been detected. The IPEX Centra-Guard leak detection system will identify the type of alarm (i.e. leak or cable break), zone, and time and record it in non-volatile memory as well as relay the signal to a plant control system. This allows operators to quickly rectify the situation. Centra-Guard is the only non-intrusive leak detection system available on the market today. The sensor never comes in contact with the liquid media.



**FOR PRICING  
CONTACT YOUR IPEX  
REPRESENTATIVE.**

# CABLE LEAK DETECTION

## IPEX PAL-AT

IPEX PAL-AT cable leak detection is a microprocessor based system that offers continuous cable leak detection. The system is fully automated and ideal for buried double containment piping applications that require exact leak location.

The IPEX PAL-AT continuous cable leak detection system compliments our Centra-Guard electronic low point leak detection system and adds extra versatility to our extensive double containment offering.

### KEY FEATURES

- Coaxial Sensing Cable with adjustable sensitivity
- Microprocessor based monitoring unit capable of monitoring 2000, 5000, or 7500ft of cable per sensor string
- Panel will identify the type of alarm (leak/break/short/probe) as well as location within 5 feet of the source
- Backlit LCD providing constant system data
- Continuous monitoring even after a leak is detected

### APPLICATIONS

- Underground pipeline systems that require exact leak location detection.

### OVERVIEW

The basic concept behind cable leak detection is that a monitor detects any changes in the electrical properties of the cable caused by contact with a liquid. The cable is pulled through the interstitial space of the containment piping. The monitor then raises an alarm in the plant to warn operators that a leak has been detected. The IPEX PAL-AT detection system will pinpoint the leak and report its location. This allows operators to quickly rectify the situation.

**FOR PRICING  
CONTACT YOUR IPEX  
REPRESENTATIVE.**



## CHOOSE FROM A WIDE RANGE OF SYSTEM OPTIONS

IPEX offers an extremely wide array of materials and sizes. You can specify virtually any piping material to create a system that contains whatever corrosive or hazardous substance your application handles. If you don't see what you need listed here, call us! Other systems or sizes may be available, or we may have suggestions for substitutions.

SYSTEM		Carrier SIZE
Carrier	Containment	inches
PVC 80	PVC 80	1/2 - 12
PVC 80	PVC 40	1/2 - 12
PVC 40	PVC 40	1/2 - 12
PVC DWV	PVC DWV	1-1/2 - 12
PVC 80	CS SCH 10	1/2 - 12
CPVC 80	CPVC 80	1/2 - 8
CPVC 80	PVC 80	1/2 - 12
CPVC 80	PVC 40	1/2 - 12
CPVC 80	CS SCH 10	1/2 - 12
NAT PP 80	PVC 80	1/2 - 2
NAT PP 80	PVC 40	1/2 - 2
RED PVDF 80	CPVC 80	1/2 - 2
RED PVDF 80	PVC 80	1/2 - 2
NAT PVDF 80	PVC 80	1/2 - 2
ENFUSION PP	PVC DWV	1/2 - 6
S40 A53B CS BW	PVC 80	1/2 - 8
S40 A106B CS BW	PVC 80	1/2 - 8
S80 A106B CS SW	PVC 80	1/2 - 8
S40 A53B CS BW	FRP	1/2 - 12
S40 A106B CS BW	FRP	1/2 - 12
S80 A106B CS SW	FRP	1/2 - 2
S40 A53B THRD	PVC 40	1/2 - 2
S40 A106 SMLS BW	PVC 40	1/2 - 8
S40 A53 BLK BS	PVC 40	1/2 - 8
S80 A53 BLK SW	PVC 80	1/2 - 2
S80 A53 BLK SW	FRP	1/2 - 2
S40 A53 BLK SW	S40 A53 BLK	1/2 - 2
S40 A106B CS SW	PVC 80	1/2 - 8
S80 A53B CS BW	PVC 80	1/2 - 8
S80 A106B CS SW	PVC 80	1/2 - 8
S40 A106 CS SW	FRP	1/2 - 2
S80 A53B CS BW	FRP	1/2 - 12
S80 A106B CS BW	FRP	1/2 - 2
S40 A53B THRD	FRP	1/2 - 2
S40 A53 BLK CS	S40 A53 BLK CS	1/2 - 12
S40 A53 BLK SW	PVC 40	1/2 - 2

SYSTEM		Carrier SIZE
Carrier	Containment	inches
S40 A53 BLK SW	FRP	1/2 - 2
S40 A53 BLK SW	PVC 80	1/2 - 2
S80 A53B CS SW	PVC 80	1/2 - 2
S10 T304L SS BW	PVC 80	1/2 - 8
S10 T304L SS BW	PVC 40	1/2 - 8
S10 T0304L SS BW	CPVC 80	1/2 - 8
S10 T304L SS BW	FRP	1/2 - 12
S10 T304L SS BW	S10 T304L	1/2 - 12
S40 T316L SS BW	PVC 80	1/2 - 8
S40 T316L SS BW	CPVC 80	1/2 - 8
S40 T316L SS BW	FRP	1/2 - 12
S40 T304L SS SW	PVC 80	1/2 - 2
S40 T304L SS SW	PVC 40	1/2 - 2
S40 T304L SS SW	CPVC 80	1/2 - 2
S40 T304L SS SW	FRP	1/2 - 2
S10 T316L SS SW	PVC 80	1/2 - 2
S10 T316L SS SW	CPVC 80	1/2 - 2
S10 T316L SS SW	FRP	1/2 - 2
S40 T304L SS BW	PVC 80	1/2 - 8
S40 T304L SS BW	PVC 80	1/2 - 8
S40 T304L SS BW	CPVC 80	1/2 - 8
S40 T304L SS BW	FRP	1/2 - 12
S10 T316L SS BW	PVC 80	1/2 - 8
S10 T316L SS BW	CPVC 80	1/2 - 8
S10 T316L SS BW	FRP	1/2 - 12
S10 T304L SS SW	PVC 80	1/2 - 2
S10 T304L SS SW	PVC 40	1/2 - 2
S10 T304L SS SW	CPVC 80	1/2 - 2
S10 T304L SS SW	FRP	1/2 - 2
S10 T304L SS SW	S10 T304L	1/2 - 2
S40 T316L SS SW	PVC 80	1/2 - 2
S40 T316L SS SW	CPVC 80	1/2 - 2
S40 T316L SS SW	FRP	1/2 - 2
HARD COPPER	PVC 40	1/2 - 4
HARD COPPER	3000 FRP	1/2 - 4

For more than 35 years, IPEX has been supplying industrial, commercial, school and hospital laboratories throughout North America with high-quality, easy-to-install acid waste systems designed to handle a wide variety of chemicals and pH levels. Our comprehensive line of dedicated acid waste conveyance, neutralization and monitoring systems offers innovative features not available with any other system. In fact, IPEX Enfield™ electrofusion and Labline® mechanical joint systems have long been recognized as the industry benchmark for performance and reliability, and are among the most widely specified systems in North America.

Also available through IPEX is the next generation, E-84 compliant Plenumline™ system, made of flame retardant PVDF for extremely demanding applications such as return-air plenums. The complete range of IPEX integrated total solutions for acid waste applications also includes our Neutratank® neutralization tanks, Neutrasystem2™ pH monitoring system, Floway™ drains, and Encase™ double containment systems.

# ACID WASTE PIPING SYSTEMS



Enfield Electrofusion Acid Waste Systems FRPP & NRPP 76

Labline Mechanical-Joint Acid Waste System FRPP 86

Floway Polypropylene Floor Drains 92

Plenumline Mechanical Joint Acid Waste System FR-PVDF 94

Neutratank Neutralization Tank HDPE & PP 100

Neutrasystem 2™ pH Monitoring System 105

# ENFIELD ELECTROFUSION ACID WASTE SYSTEMS

1-1/2" - 12"



Enfield electrofusion fittings are molded with an integral resistance wire in the socket, with jointing completed by energizing the resistance wire via a microprocessor controlled Enfusion Control Unit. The result of these innovations is an unparalleled level of joint reliability and repeatability. Enfield has proven over time that it produces the optimum level of performance where it matters most - at the joint interface. It offers unprecedented control of jointing - controlled fit, controlled temperature and controlled time.

## ADVANTAGES

- 1 **Positive reliable joints** made in 2 minutes - installation time is reduced
- 2 **Several joints can be made at one time**
- 3 **Proven reliability** for over a decade
- 4 **Enfield is manufactured from polypropylene** which has an operating temperature range from -10°F to 212°F. \*This allows systems to be flushed with boiling water
- 5 **Heavy gauge resistance wire** molded into sockets - no loose components, controlled fusion of joints
- 6 **Easy connecting** heavy duty socket terminal posts complete with protection ears
- 7 **Microprocessor controlled Enfusion unit** ensures secure joints and joint repeatability
- 8 **Matched system** - high quality pipe and fittings are matched to give ease of installation and long term reliability
- 9 **Easy to install** - even in difficult areas
- 10 **Installed cost 50% less than glass**
- 11 **Breakage factor eliminated**
- 12 **Maintenance free**

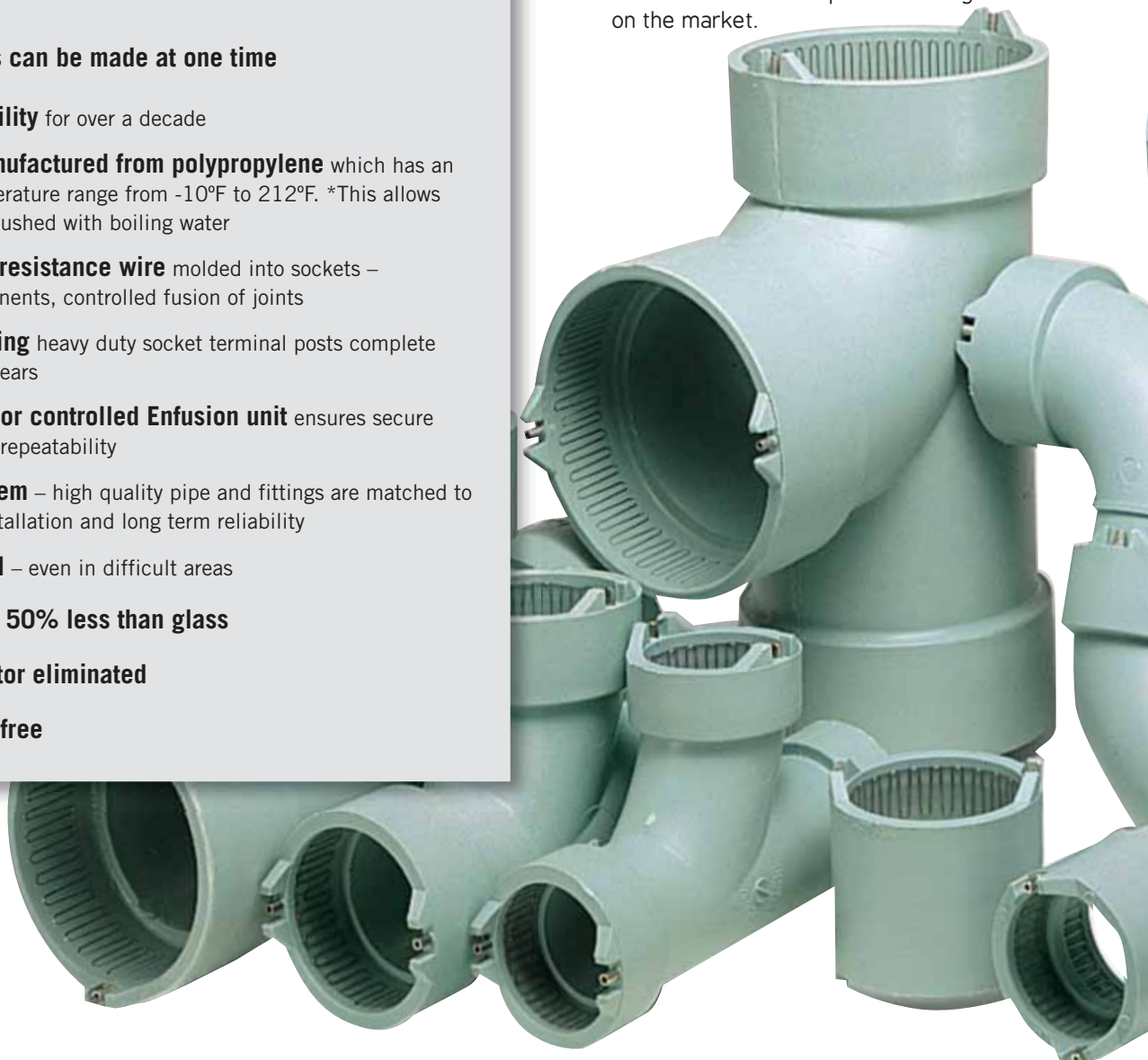
## STANDARDS



NSF-approved  
IAPMO-listed & CSA-certified  
Meets ASTM F1412, D4101 and CSA B181.3

## DID YOU KNOW?

Enfield® offers polypro fittings, constructed with a heavy gauge resistance wire that is integrally molded into the socket. These are considered to be the premier fittings on the market.





## SHORT FORM SPECIFICATIONS

### GENERAL

Acid waste drain and vent system, as shown on drawings, shall be NSF listed and CSA certified Schedule 40, polypropylene as manufactured by IPEX. System to include pipe supplied in 10 ft. lengths (or 20 ft lengths if NFRPP is specified), fittings, traps and neutralization tanks from the same manufacturer. It shall also include recommended adapters to connect to other piping materials, where applicable.

### MATERIAL

Pipe shall be made from NSF listed Type 110 or 210, flame retardant polypropylene conforming to ASTM D4101, with a maximum average flame spread of zero seconds and a maximum extent of burning of 13 mm, in accordance with ASTM D635. Matched fittings shall be made from NSF listed flame retardant polypropylene with average maximum burn time of 80 seconds and maximum extent of burning of 20 mm in accordance with ASTM D635.

If NFRPP pipe is specified, it shall be made from NSF 14 listed and CSA certified Schedule 40 PP as manufactured by IPEX. Pipe shall comply with ASTM F1412 and material used shall comply with the material requirements of ASTM D4101.

### FITTINGS

Fittings shall be NSF listed and have an integral heavy gauge, nickel/chrome electrical resistance wire molded in place in the fitting body. Copper wire elements, loose wire or other loose joint components, are prohibited. Fittings shall be Enfield or approved equal.

### JOINTS

Connections between polypropylene pipe and fittings shall be made using the Enfield joint. All joints shall have a fusion cycle controlled by a microprocessor operated, waterproof, Enfusion control unit equipped with input and output voltage sensors, ambient temperature sensors to automatically adjust fusion time and audible alarms to indicate cycle interruptions and completion of the joining process. The unit shall be capable of fusing multiple joints and with a minimum capability of eight 2" joints with the same fusion time as a single joint.

Connections between polypropylene and other piping materials shall be made using Enfield adapters according to manufacturer's (IPEX) recommendations. All electrofusion machines shall be third party certified by UL and CSA.

### INSTALLATION AND TESTING


Installation and testing shall be in accordance with the contract drawings, the manufacturer's recommendations and the local plumbing codes. Testing with compressed air is prohibited. The entire system shall be installed free of stress and in proper alignment. Horizontal supports shall provide a wide bearing area and be free of burrs or sharp edges. Support spacings shall be in accordance with the manufacturer's recommendations and local plumbing codes. Vertical piping shall have riser clamps at each floor. Pipe supports should be installed so that horizontal piping is in uniform alignment and with a uniform slope of at least 1/8".



## PRODUCT SELECTION CHART – ENFIELD

Dimension inches	Significant Number	Product Code
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### AW Polypropylene Pipe Flame Retardant Sch 40



1-1/2	W001	146001
2	W002	146002
3	W003	146003
4	W004	146004
6	W006	146006
8	W008	146008
10	W010	146010
12	W012	146012

10' Lengths

### AW Polypropylene Pipe Flame Retardant Sch 80



1-1/2	WT001	146013
2	WT002	146014
3	WT003	146015
4	WT004	146016

10' Lengths

### AW Polypropylene Pipe Black Non-Flame Retardant Sch 40



1-1/2	WB01	146101
2	WB02	146102
3	WB03	146103
4	WB04	146104
6	WB06	146106
8	WB08	146108
10	WB10	146110
12	WB12	146212

20' Lengths


### Black Non-Flame Retardant Enfield Coupling



2	L162B	257147
3	L163B	257150
4	L164B	257154
6	L166B	257158
8	L168B	257161
10	L1610B	257143
12	L1612B	257145

Dimension inches	Significant Number	Product Code
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### AW Polypropylene Pipe Flame Retardant Sch 40



1-1/2	W001-20	146031
2	W002-20	146032
3	W003-20	146033
4	W004-20	146034
6	W006-20	146036
8	W008-20	146038
10	W010-20	146040
12	W012-20	146042

20' Lengths

Note: 20' Schedule 40 FR pipe is a non-stock item available upon special request.

### AW Polypropylene Pipe Flame Retardant Sch 80




1-1/2	WT001-20	146022
2	WT002-20	146023
3	WT003-20	146024
4	WT004-20	146025

20' Lengths

Note: 20' Schedule 80 FR pipe is a non-stock item available upon special request.


### AW Polypropylene Pipe Black Non-Flame Retardant Sch 80



1-1/2	WB1106	146201
2	WB1107	146202
3	WB1108	146203
4	WB1109	146204
6	WB1110	146206
8	WB1111	146208
10	WB1112	146210
12	WB1113	146211


20' Lengths

### Coupling EJ



1-1/2	L161	257141
2	L162	257146
3	L163	257149
4	L164	257153
6	L166	257157
8	L168	257160
10	L1610	257142
12	L1612	257144

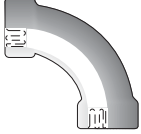
### Fabricated Repair Coupling EJ

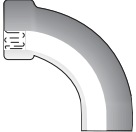



2	L162R	257148
3	L163R	257152
4	L164R	257156
6	L166R	257159
8	L168R	257295


IPEX components are dimensionally matched; do not install system of mixed brands without our expressed written consent.

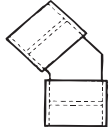
## PRODUCT SELECTION CHART – ENFIELD


	Dimension inches	Significant Number	Product Code
	1-1/2	L171	257171
	2	L172	257172
	3	L173	257173
	4	L174	257174
	6	L176	257175


	Dimension inches	Significant Number	Product Code
	1-1/2	L281	257281
	2	L282	257282
	3	L283	257283
	4	L284	257284
	6	L286	257286


	Dimension inches	Significant Number	Product Code
	1-1/2	L191	257191
	2	L192	257194
	3	L193	257195
	4	L194	257196
	6	L196	257197

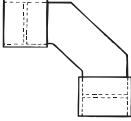
	Dimension inches	Significant Number	Product Code
	1-1/2	L211	257221
	2	L212	257222
	3	L213	257223
	4	L214	257224
	6	L216	257225

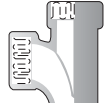
	Dimension inches	Significant Number	Product Code
	8	L198	257198
	10	L1910	257192
	12	L1912	257193

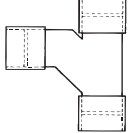
	Dimension inches	Significant Number	Product Code
	1-1/2	L181	257181
	2	L182	257184

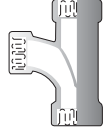
	Dimension inches	Significant Number	Product Code
	1-1/2	L291	257291
	2	L292	257293

	Dimension inches	Significant Number	Product Code
	1-1/2	L291 A	257292

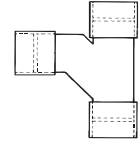
	Dimension inches	Significant Number	Product Code
	8	L188	257185
	10	L1810	257182
	12	L1812	257183

	Dimension inches	Significant Number	Product Code
	1-1/2	L201	257201
	2	L202	257206
	3	L203	257208
	4	L204	257211

	Dimension inches	Significant Number	Product Code
	6	L206	257214
	8	L208	257217
	10	L2010	257202
	12	L2012	257205

	Dimension inches	Significant Number	Product Code
	2 x 1-1/2	L2021	257207
	* 3 x 1-1/2	L2031	257209
	* 3 x 2	L2032	257210
	4 x 2	L2042	257212
	* 4 x 3	L2043	257213

\* Assembled

	Dimension inches	Significant Number	Product Code
	6 x 2	L2062	257215
	6 x 4	L2064	257216
	8 x 3	L2083	257163
	8 x 4	L2084	257218
	8 x 6	L2086	257219
	10 x 3	L20103	257164
	10 x 4	L20104	257203
	10 x 6	L20106	257204
	10 x 8	L20108	257165
	12 x 4	L20124	257166
	12 x 6	L20126	257167
	12 x 8	L20128	257168
	12 x 10	L201210	257169

IPEX components are dimensionally matched; do not install system of mixed brands without our expressed written consent.

## PRODUCT SELECTION CHART – ENFIELD

Dimension inches	Significant Number	Product Code
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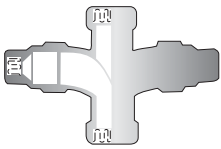
### Double Sanitary Tee EJ



† 1-1/2	L351	257351
2	L352	257352
3	L353	257354
4	L354	257357

† Fabricated

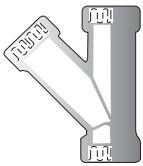
### Reducing Double Sanitary Tee EJ



* 2 x 1-1/2	L3521	257353
* 3 x 1-1/2	L3531	257355
4 x 2	L3542	257358
* 4 x 3	L3543	257359

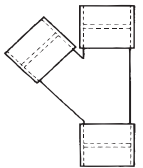
\* Assembled

### 45° Wye EJ



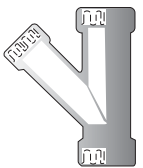
1-1/2	L371	257371
2	L372	257390
3	L373	257394
4	L374	257400
6	L376	257406

### Fabricated 45° Wye EJ



8	L378	257414
10	L3710	257372
12	L3712	257381

### Reducing Wye EJ

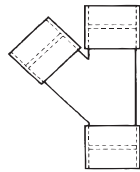


2 x 1-1/2	L3721	257391
* 3 x 1-1/2	L3731	257395
3 x 2	L3732	257396
* 4 x 1-1/2	L3741	257425
4 x 2	L3742	257401
* 4 x 3	L3743	257402
* 6 x 1-1/2	L3761	257426
* 6 x 2	L3762	257407
* 6 x 3	L3763	257408
6 x 4	L3764	257409

\* Assembled

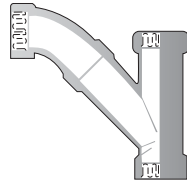
Dimension inches	Significant Number	Product Code
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### Fabricated Reducing Wye EJ



8 x 2	L3782	257427
8 x 3	L3783	257415
8 x 4	L3784	257416
8 x 6	L3786	257421
10 x 3	L37103	257428
10 x 4	L37104	257373
10 x 6	L37106	257379
10 x 8	L37108	257380
12 x 3	L37123	257429
12 x 4	L37124	257383
12 x 6	L37126	257387
12 x 8	L37128	257388
12 x 10	L371210	257430

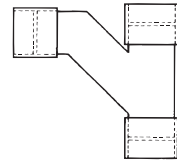
### Combination Wye & 1/8 Bend (Long Turn Wye) EJ



* 1-1/2	L3715	257389
* 2	L3725	257392
* 3	L3735	257397
* 4	L3745	257403
* 6	L3765	257410

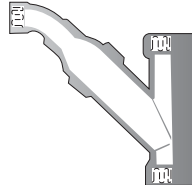
\* Assembled

### Fabricated Combination Wye & 1/8 Bend EJ



8	L3785	257417
10	L37105	257374
12	L37125	257384

### Reducing Combination Wye & 1/8 Bend EJ



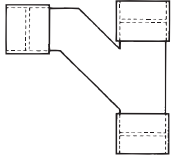
* 2 x 1-1/2	L37251	257393
* 3 x 1-1/2	L37351	257398
* 3 x 2	L37352	257399
* 4 x 1-1/2	L37451	257431
* 4 x 2	L37452	257404
* 4 x 3	L37453	257405
* 6 x 1-1/2	L37651	257432
* 6 x 2	L37652	257411
* 6 x 3	L37653	257412
* 6 x 4	L37654	257413

\* Assembled

## PRODUCT SELECTION CHART – ENFIELD

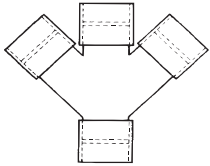
Dimension inches	Significant Number	Product Code
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### Fabricated Reducing Combination Wye & 1/8 Bend EJ



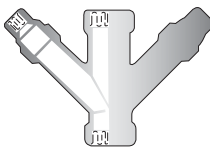
8 x 3	L37853	257418
8 x 4	L37854	257419
8 x 6	L37856	257420
10 x 3	L371053	257375
10 x 4	L371054	257376
10 x 6	L371056	257377
10 x 8	L371058	257378
12 x 3	L371253	257433
12 x 4	L371254	257434
12 x 6	L371256	257435
12 x 8	L371258	257386
12 x 10	L3712510	257385

### Fabricated Double 45° Wye EJ



2	L382	257445
3	L383	257448
4	L384	257452
6	L386	257457
8	L388	257460
10	L3810	257442
12	L3812	257462

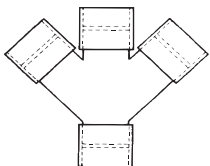
### Reducing Double 45° Wye EJ



* 6 x 4	L3864	257458
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\* Assembled

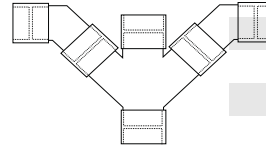
### Fabricated Reducing Double 45° Wye EJ



2 x 1-1/2	L3821	257446
3 x 2	L3832	257449
4 x 2	L3842	257453
4 x 3	L3843	257454
8 x 6	L3886	257461
10 x 4	L38104	257443
10 x 6	L38106	257463
10 x 8	L38108	257444
12 x 4	L38124	257464
12 x 6	L38126	257465
12 x 8	L38128	257466
12 x 10	L381210	257467

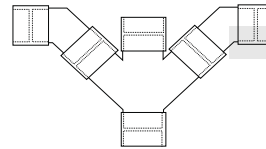
Dimension inches	Significant Number	Product Code
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### Fabricated Double Combination Wye & 1/8 Bend EJ



2	L3825	257447
3	L3835	257450
4	L3845	257455
6	L3865	257459

### Fabricated Reducing Double Combination Wye & 1/8 Bend EJ



3 x 2	L38352	257451
4 x 2	L38452	257456

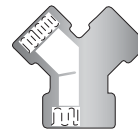
### True Wye EJ



1-1/2	**	L341	257341
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\*\* While quantities last. Obsolete when stock depleted.

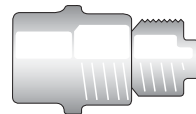
### Reducing True Wye EJ



2 x 1-1/2	**	L3421	257343
3 x 2	**	L3432	257344

\*\* While quantities last. Obsolete when stock depleted.

### Cleanout P w/ Plug Sp



1-1/2	L241	257232
2	L242	257235
3	L243	257238
4	L244	257241
† 6	L246	257244

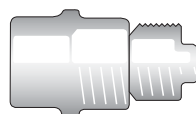
† Fabricated

### Cleanout Plug Male Thread



1-1/2	L241A	257233
2	L242A	257236
3	L243A	257239
4	L244A	257242

### Cleanout w/ Brass Plug Sp



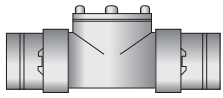
1-1/2	L2401	257246
2	L2402	257231
3	L2403	257247
4	L2404	257248

IPEX components are dimensionally matched; do not install system of mixed brands without our expressed written consent.

## PRODUCT SELECTION CHART – ENFIELD

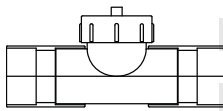
Dimension inches	Significant Number	Product Code
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### Molded Cleanout Tee EJ



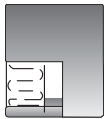
2	L902M	257176
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### Fabricated Cleanout Tee EJ



1-1/2	L901	257551
2	L902	257552
3	L903	257553
4	L904	257554
6	L906	257555

### Fabricated Cap EJ



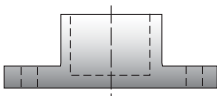
1-1/2	L641	257541
2	L642	257543
3	L643	257544
4	L644	257545
6	L646	257546
8	L648	257547
10	L6410	257542
12	L6412	257548

### Flange - ASA 150 EJ



1-1/2	L361	257361
2	L362	257365
3	L363	257366
4	L364	257367
6	L366	257368

### Fabricated Flange - ASA 150 EJ



8	L368	257369
10	L3610	257362
12	L3612	257363

### Fabricated Blind Flange - ASA 150



8	L3688	257370
10	L361010	257360
12	L361212	257364

Dimension inches	Significant Number	Product Code
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### Reducing Bushing Sp x EJ



2 x 1-1/2	L3912	257472
3 x 1-1/2	L3913	257473
3 x 2	L3923	257476
* 4 x 1-1/2	L3914	257474
4 x 2	L3924	257477
4 x 3	L3934	257479
6 x 1-1/2	L3916	257475
* 6 x 3	L3936	257480
6 x 4	L3946	257483
* 8 x 3 **	L3938	257481
* 8 x 4	L3948	257484
8 x 6	L3968	257486
* 10 x 4	L39410	257482
* 10 x 6	L39610	257485
10 x 8	L39810	257487
† 12 x 4	L39412	257489
† 12 x 6	L39612	257490
† 12 x 8	L39812	257488
† 12 x 10	L391012	257471

\* Assembled

† Fabricated

\*\* Discontinued when stock is depleted

### Adapter Female Thread x LN

1-1/2	L101	257101
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### Adapter EJ x LN

1-1/2	L111	257111
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### Male Adapter EJ x Male Thread

1-1/2	L141	257121
2	L142	257122




### Female Adapter EJ x Female Thread

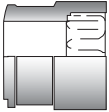
1-1/2	L151	257131
2	L152	257132




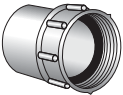
IPEX components are dimensionally matched; do not install system of mixed brands without our expressed written consent.

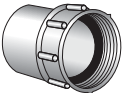
## PRODUCT SELECTION CHART – ENFIELD

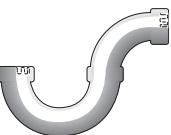
	Dimension inches	Significant Number	Product Code
<b>Glass Adapter</b> EJ x Bead 	1-1/2	L451	257501
	2	L452	257502
	3	L453	257503
	4	L454	257504

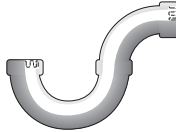
	Dimension inches	Significant Number	Product Code
<b>No Hub Adapter</b> EJ x Sp 	1-1/2	L461	257511
	† 2	L462	257512
	† 3	L463	257513
	† 4	L464	257514
	† Fabricated		

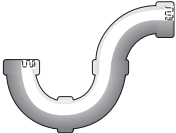
	Dimension inches	Significant Number	Product Code
<b>3"/12" FRPP Tail Piece Adapter</b> 	1-1/2 x 3	W303	257133
	1-1/2 x 12	W3012	257134
	c/w Spig x Brass Compression Ring		


	Dimension inches	Significant Number	Product Code
<b>1-1/2" x 12" FRPP Swivel Sink Strainer Adapter</b> Spg x Female Thread 	1-1/2 x 12	W5512	257090
	c/w Viton® Gasket		


	Dimension inches	Significant Number	Product Code
<b>FRPP Swivel Sink Strainer Adapter</b> Spg x Female Thread 	1-1/2	W551	257093
	* 1-1/2	W551G	156450
	c/w Viton® Gasket *Pregrooved for Labline. Nut and Olive are extra.		

	Dimension inches	Significant Number	Product Code
<b>P Trap - 2 piece</b> EJ 	1-1/2	L1021	257104
	2	L1022	257105
	Shipped as 2 pieces		

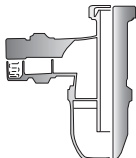
	Dimension inches	Significant Number	Product Code
<b>Fabricated P Trap - 2 piece</b> EJ 	8	LT18	257566
	10	LT110	257562
	Shipped as 2 pieces		

	Dimension inches	Significant Number	Product Code
<b>P Trap - 3 piece</b> EJ 	3	LT13	257563
	4	LT14	257564
	6	LT16	257565
	Shipped as 3 pieces		

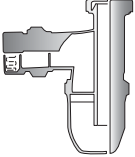
	Dimension inches	Significant Number	Product Code
<b>Pipe Clip</b> 	* 1-1/2	W251	156251
	* 2	W252	156252
	* Obsolete when stock depleted		

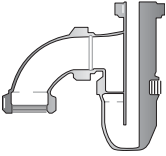
	Dimension inches	Significant Number	Product Code
<b>Cobra Pipe Clip – Polypropylene</b> 	3/8	434305	437340
	1/2	434306	437341
	3/4	434307	437342
	1	434308	437343
	1-1/4	434309	437344
	1-1/2	434310	437345
	2	434311	437346
	2-1/2	434312	437347
	3	434313	437348
	4	434314	437349
	6	434317	437432

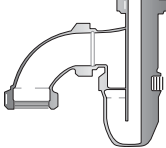
Note: 3/8" 1/2", 3/4" and 1" pipe clips are supplied without retaining bands.


	Dimension inches	Significant Number	Product Code
<b>Universal Trap - Solid Base, P Type</b> EJ x Female Thread 	1-1/2	L501	257521
	1-1/2	L5011	257522


## PRODUCT SELECTION CHART – ENFIELD


	Dimension inches	Significant Number	Product Code
	1-1/2	L511	257531
	1-1/2	L5111	257532

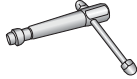
	1-1/2	L5015	257523
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	1-1/2	L5115	257533
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Fabricated Expansion Joint			
	3	L803	257107
	4	L804	257108
	6	L806	257109

Enfusion Control Unit - Complete Kit			
	-	EHHL2600	257279
	Kit includes hub clamps, 1 1/2" thru 6", connector cable & 5' link cable.		


Enfusion Hub Clamp - New T Bar Handle & Bushing			
	1-1/2	L26101	257254
	2	L26102	257256
	3	L26103	257257
	4	L26104	257258
	6	L26106	257259
	8	L26108	257260
	10	L261010	257255
	12	L261212	257262


	Dimension inches	Significant Number	Product Code
	1-1/2 to 12	L2610T	257125


Oil Impregnated Brass Bushings for Clamps			
	1-1/2 to 12	L2610B	257094

Connector Cable - Current Style Machine			
	-	L26801	257278

Connector Cable - Old Style Machine			
	-	L26201	257263

Connector Cable - EZ Connector Cable			
	-	L26901	257294

Link Cable c/w EZ Connector			
	2 ft. EZ	L26260	257268
	5 ft. EZ	L26261	257269
	10 ft. EZ	L26262	257270
	15 ft. EZ	L26263	257271

Link Cable c/w Link Lead			
	5 ft.	L26251	257265
	10 ft.	L26252	257266
	15 ft.	L26253	257267

Fuses			
	16 AMP	P52690	257801



# Health Care Systems



## At IPEX you get more than products. You get our knowledge.

You get more than just purity with Enpure™. You get peace of mind. Enpure is one of the most complete and dependable pure-water thermoplastic piping systems available today. From the manufacturing of cosmetics to solutions for medical use, from pure-water lab applications to dialysis machines, Enpure is designed to meet all challenges. Manufactured with FDA approved materials, Enpure natural polypropylene pipe, valves and fittings eliminate the potential of contamination to your pure process.

And, unlike conventional systems, Enpure is designed as a socket fusion system. No hazardous chemicals are used for joining. Connections are as "clean" as any other components in the system.



For more than 35 years IPEX has provided laboratories throughout North America with complete acid waste systems designed to take a variety of chemicals. Pour it, flush it or dump it – from school labs to industrial labs, Enfield™ FRPP & NRFP, Labline® polypro, and Plenumline™ FR-PVDF acid waste systems are built to handle it.

Enfield electrofusion along with Labline & Plenumline mechanical joints have revolutionized the industry – and they continue to be regarded as state-of-the-art. Labline and Plenumline also feature a new no-heat Elastolive for quicker installation and higher performance.

Backed by IPEX's 65 years of experience, Enpure, Enfield, Labline and Plenumline are built to our strict quality, performance and dimensional standards.

**enpure™**  
HIGH PURITY PP SYSTEM

**ENFIELD™**  
ELECTROFUSION ACID WASTE SYSTEM

**LABLINE®**  
MECHANICAL JOINT ACID WASTE SYSTEM

**PLENUMLINE™**  
FR-PVDF MECHANICAL JOINT ACID WASTE SYSTEM



**Acid Waste Systems**

We build tough products for tough environments®

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# LABLINE MECHANICAL JOINT ACID WASTE SYSTEMS

1-1/2" - 4"

## LABLINE®

Labline (Mechanical Joint) has displaced the more expensive and difficult to install glass and metal systems. Gone is the need for fusing, caulking or welding of joints. Joining of the Labline System is complete in just 30 seconds and once the nut is locked into place, the end-user is assured of many years of trouble-free service. Yet, because it is a mechanical joint, the system can be easily dismantled and re-used, making it ideal for modular designs and for systems that may require re-modeling in the future.

### STANDARDS



NSF-approved  
IAPMO-listed & CSA-certified  
Meets ASTM F1412, D4101 and CSA B181.3

### DID YOU KNOW?

Both Labline® and Plenumline™ contain no-heat Elastolives™ for quick installation and high performance.

### ADVANTAGES

- 1 **30 second jointing** – save on installation time
- 2 **Proven reliability** for over 30 years
- 3 **Labline is manufactured from polypropylene** which has an operating temperature range from -10°F to 212°F.  
\*This allows systems to be flushed with boiling water
- 4 **All plastic construction** – no galvanic action, electrolysis or corrosion in the joint
- 5 **Simple, inexpensive, non-temperamental tools**
- 6 **Easy to install**, even in difficult areas
- 7 **Mastered by plumbers in minutes.**  
No pre-heating required to install olive
- 8 **System changes during installation can be done without spoiling fittings**
- 9 **Can be disassembled and re-used**
- 10 **Ideal for modular systems**
- 11 **Ideal for remodeling**
- 12 **Matched system** – high quality pipe and fittings are matched to give ease of installation and long term reliability



## SHORT FORM SPECIFICATIONS

### GENERAL

Acid waste drain and vent system, as shown on drawings, shall be NSF listed, Schedule 40, polypropylene as manufactured by IPEX to include pipe supplied in 10 ft. lengths (or 20 ft lengths if NFRPP is specified), and matched fittings, traps and neutralization tanks from the same manufacturer. It shall also include recommended adapters to connect to other piping materials, where applicable.

### MATERIAL

Pipe shall be made from NSF listed Type 110 or 210, flame retardant polypropylene conforming to ASTM D4101, with a maximum average flame spread of zero seconds and a maximum extent of burning of 13 mm, in accordance with ASTM D635. Matched fittings shall be made from NSF listed flame retardant polypropylene with average maximum burn time of 80 seconds and maximum extent of burning of 20 mm in accordance with ASTM D635.

If NFRPP pipe is specified, it shall be made from NSF 14 listed and CSA certified Schedule 40 PP as manufactured by IPEX. Pipe shall comply with ASTM F1412 and material used shall comply with the material requirements of ASTM D4101.

### FITTINGS

Fittings shall be NSF listed, be of all plastic construction and be designed to lock into a machined groove on the mating piping. All fittings shall have integrally molded union connections. No metallic grab rings or clamps shall be allowed. Fittings containing EVA (ethylene vinyl acetate) are strictly prohibited. Couplings shall not be added to make mechanical joint fittings. Fittings shall be Labline or approved equivalent.

### JOINTS

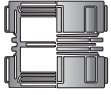
Connections between polypropylene pipe and matched fittings shall be made using the Labline Joint.

### INSTALLATION AND TESTING

Installation and testing shall be in accordance with the contract drawings, the manufacturer's recommendations and the local plumbing codes. Testing with compressed air is prohibited. The entire system shall be installed free of stress and in proper alignment. Horizontal supports shall provide a wide bearing area and be free of burrs or sharp edges. Support spacings shall be in accordance with the manufacturer's recommendations and local plumbing codes. Vertical piping shall have riser clamps at each floor. Pipe supports shall be installed so that horizontal piping is in uniform alignment and with a uniform slope of at least 1/8" per foot, or in accordance with the local plumbing codes.



## PRODUCT SELECTION CHART – LABLINE

	Dimension inches	Significant Number	Product Code
	1-1/2	W161	156161
	2	W162	156162
	3	W163	156163
	4	W164	156164

### 1/8 Bend (45°)

	1-1/2	W191	156191
	2	W192	156192
	3	W193	156193
	4	W194	156194


### Loose Nut 1/8 Bend (45°) MJ x LN

	1-1/2	W211	156216
	2	W212	156217
	3	W213	156218
	4	W214	156219

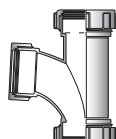
### 1/4 Bend (90°)

	1-1/2	W181	156181
	2	W182	156182
	3	W183	156183
	4	W184	156184

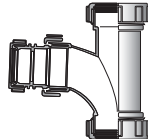
### Loose Nut 1/4 Bend (90°) MJ x LN

	1-1/2	W291	156291
	2	W292	156292
	3	W293	156293
	4	W294	156294

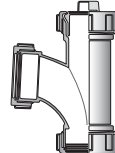
### Sanitary Tee

	1-1/2	W201	156201
	2	W202	156203
	3	W203	156206
	4	W204	156210

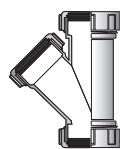
### Reducing Sanitary Tee

	* 2 x 1-1/2	W2021	156204
	* 3 x 1-1/2	W2031	156207
	* 3 x 2	W2032	156208
	* 4 x 1-1/2	W2041	156211
	* 4 x 2	W2042	156212
	* 4 x 3	W2043	156213
* Assembled			

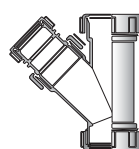
### Cleanout Tee

	1-1/2	W2015	156202
	2	W2025	156205
	3	W2035	156209
	4	W2045	156214

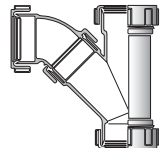
### 45° Wye

	1-1/2	W371	156361
	2	W372	156363
	3	W373	156367
	4	W374	156373

### Reducing 45° Wye

	* 2 x 1-1/2	W3721	156364
	* 3 x 1-1/2	W3731	156368
	* 3 x 2	W3732	156369
	* 4 x 1-1/2	W3741	156374
	* 4 x 2	W3742	156375
	* 4 x 3	W3743	156376
* Assembled			

### Combination Wye & 1/8 Bend

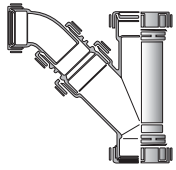
	* 1-1/2	W3715	156362
	* 2	W3725	156365
	* 3	W3735	156370
	* 4	W3745	156377
* Assembled			

All Labline fittings are furnished assembled with Olives and Union Nuts. IPEX components are dimensionally matched; do not install system of mixed brands without our expressed written consent.

## PRODUCT SELECTION CHART – LABLINE

Dimension inches	Significant Number	Product Code
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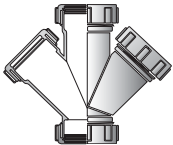
### Reducing Combination Wye & 1/8 Bend



* 2 x 1-1/2	W37251	156366
* 3 x 1-1/2	W37351	156371
* 3 x 2	W37352	156372
* 4 x 1-1/2	W37451	156380
* 4 x 2	W37452	156378
* 4 x 3	W37453	156379

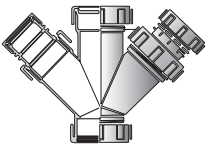
\* Assembled

### Double Wye



1-1/2	W381	156381
2	W382	156383
3	W383	156387
4	W384	156392

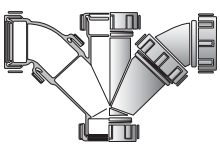
### Reducing Double Wye



* 2 x 1-1/2	W3821	156384
* 3 x 1-1/2	W3831	156388
* 3 x 2	W3832	156389
* 4 x 1-1/2	W3841	156405
* 4 x 2	W3842	156393
* 4 x 3	W3843	156394

\* Assembled

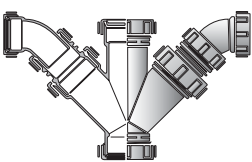
### Double Wye & 1/8 Bend



* 1-1/2	W3815	156382
* 2	W3825	156385
* 3	W3835	156390
* 4	W3845	156395

\* Assembled

### Reducing Double Wye & 1/8 Bend

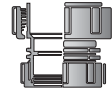


* 2 x 1-1/2	W38251	156386
* 3 x 1-1/2	W38351	156406
* 3 x 2	W38352	156391
* 4 x 1-1/2	W38451	156407
* 4 x 2	W38452	156396
* 4 x 3	W38453	156408

\* Assembled

Dimension inches	Significant Number	Product Code
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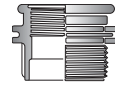
### Reducing Coupling LN x MJ



2 x 1-1/2	W3921	156397
3 x 1-1/2	W3931*	156398
3 x 2	W3932*	156400
4 x 1-1/2	W3941*	156399
4 x 2	W3942*	156401
4 x 3	W3943	156402

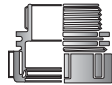
\* Loose nut not furnished

### Threaded Adapter Male Thread x Female Thread



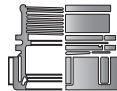
1-1/2 x 1-1/4	W121	156121
1-1/2 x 1-1/2	W131	156131

### Male Adapter MJ x Male Thread



1-1/2	W141T	156141
2	W142	156142
3	W143	156143
4	W144	156144

### Female Adapter MJ x Female Thread



1-1/2	W151	156151
2	W152	156152

### Glass Adapter MJ x Bead



1-1/2	W451	156451
2	W452	156452
3	W453	156453
4	W454	156454


### No Hub Adapter MJ x Spigot




1-1/2	W461	156461
2	W462	156462
3	W463	156463
4	W464	156464

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## PRODUCT SELECTION CHART – LABLINE

	Dimension inches	Significant Number	Product Code
	1-1/2	W241	156241
	2	W242	156242
	3	W243	156243
	4	W244	156244

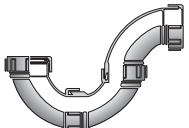
**Vent Loop U Bend**

	Dimension inches	Significant Number	Product Code
	1-1/2	W1011	156101
	2	W1012	156102


**P Trap - 2 Piece**

	Dimension inches	Significant Number	Product Code
	1-1/2	W1021	156103
	2	W1022	156104


**P Trap - 3 piece Long Radius**

	Dimension inches	Significant Number	Product Code
	1-1/2	WT11	156711
	2	WT12	156712
	3	WT13	156713
	4	WT14	156714

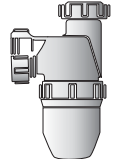
**S Trap - 3 Piece**

	Dimension inches	Significant Number	Product Code
	1-1/2	W1031	156105
	2	W1032	156106

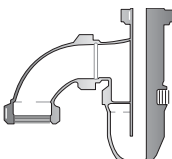
**Running Trap - 3 Piece**

	Dimension inches	Significant Number	Product Code
	1-1/2	W1041	156107
	2	W1042	156108


**Universal Trap Female Thread x MJ**

	Dimension inches	Significant Number	Product Code
	1-1/2	W501	156501
	*1-1/2	W511	156511
	*Transparent Base		
	-	W5112	156512
	PP Base Only		
	-	W5113	156513
	Clear Base Only		
	-	W5114	156514
	O-ring Gasket Only		
	-	W5116	156516
Top Assembly For W501 & W511			

**Universal Trap, S-Type Female Thread x MJ**

	Dimension inches	Significant Number	Product Code
	1-1/2	W5015	156502
	* 1-1/2	W5115	156515
	* Transparent Base		

**Sink Outlet w/ Plug**

	Dimension inches	Significant Number	Product Code
	1-1/2 – 3-3/8	W301B (Black)	156303
	1-1/2 – 2-7/8	W311B (Black)	156311
	-	W3012B	156302
(Lock Nut For W301B)			

**Sink Outlet Plug**

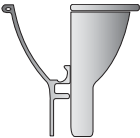
	Significant Number	Product Code
W3011B (Black)	156301	
W3011W (White)	156305	


**Sink Overflow**

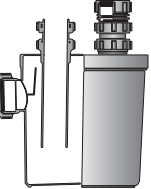
	Dimension inches	Significant Number	Product Code
	1-1/2	W321B (Black)	156321

All Labline fittings are furnished assembled with Olives and Union Nuts. IPEX components are dimensionally matched; do not install system of mixed brands without our expressed written consent.

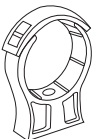
## PRODUCT SELECTION CHART – LABLINE

	Dimension inches	Significant Number	Product Code
	6 x 4 Deep	W401B	156403
	4 x 4 Deep	W402	156404
	plug	W4011B	156409
	(Plug for W401B)		

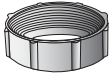
	Dimension inches	Significant Number	Product Code
	6 x 3	W497	156491
	9 x 3	W498	156493
	nut	W4971	156492
	(Nut for W497)		

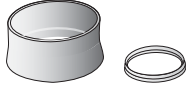
	Dimension inches	Significant Number	Product Code
	1-1/2	W601	156601
	* 1-1/2	W611	156611
* Transparent Base			

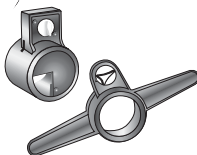
	Dimension inches	Significant Number	Product Code
	* 1-1/2	W251	156251
	* 2	W252	156252
* Obsolete when stock depleted			


	Dimension inches	Significant Number	Product Code
	3/8	434305	437340
	1/2	434306	437341
	3/4	434307	437342
	1	434308	437343
	1-1/4	434309	437344
	1-1/2	434310	437345
	2	434311	437346
	2-1/2	434312	437347
	3	434313	437348
4	434314	437349	

Note: 3/8" 1/2", 3/4" and 1" pipe clips are supplied without retaining bands.


	Dimension inches	Significant Number	Product Code
	1-1/2	W231	156231
	2	W232	156232
	3	W233	156233
	4	W234	156234

	Dimension inches	Significant Number	Product Code
	1-1/2	W221NH	156222
	2	W222NH	156113
	3	W223NH	156114
	4	W224NH	156115

	Dimension inches	Significant Number	Product Code
	1-1/2	W261	156109
	2	W262	156110
	3	W263	156111
	4	W264	156112

	Dimension inches	Significant Number	Product Code
	1-1/2	W2611	156264
	2	W2622	156266
	3	W2633	156268
	4	W2644	156270

	Dimension inches	Significant Number	Product Code
	1-1/2	W261CS	156263
	2	W262CS	156265
	3	W263CS	156267
	4	W264CS	156269

	Dimension inches	Significant Number	Product Code
	1 kg	-	156715

All Labline fittings are furnished assembled with Olives and Union Nuts. IPEX components are dimensionally matched; do not install system of mixed brands without our expressed written consent

# FLOWAY POLYPROPYLENE FLOOR DRAINS

2" - 6"

## FLOWAY™

For efficiently managing chemical spills, our Floway™ adjustable and non-adjustable polypropylene drain ports are specially designed to feed into IPEX acid waste systems.

### ADVANTAGES

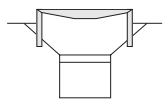
- 1 Rated for pedestrian traffic and available in sizes from 2" to 6".
- 2 Floway™ drains can be optionally configured with adjustable strainers, round funnels, sediment baskets and plain end or threaded outlets.
- 3 Adjustable feature allows easy leveling after pouring of finished floors



### PRODUCT SELECTION CHART

Dimension Inches	Significant Number	Product Code
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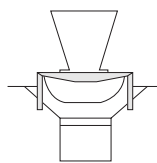
#### F1000 Series Adjustable Floor Drain



Enfield 2	F1201L	237001
Labline 2	F1201W	237075
3	F1301P	237011
4	F1401P	237021
6	F1601P	237031

Dimension Inches	Significant Number	Product Code
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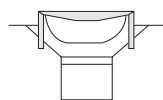
#### F1000 Series Adjustable Floor Drain



Enfield 2	F1203L	237003
Labline 2	F1203W	237077
3	F1303P	237013
4	F1403P	237023
6	F1603P	237034

w/ Sediment Basket and 6" Round Funnel

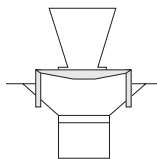
#### F1000 Series Adjustable Floor Drain



Enfield 2	F1202L	237002
Labline 2	F1202W	237076
3	F1302P	237012
4	F1402P	237022
6	F1602P	237033

w/ Sediment Basket

#### F1000 Series Adjustable Floor Drain



Enfield 2	F1204L	237004
Labline 2	F1204W	237078
3	F1304P	237014
4	F1404P	237024
6	F1604P	237032

w/ 6" Round Funnel Only

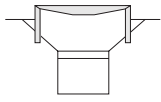
IPEX components are dimensionally matched; do not install system of mixed brands without our expressed written consent.



## PRODUCT SELECTION CHART – FLOWAY

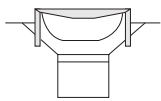
Dimension Inches	Significant Number	Product Code
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### F4000 Series Non-Adjustable Floor Drain



Enfield 2	F4201L	237041
Labline 2	F4201W	237079
3	F4301P	237051
4	F4401P	237061
6	F4601P	237071

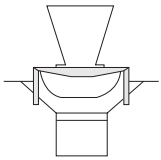
### F4000 Series Non-Adjustable Floor Drain



Enfield 2	F4202L	237042
Labline 2	F4202W	237080
3	F4302P	237052
4	F4402P	237062
6	F4602P	237072

w/ Sediment Basket

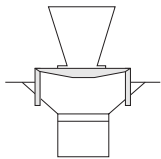
### F4000 Series Non-Adjustable Floor Drain



Enfield 2	F4203L	237044
Labline 2	F4203W	237081
3	F4303P	237053
4	F4403P	237063
6	F4603P	237073

w/ Sediment Basket & 6" Round Funnel

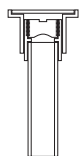
### F4000 Series Non-Adjustable Floor Drain



Enfield 2	F4204L	237043
Labline 2	F4204W	237082
3	F4304P	237054
4	F4404P	237064
6	F4604P	237074

w/ 6" Round Funnel Only

### Floor Cleanout w/Nickel-Bronze Cover (adj Cleanout) Sp



2	F2COB	237173
3	F3COB	237174
4	F4COB	237175
6	F6COB	237177

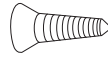
Dimension Inches	Significant Number	Product Code
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### Gas Tight Plug



3	P20036	237815
4	P20037	237816
6	P20038	237817

### Allenhead Vandalproof Screws



Set of 3 screws	P20035	237045
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### Blank Cover for F Series Drains

F1000 Series	P20034	237814
F4000 Series	P20033	237813

### Round Funnel

6	P20017	237810
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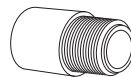
### Sediment Basket Strainer for F Series Drains

F1000 Series	P20016	237809
F4000 Series	P20015	237808

### Grid Strainers for F Series Drains

F1000 Series	P20013	237807
F4000 Series	P20011	237806

### Male Iron Pipe Threaded Outlet



3	-	257091
4	-	257092

### FPT Tap for Priming Drain Assembly

3/8	-	237430
1/2	-	237429

### Trap Primer 12" Length w/FPT

2	-	257126
3	-	257127
4	-	257128

# PLENUMLINE MECHANICAL JOINT ACID WASTE SYSTEM

1-1/2" - 4"

## PLENUMLINE™

Plenumline mechanical joint acid waste systems easily displace costly and difficult-to-install glass and metal systems. With Plenumline, time-consuming methods associated with conventional heavy and brittle systems are replaced by a time proven mechanical joint that takes only 30 seconds to complete. Once the Plenumline nut is locked in place, the end-user is assured of many years of trouble-free service. In addition, mechanical joint systems can easily be dismantled and re-used, making Plenumline ideal for modular designs and future expansions.

### STANDARDS



IAPMO-listed  
Meets ASTM F1673  
Standard specification for Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems.

### ADVANTAGES

- 1 **Ideally suited to plenum applications**
- 2 **30-second joints shorten installation time**
- 3 **Manufactured from Flame Retardant PVDF**, which has an operating temperature range from -40°F (-40°C) to 285°F (140°C). With this high upper limit, Plenumline systems can be flushed with boiling water.
- 4 **All-plastic construction eliminates galvanic action, electrolysis and corrosion in the joint.**
- 5 **Easy to install**, even in tight areas, by using simple, inexpensive tools. Mechanical joints are mastered by plumbers in minutes; no pre-heating is required to install the new blue elastolive.
- 6 **Modularized design** means Plenumline components can be disassembled and re-used. In addition, system modifications during installation can be performed without damaging fittings.
- 7 **High-quality pipe and fittings** are matched to simplify installation and extend long-term reliability.
- 8 **Flame Retardant PVDF** material exhibits a flame spread index of 5 and smoke development index of 35 as tested in accordance with ASTM E84 and UL723.



## **i DID YOU KNOW?**

IPEX Plenumline is a robust acid waste system, made from flame-retardant PVDF thermoplastic, designed for challenging conditions, including highly restrictive return air plenum applications and high-temperature corrosive chemical waste situations.



## **SHORT FORM SPECIFICATIONS**

### **GENERAL**

Acid waste drain and vent system, as shown on drawings, shall be IAPMO listed, Schedule 40, FR-PVDF as manufactured by IPEX to include pipe supplied in 10 ft. lengths and matched fittings, traps and neutralization tanks from the same manufacturer. It shall also include recommended adapters to connect to other piping materials, where applicable.

### **MATERIAL**

Pipe and fittings shall be made from Kynar 740-02, flame retardant PVDF conforming to ASTM F 1673, with a limiting oxygen index (LOI) of 60, Resin must have a vertical burn rating of 94 V-0. Kynar 740-02 resin based on testing to ASTM E84 (UL 723) must have surface burning characteristics greater than or equal to a flame spread 5 and smoke development 35.


### **FITTINGS**

Fittings shall be third party certified to ASTM F 1673 and ASTM E84, and IAPMO approved, be of all plastic construction and a tapered elastic retaining ring shall be designed to lock into a machined groove on the mating piping. All fittings shall have integrally molded union connections. No metallic grab rings or clamps shall be allowed. Fittings shall be Plenumline™ or approved equal.


### **INSTALLATION AND TESTING**


Installation and testing shall be in accordance with the contract drawings, the manufacturer's recommendations and the local plumbing codes. Testing with compressed air including air booster over water is prohibited. The entire system shall be installed free of stress and in proper alignment. Horizontal supports shall provide a wide bearing area and be free of burrs or sharp edges. Support spacings shall be in accordance with the manufacturer's recommendations and local plumbing codes. Vertical piping shall have riser clamps at each floor. Pipe supports shall be installed so that horizontal piping is in uniform alignment and with a uniform slope of at least 1/8" per foot, or in accordance with the local plumbing code requirements.

## PRODUCT SELECTION CHART – PLENUMLINE


	Dimension Inches	Product Code	
	1-1/2	W001P	147045
	2	W002P	147046
	3	W003P	147047
	4	W004P	147048
	6	W006P	147049

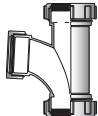
	Dimension Inches	Product Code	
	1-1/2	W161P	157006
	2	W162P	157007
	3	W163P	157008
	4	W164P	157009

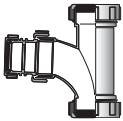
	Dimension Inches	Product Code	
	1-1/2	W191P	157014
	2	W192P	157015
	3	W193P	157016
	4	W194P	157017

	Dimension Inches	Product Code	
	1-1/2	W211P	157024
	2	W212P	157025
	3	W213P	157026
	4	W214P	157027


	Dimension Inches	Product Code	
	1-1/2	W181P	157010
	2	W182P	157011
	3	W183P	157012
	4	W184P	157013


	Dimension Inches	Product Code	
	1-1/2	W291P	157032
	2	W292P	157033
	3	W293P	157034
	4	W294P	157035

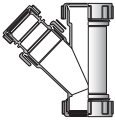
	Dimension Inches	Product Code	
	1-1/2	W201P	157018
	2	W202P	157019
	3	W203P	157020
	4	W204P	157021

	Dimension Inches	Product Code	
	* 2 x 1-1/2	W2021P	157022
	* 3 x 1/12	W2031P	157065
	* 3 x 2	W2032P	157023
	* 4 x 2	W2042P	157067
	* 4 x 3	W2043P	157068

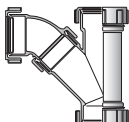
\* Assembled

	Dimension Inches	Product Code	
	1-1/2	W2015P	157061
	2	W2025P	157062
	3	W2035P	157063
	4	W2045P	157064

	Dimension Inches	Product Code	
	1-1/2	W371P	157036
	2	W372P	157037
	3	W373P	157038
	4	W374P	157039

	Dimension Inches	Product Code	
	* 2 x 1-1/2	W3721P	157069
	* 3 x 1/12	W3731P	157073
	* 3 x 2	W3732P	157070
	* 4 x 2	W3742P	157071
	* 4 x 3	W3743P	157072

\* Assembled

	Dimension Inches	Product Code	
	* 1-1/2	W3715P	157074
	* 2	W3725P	157075
	* 3	W3735P	157076
	* 4	W3745P	157077

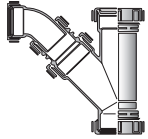
\* Assembled

All fittings are furnished assembled with Olives and Union Nuts. IPEX components are dimensionally matched; do not install system of mixed brands without our expressed written consent.

## PRODUCT SELECTION CHART – PLENUMLINE

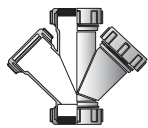
Dimension Inches	Product Code
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### Reducing combination Wye & 1/8 Bend



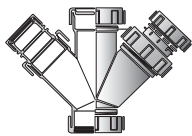
* 2 x 1-1/2	W37251P	157078
* 3 x 1/12	W37351P	157079
* 3 x 2	W37352P	157080
* 4 x 2	W37452P	157081
* 4 x 3	W37453P	157082
* Assembled		

### Double 45° Wye (Fabricated)



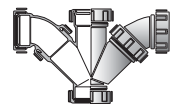
1-1/2	W381P	157049
2	W382P	157050
3	W383P	157051
4	W384P	157052

### Reducing Double Wye



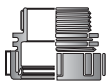
* 2 x 1-1/2	W3821P	157096
* 3 x 1/12	W3831P	157104
* 3 x 2	W3832P	157097
* 4 x 1-1/2	W38841P	157091
* 4 x 2	W3842P	157098
* 4 x 3	W3843P	157099
* Assembled		

### Double Wye & 1/8 Bend



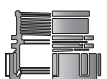
* 1-1/2	W3815P	157100
* 2	W3825P	157101
* 3	W3835P	157102
* 4	W3845P	157103
* Assembled		

### Male Adapter MJ x Male Thread



1-1/2	W141P	157002
2	W142P	157003

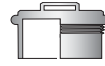
### Female Adapter MJ x Female Thread



1-1/2	W151P	157004
2	W152P	157005

Dimension Inches	Product Code
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### Cleanout Plug



1-1/2	W241P	157028
2	W242P	157029
3	W243P	157030
4	W244P	157031

### U Bend for P-Trap



1-1/2	W1011P	157000
2	W1012P	157001

### P-Trap 2 piece



1-1/2	W1021P	157083
2	W1022P	157084

### P-Trap Long Radius 3 piece



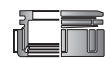
1-1/2	WT11P	157085
2	WT12P	157086
3	WT13P	157087
4	WT14P	157088

### Running Trap



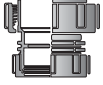
1-1/2	W1041P	157089
2	W1042P	157090

### Fabricated Cap



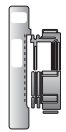
1-1/2	W641P	157053
2	W642P	157054
3	W643P	157055
4	W644P	157056

## PRODUCT SELECTION CHART – PLENUMLINE

	Dimension Inches	Product Code	
	2 x 1-1/2	W3921P	157040
	3 x 1/12	W3931P	157041
	3 x 2	W3932P	157042
	4 x 2	W3942P	157043
	4 x 3	W3943P	157044

Note: Loose Nut and Olive not furnished.

### Flanges (Fabricated)



1-1/2	W361P	157057
2	W362P	157058
* 3	W363P	157059
4	W364P	157060

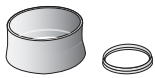
\*While quantities last, Obsolete when stock depleted

### Tail Piece Adapter Sp x Brass Compression Ring



1-1/2 x 12	W3012P	157105
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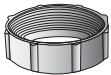
### No Heat Elastolive Blue




1-1/2	W221NHP	157066
2	W222NHP	157106
3	W223NHP	157107
4	W224NHP	157108

Note: Blue olive nut is not interchangeable with the FRPP Yellow olive nut.

### Union Nut



1-1/2	W231P	157109
2	W232P	157110
3	W233P	157111
4	W234P	157112

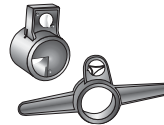
	Dimension Inches	Product Code	
	1-1/2	W261CS	156263
	2	W262CS	156265
	3	W263CS	156267
	4	W264CS	156269

### Spanner



1-1/2	W2611	156264
2	W2622	156266
3	W2633	156268
4	W2644	156270

### Grooving Tool



1-1/2	W261	156109
2	W262	156110
3	W263	156111
4	W264	156112

### Mechanical Joint Lubricant



1 kg	-	156715
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# A Safe Place to Grow



## IPEX Protects Your Investment

Certain environments demand fail-safe systems. No leaks. No risk. IPEX understands the complexity of design and installation for demanding **DOUBLE CONTAINMENT APPLICATIONS**. And, unlike other manufacturers, our specialists are part of a division of IPEX dedicated solely to the design, production and installation of state-of-the-art double containment systems. With more than 20 years of experience and success, we are the proven experts.

The IPEX family of double containment systems includes: **Guardian™** PVC and CPVC, and **Clear-Guard™** PVC pressure and drainage systems, **Encase™** PolyPro drainage systems,



**CustomGuard®** FRP and metal pressure systems and **Centra-Guard™** leak detection systems.

Safety and environmental concerns are top priorities on today's industrial agenda. Reduction of emissions, energy conservation and prevention of ground water contamination are some of the areas where regulations are increasingly defining an important line between utilization and exploitation of our planet's resources.

For most common chemical-waste or process applications, IPEX offers systems that are both simple yet highly advanced technologies.

**Guardian™ Clear-Guard™ Encase™ CustomGuard® Centra-Guard™**

Products are manufactured by IPEX Inc.

Guardian™, Clear-Guard™, Encase™, CustomGuard®, and Centra-Guard™ are trademarks of IPEX Branding Inc.



Call 1-866-473-9462 or visit [www.ipexinc.com](http://www.ipexinc.com)

# HDPE & POLYPROPYLENE NEUTRALIZATION TANKS

1-1/2" - 6"

## NEUTRATANK®

IPEX offers a complete range of Neutratan<sup>®</sup> neutralization tanks which are made of high-density polyethylene or polypropylene material with a one-piece rotationally molded, seamless construction, a bolt-down flanged top and combination Access cover. Neutratan<sup>®</sup>s are available in sizes from 5 gallons to 2,000 gallons to suit most potential design conditions.



### DID YOU KNOW?

Neutratan<sup>®</sup>s are used for limestone neutralization of chemical waste prior to discharge into the sewer.

### ADVANTAGES

- 1 **Cylindrical and rectangular limestone neutralization tanks from 5 to 2000 gallons are available.**
- 2 **A variety of lids, inlets, outlets and accessories are offered.**
- 3 **Dilution tanks are available in 1, 2 and 5-gallon sizes.**

### SHORT FORM SPECIFICATIONS

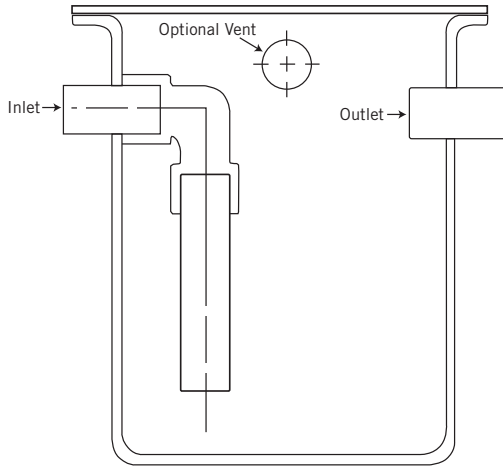
Contractor shall furnish and install HDPE (Polypropylene) Neutralization Tank. Tank shall be rotationally molded, seamless construction with flanged top and welded or bolt down cover, as supplied by IPEX. Tank shall be Neutratan<sup>®</sup> No. CT0100, having 100-gallon capacity complete with 3" inlet and outlet, and 1 1/2" vent connection. Tank to be 32" diameter x 42" high. Tank shall be installed in accordance with manufacturer's recommendations.

Contractor shall furnish and fill the tank prior to installation with limestone chips, as supplied by IPEX, to a level just below the tank outlet. Water should be added to the tank prior to placement of the limestone chips. equal to a flame spread 5 and smoke development 35.





## PRODUCT SELECTION CHART – NEUTRALIZATION TANKS



Gallons	Inlet/Outlet Inches	Significant Number	Product Code
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### HDPE Standard Domed Plain End

Gallons	Inlet/Outlet Inches	Significant Number	Product Code
5	1-1/2	T0005A	237211
5	2	T0005B	237212
15	2	T0015B	237222
15	3	T0015C	237223
30	2	T0030B	237232
30	3	T0030C	237233
30	4	T0030D	237234
55	3	T0055C	237243
55	4	T0055D	237244
100	3	T0100C	237252
100	4	T0100D	237253
150	3	T0150C	237281
150	4	T0150D	237282
200	3	T0200C	237411
200	4	T0200D	237412
275	3	T0275C	237130
275	4	T0275D	237124
360	3	T0360C	237125
360	4	T0360D	237126
360	6	T0360E	237497
500	3	T0500C	237135
500	4	T0500D	237136
500	6	T0500E	237498

### HDPE HD Bolted Flat Plain End

Gallons	Inlet/Outlet Inches	Significant Number	Product Code
5	1-1/2	HDF005A	237183
5	2	HDF005B	237184
15	2	HDF015A	237185
15	3	HDF015B	237186
30	2	HDF030A	237187
30	3	HDF030B	237188
30	4	HDF030C	237189
55	3	HDF055A	237190
55	4	HDF055B	237191
100	3	HDF100A	237192
100	4	HDF100B	237193
150	3	HDF150A	237194
150	4	HDF150B	237195
200	3	HDF200A	237196
200	4	HDF200B	237197
275	3	HDF275A	237198
275	4	HDF275B	237199
360	3	HDF360A	237200
360	4	HDF360B	237201
360	6	HDF360C	237202
500	3	HDF500A	237203
500	4	HDF500B	237204
500	6	HDF500C	237205

### HDPE Steel Pedestrian Plain End

Gallons	Inlet/Outlet Inches	Significant Number	Product Code
5	1-1/2	SP005A	237501
5	2	SP005B	237502
15	2	SP015A	237503
15	3	SP015B	237504
30	2	SP030A	237505
30	3	SP030B	237506
30	4	SP030C	237507
55	3	SP055A	237508
55	4	SP055B	237509
100	3	SP100A	237510
100	4	SP100B	237511
150	3	SP150A	237512
150	4	SP150B	237513
200	3	SP200A	237514
200	4	SP200B	237515
275	3	SP275A	237516
275	4	SP275B	237517
360	3	SP360A	237518
360	4	SP360B	237519
360	6	SP360C	237520
500	3	SP500A	237521
500	4	SP500B	237522
500	6	SP500C	237526

Standard Domed & HD Flat covers are not suitable for pedestrian traffic. Always use steel pedestrian covers. Neutralization tanks are not rated for H2O live loading. In areas requiring H2O loading, position the tank below a Department of Transportation approved manhole cover.

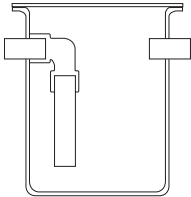
**Regular tanks and 700 to 2000 gallon cylindrical tanks are available on request.**

## PRODUCT SELECTION CHART – NEUTRALIZATION TANKS

Gallons	Inlet/Outlet Inches	Significant Number	Product Code
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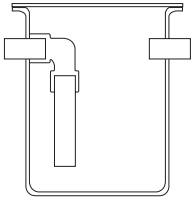
Gallons	Inlet/Outlet Inches	Significant Number	Product Code
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### Polypro Standard Domed Plain End



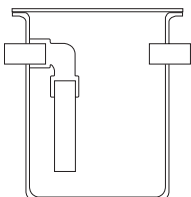
Gallons	Inlet/Outlet Inches	Significant Number	Product Code
7	1-1/2	PPT005A	237059
7	2	PPT005B	237065
15	2	PPT015A	237066
15	3	PPT015B	237067
30	2	PPT030A	237068
30	3	PPT030B	237069
30	4	PPT030C	237070
55	3	PPT055A	237093
55	4	PPT055B	237094
100	3	PPT100A	237095
100	4	PPT100B	237096
150	3	PPT150A	237097
150	4	PPT150B	237098
200	3	PPT200A	237099
200	4	PPT200B	237100
275	3	PPT275A	237101
275	4	PPT275B	237102
360	3	PPT360A	237103
360	4	PPT360B	237104
360	6	PPT360C	237105
500	3	PPT500A	237106
500	4	PPT500B	237107
500	6	PPT500C	237108

### Polypro Steel Pedestrian Plain End



Gallons	Inlet/Outlet Inches	Significant Number	Product Code
7	1-1/2	PPSP005A	237524
7	2	PPSP005B	237525
15	2	PPSP015A	237526
15	3	PPSP015B	237527
30	2	PPSP030A	237528
30	3	PPSP030B	237529
30	4	PPSP030C	237530
55	3	PPSP055A	237531
55	4	PPSP055B	237532
100	3	PPSP100A	237533
100	4	PPSP100B	237534
150	3	PPSP150A	237535
150	4	PPSP150B	237536
200	3	PPSP200A	237537
200	4	PPSP200B	237538
275	3	PPSP275A	237539
275	4	PPSP275B	237540
360	3	PPSP360A	237541
360	4	PPSP360B	237542
360	6	PPSP360C	237543
500	3	PPSP500A	237544
500	4	PPSP500B	237545
500	6	PPSP500C	237546

### Polypro HD Bolted Flat Plain End



Gallons	Inlet/Outlet Inches	Significant Number	Product Code
7	1-1/2	PPHDF005A	237206
7	2	PPHDF005B	237207
15	2	PPHDF015A	237208
15	3	PPHDF015B	237209
30	2	PPHDF030A	237210
30	3	PPHDF030B	237213
30	4	PPHDF030C	237214
55	3	PPHDF055A	237215
55	4	PPHDF055B	237216
100	3	PPHDF100A	237218
100	4	PPHDF100B	237220
150	3	PPHDF150A	237224
150	4	PPHDF150B	237225
200	3	PPHDF200A	237226
200	4	PPHDF200B	237228
275	3	PPHDF275A	237230
275	4	PPHDF275B	237235
360	3	PPHDF360A	237236
360	4	PPHDF360B	237238
360	6	PPHDF360C	237239
500	3	PPHDF500A	237240
500	4	PPHDF500B	237245
500	6	PPHDF500C	237246

Inlet / Outlet	Tank Size
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### Inlet / Outlet Tank Sizes & Connection Options

1-1/2" Plain End MPT, FPT, Flanged	5 gal to 55 gal
2" Plain End MPT, FPT, Flanged	5 gal to 150 gal
3" Plain End MPT, FPT, Flanged	15 gal to 500 gal
3" Flanged	30 gal to 500 gal
4" Plain End MPT, FPT, Flanged	30 gal to 2000 gal
6" Flanged	360 gal to 2000 gal

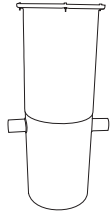
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**Regular tanks and 700 to 2000 gallon cylindrical tanks are available on request.**

## PRODUCT SELECTION CHART – NEUTRALIZATION TANKS

Gallons	Ext Length Inches	Significant Number	Product Code
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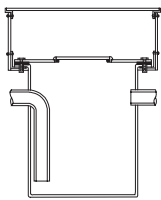
### HDPE Non-Adjustable Extension



5	6 to 9	PEEXT005	237462
15	6 to 14	PEEXT015	237463
30	6 to 24	PEEXT030	237464
55	6 to 31	PEEXT055	237465
100	6 to 35	PEEXT100	237466
150	6 to 43	PEEXT150	237467
200	6 to 43	PEEXT200	237468
275	6 to 42	PEEXT275	237469
360	6 to 42	PEEXT360	237470
500	6 to 54	PEEXT500	237471

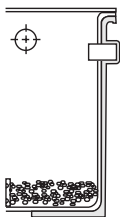
Polypro Non-Adjustable extensions are available upon request.

### Variable Extension (2" of Vertical Adjustment)



5/7	6 to 36	ADEXT005	237454
15	6 to 36	ADEXT015	237455
30	6 to 36	ADEXT030	237456
55	6 to 36	ADEXT055	237457
100	6 to 36	ADEXT100	237458
150	6 to 36	ADEXT150	237459
200	6 to 36	ADEXT200	237460
275	6 to 36	ADEXT275	237461
360	6 to 36	ADEXT360	-
500	6 to 36	ADEXT500	-

### FRP Overwrap

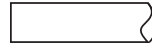


5/7	-	FRPO005	237440
15	-	FRPO015	237441
30	-	FRPO030	237442
55	-	FRPO055	237443
100	-	FRPO100	237444
150	-	FRPO150	237445
200	-	FRPO200	237446
275	-	FRPO275	237447
360	-	FRPO360	237448
500	-	FRPO500	237449

FRP Overwrap is for tanks without extensions. Please contact IPEX for FRP overwrap pricing on tanks with non-adjustable extensions.

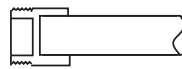
Inlet/Outlet Inches	Significant Number	Product Code
---------------------	--------------------	--------------

### HDPE Plain End Vent



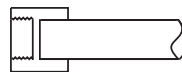
1-1/2	PEV150	237401
2	PEV200	237402
3	PEV300	237403
4	PEV400	237404

### HDPE MPT Connection



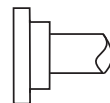
1-1/2	MPTC150	237421
2	MPTC200	237422
3	MPTC300	237423
4	MPTC400	237424

### HDPE FPT Connection



1-1/2	FPTC150	237431
2	FPTC200	237432
3	FPTC300	237433
4	FPTC400	237434

### HDPE Flange Connection



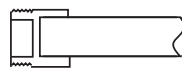
1-1/2	FLC150	237121
2	FLC200	237131
3	FLC300	237141
4	FLC400	237142
6	FLC600	237500

### PolyPro Plain End Vent



1-1/2	PEPP150	237109
2	PEPP200	237110
3	PEPP300	237113
4	PEPP400	237114

### PolyPro MPT Connection

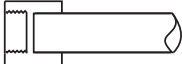


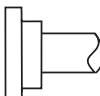
1-1/2	MPTPP150	237156
2	MPTPP200	237157
3	MPTPP300	237158
4	MPTPP400	237159

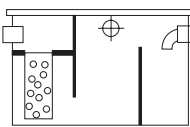
Standard Domed & HD Flat covers are not suitable for pedestrian traffic. Always use steel pedestrian covers. Neutralization tanks are not rated for H2O live loading. In areas requiring H2O loading, position the tank below a Department of Transportation approved manhole cover.

**Regular tanks and 700 to 2000 gallon cylindrical tanks are available on request.**

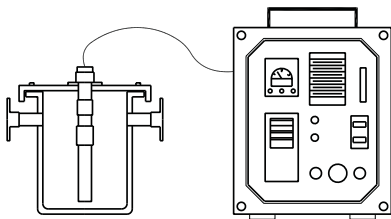
## PRODUCT SELECTION CHART – NEUTRALIZATION TANKS


	Inlet/Outlet Inches	Significant Number	Product Code
	1-1/2	FPTPP150	237139
	2	FPTPP200	237140
	3	FPTPP300	237148
	4	FPTPP400	237149

	Inlet/Outlet Inches	Significant Number	Product Code
	1-1/2	FLPP150	237116
	2	FLPP200	237118
	3	FLPP300	237120
	4	FLPP400	237138

	Tank Size	Significant Number	Product Code
	12 x 24 x 24 (14 Gallons)	SI14	-
	18 x 24 x 24 (44 Gallons)	SI44	-
	24 x 24 x 30 (75 Gallons)	SI75	-

	Diameter Inches	Significant Number	Product Code
<b>Neutrasystem pH Monitoring &amp; Recording System</b>			
		pH Monitor w/ Tank & Alarm	TPH501 237371
		pH Monitor w/ Tank & Alarm & Chart	TPH502 237331
		pH Monitor w/ Alarm	TPH503 237341
		pH Monitor w/ Alarm & Chart	TPH504 237351



	Inlet/Outlet Inches	Significant Number	Product Code
	8	TMW008	237450
	16	TMW016	237451
	22	TMW022	237452

	Weight	Significant Number	Product Code
<b>Neutralizing Agent Limestone Bags</b>			
	50 lbs	TC50	237321

NOTE: F.O.B.- Shipping Location

Tank Size	Loading (lbs.)
5	50
15	125
30	250
55	500
100	1000
150	1500
200	2000
275	2500
360	3500
500	5250
700	8000
1000	10000
1250	12000
2000	18000

### Limestone Loading Guide for Neutralization

Standard Domed & HD Flat covers are not suitable for pedestrian traffic. Always use steel pedestrian covers. Neutratanks are not rated for H2O live loading. In areas requiring H2O loading, position the tank below a Department of Transportation approved manhole cover. Regular tanks and 700 to 2000 gallon cylindrical tanks are available on request.

# NEUTRASYSTEM 2™ PH MONITORING SYSTEM

## NEUTRASYSTEM2™

Neutrasystem 2 ensures that discharges into the sewer are maintained within acceptable pH parameters by neutralizing the acidic waste with limestone chips. The system continuously samples the downstream flow while keeping an accurate, permanent record of pH discharge levels. The monitoring device will warn maintenance personnel, (visually and audibly), when pH discharges outside acceptable parameters are sensed. Once alerted, maintenance personnel can quickly and easily recharge the main IPEX Neutratanke with limestone chips through the access cover incorporated into the tank's design.

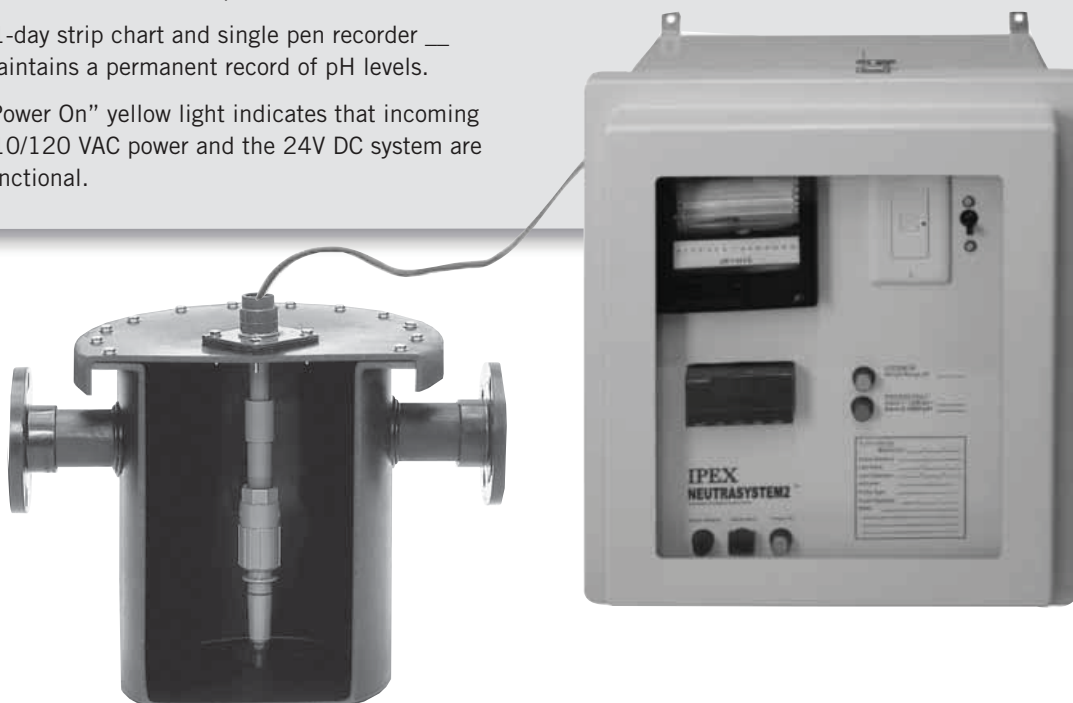
The system incorporates the following features:

### DID YOU KNOW?

For detailed Operating, Maintenance and Calibration Procedures for Neutrasystem 2, please contact IPEX.

### PH MONITORING, RECORDING AND ALARM SYSTEM

- UL 508 listed, NEMA 4X enclosure with hinged clear front cover for easy reading and access.
- 110/120 VAC input power supply with GFI power cord protection and 24V DC operating voltage \_\_ provides stabilized operating current for panel instrumentation and allows the use of low voltage cable for quick, easy installation in the field.
- Control power circuit breaker, re-set protection (no fuses).
- Continuous soft internal alarm horn, (sonalert type), and alarm silencing button. The alarm horn is activated when the probe senses a pH above or below the set parameters, and will remain on until the alarm silence button is pressed.
- 31-day strip chart and single pen recorder \_\_ maintains a permanent record of pH levels.
- "Power On" yellow light indicates that incoming 110/120 VAC power and the 24V DC system are functional.
- "pH Alarm" red light indicates when the measured pH is outside acceptable parameters. The light will remain illuminated until the fault is cleared and the "System OK" green light is re-illuminated.
- "System OK" green light indicates that the system is on-line and not in a default condition.
- 0-14 pH pH PHCN micro-processor based pH controller with digital LED display.
- Series 6510 submersible, pH electrode with chemically resistant CPVC body, viton O-rings and twist-lock connection providing easy maintenance.
- 5-gallon high density polyethylene, one-piece construction, rotationally molded sample tank.



IPEX NEUTRASYSTEM 2 uses a CPVC submersible electrode (sensor) with automatic temperature compensation. The sensor has a flat surface junction to minimize fouling. The reference is sealed to minimize dryout and eliminate refilling solution. The sensor is connected to a preamplifier by a 1/4 turn quick disconnect. The preamplifier has an attached cable for connection to the pH Controller in the NEUTRASYSTEM 2 panel. The cable has a BNC connector for the sensor signal and 3 spade terminals for automatic temperature compensation.



## PH ELECTRODE

### Storage

The pH electrode is shipped in a soaker bottle containing a solution of pH 4 buffer and potassium chloride. The electrode should remain in the bottle until it is ready to use. If the electrode is used infrequently, the cap, bottle and solution should be saved and the electrode stored in it. Store the pH electrode in a pH 4 buffer solution if the soaking solution is discarded. Do not use distilled or deionized water as this will drastically reduce the electrode lifespan. Remove the cap and o-ring on the soaker bottle before use.

### Maintenance

pH electrodes have a thin glass surface. Care should be taken so that the glass does not become scratched or broken. After exposure to a sample, buffer or rinse solution, carryover can be minimized by blotting – never by wiping – the electrode with a clean, non-abrasive paper or a clean cloth towel. Do not use a brush on pH glass. As a rinse solution, use a part of the next sample or buffer which is to be measured. This action will also minimize contamination from carryover.

### Replacement

All pH electrodes age with time. Aging is characterized by shortened span and slower speed of response. Electrodes should be replaced when their readings cannot be corrected by the meter's controls and/or when their speed of response is too slow for the application for which they are being used. The frequency of electrode replacement is a function of the application; electrodes operating in hot liquids at very high or very low pH values will have shorter lives than those operating at neutral pH and ambient temperature. Coatings on an electrode's surface prevent new liquids from contacting an electrode's measuring surface and can mimic the effects of electrode aging. Before concluding that an electrode needs replacing, check its surface for coatings.

### Calibration

The frequency of calibration is solely the responsibility of the user. At a new installation, calibration might be checked every few hours or shift, with the calibration changes noted in a log. As a pattern of longer stability is

found, the time between calibration checks can be increased to once a day or once a week. Once a week is the longest recommended interval between calibrations.

- The pH electrode and pH controller should always be calibrated as a system.
- Only buffer solutions of 4, 7 and 10 are acceptable.
- Before placing the electrode in a new buffer, use an absorbent paper towel or clean absorbent cloth to blot – not wipe – off any liquid that clings to the electrode. This action will minimize carryover that could contaminate the buffer.
- Always use fresh buffers. Safely dispose of the buffers after they have been used for calibration. Do not return them to their bottles. This action could contaminate the buffers.
- Stir the electrode in the buffer to make sure that the fresh buffer quickly reaches the electrode's measuring surface.
- Allow time for the reading to stabilize. In general, with new electrodes, stable readings in the buffer solution are obtained in 10-15 seconds.

### Cleaning

Coating of an electrode's measuring surface can lead to incorrect readings, including shortened span and slower response times. The type of coating determines the type of cleaning technique. When using chemicals or solvents, care should be taken and appropriate eye, face, hand and/or respiratory protection should be used.

Soft Coatings can be removed by vigorous stirring, by use of a squirt bottle or, very carefully, by gently wiping with a soft, clean non-abrasive paper or cloth. Do not use any brush or abrasive cleaner on pH glass.

Hard Coatings should be chemically removed. The chemical used to remove the coating should be the least harsh chemical that dissolves the coating in one or two minutes and does not attack the electrode's material of construction.

Oily or Organic Coatings are best removed with detergents or an appropriate solvent that does not attack the electrode's material of construction.

IPEX offers two compressed air systems designed to meet the requirements of a wide range of applications.

When you specify a high-performance piping systems from IPEX, you get the added benefits of a complete piping solution that is engineered for total integration, and backed by comprehensive, coast-to-coast support – all from one reliable source.

# COMPRESSED AIR SYSTEMS



Duraplus Airline

108

Duratec Airline

114

# DURAPLUS AIR-LINE SYSTEM

1/2" - 8"



Compressed air, a major source of industrial energy, is being used increasingly in both the manufacturing and processing industries. There, its distinct advantages of cleanliness, flexibility, safety and economy of use (compared with other energy sources) are fully exploited.

Modern process equipment, pneumatic controls and instrumentation demand a supply of clean, uncontaminated air and this has prompted the development in recent years of more advanced designs of compressors and ancillary equipment.

Duraplus Air-Line is manufactured from a specially formulated Acrylonitrile Butadiene Styrene (ABS) blend that has a high performance co-extruded liner which greatly enhances its mechanical and chemical properties.

Duraplus fittings are manufactured using an alloy blend of ABS and the liner material, ensuring high performance of the whole system.

## APPLICATIONS

- Plant air
- Valve actuation
- Ventilation

## STANDARDS



## ADVANTAGES

### 1 Safety

The Butadiene component of Duraplus Air-Line contributes resistance to accidental damage and prevents material fracture should the pipe be subjected to severe impact. Duraplus has been designed and tested to withstand impact for a large range of temperatures and has a design life of 30 years with a factor of safety of 2:1.

### 2 Wide Range of Applications

The advanced liner and ABS material combination protects against stray chemicals which may sometimes cause problems for ordinary systems. Duraplus Air-Line is now compatible with even more compressor lubricants.

### 3 Low Installation Costs

Duraplus Air-Line pipe reduces costs on a typical installation not only for materials but also for labor and transportation costs when compared to traditional materials. The reason? Its lightweight construction and simple assembly procedures. Like all thermoplastics, Duraplus is easily handled, stored, cut, joined and installed. As a result, project costs for installed Duraplus systems are significantly lower. Requirements for heavy installation equipment are also eliminated.

### 4 Clean

Duraplus products are packaged to protect the surface finish of the pipe and fittings and to prevent contamination before use. The smooth liner of Duraplus Air-Line cannot rust, corrode or form loose scale, ensuring air remains clean throughout the life of the system.

### 5 Smooth Interior

Less friction means lower pressure drops and higher flow rates allowing for smaller pipe diameters to be used in some cases.

### 6 Ease of Use

Duraplus Air-Line is one sixth the weight of steel and can be joined by solvent welding for easy on-site modifications and repairs without requiring special training or equipment.

### 7 Leak Free System

Correctly made solvent welded joints are leak free and can greatly reduce running costs.

### 8 Metric Sized & Color Coded

Duraplus Air-Line is metric sized to prevent mixing with I.P.S. sized PVC and CPVC pipe. Also the Duraplus Air-Line is color coded blue to comply with the ISO standards for compressed air products.

### 9 Proven

From manufacturing to the marketplace, Duraplus Air-Line is supported by the technical experience gained through over 30 years of thermoplastic pressure piping production. Both raw material and finished Air-Line products are subjected to rigorous tests, including aging, weathering and stressed environmental tests, to ensure complete system integrity over the designed operating life.







## DID YOU KNOW?

Duraplus Air-Line is corrosion-resistant and features metal-to-ABS special adapter fittings, single and multi-port wall brackets, high-efficiency dropper bends and blue color-coding for easy identification.

### SHORT FORM SPECIFICATIONS

#### GENERAL

Duraplus ABS Air-Line is designed for industrial compressed air pipe applications where the extremely high-impact resistance and ductility of the material offers some insurance against internal and external shock loadings and site abuse conditions. Its unique combination of ABS properties –non-toxicity, purity, corrosion- and chemical-resistance, toughness, low-hydraulic resistance, and the ability to perform over a wide temperature range 40°F – 120°F (4°C – 49°C), ensures excellent in-service performance and system life.

#### MATERIAL SPECIFICATIONS

Pipe shall be manufactured from an Acrylonitrile Butadiene Styrene (ABS) blend, with a co-extruded liner. Fitting shall be manufactured from an ABS blend.

Material for both pipe and fittings shall be designed with a 2 to 1 safety factor for a 30 year lifespan when operated under continuous pressure. Pipe and fittings are capable of withstanding a continuous working pressure of 185 psi at 73°F (1275 kPa at 23°C) in accordance with ASTM D2282 and carry a DIN 4102-B2 fire rating.

The material shall have an izod impact resistance value of no less than 8.5 ft.lb/in at 73°F when tested in accordance with ASTM D256, method 'A'. Pipe bore contains a co-extruded liner and fittings are manufactured using an alloy blend of ABS and the liner material.

#### PIPE

Pipes shall be manufactured by IPEX and designed in metric sizes that comply with the dimensional requirements of DIN 8062, and ISO 161/1.

#### FITTINGS

Fittings shall be of the socket type, designed for solvent welding as supplied by IPEX.

Fittings shall be designed and manufactured to withstand the continuous pressures applicable to the maximum pressure rating of the pipe. The sockets and fittings shall have a 0°30 taper, the diameter decreasing from the mouth to the root.

#### BALL VALVES – VKD

The valve body, stem, ball and unions shall be made of Duraplus® ABS compound which shall meet or exceed the requirements of cell classification 43234 according to ASTM D3965.

Ball valves shall be double-blocking type with O-ring cushions under the PTFE seats, in-line micro adjustment capability and incorporate a spanner wrench in the handle.

#### BUTTERFLY VALVES – FK

The valve body shall be made of glass reinforced polypropylene (GRPP) obtained from homopolymer polypropylene (PPH).

The valve disc shall be made of ABS compound.

All butterfly valves shall have non wetted stainless steel shafts and a wafer or lug design with ANSI 150 flange connections. The liner shall completely isolate the valve body from the process flow and act as a flange gasket on both sides of the valve.

#### SOLVENT CEMENT


All joints shall be made with Blue Duraplus Air-Line ABS solvent cement as supplied by IPEX. The solvent cement shall be designed to withstand continuous applied pressures up to 185 psi at 73°F.

#### DESIGN AND INSTALLATION

The design and installation of ABS pressure systems shall be performed in accordance with the recommendations detailed in the Handling and Installation section of this manual and in local and national regulations where applicable. To ensure the full integrity of the completed system, all components shall be supplied by IPEX.



## PRODUCT SELECTION CHART – DURAPLUS AIRLINE

	Dimension		Significant Number	Product Code
	inches	mm		
	1/2	20	553306	446000
	3/4	25	553307	446001
	1	32	553308	446002
	1-1/2	50	553310	446003
	2	63	553311	446004
	3	90	553313	446005
	4	110	553314	446006
	6	–	512112	346012
	8	–	511113	346010

20-110mm pipe in 19 ft. lengths.  
6" & 8" pipe in 20 ft. lengths  
Priced per foot

### Dropper Bend Sp



Dimension	Significant Number	Product Code
1/2	20	312306 437259
3/4	25	312307 437260
1	32	312308 437261

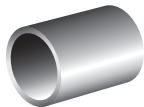
### Cobra Pipe Clip



Dimension	Significant Number	Product Code
1/2	20	434306 437341
3/4	25	434307 437342
1	32	434308 437343
1-1/2	50	434310 437345
2	63	434311 437346
3	90	434313 437348
4	110	434314 437349

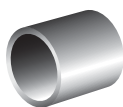
Note: \* 1/2" and 3/4" pipe clips are supplied without retaining

### Coupling Soc



Dimension	Significant Number	Product Code
1/2	20	100306 437026
3/4	25	100307 437027
1	32	100308 437028
1-1/2	50	100310 437029
2	63	100311 437030
3	90	100313 437032
4	110	100314 437033
6	–	100112 337030
8	–	100113 337031

### Imperial/Metric Socket Adapter Soc x Soc



Dimension	Significant Number	Product Code
1/2 x 20	345102	337371
3/4 x 25	345103	337372
1 x 32	345104	337373
1-1/2 x 50	345106	337374
2 x 63	345107	337375
3 x 90	345109	337376
4 x 110	345110	337377

### 90° Elbow Soc



Dimension	Significant Number	Product Code
1/2	20	115306 437111
3/4	25	115307 437112
1	32	115308 437113
1-1/2	50	115310 437114
2	63	115311 437115
3	90	115313 437117
4	110	115314 437118
6	–	115112 337141
8	–	115113 337142

### 45° Elbow Soc



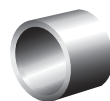
Dimension	Significant Number	Product Code
1/2	20	119306 437128
3/4	25	119307 437129
1	32	119308 437130
1-1/2	50	119310 437131
2	63	119311 437132
3	90	119313 437134
4	110	119314 437135
6	–	119112 337165
8	–	119113 337166

### 90° Bend Soc



Dimension	Significant Number	Product Code
3/4	25	118307 437120
1	32	118308 437121
1-1/2	50	118310 437122
2	63	118311 437123
3	90	118313 437125
4	110	118314 437126


### Cap Soc




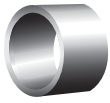
Dimension	Significant Number	Product Code
1/2	149306	437192
3/4	149307	437193
1	149308	437194
1-1/2	149310	437195
2	149311	437196
3	149313	437198
4	149314	337001


Certain compressor and lubricant oils will damage your Duraplus Air-Line installation.  
Before using any oils in the system contact IPEX to obtain a list of recommended oils or to confirm individual oil suitability.


## PRODUCT SELECTION CHART – DURAPLUS AIRLINE

	Dimension		Significant Number	Product Code
	inches	mm		
	1/2	20	122306	437151
	3/4	25	122307	437152
	1	32	122308	437153
	1-1/2	50	122310	437154
	2	63	122311	437155
	3	90	122313	437157
	4	110	122314	437158
	6	-	122112	337179
	8	-	122113	337180

	Dimension		Significant Number	Product Code
	inches	mm		
	3/4 x 1/2	25 x 20	124415	437161
	1 x 1/2	32 x 20	124418	437163
	1 x 3/4	32 x 25	124419	437164
	1-1/2 x 1/2	50 x 20	124424	437166
	1-1/2 x 3/4	50 x 25	124425	437167
	1-1/2 x 1	50 x 32	124426	437168
	2 x 3/4	63 x 25	124429	437169
	2 x 1	63 x 32	124430	437170
	2 x 1-1/2	63 x 50	124432	437171


	Dimension		Significant Number	Product Code
	inches	mm		
	3/4 x 1/2	25 x 20	109415	437051
	1 x 3/4	32 x 25	109419	437053
	1-1/2 x 1/2	50 x 20	109424	437055
	1-1/2 x 3/4	50 x 25	109425	437056
	1-1/2 x 1	50 x 32	109426	437057
	2 x 3/4	63 x 25	109429	437059
	2 x 1	63 x 32	109430	437060
	2 x 1-1/2	63 x 50	109432	437061
	3 x 1-1/2	90 x 50	109442	437062
	3 x 2	90 x 63	109443	437063
	4 x 2	110 x 63	109449	437065
	4 x 3	110 x 90	109451	437066
	8 x 6	-	109152	337066

	Dimension		Significant Number	Product Code
	inches	mm		
	1/2	20	205306	437234
	3/4	25	205307	437235
	1	32	205308	437236
	1-1/2	50	205310	437237
	2	63	205311	437238


	Dimension		Significant Number	Product Code
	inches	mm		
	1 x 3/4 x 1/2	32 x 25 x 20	114415	437103
	1-1/2 x 1-1/4 x 1	50 x 40 x 32	114423	437105
	3 x 2-1/2 x 2	90 x 75 x 63	114438	437108
	8 x 6	-	114152	337129


	Dimension		Significant Number	Product Code
	inches	mm		

	Dimension		Significant Number	Product Code
	inches	mm		


	Dimension		Significant Number	Product Code
	inches	mm		
	1	32	135308	437181
	1-1/2	50	135310	437182
	2	63	135311	437183
	3	90	135313	437185
	4	110	135314	437186
	6	-	135112	337238
	8	-	135113	337239

Note: A metal backing ring must be used with this flange.

	Dimension		Significant Number	Product Code
	inches	mm		
	1/2	32	411308	437325
	1-1/2	50	411310	437326
	2	63	411311	437327
	3	90	411313	437329
	4	110	411314	437330
	6	-	431112	337451
	8	-	431113	337452

	Dimension		Significant Number	Product Code
	inches	mm		
	1	32	416308	437331
	1-1/2	50	425106	337430
	2	63	425107	337431
	3	90	425109	337433
	4	110	425110	337434
	6	-	425112	337435
	8	-	425113	337436


Note: For use with flanges


	Dimension		Significant Number	Product Code
	inches	mm		
	3	90	325109	337364
	4	110	325110	337365
	6	-	325112	337366
	8	-	325113	337367


Note: A backing ring must be used with this flange.


Certain compressor and lubricant oils will damage your Duraplus Air-Line installation. Before using any oils in the system contact IPEX to obtain a list of recommended oils or to confirm individual oil suitability


## PRODUCT SELECTION CHART – DURAPLUS AIRLINE


	Dimension		Significant Number	Product Code
	inches	mm		
<b>Female Adapter Soc x Female Thread</b>				
	1/2 x 1/2	20 x 1/2	101306	437034
	3/4 x 3/4	25 x 3/4	101307	437035
	1 x 1	32 x 1	101308	437036


	Dimension		Significant Number	Product Code
	inches	mm		
<b>Female Adapter Sp x Female Thread</b>				
	1-1/2 x 1-1/2	50 x 1-1/2	153341	437231
	2 x 2	63 x 2	153343	437232


	Dimension	Significant Number	Product Code	
			inches	mm
<b>Plug Male Thread</b>				
	1/2	-	155102	337264
	3/4	-	155103	337265

	Dimension		Significant Number	Product Code
	inches	mm		
<b>Wall Bracket Soc x Female Thread (Brass body)</b>				
	1/2 x 1/2	20 x 1/2	422327	437335
	3/4 x 1/2	25 x 1/2	422328	437336
	3/4 x 3/4	25 x 3/4	422329	437337


	Dimension	Significant Number	Product Code	
			inches	mm
<b>Wall Bracket Multiport</b>				
	3/4 x 1/2	-	429122	437338
	Inlet – 3/4" male thread. Outlet – 1/2" female			


	Dimension	Significant Number	Product Code	
			inches	mm
<b>Butterfly Valve - FK Manual, EPDM Seals - Glass filled PP Body</b>				
	2	-	680107	337651
	3	-	680109	337652
	4	-	680110	337653
	6	-	680112	337654
	8	-	680113	337665


	Dimension		Significant Number	Product Code
	inches	mm		
<b>Composite Union Soc x MPT (Air-line to Brass)</b>				
	1/2 x 1/2	20 x 1/2	217306	437247
	3/4 x 3/4	25 x 3/4	217307	437248
	1 x 1	32 x 1	217308	437249
	1-1/2 x 1-1/2	50 x 1-1/2	217310	437250
	2 x 2	63 x 2	217311	437251

	Dimension		Significant Number	Product Code
	inches	mm		
<b>True Union Ball Valve Soc 230psi at 73°F EPDM Seals</b>				
	* 1/2	20	882306	437451
	* 3/4	25	882307	437452
	* 1	32	882308	437453
	* 1-1/2	50	882310	437454
	* 2	63	882311	437455

\*Valves are supplied in Grey ABS

	Dimension		Significant Number	Product Code
	inches	mm		
<b>End Connectors</b>				
	1/2	20	882312	437446
	3/4	25	882313	437447
	1	32	882314	437448
	1-1/2	50	882315	437449
	2	63	882316	437450

	Quantity	Significant Number	Product Code
<b>Air-Line Solvent Cement</b>			
	1 pint	461390	437354
	1 quart	461391	437355

	Quantity	Significant Number	Product Code
<b>MEK Cleaner</b>			
	1 pint	461397	337468
	1 quart	461398	337469

**Joints**  
An indication of the number of joints likely to be made per quart of Duraplus® cement is as follows (it is recommended that MEK cleaner orders equals one-half the quantity of solvent cement required).

Pipe Size	Number of Joints	
	inches	mm
3/8 - 1	20 - 32	290
1-1/4 - 2	50 - 63	144
3	75 - 90	48
4	110	32
6	-	16
8	-	10

Certain compressor and lubricant oils will damage your Duraplus Air-Line installation. Before using any oils in the system contact IPEX to obtain a list of recommended oils or to confirm individual oil suitability.

# Compressed Air



## Your Compressed Air System for the 21st Century

When your plant's compressed air system leaks, more than just air is getting out. You're losing money in the form of wasted energy, wear and tear on your compressors and increased operating and maintenance costs. Duratec® Airline, a unique time and money-saving piping system, is designed to reduce leaks and costs.

A tough piping system that meets ASME codes and OSHA safety requirements, Duratec Airline requires less time, labor and money to install and maintain than



traditional systems. Its long, lightweight coils cut down on the number of potential leak points in your system.

Duratec fittings are quick and easy to install and feature double O-ring seals that ensure maximum joint integrity.

Duratec requires no special tools or installation training and eliminates the need for soldering and threading. And because Duratec is so quickly and easily installed, modified, and adapted to existing metal systems, it can reduce your plant's downtime. So stop your compressed air system's problems before they become big news — Install Duratec.

**Duratec**  
AIRLINE SYSTEM

*Products are manufactured by IPEX Inc.  
Duratec® is a trademark of IPEX Branding Inc.*



Call 1-800-463-9572 or visit [www.ipexamerica.com](http://www.ipexamerica.com)

# DURATEC AIRLINE SYSTEMS

3/8" - 1"

## Duratec®

Duratec is an innovative compressed air and inert gas distribution system designed to be absolutely leak-proof, installed quickly and easily, and maintained cost-effectively. As a result, Duratec saves you time and money.

Traditional metallic compressed air systems are a main cause of unnecessary energy use, excessive wear and tear on compressors and high consumption of compressor oils and filters. The culprits? Corrosion and leakage at pipe joints and fitting connections which often go undetected until they're discovered during a detailed compressed air system audit.

Duratec pipe comes in long 100 foot or 300 foot coils, which significantly reduces the number of joints in your system. Duratec fittings feature unique double o-ring seals to ensure long-term joint integrity. And the entire Duratec system can be easily and quickly installed, modified or expanded without the need for specialized equipment.

### APPLICATIONS

- Plant air
- Inert gas distribution
- Manufacturing hand tool operation
- Manual and automated welding operations
- Semi-conductor tool hook up
- Valve actuation – control systems
- Microbulk inert gas delivery systems
- Robotic installations

### STANDARDS



CSA B51, B137.9

ASTM F1974

ASME B31.3, B31.9

FDA Compliant

NSI / ASTM F1282

National CRN OA02020.2C

Certified to OSHA Safety Regulations

### DID YOU KNOW?

To make designing, sizing and installing a Duratec compressed air system easy, IPEX offers comprehensive reference tools, such as our Duratec Technical Manual. To download this manual visit our website at [www.ipexamerica.com](http://www.ipexamerica.com).



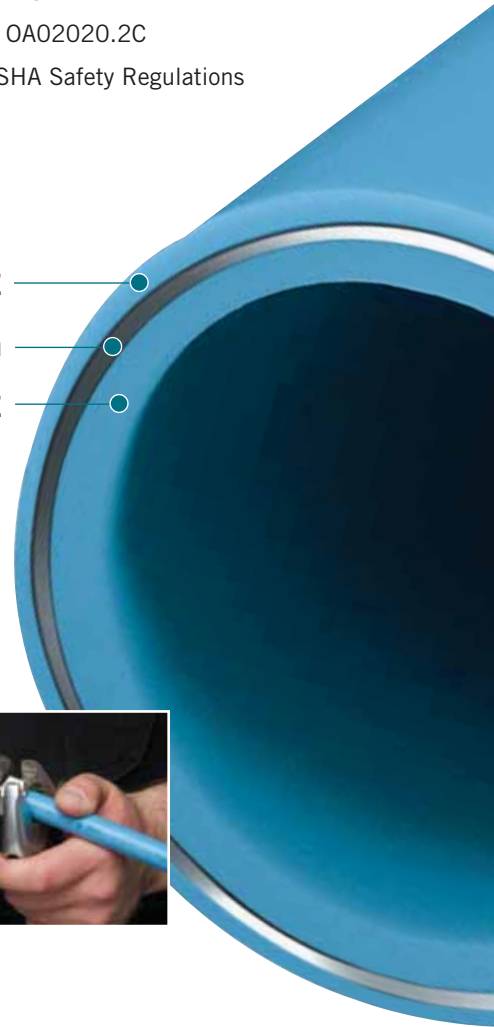
### QUICK INSTALLATION

**Cutting and joining Duratec is fast and simple.**

1. Cut pipe square using plastic pipe cutter.
2. Slide nut and split ring over pipe and bevel the inside of the pipe by inserting then rotating the beveling tool.
3. Push the fitting into the pipe.
4. Turn the nut finger tight plus one full turn with a wrench.



HDPE  
Aluminum  
HDPE



## ADVANTAGES

- 1 Low Installation Costs**

Duratec reduces costs on a typical installation not only for materials but also for labour and transportation costs when compared to traditional materials. How? Duratec's lightweight construction and simple assembly procedures.
- 2 Ease of Handling**

Duratec is 75% lighter than the equivalent diameter of copper and SCH 40 carbon steel.
- 3 Quick Removable Connections**

Threading is not required. All joints have double o-ring seals and can be quickly assembled or disassembled. Easy on-site modifications and repairs can be made.
- 4 Quick Installation**

No special training or equipment is required to complete a Duratec system.
- 5 Clean**

All Duratec pipe is packaged in cardboard boxes preventing contamination before use. The smooth HDPE inner layer cannot rust, corrode or form loose scale. Clean air remains clean throughout the life of the system.
- 6 Flexible Yet Rigid**

Due to its composite structure, Duratec pipe can be easily bent by hand and will maintain its desired shape. This unique feature allows for straight, professional looking installation and eliminates sagging.
- 7 Lower Operating Costs**

Due to Duratec's advantages over metal systems, it costs you less time, labour and money to keep a Duratec system in optimal condition.
- 8 Pressure loss means money loss**

Metal systems can lose pressure due to pin-hole leaks and leakage at connections, all of which result in increased energy costs. Duratec's high-quality construction, on the other hand, guarantees consistent pressure for years to come.
- 9 Smooth Interior**

Less friction means lower pressure drops and higher flow rates. This may allow for smaller pipe sizes to be used.
- 10 Extended Life**

Duratec is designed not to rust, scale or pit. Once properly selected for the application and correctly installed, Duratec Airline Systems will provide years of maintenance-free service.
- 11 Corrosion Resistant**

Duratec's tough outer HDPE layer protects it against corrosion and deterioration and ensures long service life even in the most aggressive manufacturing environments. Its inner HDPE layer is unaffected by inert gases and commonly-used compressor oils. Combined with its industrial nickel-plated Duratec fittings, the system provides long-term performance superior to metal piping systems.
- 12 Fewer Fittings**

Duratec pipe comes in convenient 100 ft. and 300 ft. coils eliminating several joints and the need for threading, or soldering.
- 13 Safe**

Duratec's unique composite construction means that accidental impact or puncture of the pipe results in a safe, ductile mode of failure. Duratec pipe has been third-party tested and certified to stringent OSHA safety requirements for compressed air systems, standards that guarantee safety comes first.
- 14 Performance**

IPEX engineered Duratec pipe and fittings to provide top-notch performance. Rated for long term continuous operating pressures of 200psi at 73°F and 160psi at 140°F, Duratec pipe and fitting assemblies are also capable of sustaining quick burst pressures in excess of 800psi. This built-in safety factor ensures system performance and provides peace of mind for designers and facility managers.

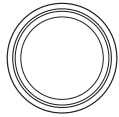
## SHORT FORM SPECIFICATIONS

All compressed air and inert gas pipe in sizes 1" and smaller shall be PE-AL-PE composite pipe made with high density polyethylene and aluminum conforming to ASTM F1282 and CSA B137.9. PE-AL-PE pipe shall meet the health and safety requirements of OSHA.

All compressed air and inert gas fittings in sizes 1" and smaller shall be nickel plated brass or 316 stainless steel and shall conform to the dimensional and physical requirements of ASTM F1974 and CSA B137.9. All pipe, fittings and accessories shall be Duratec Air-Line as manufactured by IPEX.

## PRODUCT SELECTION CHART – DURATEC AIRLINE

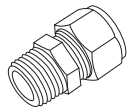
Dimension inches	Product Code	Coil Length feet
<b>HDPE-AL-HDPE</b> 200 psi @ 73°F, 160 psi @ 2140° F, ASTM F1282		



3/8	446024	100
3/8	446025	300
1/2	446026	100
1/2	446027	300
3/4	446030	100
3/4	446031	300
1	446032	100
1	446033	300

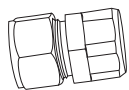
Dimension inches	Product Code
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### Duratec x Male Thread Adapter



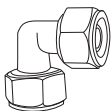
3/8 D1 x 1/4 MPT	438081
3/8 D1 x 3/8 MPT	438000
3/8 D1 x 1/2 MPT	438001
1/2 D1 x 1/2 MPT	438002
3/4 D1 x 3/4 MPT	438003
1 D1 x 1 MPT	438004

### Duratec x Female Thread Adapter



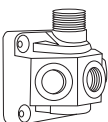
3/8 D1 x 1/2 FPT	438005
1/2 D1 x 1/2 FPT	438006
3/4 D1 x 3/4 FPT	438007
1 D1 x 1 FPT	438008

### Duratec x Duratec 90° Elbow



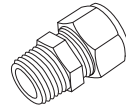
3/8 D1 x 3/8 D1	438079
1/2 D1 x 1/2 D1	438080
3/4 D1 x 3/4 D1	438067
1 D1 x 1 D1	438068

### Wall Bracket Multiport



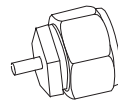
3/4 x 1/2	437338
Inlet - 3/4 MPT	
Outlet - 1/2 FPT	

Dimension inches	Product Code
<b>Duratec x Male Thread Adapter Stainless Steel</b>	



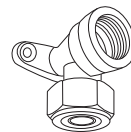
3/8 D1 x 3/8 MPT SS	438029
1/2 D1 x 1/2 MPT SS	438030
3/4 D1 x 3/4 MPT SS	438031
1 D1 x 1 MPT SS	438032

### Duratec Airline x Tubing Adapter



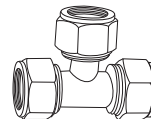
3/8 D1 x 1/4 MPT	438041
3/8 D1 x 3/8 MPT	438042
1/2 D1 x 1/2 MPT	438043
3/4 D1 x 3/4 MPT	438044
1 D1 x 1 MPT	438045

### Duratec x Female Thread Wing Back (or Drop-Ear) 90° Elbow



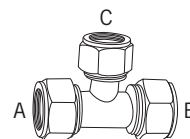
1/2 D1 x 1/2 FPT	438009
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### Duratec x Duratec x Duratec Tee



3/8	438033
1/2	438010
3/4	438011
1	438012

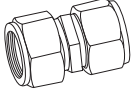
### Duratec x Duratec x Duratec Reducing Tee

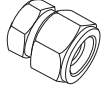



1/2 x 1/2 x 3/8	438034
3/4 x 1/2 x 1/2	438013
3/4 x 3/4 x 1/2	438014
3/4 x 1/2 x 3/4	438015
1 x 1 x 1/2	438016
1 x 3/4 x 3/4	438017
1 x 1 x 3/4	438018
A x B x C	

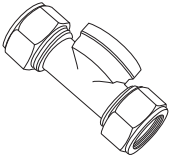



## PRODUCT SELECTION CHART – DURATEC AIRLINE

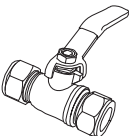
	Dimension inches	Product Code
	3/8	438020
	1/2	438021
	3/4	438022
	1	438023

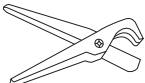
Duratec x Cap	Dimension inches	Product Code
	3/8	438036
	1/2	438026
	3/4	438027
	1	438028

5-in-1 Beveling Tool	Dimension inches	Product Code
	3/8" to 1" Beveling Tool	438050

Duratec x Duratec x Female Thread Tee	Dimension inches	Product Code
	1/2 D1 x 1/2 D1 x 1/2 FPT	438019
	3/4 D1 x 3/4 D1 x 1/2 FPT	438078


Duratec Reducing Coupling	Dimension inches	Product Code
	1/2 x 3/8	438035
	3/4 x 1/2	438024
	1 x 3/4	438025


Duratec Airline Ball Valve	Dimension inches	Product Code
	3/8	438037
	1/2	438038
	3/4	438039
	1	438040


Plastic Pipe Cutter	Dimension inches	Product Code
	3/8" to 1" Pipe Cutter	438051

Dimension inches	Product Code
-	438052

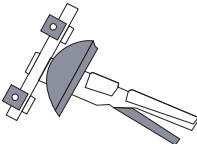
### Plastic Pipe Cutter Replacement SS Blade


Duratec Pipe Clip	Dimension inches	Product Code
	3/8	438063
	1/2	438064
	3/4	438065
	1	438066

Replacement Split Ring	Dimension inches	Product Code
	3/8 Split Ring D1	438046
	1/2 Split Ring D1	438047
	3/4 Split Ring D1	438048
	1 Split Ring D1	438049

Duratec Airline Replacement O-Ring	Dimension inches	Product Code
	3/8	438053
	1/2	438054
	3/4	438055
	1	438056

Protective Heat Shrink Sleeve	Dimension inches	Product Code
	4" Heatshrink Sleeve for 3/4", 1" Fittings	438061
	4" Heatshrink Sleeve for 1/2", 3/8" Fittings	438062

Composite Pipe Bending Tool Kit up to 1"	Dimension inches	Product Code
	1/2", 3/4", 1" Bending Tool Kit	438057

Composite Pipe Bending Spring	Dimension inches	Product Code
	1/2	438058
	3/4	438059
	1	438060



**DON'T SETTLE FOR A  
WEAK PLAYER ON YOUR  
CHAMPIONSHIP TEAM**

## Join the IPEX Winning Tradition

### Our Strength:

An all-star line-up of thermoplastic pipe, valves and fittings, designed and built to work together in any process piping application.

### The IPEX Advantage:

Only IPEX offers a complete system of pipe, valves and fittings engineered and manufactured to IPEX's strict quality, performance and dimensional standards. With Xirtec®140 (industrial grade PVC) and Corzan® (CPVC), you can be confident that all the material you need is designed, manufactured and backed by the same company.



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**Industrial Systems**

Tough Products for Tough Environments®

Corzan® is a registered trademark of Lubrizol Corp.

IPEX offers one of the most comprehensive ranges of high quality, high performance thermoplastic valves and actuation products available today. With more than 65 years of design and manufacturing experience, our lightweight, long life, maintenance free valves will save you time and money. Our high-tech automated manufacturing and testing facility ensures unparalleled reliability for each and every valve.

# THERMOPLASTIC VALVES



Ball Valves	122
Butterfly Valves	131
Diaphragm Valves	134
Check and Vent Valves	146
Specialty Valves	149
Quarter Turn Automation	154

# THERMOPLASTIC VALVES

## Manual & Actuated Thermoplastic Valves

IPEX offers one of the most comprehensive ranges of high quality, high performance thermoplastic valves and actuation products available today. With more than 50 years of design and manufacturing experience, our lightweight, long life, maintenance free valves will save you time and money.

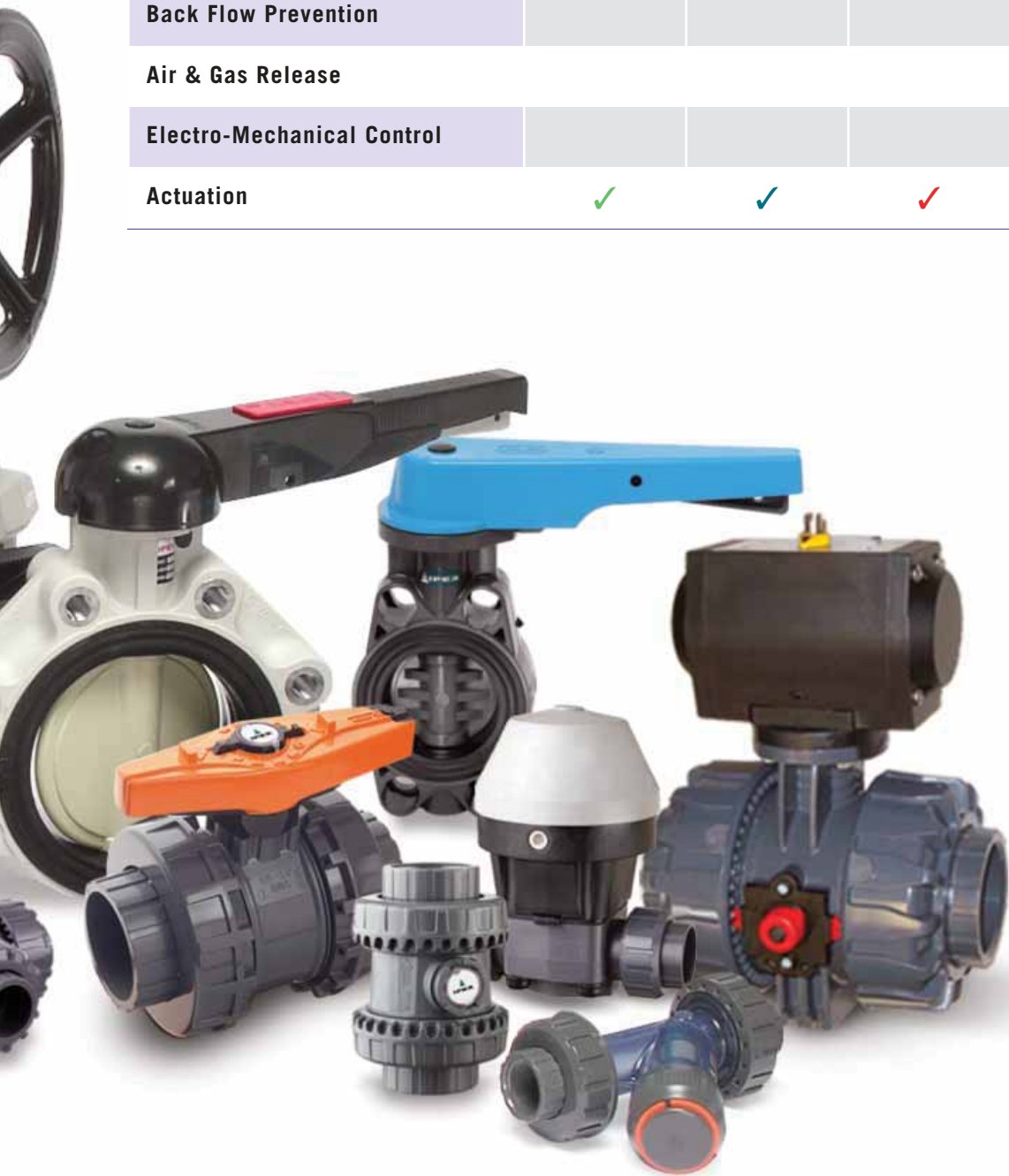
Material options such as PVC, CPVC, PP, PVDF, and ABS make our corrosion resistant valves ideal for use in a wide variety of applications. Quarter turn pneumatic and electric actuation, pneumatically actuated diaphragm valves, and many options and accessories allow for fully automated control. Whether a valve is required for isolation, diversion, control, or throttling, IPEX has a solution to meet your needs.

### APPLICATIONS

- Industrial Processes
- Chemical Production
- Water Treatment
- General Plumbing
- Water and Waste
- Irrigation
- Aquatic Life
- Pool and Spa



WHAT TYPE OF VALVE TO USE	Ball Valves	Butterfly Valves	Diaphragm Valves	Check & Vent Valves	Specialty Valves
On/Off Service	✓	✓			
High Capacity	✓	✓			
Throttling		✓	✓		✓
Quick & Frequent Cycling	✓				✓
Slurries/Dirty Fluids		✓	✓		
Filtering					✓
Back Flow Prevention				✓	
Air & Gas Release				✓	
Electro-Mechanical Control					✓
Actuation	✓	✓	✓		



## VKD SERIES BALL VALVES – TRUE UNION

The next generation industrial valve features the patented Dual Block® system which allows locking of the union nuts in a preset position, assuring seal integrity under severe service conditions. A patented seat stop carrier, high quality stem and ball support system, integral mounting flange and bracketing, and a multifunctional locking handle (standard on sizes 2-1/2" to 4") set this valve apart from the rest. The VKD is available in PVC, CPVC, PP, and ABS with PTFE seats and either EPDM or FPM seals.

Pressure: up to 232 psi at 73°F depending on the material  
 Sizes: 3/8" – 4"



End Conn.	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
-----------	-------------	--------------------	-------------------	--------------------	------------------

### PVC, w/ PTFE Seats

S/T	3/8	VKDBV102	253067	VKDBV202	253068
S/T	1/2	VKDBV103	053461	VKDBV203	053467
S/T	3/4	VKDBV104	053462	VKDBV204	053468
S/T	1	VKDBV105	053463	VKDBV205	053469
S/T	1-1/4	VKDBV106	053464	VKDBV206	053470
S/T	1-1/2	VKDBV107	053465	VKDBV207	053471
S/T	2	VKDBV108	053466	VKDBV208	053472
Socket	2-1/2	VKDAV109	053539	VKDAV209	053542
Socket	3	VKDAV110	053540	VKDAV210	053543
Socket	4	VKDAV111	053541	VKDAV211	053544

### Corzan® CPVC, w/ PTFE Seats

S/T	3/8	VKDBC102	253069	VKDBC202	253070
S/T	1/2	VKDBC103	053473	VKDBC203	253008
S/T	3/4	VKDBC104	053474	VKDBC204	253009
S/T	1	VKDBC105	053475	VKDBC205	253010
S/T	1-1/4	VKDBC106	053476	VKDBC206	253011
S/T	1-1/2	VKDBC107	053477	VKDBC207	253012
S/T	2	VKDBC108	053478	VKDBC208	253013
Socket	2-1/2	VKDAC109	053545	VKDAC209	053548
Socket	3	VKDAC110	053546	VKDAC210	053549
Socket	4	VKDAC111	053547	VKDAC211	053550

### PP, w/ PTFE Seats

Threaded	1/2	VKDFM103	053525	VKDFM203	253002
Threaded	3/4	VKDFM104	053526	VKDFM204	253003
Threaded	1	VKDFM105	053527	VKDFM205	253004
Threaded	1-1/4	VKDFM106	053528	VKDFM206	253005
Threaded	1-1/2	VKDFM107	053529	VKDFM207	253006
Threaded	2	VKDFM108	053530	VKDFM208	253007

### PP, w/ PTFE Seats

Socket	20mm	VKDIM103	053513	VKDIM203	053519
Socket	25mm	VKDIM104	053514	VKDIM204	053520
Socket	32mm	VKDIM105	053515	VKDIM205	053521
Socket	40mm	VKDIM106	053516	VKDIM206	053522
Socket	50mm	VKDIM107	053517	VKDIM207	053523
Socket	63mm	VKDIM108	053518	VKDIM208	053524

## TKD SERIES 3-WAY BALL VALVES – TRUE UNION

The TKD offers a host of advanced features that set it apart from other multi-port valves. The patented seat stop carrier allows for in-line micro-adjustment of the ball seating, and features o-ring cushioning to minimize wear and prevent seizing. Integral mounting flange and bracketing allows for direct actuation and simple support, while a locking handle can prevent improper positioning. The TKD is available in PVC & CPVC with PTFE seats and either EPDM or FPM seals. Other materials are available upon request.

Pressure: 232 psi at 73°F  
 Sizes: 1/2" – 2"



Ball valves are generally used for on/off service, but can range from simple molded-in-place construction to high-end industrial designs with many features and benefits. Multi-port ball valves allow for mixing, diverting, and bypassing flow. Extensive material options provide for complete chemical compatibility in highly corrosive processes. Many ball valves feature full port flow, blocking true union ends, and compact ergonomic designs allowing for simple installation and maintenance.

End Conn.	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### PVC, w/ PTFE Seats, L-Port

S/T	1/2	TKDLBV103	253844	TKDLBV203	253856
S/T	3/4	TKDLBV104	253845	TKDLBV204	253857
S/T	1	TKDLBV105	253846	TKDLBV205	253858
S/T	1-1/4	TKDLBV106	253847	TKDLBV206	253859
S/T	1-1/2	TKDLBV107	253848	TKDLBV207	253860
S/T	2	TKDLBV108	253849	TKDLBV208	253861

### PVC, w/ PTFE Seats, T-Port

S/T	1/2	TKDTBV103	253850	TKDTBV203	253862
S/T	3/4	TKDTBV104	253851	TKDTBV204	253863
S/T	1	TKDTBV105	253852	TKDTBV205	253864
S/T	1-1/4	TKDTBV106	253853	TKDTBV206	253865
S/T	1-1/2	TKDTBV107	253854	TKDTBV207	253866
S/T	2	TKDTBV108	253855	TKDTBV208	253867

### CPVC, w/ PTFE Seats, L-Port

S/T	1/2	TKDLBC103	253893	TKDLBC203	253905
S/T	3/4	TKDLBC104	253894	TKDLBC204	253922
S/T	1	TKDLBC105	253895	TKDLBC205	253906
S/T	1-1/4	TKDLBC106	253896	TKDLBC206	253923
S/T	1-1/2	TKDLBC107	253897	TKDLBC207	253924
S/T	2	TKDLBC108	253898	TKDLBC208	253925

### CPVC, w/ PTFE Seats, T-Port

S/T	1/2	TKDTBC103	253899	TKDTBC203	253907
S/T	3/4	TKDTBC104	253900	TKDTBC204	253908
S/T	1	TKDTBC105	253901	TKDTBC205	253909
S/T	1-1/4	TKDTBC106	253902	TKDTBC206	253910
S/T	1-1/2	TKDTBC107	253903	TKDTBC207	253911
S/T	2	TKDTBC108	253904	TKDTBC208	253912

## VKD AND TKD BALL VALVE ACCESSORIES

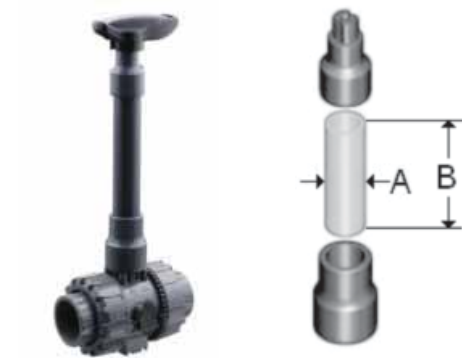


Size inches	Significant Number	Product Code
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### Locking Handle Kit - VKD & TKD

3/8 & 1/2	2KTSHKDEF	253014
3/4 & 1	2KTSHKDGH	253015
1-1/4 & 1-1/2	2KTSHKDIJ	253016
2	2KTSHKDLL	253017

Note: The locking attachment fits on the standard handle



Size inches	Dimensions		Significant Number	Product Code
	A	B (min)		

### Stem Extension Kit - VKD & TKD

3/8 & 1/2	25mm	2"	2KTPSKDEF	154062
3/4	25mm	2"	2KTPSKDGG	154063
1	25mm	2"	2KTPSKDDH	154064
1-1/4	32mm	2"	2KTPSKDII	154065
1-1/2	32mm	2"	2KTPSKDJJ	154066
2	32mm	2"	2KTPSKDLL	154067

Note: The kit includes top and bottom PVC components, as well as a 6" length of extension pipe that must be solvent welded together to achieve the desired extension length. The minimum length to which the extension pipe can be cut is shown in the adjacent table. For longer extensions, contact IPEX Customer Service.



Size inches	Significant Number	Product Code
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### Wall / Panel Mounting Kit - VKD only

3/8 thru 1	2KTPMKDO1	154322
1-1/4 thru 2	2KTPMKDO2	154323

Note: The kit includes the mounting plate, 2 brass inserts and 2 screws



Size inches	Significant Number	PVC Kit Product Code	Significant Number	CPVC Kit Product Code
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### ANSI 150 Flanging Kit - VKD & TKD

3/8 & 1/2	2BFFF1FV	154324	2BFFF1FC	154330
3/4	2BFFF1GV	154325	2BFFF1GC	154331
1	2BFFF1HV	154326	2BFFF1HC	154332
1-1/4	2BFFF1IV	154327	2BFFF1IC	154333
1-1/2	2BFFF1JV	154328	2BFFF1JC	154334
2	2BFFF1LV	154329	2BFFF1LC	154335

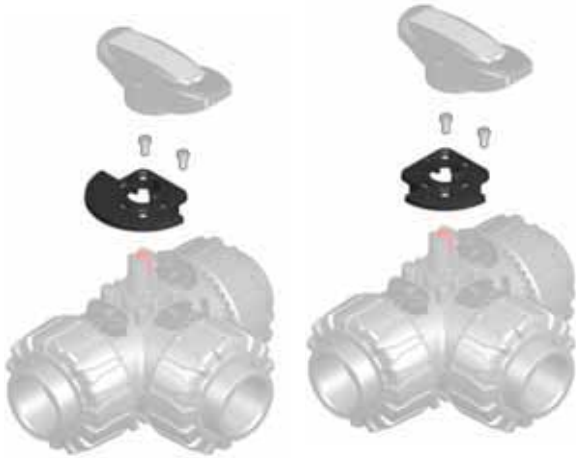
**PVC Kit** includes: 1 PVC Flange & Nut, 1 PVDF locking ring and 1 True union nut.

**CPVC Kit** includes: 1 CPVC Flange & Nut, 1 PVDF locking ring and 1 True union nut.

This is a NON-STOCKING item. For OEM business, please contact Customer Service for pricing and stocking options.



## VKD AND TKD BALL VALVE ACCESSORIES



Size inches	Significant Number	Product Code
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### Rotational Stroke Limiter 90° - TKD

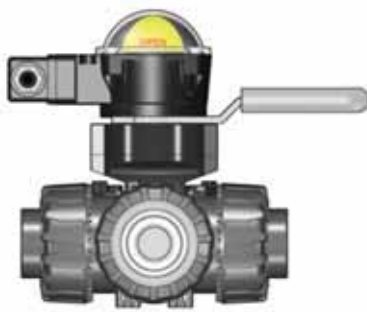
3/4 - 1/2	LTKD090020	253820
3/4 - 1	LTKD090032	253821
1-1/4 - 1-1/2	LTKD090050	253822
2	LTKD090063	253823

Note: The locking attachment fits on the standard handle

### Rotational Stroke Limiter 180° - TKD

3/4 - 1/2	LTKD180020	253824
3/4 - 1	LTKD180032	253825
1-1/4 - 1-1/2	LTKD180050	253826
2	LTKD180063	253827

Note: The locking attachment fits on the standard handle



### Electro-Mechanical Limit Switch - Manual VKD & TKD

* 1/2 - 1	MSKD1M	253940
* 1-1/4 - 2	MSKD2M	253941

Note: VKD mounting kit required

Note: For 90° rotation TKD only

\* This is a NON-STOCKING item. For OEM business, please contact IPEX customer service for stocking options.



### 2" Square Operating Nut for VKD & TKD Ball Valves

1/2	-	253075
3/4	-	253076
1	-	253077
1-1/4	-	253078
1-1/2	-	253079
2	-	253080
2-1/2	-	253150
3	-	253151
4	-	253152

Note: 1/2" thru 2" operating nuts used on VLD & TKD ball valves  
2-1/2" thru 4" operating nuts used on VKD ball valves



Connector Size (mm)	Part Number	Valve Size (in)
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### End Connector PVC (Soc)

20	253975	1/2"
25	253976	3/4"
32	253977	1"
40	253978	1-1/4"
50	253979	1-1/2"
63	253980	2"

Connector Size (mm)	Part Number	Valve Size (in)
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### End Connector CPVC (Soc)

20	253981	1/2"
25	253982	3/4"
32	253983	1"
40	253984	1-1/4"
50	253985	1-1/2"
63	253986	2"

Compatible with VKD, TKD, VXE, VEE, SXE, RV

## VXE/VX SERIES BALL VALVES – TRUE UNION

These ultra-compact valves feature a full-port, bi-directional double block design. The true union style allows the valve to be easily removed from the piping system and fully serviced. A threaded seat stop carrier provides improved seal integrity under tough service conditions while the removable handle also functions as a tool for ball seat adjustment.

The EasyFit VXE Series True Union Ball Valves represent the latest innovation in thermoplastic ball valve manufacturing technology. The VXE Series is designed for industrial, general purpose and O.E.M applications. This valve features an ultra-compact double block design, and full port bi-directional operation. The true union design allows the valve to be easily removed from the piping system and fully serviced. A threaded seat stop carrier provides improved seal integrity under tough service conditions while the **EASYFIT** multifunction handle doubles as a tool for ball seat adjustment, and for tightening union nuts precisely.

VXE



End Conn.	Size inches	EPDM		FPM	
		Significant Number	Product Code	Significant Number	Product Code

### PVC, w/ PTFE Seats (EPDM)

S/T	1/2	VXEBV103	353001	VXEBV203	353002
S/T	3/4	VXEBV104	353003	VXEBV204	353004
S/T	1	VXEBV105	353005	VXEBV205	353006
S/T	1-1/4	VXEBV106	353007	VXEBV206	353008
S/T	1-1/2	VXEBV107	353009	VXEBV207	353010
S/T	2	VXEBV108	353011	VXEBV208	353012
Socket	2-1/2	VXEAV109	353623	VXEAV209	353624
Socket	3	VXEAV110	353013	VXEAV210	353014
Socket	4	VXEAV111	353015	VXEAV211	353016
Threaded	3	VXEFV110	353017	VXEFV210	353018
Threaded	4	VXEFV111	353019	VXEFV211	353020
* Socket	6	VXEAV113	353625	VXEAV213	353626
Flanged	1/2	VXEOV103	353627	VXEOV203	353637
Flanged	3/4	VXEOV104	353628	VXEOV204	353638
Flanged	1	VXEOV105	353629	VXEOV205	353639
Flanged	1-1/4	VXEOV106	353630	VXEOV206	353640
Flanged	1-1/2	VXEOV107	353631	VXEOV207	353641
Flanged	2	VXEOV108	353632	VXEOV208	353642
Flanged	2-1/2	VXEOV109	353633	VXEOV209	353643
Flanged	3	VXEOV110	353634	VXEOV210	353644
Flanged	4	VXEOV111	353635	VXEOV211	353645
* Flanged	6	VXEOV113	353636	VXEOV213	353646

\* Note: The 6" valve is a 4" with Venturied ends.

Pressure: up to 232 psi at 73°F depending on the size  
 Sizes 1/2" - 6"

## EXAMPLE APPLICATIONS

- ✓ Plant water supply and distribution
- ✓ Wash-water and recovery systems
- ✓ Acid Products Handling for Refineries, Metal Works, etc.
- ✓ Alum and Ferric Chloride Handling
- ✓ Pulp and Chemical Recovery Systems
- ✓ Deionized Water
- ✓ Water treatment
- ✓ Swimming pools
- ✓ Chlorine Injection Systems Bleach, Dye and Acid Lines
- ✓ Aquariums
- ✓ Irrigation

End Conn.	Size inches	EPDM		FPM	
		Significant Number	Product Code	Significant Number	Product Code

### Corzan® CPVC, w/ PTFE Seats

S/T	1/2	VXEBC103	353041	VXEBC203	353042
S/T	3/4	VXEBC104	353043	VXEBC204	353044
S/T	1	VXEBC105	353045	VXEBC205	353046
S/T	1-1/4	VXEBC106	353047	VXEBC206	353048
S/T	1-1/2	VXEBC107	353049	VXEBC207	353050
S/T	2	VXEBC108	353051	VXEBC208	353052
Socket	2-1/2	VXEAC109	353647	VXEAC209	353648
Socket	3	VXEAC110	353053	VXEAC210	353054
Socket	4	VXEAC111	353055	VXEAC211	353056
Threaded	3	VXEFC110	353057	VXEFC210	353058
Threaded	4	VXEFC111	353059	VXEFC211	353060
* Socket	6	VXEAC113	353649	VXEAC213	353650
Flanged	1/2	VXEOC103	353651	VXEOC203	353661
Flanged	3/4	VXEOC104	353652	VXEOC204	353662
Flanged	1	VXEOC105	353653	VXEOC205	353663
Flanged	1-1/4	VXEOC106	353654	VXEOC206	353664
Flanged	1-1/2	VXEOC107	353655	VXEOC207	353665
Flanged	2	VXEOC108	353656	VXEOC208	353666
Flanged	2-1/2	VXEOC109	353657	VXEOC209	353667
Flanged	3	VXEOC110	353658	VXEOC210	353668
Flanged	4	VXEOC111	353659	VXEOC211	353669
* Flanged	6	VXEOC113	353660	VXEOC213	353670

\* Note: The 6" valve is a 4" with Venturied ends.

## VEE SERIES BALL VALVES – TRUE UNION

The VEE is ideal for light industrial and water applications. The VEE shares many features with the VXE such as the ultra-compact double block design, and full port bi-directional operation. A threaded seat stop carrier provides improved seal integrity under tough service conditions while the removable handle also functions as a tool for ball seat adjustment. The VEE also features the EASYFIT multifunction handle which doubles as a tool for ball seat adjustment and for tightening union nuts precisely. The VEE is also available exclusively in PVC with EPDM seals and either socket or threaded end connections.

Pressure: 232 psi at 73°F

Sizes: 1/2" – 2"



End Connection	Size inches	Significant Number	VEE Product Code
<b>PVC, EPDM w/ PTFE-HDPE Seats</b>			
Socket	1/2	VEEAV103	353373
Socket	3/4	VEEAV104	353124
Socket	1	VEEAV105	353125
Socket	1-1/4	VEEAV106	353126
Socket	1-1/2	VEEAV107	353127
Socket	2	VEEAV108	353128
Threaded	1/2	VEEFV203	353374
Threaded	3/4	VEEFV204	353215
Threaded	1	VEEFV205	353217
Threaded	1-1/4	VEEFV206	353219
Threaded	1-1/2	VEEFV207	353220
Threaded	2	VEEFV208	353221

### EXAMPLE APPLICATIONS

- ✓ Swimming pools
- ✓ Aquariums
- ✓ Light duty industrial

## EASYFIT VALVE ACCESSORIES

The Easytorque kit is the new innovative tool designed by IPEX for optimal tightening of all threaded components on our EASYFIT valves.

The kit has been developed to precisely adjust the tightening torque of the VKD, VXE and VEE ball seat carrier, SXE main seal safe blocked carrier, and all EASYFIT valve union nuts by applying the proper torque as specified by the manufacturer.

The use of the Easytorque kit is recommended to minimize mechanical stresses on thermoplastic threads caused by overtightening. This tool will help prevent fluid leakage, optimize ball valve operation and minimize the wear on the elastomeric seals. The use of the EASYFIT torque wrench also reduces the risk of using metal wrenches or channel locks, thus causing accidental damage to the union nuts.

## EASYFIT LABELLING SYSTEM

It is often necessary to customize a valve by labelling or tagging it in order to mark and identify it according to specific needs or service. The EasyFit Labelling System is a complete product line developed to customize individual valves, and includes all the necessary tools: LCE Module, LSE Set and the EasyFit software. Available for the VXE, VEE and SXE.



Size inches	Significant Number	Product Code
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### EasyTorque Kit

1/2 - 2	EASYTORQUE	253926
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EasyTorque Kit includes: Torque Wrench, 6 Union Nut Inserts and 6 Seat Carrier Inserts.



Size inches	Significant Number	Product Code
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### LCE Module (Clear PVC plug w PVC label holder)

1/2	LCE020	253927
3/4	LCE025	253928
1	LCE032	253930
1-1/4	LCE040	253931
1-1/2	LCE050	253932
2	LCE063	253933

### LSE Labels - Adhesive, Die Cut Labels

1/2	LSE020	253929
3/4	LSE025	253934
1	LSE032	253935
1-1/4	LSE040	253936
1-1/2	LSE050	253937
2	LSE063	253938

### EasyFit Multi-Functional Handle

1/2	HSVXE020	253875
3/4	HSVXE025	253876
1	HSVXE032	253877
1-1/4	HSVXE040	253878
1-1/2	HSVXE050	253879
2	HSVXE063	253880

Can be used for union nut rotational control and ball seat carrier adjustment of VEE, VXE and SXE.

Kit includes handle body, transparent cap and tag holder.

## MP SERIES COMPACT BALL VALVES

Available in both Schedule 80 grey PVC and Schedule 40 white PVC, with either socket or threaded connections. EPDM seals and PTFE seats make this valve ideally suited to all kinds of plumbing and industrial applications where a compact, inexpensive on/off valve is required.

Pressure: 150 psi at 73°F

Sizes: 1/2" – 2"



End Conn.	Size inches	Significant Number	Sch 80 Grey Product Code	Significant Number	Sch 40 White Product Code
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### PVC, EPDM w/ PTFE

Socket	1/2	MPAV103	052000	MPAW103	052277
Socket	3/4	MPAV104	052006	MPAW104	052278
Socket	1	MPAV105	052007	MPAW105	052279
Socket	1-1/4	MPAV106	052009	MPAW106	052280
Socket	1-1/2	MPAV107	052019	MPAW107	052281
Socket	2	MPAV108	052024	MPAW108	052282

### PVC, EPDM w/ PTFE

Threaded	1/2	052026	052026	MPFW103	052283
Threaded	3/4	052029	052029	MPFW104	052284
Threaded	1	052107	052107	MPFW105	052285
Threaded	1-1/4	052108	052108	MPFW106	052286
Threaded	1-1/2	052109	052109	MPFW107	052287
Threaded	2	052144	052144	MPFW108	052288

## FK SERIES BUTTERFLY VALVES

The FK offers superior strength as well as excellent chemical resistance needed to operate in the corrosive environments often found near flanged connections. The special trapezoid shape of the liner and a serrated body cavity guarantee a bubble tight seal while keeping break-away torque at an absolute minimum. Double self-lubricating seals (available in either EPDM or FPM), direct actuator mount capability, and choice of a lever handle or mounted gear box are just a few more features of this technologically advanced valve. The body is made of standard glass-filled PP while discs are available in PP, PVC, CPVC, PVDF, and ABS.

Pressure: up to 150 psi at 73°F depending on the size

Sizes: 1-1/2" – 12"



EASYFIT  
HANDLE



WITH MOUNTED  
GEAR BOX

Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### PP Disc, Wafer Style

1-1/2	FKOM107	053198	FKOM207	053200
2	FKOM108	053199	FKOM208	053201
2-1/2	FKOM109	052145	FKOM209	052147
3	FKOM110	053105	FKOM210	053153
4	FKOM111	053106	FKOM211	053154
5	FKOM112	052146	FKOM212	052148
6	FKOM113	053107	FKOM213	053155
8	FKOM114	053108	FKOM214	053156

Size inches	Significant Number	Product Code
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### Infinite Adjustable Handle Kit

1-1/2 & 2	2KTFKRFOIP	154173
2-1/2	2KTFKRF1IP	153968
3 & 4	2KTFKRF2IP	153969
5 & 6	2KTFKRF3IP	153970
8	2KTFKRF4IP	153971

Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### PP Disc, Wafer Style, Gear Box

2-1/2	FKOM109G	253145	FKOM209G	253147
3	FKOM110G	253105	FKOM210G	253153
4	FKOM111G	253106	FKOM211G	253154
5	FKOM112G	253146	FKOM212G	253148
6	FKOM113G	253107	FKOM213G	253155
8	FKOM114G	253108	FKOM214G	253156
10	FKOM115	153014	FKOM215	153016
12	FKOM116	153015	FKOM216	153017

## FK SERIES LUGGED BUTTERFLY VALVES

This FK version features the world's first integral lug design. Unlike other plastic butterfly valves, these valves feature stainless steel lugs permanently anchored in the body of the valve. This unique design provides for full bi-directional operation, and allows disassembly and assembly of the downstream flange connection without weakening the integrity of the upstream connection to the pressurized line. The same body, disc, and seal material options as the normal FK are available for the lugged version.

Pressure: up to 150 psi at 73°F depending on the size  
 Sizes: 2-1/2" – 12"



EASYFIT HANDLE



WITH MOUNTED GEAR BOX

Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### PP Disc, SS Lugs

2-1/2	FKLM109	053133	FKLM209	053139
3	FKLM110	053134	FKLM210	053140
4	FKLM111	053135	FKLM211	053141
5	FKLM112	053105	FKLM212	053142
6	FKLM113	053136	FKLM213	053143
8	FKLM114	053138	FKLM214	053144

Note: PVC, CPVC, ABS, and PVDF discs are available on request.

### PP Disc, SS Lugs, Gear Box

2-1/2	FKLM109G	253133	FKLM209G	253139
3	FKLM110G	253134	FKLM210G	253140
4	FKLM111G	253135	FKLM211G	253141
5	FKLM112G	253136	FKLM212G	253142
6	FKLM113G	253137	FKLM213G	253143
8	FKLM114G	253138	FKLM214G	253144
10	FKLM115G	053328	FKLM215G	053330
12	FKLM116G	053329	FKLM216G	053331

Note: PVC, CPVC, ABS, and PVDF discs are available upon request. 14" – 24" butterfly valves are available on request.

Gear operated valves are made-to-order.



## FE SERIES BUTTERFLY VALVES

The FE incorporates many of the features and benefits of our industrial FK valve yet is one of the most competitively priced thermoplastic butterfly valves available today. The all PVC construction with EPDM liner makes this valve the perfect choice for applications ranging from swimming pools to chemical processes. The FE can be operated by either a lever handle or mounted gear box.

Pressure: up to 150 psi at 73°F depending on the size  
 Sizes: 1-1/2" – 12"



EASYFIT  
HANDLE



WITH MOUNTED  
GEAR BOX

Size inches	Significant Number	EPDM Product Code
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### PVC Body & Disc, Wafer Style

1-1/2	FEOV107	053202
2	FEOV108	053203
2-1/2	FEOV109	053842
3	FEOV110	053081
4	FEOV111	053082
5	FEOV112	053843
6	FEOV113	053083
8	FEOV114	053084

NBR and Viton® lined valves are available upon request.

### PVC Body & Disc, Wafer Style, Gear Box

2-1/2	FEOV109G	253842
3	FEOV110G	253081
4	FEOV111G	253082
5	FEOV112G	253843
6	FEOV113G	253083
8	FEOV114G	253084
10	FEOV115G	052264
12	FEOV116G	052265

NBR and Viton® lined valves are available upon request.

These highly versatile valves can be used for simple on/off service but also for processes requiring precise throttling. End-of-line installation of a lugged version allows for downstream piping disassembly with the upstream system still under pressure. The extensive size range and material availability make them suitable for a wide range of applications. With simple, direct mounting for actuation, automated process control can be easily achieved.

## VM SERIES DIAPHRAGM VALVES – MANUAL HAND WHEEL

The VM series weir-style diaphragm valves are available in PVC, CPVC, PP, or PVDF, four body styles, and three choices of diaphragms (EPDM, FPM, or PTFE). Able to be mounted in any position, the VM is ideal for either very clean or abrasive slurry applications. A unique and proprietary PTFE diaphragm design, available automation, and multiple accessories make this one of the most advanced and versatile lines in the industry.

Pressure: up to 150 psi at 73°F depending on the size  
 Size: 2-1/2" – 4"



End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code	Significant Number	PTFE Product Code
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### PVC Body

Spigot	1/2	VMYV103	054175	VMYV203	054184	VMYV303	054193
Spigot	3/4	VMYV104	054176	VMYV204	054185	VMYV304	054194
Spigot	1	VMYV105	054177	VMYV205	054186	VMYV305	054195
Spigot	1-1/4	VMYV106	054178	VMYV206	054187	VMYV306	054196
Spigot	1-1/2	VMYV107	054179	VMYV207	054188	VMYV307	054197
Spigot	2	VMYV108	054180	VMYV208	054189	VMYV308	054198
Spigot	2-1/2	VMYV109	054181	VMYV209	054190	VMYV309	054199
Spigot	3	VMYV110	054182	VMYV210	054191	VMYV310	054200
Spigot	4	VMYV111	054183	VMYV211	054192	VMYV311	054201

### PVC Body

T/U	1/2	VMUV103	054202	VMUV203	054214	VMUV303	054208
T/U	3/4	VMUV104	054203	VMUV204	054215	VMUV304	054209
T/U	1	VMUV105	054204	VMUV205	054216	VMUV305	054210
T/U	1-1/4	VMUV106	054205	VMUV206	054217	VMUV306	054211
T/U	1-1/2	VMUV107	054206	VMUV207	054218	VMUV307	054212
T/U	2	VMUV108	054207	VMUV208	054219	VMUV308	054213

### PVC Body

Flanged	1/2	VMOV103	054220	VMOV203	054229	VMOV303	054238
Flanged	3/4	VMOV104	054221	VMOV204	054230	VMOV304	054239
Flanged	1	VMOV105	054222	VMOV205	054231	VMOV305	054240
Flanged	1-1/4	VMOV106	054223	VMOV206	054232	VMOV306	054241
Flanged	1-1/2	VMOV107	054224	VMOV207	054233	VMOV307	054242
Flanged	2	VMOV108	054225	VMOV208	054234	VMOV308	054243
Flanged	2-1/2	VMOV109	054226	VMOV209	054235	VMOV309	054244
Flanged	3	VMOV110	054227	VMOV210	054236	VMOV310	054245
Flanged	4	VMOV111	054228	VMOV211	054237	VMOV311	054246

# VM SERIES DIAPHRAGM VALVES – MANUAL HAND WHEEL



End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code	Significant Number	PTFE Product Code
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## Corzan® CPVC Body

Spigot	1/2	VMYC103	054247	VMYC203	054256	VMYC303	054265
Spigot	3/4	VMYC104	054248	VMYC204	054257	VMYC304	054266
Spigot	1	VMYC105	054249	VMYC205	054258	VMYC305	054267
Spigot	1-1/4	VMYC106	054250	VMYC206	054259	VMYC306	054268
Spigot	1-1/2	VMYC107	054251	VMYC207	054260	VMYC307	054269
Spigot	2	VMYC108	054252	VMYC208	054261	VMYC308	054270
Spigot	2-1/2	VMYC109	054253	VMYC209	054262	VMYC309	054271
Spigot	3	VMYC110	054254	VMYC210	054263	VMYC310	054272
Spigot	4	VMYC111	054255	VMYC211	054264	VMYC311	054273

## Corzan® CPVC Body

T/U	1/2	VMUC103	054274	VMUC203	054280	VMUC303	054286
T/U	3/4	VMUC104	054275	VMUC204	054281	VMUC304	054287
T/U	1	VMUC105	054276	VMUC205	054282	VMUC305	054288
T/U	1-1/4	VMUC106	054277	VMUC206	054283	VMUC306	054289
T/U	1-1/2	VMUC107	054278	VMUC207	054284	VMUC307	054290
T/U	2	VMUC108	054279	VMUC208	054285	VMUC308	054291

## Corzan® CPVC Body

Flanged	1/2	VMOC103	054292	VMOC203	054301	VMOC303	054310
Flanged	3/4	VMOC104	054293	VMOC204	054302	VMOC304	054311
Flanged	1	VMOC105	054294	VMOC205	054303	VMOC305	054312
Flanged	1-1/4	VMOC106	054295	VMOC206	054304	VMOC306	054313
Flanged	1-1/2	VMOC107	054296	VMOC207	054305	VMOC307	054314
Flanged	2	VMOC108	054297	VMOC208	054306	VMOC308	054315
Flanged	2-1/2	VMOC109	054298	VMOC209	054307	VMOC309	054316
Flanged	3	VMOC110	054299	VMOC210	054308	VMOC310	054317
Flanged	4	VMOC111	054300	VMOC211	054309	VMOC311	054318

End Connection	Size mm	Significant Number	EPDM Product Code	Significant Number	FPM Product Code	Significant Number	PTFE Product Code
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## PP Body

Spigot	20mm	VMDM103	054319	VMDM203	054328	VMDM303	054337
Spigot	25mm	VMDM104	054320	VMDM204	054329	VMDM304	054338
Spigot	32mm	VMDM105	054321	VMDM205	054330	VMDM305	054339
Spigot	40mm	VMDM106	054322	VMDM206	054331	VMDM306	054340
Spigot	50mm	VMDM107	054323	VMDM207	054332	VMDM307	054341
Spigot	63mm	VMDM108	054324	VMDM208	054333	VMDM308	054342
Spigot	75mm	VMDM109	054325	VMDM209	054334	VMDM309	054343
Spigot	90mm	VMDM110	054326	VMDM210	054335	VMDM310	054344
Spigot	110mm	VMDM111	054327	VMDM211	054336	VMDM311	054345

## PP Body

T/U	20mm	VMUM103	054346	VMUM203	054352	VMUM303	054358
T/U	25mm	VMUM104	054347	VMUM204	054353	VMUM304	054359
T/U	32mm	VMUM105	054348	VMUM205	054354	VMUM305	054360
T/U	40mm	VMUM106	054349	VMUM206	054355	VMUM306	054361
T/U	50mm	VMUM107	054350	VMUM207	054356	VMUM307	054362
T/U	63mm	VMUM108	054351	VMUM208	054357	VMUM308	054363

Note: EPDM diaphragms have EPDM o-rings, Viton® and PTFE diaphragms have Viton® o-rings. For ABS and u-PP VM diaphragm valves, please refer to the Duraplus ABS Industrial and Enpure. Other options are available on request. VM Series Diaphragm valves are made-to-order.

## VM SERIES PNEUMATIC DIAPHRAGM VALVES – NORMALLY OPEN (AIR TO AIR) PNEUMATIC

Pressure: up to 150 psi at 73°F depending on the size  
 Size: 1/2" – 4"



End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code	Significant Number	PTFE Product Code
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### PVC Body

Spigot	1/2	VMYV103-NO	054410	VMYV203-NO	054419	VMYV303-NO	054428
Spigot	3/4	VMYV104-NO	054411	VMYV204-NO	054420	VMYV304-NO	054429
Spigot	1	VMYV105-NO	054412	VMYV205-NO	054421	VMYV305-NO	054430
Spigot	1-1/4	VMYV106-NO	054413	VMYV206-NO	054422	VMYV306-NO	054431
Spigot	1-1/2	VMYV107-NO	054414	VMYV207-NO	054423	VMYV307-NO	054432
Spigot	2	VMYV108-NO	054415	VMYV208-NO	054424	VMYV308-NO	054433
Spigot	2-1/2	VMYV109-NO	054416	VMYV209-NO	054425	VMYV309-NO	054434
Spigot	3	VMYV110-NO	054417	VMYV210-NO	054426	VMYV310-NO	054435
Spigot	4	VMYV111-NO	054418	VMYV211-NO	054427	VMYV311-NO	054436

### PVC Body

T/U	1/2	VMUV103-NO	054437	VMUV203-NO	054443	VMUV303-NO	054449
T/U	3/4	VMUV104-NO	054438	VMUV204-NO	054444	VMUV304-NO	054450
T/U	1	VMUV105-NO	054439	VMUV205-NO	054445	VMUV305-NO	054451
T/U	1-1/4	VMUV106-NO	054440	VMUV206-NO	054446	VMUV306-NO	054452
T/U	1-1/2	VMUV107-NO	054441	VMUV207-NO	054447	VMUV307-NO	054453
T/U	2	VMUV108-NO	054442	VMUV208-NO	054448	VMUV308-NO	054454

### PVC Body

Flanged	1/2	VMOV103-NO	054455	VMOV203-NO	054464	VMOV303-NO	054473
Flanged	3/4	VMOV104-NO	054456	VMOV204-NO	054465	VMOV304-NO	054474
Flanged	1	VMOV105-NO	054457	VMOV205-NO	054466	VMOV305-NO	054475
Flanged	1-1/4	VMOV106-NO	054458	VMOV206-NO	054467	VMOV306-NO	054476
Flanged	1-1/2	VMOV107-NO	054459	VMOV207-NO	054468	VMOV307-NO	054477
Flanged	2	VMOV108-NO	054460	VMOV208-NO	054469	VMOV308-NO	054478
Flanged	2-1/2	VMOV109-NO	054461	VMOV209-NO	054470	VMOV309-NO	054479
Flanged	3	VMOV110-NO	054462	VMOV210-NO	054471	VMOV310-NO	054480
Flanged	4	VMOV111-NO	054463	VMOV211-NO	054472	VMOV311-NO	054481



## VM SERIES PNEUMATIC DIAPHRAGM VALVES – NORMALLY OPEN (AIR TO AIR) PNEUMATIC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code	Significant Number	PTFE Product Code
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### Corzan® CPVC Body

Spigot	1/2	VMYC103-NO	054482	VMYC203-NO	054491	VMYC303-NO	054500
Spigot	3/4	VMYC104-NO	054483	VMYC204-NO	054492	VMYC304-NO	054501
Spigot	1	VMYC105-NO	054484	VMYC205-NO	054493	VMYC305-NO	054502
Spigot	1-1/4	VMYC106-NO	054485	VMYC206-NO	054494	VMYC306-NO	054503
Spigot	1-1/2	VMYC107-NO	054486	VMYC207-NO	054495	VMYC307-NO	054504
Spigot	2	VMYC108-NO	054487	VMYC208-NO	054496	VMYC308-NO	054505
Spigot	2-1/2	VMYC109-NO	054488	VMYC209-NO	054497	VMYC309-NO	054506
Spigot	3	VMYC110-NO	054489	VMYC210-NO	054498	VMYC310-NO	054507
Spigot	4	VMYC111-NO	054490	VMYC211-NO	054499	VMYC311-NO	054508

### Corzan® CPVC Body

T/U	1/2	VMUC103-NO	054509	VMUC203-NO	054515	VMUC303-NO	054521
T/U	3/4	VMUC104-NO	054510	VMUC204-NO	054516	VMUC304-NO	054522
T/U	1	VMUC105-NO	054511	VMUC205-NO	054517	VMUC305-NO	054523
T/U	1-1/4	VMUC106-NO	054512	VMUC206-NO	054518	VMUC306-NO	054524
T/U	1-1/2	VMUC107-NO	054513	VMUC207-NO	054519	VMUC307-NO	054525
T/U	2	VMUC108-NO	054514	VMUC208-NO	054520	VMUC308-NO	054526

### Corzan® CPVC Body

Flanged	1/2	VMOC103-NO	054527	VMOC203-NO	054536	VMOC303-NO	054545
Flanged	3/4	VMOC104-NO	054528	VMOC204-NO	054537	VMOC304-NO	054546
Flanged	1	VMOC105-NO	054529	VMOC205-NO	054538	VMOC305-NO	054547
Flanged	1-1/4	VMOC106-NO	054530	VMOC206-NO	054539	VMOC306-NO	054548
Flanged	1-1/2	VMOC107-NO	054531	VMOC207-NO	054540	VMOC307-NO	054549
Flanged	2	VMOC108-NO	054532	VMOC208-NO	054541	VMOC308-NO	054550
Flanged	2-1/2	VMOC109-NO	054533	VMOC209-NO	054542	VMOC309-NO	054551
Flanged	3	VMOC110-NO	054534	VMOC210-NO	054543	VMOC310-NO	054552
Flanged	4	VMOC111-NO	054535	VMOC211-NO	054544	VMOC311-NO	054553

End Connection	Size mm	Significant Number	EPDM Product Code	Significant Number	FPM Product Code	Significant Number	PTFE Product Code
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### PP Body

Spigot	20mm	VMDM103-NO	054554	VMDM203-NO	054563	VMDM303-NO	054572
Spigot	25mm	VMDM104-NO	054555	VMDM204-NO	054564	VMDM304-NO	054573
Spigot	32mm	VMDM105-NO	054556	VMDM205-NO	054565	VMDM305-NO	054574
Spigot	40mm	VMDM106-NO	054557	VMDM206-NO	054566	VMDM306-NO	054575
Spigot	50mm	VMDM107-NO	054558	VMDM207-NO	054567	VMDM307-NO	054576
Spigot	63mm	VMDM108-NO	054559	VMDM208-NO	054568	VMDM308-NO	054577
Spigot	75mm	VMDM109-NO	054560	VMDM209-NO	054569	VMDM309-NO	054578
Spigot	90mm	VMDM110-NO	054561	VMDM210-NO	054570	VMDM310-NO	054579
Spigot	110mm	VMDM111-NO	054562	VMDM211-NO	054571	VMDM311-NO	054580

### PP Body

T/U	20mm	VMUM103-NO	054581	VMUM203-NO	054587	VMUM303-NO	054593
T/U	25mm	VMUM104-NO	054582	VMUM204-NO	054588	VMUM304-NO	054594
T/U	32mm	VMUM105-NO	054583	VMUM205-NO	054589	VMUM305-NO	054595
T/U	40mm	VMUM106-NO	054584	VMUM206-NO	054590	VMUM306-NO	054596
T/U	50mm	VMUM107-NO	054585	VMUM207-NO	054591	VMUM307-NO	054597
T/U	63mm	VMUM108-NO	054586	VMUM208-NO	054592	VMUM308-NO	054598

Note: EPDM diaphragms have EPDM o-rings, Viton® and PTFE diaphragms have Viton® o-rings. For ABS and u-PP VM diaphragm valves, please refer to the Duraplus ABS Industrial and Enpure. Other options are available on request. VM Series Diaphragm valves are made-to-order.

## VM SERIES PNEUMATIC DIAPHRAGM VALVES – NORMALLY CLOSED PNEUMATIC

Pressure: up to 150 psi at 73°F depending on the size  
 Size: 1/2" – 4"



End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code	Significant Number	PTFE Product Code
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### PVC Body

Spigot	1/2	VMYV103-NC	054644	VMYV203-NC	054653	VMYV303-NC	054662
Spigot	3/4	VMYV104-NC	054645	VMYV204-NC	054654	VMYV304-NC	054663
Spigot	1	VMYV105-NC	054646	VMYV205-NC	054655	VMYV305-NC	054664
Spigot	1-1/4	VMYV106-NC	054647	VMYV206-NC	054656	VMYV306-NC	054665
Spigot	1-1/2	VMYV107-NC	054648	VMYV207-NC	054657	VMYV307-NC	054666
Spigot	2	VMYV108-NC	054649	VMYV208-NC	054658	VMYV308-NC	054667
Spigot	2-1/2	VMYV109-NC	054650	VMYV209-NC	054659	VMYV309-NC	054668
Spigot	3	VMYV110-NC	054651	VMYV210-NC	054660	VMYV310-NC	054669
Spigot	4	VMYV111-NC	054652	VMYV211-NC	054661	VMYV311-NC	054670

### PVC Body

T/U	1/2	VMUV103-NC	054671	VMUV203-NC	054677	VMUV303-NC	054683
T/U	3/4	VMUV104-NC	054672	VMUV204-NC	054678	VMUV304-NC	054684
T/U	1	VMUV105-NC	054673	VMUV205-NC	054679	VMUV305-NC	054685
T/U	1-1/4	VMUV106-NC	054674	VMUV206-NC	054680	VMUV306-NC	054686
T/U	1-1/2	VMUV107-NC	054675	VMUV207-NC	054681	VMUV307-NC	054687
T/U	2	VMUV108-NC	054676	VMUV208-NC	054682	VMUV308-NC	054688

### PVC Body

Flanged	1/2	VMOV103-NC	054689	VMOV203-NC	054698	VMOV303-NC	054707
Flanged	3/4	VMOV104-NC	054690	VMOV204-NC	054699	VMOV304-NC	054708
Flanged	1	VMOV105-NC	054691	VMOV205-NC	054700	VMOV305-NC	054709
Flanged	1-1/4	VMOV106-NC	054692	VMOV206-NC	054701	VMOV306-NC	054710
Flanged	1-1/2	VMOV107-NC	054693	VMOV207-NC	054702	VMOV307-NC	054711
Flanged	2	VMOV108-NC	054694	VMOV208-NC	054703	VMOV308-NC	054712
Flanged	2-1/2	VMOV109-NC	054695	VMOV209-NC	054704	VMOV309-NC	054713
Flanged	3	VMOV110-NC	054696	VMOV210-NC	054705	VMOV310-NC	054714
Flanged	4	VMOV111-NC	054697	VMOV211-NC	054706	VMOV311-NC	054715

# VM SERIES PNEUMATIC DIAPHRAGM VALVES – NORMALLY CLOSED PNEUMATIC



End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code	Significant Number	PTFE Product Code
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## Corzan® CPVC Body

Spigot	1/2	VMYC103-NC	054716	VMYC203-NC	054725	VMYC303-NC	054734
Spigot	3/4	VMYC104-NC	054717	VMYC204-NC	054726	VMYC304-NC	054735
Spigot	1	VMYC105-NC	054718	VMYC205-NC	054727	VMYC305-NC	054736
Spigot	1-1/4	VMYC106-NC	054719	VMYC206-NC	054728	VMYC306-NC	054737
Spigot	1-1/2	VMYC107-NC	054720	VMYC207-NC	054729	VMYC307-NC	054738
Spigot	2	VMYC108-NC	054721	VMYC208-NC	054730	VMYC308-NC	054739
Spigot	2-1/2	VMYC109-NC	054722	VMYC209-NC	054731	VMYC309-NC	054740
Spigot	3	VMYC110-NC	054723	VMYC210-NC	054732	VMYC310-NC	054741
Spigot	4	VMYC111-NC	054724	VMYC211-NC	054733	VMYC311-NC	054742

## Corzan® CPVC Body

T/U	1/2	VMUC103-NC	054743	VMUC203-NC	054749	VMUC303-NC	054755
T/U	3/4	VMUC104-NC	054744	VMUC204-NC	054750	VMUC304-NC	054756
T/U	1	VMUC105-NC	054745	VMUC205-NC	054751	VMUC305-NC	054757
T/U	1-1/4	VMUC106-NC	054746	VMUC206-NC	054752	VMUC306-NC	054758
T/U	1-1/2	VMUC107-NC	054747	VMUC207-NC	054753	VMUC307-NC	054759
T/U	2	VMUC108-NC	054748	VMUC208-NC	054754	VMUC308-NC	054760

## Corzan® CPVC Body

Flanged	1/2	VMOC103-NC	054761	VMOC203-NC	054770	VMOC303-NC	054780
Flanged	3/4	VMOC104-NC	054762	VMOC204-NC	054771	VMOC304-NC	054781
Flanged	1	VMOC105-NC	054763	VMOC205-NC	054772	VMOC305-NC	054782
Flanged	1-1/4	VMOC106-NC	054764	VMOC206-NC	054773	VMOC306-NC	054783
Flanged	1-1/2	VMOC107-NC	054765	VMOC207-NC	054774	VMOC307-NC	054784
Flanged	2	VMOC108-NC	054766	VMOC208-NC	054775	VMOC308-NC	054785
Flanged	2-1/2	VMOC109-NC	054767	VMOC209-NC	054776	VMOC309-NC	054786
Flanged	3	VMOC110-NC	054768	VMOC210-NC	054778	VMOC310-NC	054787
Flanged	4	VMOC111-NC	054769	VMOC211-NC	054779	VMOC311-NC	054788

End Connection	Size mm	Significant Number	EPDM Product Code	Significant Number	FPM Product Code	Significant Number	PTFE Product Code
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## PP Body

Spigot	20mm	VMDM103-NC	054789	VMDM203-NC	054798	VMDM303-NC	054807
Spigot	25mm	VMDM104-NC	054790	VMDM204-NC	054799	VMDM304-NC	054808
Spigot	32mm	VMDM105-NC	054791	VMDM205-NC	054800	VMDM305-NC	054809
Spigot	40mm	VMDM106-NC	054792	VMDM206-NC	054801	VMDM306-NC	054810
Spigot	50mm	VMDM107-NC	054793	VMDM207-NC	054802	VMDM307-NC	054811
Spigot	63mm	VMDM108-NC	054794	VMDM208-NC	054803	VMDM308-NC	054812
Spigot	75mm	VMDM109-NC	054795	VMDM209-NC	054804	VMDM309-NC	054813
Spigot	90mm	VMDM110-NC	054796	VMDM210-NC	054805	VMDM310-NC	054814
Spigot	110mm	VMDM111-NC	054797	VMDM211-NC	054806	VMDM311-NC	054815

## PP Body

T/U	20mm	VMUM103-NC	054816	VMUM203-NC	054824	VMUM303-NC	054830
T/U	25mm	VMUM104-NC	054819	VMUM204-NC	054825	VMUM304-NC	054831
T/U	32mm	VMUM105-NC	054820	VMUM205-NC	054826	VMUM305-NC	054832
T/U	40mm	VMUM106-NC	054821	VMUM206-NC	054827	VMUM306-NC	054833
T/U	50mm	VMUM107-NC	054822	VMUM207-NC	054828	VMUM307-NC	054834
T/U	63mm	VMUM108-NC	054823	VMUM208-NC	054829	VMUM308-NC	054835

Note: EPDM diaphragms have EPDM o-rings, Viton® and PTFE diaphragms have Viton® o-rings. Other options are available on request. VM Series Diaphragm valves are made-to-order.

## DV SERIES DIAPHRAGM VALVES – MANUAL HANDWHEEL

The DV is a rugged industrial product ideal for throttling or use in abrasive slurry lines. The raising position indicator also functions as an adjustable travel stop. This feature can be used to avoid over-compression of the EPDM or PTFE diaphragm, or as a travel limiter allowing different settings for the "closed" position. The molded flanged body eliminates potentially leaky joints while featuring end-to-end dimensions identical to most plastic lined metal diaphragm valves, allowing for direct replacement.

Pressure: up to 150 psi at 73°F depending on the size  
 Sizes: 1/2" – 6"



End Connection	Size inches	Significant Number	EPDM Product Code
<b>PVC Body</b>			
Flanged	1/2	DVOV103	052196
Flanged	3/4	DVOV104	052197
Flanged	1	DVOV105	052198
Flanged	1-1/2	DVOV107	052207
Flanged	2	DVOV108	052208
Flanged	3	DVOV109	052209
Flanged	4	DVOV110	052217
Flanged	6	DVOV111	052218

End Connection	Size inches	Significant Number	PTFE Product Code
<b>PVC Body</b>			
Flanged	1/2	DVOV303	052296
Flanged	3/4	DVOV304	052297
Flanged	1	DVOV305	052298
Flanged	1-1/2	DVOV307	052299
Flanged	2	DVOV308	052354
Flanged	3	DVOV309	052355
Flanged	4	DVOV310	052356
Flanged	6	DVOV311	052357



## CM SERIES COMPACT DIAPHRAGM VALVES

The CM is a compact design with true union ends, available in PVC, CPVC, PP, or PVDF. With three diaphragm options (EPDM, FPM, or PTFE), these manually operated or pneumatically actuated valves are ideal for OEMs. A standard position indicator and integrated mounting bushings complete the long list of features.

Pressure: up to 90 psi at 73°F  
 Size: 1/2" in PVC and CPVC,  
 16 mm – 20 mm in PP and PVDF



End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code	Significant Number	PTFE Product Code
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### PVC Body

T/U S/T	3/8	CMBV102	253071	-	-	CMBV302	253072
T/U S/T	1/2	CMBV103	253073	-	-	CMBV303	253074
T/U Socket	1/2	CMUV103	054127	CMUV203	054129	CMUV303	054131

### Corzan® CPVC Body

T/U Socket	1/2	CMUC103	054128	CMUC203	054130	CMUC303	054132
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End Connection	Size mm	Significant Number	EPDM Product Code	Significant Number	FPM Product Code	Significant Number	PTFE Product Code
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### PP Body

Socket	16mm	CMIM102	054133	CMIM202	054136	CMIM302	054139
Spigot	20mm	CMDM103	054134	CMDM203	054137	CMDM303	054140
T/U Socket	20mm	CMUM103	054135	CMUM203	054138	CMUM303	054141

### PVDF Body

Socket	16mm	CMIF102	054142	CMIF202	054145	CMIF302	054148
Spigot	20mm	CMDF103	054143	CMDF203	054146	CMDF303	054149
T/U Socket	20mm	CMUF103	054144	CMUF203	054147	CMUF303	054150

## CM SERIES COMPACT DIAPHRAGM VALVES – NORMALLY CLOSED PNEUMATIC

Pressure: up to 90 psi at 73°F  
 Size: 1/2" in PVC and CPVC,  
 16 mm – 20 mm in PP and PVDF



End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code	Significant Number	PTFE Product Code
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### PVC Body

T/U Socket	1/2	CMUV103-NC	054151	CMUV203-NC	054152	CMUV303-NC	054153
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### Corzan® CPVC Body

T/U Socket	1/2	CMUC103-NC	054154	CMUC203-NC	054155	CMUC303-NC	054156
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End Connection	Size mm	Significant Number	EPDM Product Code	Significant Number	FPM Product Code	Significant Number	PTFE Product Code
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### PP Body

Socket	16mm	CMIM102-NC	054157	CMIM202-NC	054160	CMIM302-NC	054163
Spigot	20mm	CMDM103-NC	054158	CMDM203-NC	054161	CMDM303-NC	054164
T/U Socket	20mm	CMUM103-NC	054159	CMUM203-NC	054162	CMUM303-NC	054165

### PVDF Body

Socket	16mm	CMIF102-NC	054166	CMIF202-NC	054169	CMIF302-NC	054172
Spigot	20mm	CMDF103-NC	054167	CMDF203-NC	054170	CMDF303-NC	054173
T/U Socket	20mm	CMUF103-NC	054168	CMUF203-NC	054171	CMUF303-NC	054174

Note: EPDM diaphragms have EPDM o-rings Viton® and PTFE diaphragms have Viton® o-rings.

## DM SERIES DIAPHRAGM VALVES – DIRECT ACTING PNEUMATIC

Available in both PVC and CPVC, and with either an EPDM or FPM diaphragm, its rugged construction allows the ultra-compact DM to handle even extremely aggressive media. The direct operation of the diaphragm does not require a closing spring, which makes the small DM particularly suitable when space is at a premium.

Pressure: up to 115 psi at 73°F depending upon the available control pressure  
 Sizes: 1/2" – 2"



End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### PVC Body

Spigot	1/2	DMYV103	054880	DMYV203	054886
Spigot	3/4	DMYV104	054881	DMYV204	054887
Spigot	1	DMYV105	054882	DMYV205	054888
Spigot	1-1/4	DMYV106	054883	DMYV206	054889
Spigot	1-1/2	DMYV107	054884	DMYV207	054890
Spigot	2	DMYV108	054885	DMYV208	054891

### PVC Body

True Union	1/2	DMUV103	054892	DMUV203	054898
True Union	3/4	DMUV104	054893	DMUV204	054899
True Union	1	DMUV105	054894	DMUV205	054900
True Union	1-1/4	DMUV106	054895	DMUV206	054901
True Union	1-1/2	DMUV107	054896	DMUV207	054902
True Union	2	DMUV108	054897	DMUV208	054903

### PVC Body

Flanged	1/2	DMOV103	054904	DMOV203	054910
Flanged	3/4	DMOV104	054905	DMOV204	054911
Flanged	1	DMOV105	054906	DMOV205	054912
Flanged	1-1/4	DMOV106	054907	DMOV206	054913
Flanged	1-1/2	DMOV107	054908	DMOV207	054914
Flanged	2	DMOV108	054909	DMOV208	054915

## DIAPHRAGM VALVES – AUTOMATION & ACCESSORIES

IPEX diaphragm valves can be pneumatically actuated providing precise control of critical applications. The normally closed (fail close), normally open (fail open), and double acting VM valves make up of one of the most extensive ranges in the industry. The actuated CM provides a compact solution to automated needs while the DM employs an efficient direct acting design. All pneumatic diaphragm valves can be outfitted with many options and accessories such as: stroke limiters, optical and electric position indicators, electro-pneumatic positioners, pilot valves, and various combinations thereof.

Valve Series	Size inches	Significant Number	Product Code
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### Pilot Solenoid Valve – Direct Mount, NBR Seals, 110 VAC



VM	1/4	ZSPFF9DD0A4NC	053074
CM	1/8	ZSPFF9CC0A4NC	053075

### Pilot Solenoid Valve – Remote (or Gang) Mount, NBR Seals, 110 VAC



N/A	1/4	ZSBFF9CC0A4NC	053076
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Note: Other voltages are available upon request.

### Optical Position Indicator



VM / NC - NO - DA	1/2 - 2	ZIN2410002	054997
VM / NC - NO - DA	2-1/2 - 4	ZIN2410015	054998

Protection cap included, see assembly instructions.

### Stroke Limiter



VM / NC	1/2 - 1-1/2	ZLP2411002	054991
VM / NC	2	ZLP2411003	054992
*VM / NC	2-1/2 - 4	ZLP2411010	054993
VM / NO - DA	1/2 - 2	ZLP2411004	054994
VM / NO - DA	2-1/2 - 4	ZLP2411008	054995

Protection cap included for VM.

\*Actuator must have the metal cap.

### Stroke Limiter w/ Optical Position Indicator



VM / NC	1/2 - 1	ZLI2412002	054999
VM / NC	1-1/4 - 1-1/2	ZLI2412001	053063
VM / NC	2	ZLI2412003	053064
*VM / NC	2-1/2 - 4	ZLI2412006	053065
VM / NO - DA	1/2 - 2	ZLI2412005	053066
VM / NO - DA	2-1/2 - 4	ZLI2412008	053067

Protection cap included for VM.

\*Actuator must have the metal cap.

Valve Series	Size inches	Significant Number	Product Code
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**Stroke Limiter** w/ Optical Position Indicator & Manual Override



VM / NC	1/2 - 1	ZLI2413001	053069
VM / NC	1-1/4 - 2	ZLI2413002	053071
VM / NO - DA	1/2 - 1	ZLI2413003	053072
VM / NO - DA	1-1/4 - 2	ZLI2413007	053073

Protection cap included for VM.

**Electrical Position Indicator** – 1 Mechanical Switch



CM / NC	1/2	ZMS2490001	054952
VM / NC	1/2 - 1	ZMS2490002	054953
VM / NC	1-1/4 - 1-1/2	ZMS2490003	054954
VM / NC	2	ZMS2490004	054955
VM / NC	2-1/2 - 4	ZMS2490005	054956
* VM Manual	1/2 - 1	ZMS2490017	054962
* VM Manual	1-1/4 - 1-1/2	ZMS2490018	054963
* VM Manual	2	ZMS2490019	054964
* VM Manual	2-1/2 - 3	ZMS2490020	054965
* VM Manual	4	ZMS2490021	054966

\* Special machining needed for the valve bonnet and compressor.

**Microswitch Box** – 2 Electromechanical Switches



VM / NC	1/2 - 1-1/2	ZMS2485001	054967
VM / NC	2 - 4	ZMS2485002	054968
VM / NO	1/2 - 4	ZMS2485003	054969

**Microswitch Box** – 2 Inductive Switches

VM / NC	1/2 - 1-1/2	ZMS2486001	054970
VM / NC	2 - 4	ZMS2486002	054971
VM / NO	1/2 - 4	ZMS2486003	054972

**Compact Microswitch Box** – 2 Electromechanical Switches



VM / NC	1/2 - 1	ZMS2491002	054973
VM / NC	1-1/4 - 1-1/2	ZMS2491003	054974
VM / NC	2	ZMS2491004	054975
VM / NO	1/2 - 1	ZMS2491012	054976
VM / NO	1-1/4 - 1-1/2	ZMS2491013	054977
VM / NO	2	ZMS2491014	054978
CM / NC - NO	1/2	ZMS2491001	054979

**Compact Microswitch Box** – 2 Inductive Switches

VM / NC	1/2 - 1	ZMS2492002	054980
VM / NC	1-1/4 - 1-1/2	ZMS2492003	054981
VM / NC	2	ZMS2492004	054982
VM / NO	1/2 - 1	ZMS2492012	054983
VM / NO	1-1/4 - 1-1/2	ZMS2492013	054984
VM / NO	2	ZMS2492014	054985
CM / NC - NO	1/2	ZMS2492001	054986

## SXE SERIES BALL CHECK VALVES – TRUE UNION

The IPEX EASYFIT SXE Series True Union Ball Check Valves represent the latest innovation in thermoplastic valve manufacturing technology. The SXE is a complement to the VXE and VEE ball valve product lines, with many of the same features. SXE introduces an advanced method of installation, providing trouble free service for industrial, OEM and water service applications.

It is designed to work with just a few psi of back pressure for positive shutoff in both vertical and horizontal installations.

Pressure: 232 psi at 73°F  
 Sizes: 1/2" – 2"



With optimized fluid dynamics design the SXE has an improved Cv value. The seat stop carrier is a threaded design for safe disconnection upstream. The ball is machined smooth for optimal service and prolonged life. The SXE also utilizes the EASYFIT torque wrench to tighten union nuts with defined torque and the EASYFIT LCE labelling system for custom identification.

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### PVC

S/T	1/2	SXEBV103	052013	SXEBV203	052022
S/T	3/4	SXEBV104	052014	SXEBV204	052023
S/T	1	SXEBV105	052015	SXEBV205	052027
S/T	1-1/4	SXEBV106	052016	SXEBV206	052028
S/T	1-1/2	SXEBV107	052017	SXEBV207	052030
S/T	2	SXEBV108	052018	SXEBV208	052120

### CPVC

S/T	1/2	SXEBC103	052121	SXEBC203	052127
S/T	3/4	SXEBC104	052122	SXEBC204	052128
S/T	1	SXEBC105	052123	SXEBC205	052133
S/T	1-1/4	SXEBC106	052124	SXEBC206	052134
S/T	1-1/2	SXEBC107	052125	SXEBC207	052135
S/T	2	SXEBC108	052126	SXEBC208	052136

Note: See page 125 for EasyFit Accessories

Check valves should be used whenever there is a need to prevent back-flow of process media. This may be when two incompatible fluids cannot be allowed to mix, or when reverse flow would cause undesirable drainage of a system line or tank. Many styles exist including: simple ball checks, heavy duty swing checks, and highly efficient piston checks. These valves are typically gravity operated and require very little back pressure to seal. Air release valves safely allow any entrapped air or gas to escape, avoiding damage to the piping system.

## VB SERIES BALL CHECK VALVES – TRUE UNION

As one of the most requested styles of check valves for smaller diameter plastic piping systems, these valves feature a true union design for simple maintenance. Full length guide ribs allow for maximum flow and minimum turbulence, preventing ball sticking and chatter. Very low back pressure is needed for positive shut off. The VB is available in PVC with either EPDM or Viton® seals, and CPVC with FPM seals.

Pressure: 150 psi at 73°F  
 Sizes: 1/2" – 4"



End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	Viton® Product Code
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### PVC

S/T	1/2	VBBV103	052231	VBBV203	052241
S/T	3/4	VBBV104	052232	VBBV204	052242
S/T	1	VBBV105	052233	VBBV205	052243
S/T	1-1/4	VBBV106	052234	VBBV206	052244
S/T	1-1/2	VBBV107	052235	VBBV207	052245
S/T	2	VBBV108	052236	VBBV208	052246
Socket	2-1/2	VBAV109	053848	VBAV209	052247
Socket	3	VBAV110	052237	VBAV210	052248
Socket	4	VBAV111	052238	VBAV211	052249

### PVC

Flanged	1/2	VBOV103	053849	VBOV203	053858
Flanged	3/4	VBOV104	053850	VBOV204	053859
Flanged	1	VBOV105	053851	VBOV205	053860
Flanged	1-1/4	VBOV106	053852	VBOV206	053861
Flanged	1-1/2	VBOV107	053853	VBOV207	053862
Flanged	2	VBOV108	053854	VBOV208	053863
Flanged	2-1/2	VBOV109	053855	VBOV209	053864
Flanged	3	VBOV110	053856	VBOV210	052382
Flanged	4	VBOV111	053857	VBOV211	052384

End Connection	Size inches	Significant Number	Viton® Product Code
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### CPVC

S/T	1/2	VBBC203	052251
S/T	3/4	VBBC204	052252
S/T	1	VBBC205	052253
S/T	1-1/4	VBBC206	052254
S/T	1-1/2	VBBC207	052255
S/T	2	VBBC208	052256
Socket	2-1/2	VBAC209	053865
Socket	3	VBAC210	052257
Socket	4	VBAC211	052219

### CPVC

Flanged	1/2	VBOC203	053867
Flanged	3/4	VBOC204	053868
Flanged	1	VBOC205	053869
Flanged	1-1/4	VBOC206	053870
Flanged	1-1/2	VBOC207	053871
Flanged	2	VBOC208	053872
Flanged	2-1/2	VBOC209	053873
Flanged	3	VBOC210	052383
Flanged	4	VBOC211	053874

Check valves should be used whenever there is a need to prevent back-flow of process media. This may be when two incompatible fluids cannot be allowed to mix, or when reverse flow would cause undesirable drainage of a system line or tank. Many styles exist including: simple ball checks, heavy duty swing checks, and highly efficient piston checks. These valves are typically gravity operated and require very little back pressure to seal. Air release valves safely allow any entrapped air or gas to escape, avoiding damage to the piping system.

## VR SERIES PISTON CHECK VALVES – TRUE UNION, Y-PATTERN

The VR features an all PVC construction of high performance components. This Y-pattern valve will perform equally as well in both vertical and horizontal orientations. With an increased flow rate yet low-return pressure positive seal, and top-entry maintenance, our VR piston check valve far exceeds the limited performance of other popular check valves. Both EPDM and FPM seals are available.

Pressure: up to 232 psi depending on the size  
 Sizes: 1/2" – 4"



End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
<b>PVC</b>					
S/T	1/2	VRUV103	053346	VRUV203	053289
S/T	3/4	VRUV104	053347	VRUV204	053290
S/T	1	VRUV105	053348	VRUV205	053291
S/T	1-1/4	VRUV106	053349	VRUV206	053292
S/T	1-1/2	VRUV107	053350	VRUV207	053293
S/T	2	VRUV108	053351	VRUV208	053294

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
<b>PVC</b>					
Flanged	1/2	VRQV103	053879	VRQV203	053885
Flanged	3/4	VRQV104	053880	VRQV204	053886
Flanged	1	VRQV105	053881	VRQV205	053887
Flanged	1-1/4	VRQV106	053882	VRQV206	053888
Flanged	1-1/2	VRQV107	053883	VRQV207	053889
Flanged	2	VRQV108	053884	VRQV208	053890

End Connection	Size inches	Significant Number	EPDM Product Code
<b>PVC, NOT True Union</b>			
Threaded	3	VRFV110	053352
Threaded	4	VRFV111	053353
Socket	3	VRAV110	053295
Socket	4	VRAV111	053296
Flanged	3	VROV110	053925
Flanged	4	VROV111	053926



## SC SERIES SWING CHECK VALVES

The SC combines superior flow rate with maximum versatility. With stainless wetted parts and hardware, top entry design, and extremely low back pressure requirements, these flanged valves are the perfect choice for back-flow prevention in large diameter lines, both vertical and horizontal. The SC is available in PVC with either EPDM or FPM seals.

Pressure: up to 100 psi at 73°F depending on the size  
 Sizes: 3" – 8"



End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	Viton® Product Code
<b>PVC</b>					
Flanged	3	SCOV110	052289	SCOV210	053875
Flanged	4	SCOV111	052290	SCOV211	053876
Flanged	6	SCOV113	052291	SCOV213	053877
Flanged	8	SCOV114	052292	SCOV214	053878

## VA SERIES AIR RELEASE VALVES – SINGLE UNION

The VA is one of only two such plastic valves in the industry, and the only one controlled by media and not pressure. Designed for tanks, slurries, or start-ups, the VA valve will economically and efficiently eliminate air or gas pockets as well as break potentially dangerous vacuums. This no-spill valve is offered in PVC with EPDM seals. FPM sealing kits are also available.

Pressure: 232 psi  
 Sizes: 3/4", 1-1/4" and 2"



Size inches	Significant Number	EPDM Product Code
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### PVC, Single Union

3/4	VAFV104	053559
1-1/4	VAFV106	053560
2	VAFV108	053561

Size inches	Significant Number	Product Code
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### Viton® O-ring Set

3/4	OVA204	153845
1-1/4	OVA206	153846
2	OVA208	153847

Note: Valves supplied with dual (socket & threaded) end connectors for the exhaust port

## RV SERIES SEDIMENT STRAINERS – TRUE UNION – Y PATTERN

The RV Y-pattern strainer protects critical pipeline components by removing solids and suspended impurities. Clear PVC construction allows for inspection of the screen while in service, whereas the bottom-entry design permits maintenance on the valve while in-line. The RV is available with either EPDM or FPM seals, as well as in Corzan® CPVC.

Pressure: up to 232 psi depending on the size  
 Sizes: 1/2" – 4"



End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### Clear PVC True Union, w/PVC 35 Mesh Screen

S/T	1/2	RVUT103	053261	RVUT203	053233
S/T	3/4	RVUT104	053262	RVUT204	053234
S/T	1	RVUT105	053263	RVUT205	053235
S/T	1-1/4	RVUT106	053264	RVUT206	053236
S/T	1-1/2	RVUT107	053265	RVUT207	053237
S/T	2	RVUT108	053266	RVUT208	053238

### Clear PVC True Union, w/PVC 35 Mesh Screen

Flanged	1/2	RVOT103	053935	RVOT203	053941
Flanged	3/4	RVOT104	053936	RVOT204	053942
Flanged	1	RVOT105	053937	RVOT205	053943
Flanged	1-1/4	RVOT106	053938	RVOT206	053944
Flanged	1-1/2	RVOT107	053939	RVOT207	053945
Flanged	2	RVOT108	053940	RVOT208	053946

End Connection	Size inches	Significant Number	FPM Product Code
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### CPVC True Union, w/PP 20 Mesh Screen

S/T	1/2	RVUC203	053334
S/T	3/4	RVUC204	053335
S/T	1	RVUC205	053336
S/T	1-1/4	RVUC206	053337
S/T	1-1/2	RVUC207	053338
S/T	2	RVUC208	053339

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### Clear PVC NOT True Union, w/PVC 35 Mesh Screen

Threaded	3	RVFT110	053267	RVFT210	053239
Threaded	4	RVFT111	053268	RVFT211	053240
Socket	3	RVAT110	053211	RVAT210	054012
Socket	4	RVAT111	053212	RVAT211	054013
Flanged	3	RVOT110	054020	RVOT210	054028
Flanged	4	RVOT111	054021	RVOT211	054029

Sizes ASTM Mesh	Hole Pitch inches	Holes / in <sup>2</sup>	Hole Dia Microns / μm	Availability		
				PVC	SS	PP
18 Mesh	0.098	226	1000	X	-	-
20 Mesh	0.059	271	850	-	-	X
30 Mesh	0.079	387	600	X	-	-
35 Mesh	0.059	645	500	X	-	-
50 Mesh	0.039	1226	300	X	-	-
35 Mesh	0.028	1548	500	-	X	-

### RV Series Sediment Strainer Replacement Screens

Size Inches	Significant Number	Product Code
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#### PVC 18 Mesh

1/2	4RT13FV	053947
3/4	4RT13GV	053948
1	4RT13HV	053949
1-1/4	4RT13IV	053950
1-1/2	4RT13JV	053951
2	4RT13LV	053952
3	4RT13PV	053953
4	4RT13QV	053954

#### PVC 35 Mesh

1/2	4RT19FV	053963
3/4	4RT19GV	053964
1	4RT19HV	053965
1-1/4	4RT19IV	053966
1-1/2	4RT19JV	053967
2	4RT19LV	053968
3	4RT19PV	053969
4	4RT19QV	053970

#### SS 35 Mesh

1/2	4RT19FSS	053979
3/4	4RT19GSS	053980
1	4RT19HSS	053981
1-1/4	4RT19ISS	053982
1-1/2	4RT19JSS	053983
2	4RT19LSS	053984
3	4RT19PSS	053985
4	4RT19QSS	053986

Size Inches	Significant Number	Product Code
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#### PVC 30 Mesh

1/2	4RT15FV	053955
3/4	4RT15GV	053956
1	4RT15HV	053957
1-1/4	4RT15IV	053958
1-1/2	4RT15JV	053959
2	4RT15LV	053960
3	4RT15PV	053961
4	4RT15QV	053962

#### PVC 50 Mesh

1/2	4RT30FV	053971
3/4	4RT30GV	053972
1	4RT30HV	053973
1-1/4	4RT30IV	053974
1-1/2	4RT30JV	053975
2	4RT30LV	053976
3	4RT30PV	053977
4	4RT30QV	053978

#### PP 20 Mesh

1/2	4RT30FPP	053332
3/4	4RT30GPP	053340
1	4RT30HPP	053341
1-1/4	4RT30IPPP	053342
1-1/2	4RT30JPP	053343
2	4RT30LPP	053344
3	-	-
4	-	-

## SF SERIES 2-WAY SOLENOID VALVES – TRUE UNION, NORMALLY CLOSED, 110 VAC

The SF is a 100% duty cycle solenoid valve, and is available in PVC with EPDM or FPM seals. Remote operation and a quick cycle time allow for precise control of media in automated applications. With their "shutter" design, standard manual override, and position indicator, these valves will outlast and outperform more conventional diaphragm-style solenoid valves.

Pressure: up to 60 psi depending on the size

Sizes: 1/4" and 1/2"



Orifice Size	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### PVC, True Union, Normally Closed, FNPT Threaded

0.23	1/4	SFFV101-06N	053615	SFFV201-06N	053616
0.31	1/4	SFFV101-08N	053617	SFFV201-08N	053618
0.39	1/2	SFFV103-10N	053619	SFFV203-10N	053620

Note: 3-way valves and other voltages are available on request.

## VV ANGLE SEAT VALVE - TRUE UNION, Y-PATTERN

Sizes: 1/2" – 2"

End Connection	Size inches	Significant Number	EPDM Product Code
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### PVC, True Union w/ PTFE Gland Packing

S/T	1/2	VVBV103	253869
S/T	3/4	VVBV104	253870
S/T	1	VVBV105	253871
S/T	1-1/4	VVBV106	253872
S/T	1-1/2	VVBV107	253873
S/T	2	VVBV108	253874

Note: Viton® sealing sets are available on request, please contact customer service.



## LV SERIES LAB VALVES WITH FNPT, MNPT AND HOSE CONNECTORS

The LV is an ingenious PVC quarter turn product supplied with an assortment of connections that match up with many kinds of pipe or hose.

Pressure: 150 psi at 73°F

Sizes: 1/4"

Size inches	Significant Number	Product Code
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### LV Series Lab Valve w FNPT, MNPT & Hose Connectors

1/4	LVKV101	052308
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**There are pipe and fittings...**

## **and then there are valves**

IPEX offers one of the most comprehensive ranges of high quality, high performance thermoplastic valves and actuation products available today. With more than 65 years of design and manufacturing experience, our lightweight, long life, maintenance free valves will save you time and money.

IPEX thermoplastic valves are part of our complete systems of pipe, fittings and valves engineered and manufactured to IPEX's strict quality, performance and dimensional standards. With Xirtec®140 (industrial grade PVC) and Corzan® (CPVC),



you can be confident that all the material you need is designed, manufactured and backed by the same company.

Xirtec®140 and Corzan® high-performance systems feature outstanding resistance to photodegradation, creep stress and immunity to oxidation and are exceptionally suited for use with a wide range of acids, alcohols, salts and halogens. The perfect long service/low maintenance alternative to common and exotic metal systems.

Also, our network of manufacturing and customer service facilities across North America ensures fast, reliable service and expert technical support.



*Products are manufactured by IPEX Inc. and distributed in the United States by IPEX USA LLC.*

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# QUARTER TURN AUTOMATION

## Quarter Turn Automation – Pneumatic / Electric

Automation is an ideal solution for precise control of many valves in a system, when valves are remotely located, or when the process requires constant monitoring and adjustment. Pneumatic and electric actuators can be easily fitted on our ball, multi-port, and butterfly valves. Some features and functions include normally closed, normally open, or double-acting operation; corrosion resistant aluminum bodies, pre-loaded springs, and adjustable cams. Many accessories such as visual position indicators, limit switches, 3 and 4-way solenoids, and positioners are also available. For further information, please refer to the IPEX *Industrial Technical Manual Volume IX* entitled, "Quarter Turn Automation".

### PNEUMATIC ACTUATORS OVERVIEW

Pneumatic actuators are the most common choice for quarter turn plastic valves in process applications. Compressed air systems are readily available in any plant, and the cost of the actuator itself is generally lower than that of an electric unit with a comparable torque output. Typical quarter turn automation seldom requires positioning (something achieved more easily with an electric actuator), therefore the cycle life of a pneumatic unit will be substantially greater, and will be intrinsically safer than an electric actuator in volatile environments. While there are many different kinds of pneumatic actuators, a rack and pinion style is the preferred choice within the plastic piping industry. This type of actuator is quite tough and rugged, and has a high cycle life. They generally have a compact, simple construction, and certain models can be quite light in weight. The design also allows the same basic actuator to be used as a double acting or (with minor additions) a spring return unit.

### DID YOU KNOW?

The three basic control functions available through quarter turn automation are:

- 1. Double Acting** – This requires external power for each stroke. For example, power to open the valve, then power to close the valve.
- 2. Normally Closed** – Also referred to as "fail safe closed", the default position is closed and the actuator requires power to open the valve.
- 3. Normally Open** – Also referred to as "fail safe open", the default position is open and the actuator requires power to close the valve.



## ELECTRICAL ACTUATORS OVERVIEW

Although slightly more expensive than pneumatics, electric actuators have certain desirable benefits. They are the preferred choice when cycle time is an issue, as a quick closing pneumatically actuated valve could cause a damaging pressure surge condition (water hammer). The use of an electric actuator may also be preferred when the distance from the power source is considerable. The friction losses in long runs of compressed air line may result in reduced efficiency and/or additional compressor stations. In addition, electric actuators are the preferred (if not the only) choice when a quarterturn valve like a multi-port is used. In this case, it is possible that the travel required is not just  $0^\circ$  to  $90^\circ$  but  $0^\circ$  to  $90^\circ$  to  $180^\circ$ . A rack and pinion actuator would need four separate pistons and a multiplicity of related air chambers, whereas this is easily accomplished with an electric unit. Most electric actuators have a cam/limit switch arrangement which allows the unit to be set up for a variety of rotations. The two standard limit switches can be used to provide a remote location with an open or closed signal. A multitude of voltages both for AC and DC current are also typically available.



# VKD SERIES PVC BALL VALVE – TRUE UNION, PNEUMATIC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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## Pneumatic – DOUBLE ACTING

### PVC w PTFE Seats

S/T	1/2	VKDBV103-DA	253296	VKDBV203-DA	253305
S/T	3/4	VKDBV104-DA	253297	VKDBV204-DA	253306
S/T	1	VKDBV105-DA	253298	VKDBV205-DA	253307
S/T	1-1/4	VKDBV106-DA	253299	VKDBV206-DA	253308
S/T	1-1/2	VKDBV107-DA	253300	VKDBV207-DA	253309
S/T	2	VKDBV108-DA	253301	VKDBV208-DA	253310
Socket	2-1/2	VKDAV109-DA	253302	VKDAV209-DA	253311
Socket	3	VKDAV110-DA	253303	VKDAV210-DA	253312
Socket	4	VKDAV111-DA	253304	VKDAV211-DA	253313



## Pneumatic – SPRING RETURN, NORMALLY CLOSED

### PVC w PTFE Seats

S/T	1/2	VKDBV103-NC	253332	253341	253341
S/T	3/4	VKDBV104-NC	253333	253342	253342
S/T	1	VKDBV105-NC	253334	253343	253343
S/T	1-1/4	VKDBV106-NC	253335	253344	253344
S/T	1-1/2	VKDBV107-NC	253336	253345	253345
S/T	2	VKDBV108-NC	253337	253346	253346
Socket	2-1/2	VKDAV109-NC	253338	253347	253347
Socket	3	VKDAV110-NC	253339	253348	253348
Socket	4	VKDAV111-NC	253340	253349	253349

## Pneumatic – SPRING RETURN, NORMALLY OPEN

### PVC w PTFE Seats

S/T	1/2	VKDBV103-NO	253368	253377	253377
S/T	3/4	VKDBV104-NO	253369	253378	253378
S/T	1	VKDBV105-NO	253370	253379	253379
S/T	1-1/4	VKDBV106-NO	253371	253380	253380
S/T	1-1/2	VKDBV107-NO	253372	253381	253381
S/T	2	VKDBV108-NO	253373	253382	253382
Socket	2-1/2	VKDAV109-NO	253374	253383	253383
Socket	3	VKDAV110-NO	253375	253384	253384
Socket	4	VKDAV111-NO	253376	253385	253385

# VKD SERIES PVC BALL VALVE, ELECTRIC - 100-240 VAC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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## Electric – DOUBLE ACTING

### PVC w PTFE Seats

S/T	1/2	VKDBV103-EL	253404	VKDBV203-EL	253413
S/T	3/4	VKDBV104-EL	253405	VKDBV204-EL	253414
S/T	1	VKDBV105-EL	253406	VKDBV205-EL	253415
S/T	1-1/4	VKDBV106-EL	253407	VKDBV206-EL	253416
S/T	1-1/2	VKDBV107-EL	253408	VKDBV207-EL	253417
S/T	2	VKDBV108-EL	253409	VKDBV208-EL	253418
Socket	2-1/2	VKDAV109-EL	253410	VKDAV209-EL	253419
Socket	3	VKDAV110-EL	253411	VKDAV210-EL	253420
Socket	4	VKDAV111-EL	253412	VKDAV211-EL	253421



Note: 24 VDC, 4-20 mA Positioner, Fail Safe Battery Backup available. Consult IPEX Corrosion Resistant Thermoplastic Valves Price List or IPEX Representative



# VKD SERIES CPVC BALL VALVE – TRUE UNION, PNEUMATIC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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## Pneumatic – DOUBLE ACTING

### Corzan® CPVC w PTFE Seats

S/T	1/2	VKDBC103-DA	253314	VKDBC203-DA	253323
S/T	3/4	VKDBC104-DA	253315	VKDBC204-DA	253324
S/T	1	VKDBC105-DA	253316	VKDBC205-DA	253325
S/T	1-1/4	VKDBC106-DA	253317	VKDBC206-DA	253326
S/T	1-1/2	VKDBC107-DA	253318	VKDBC207-DA	253327
S/T	2	VKDBC108-DA	253319	VKDBC208-DA	253328
Socket	2-1/2	VKDAC109-DA	253320	VKDAC209-DA	253329
Socket	3	VKDAC110-DA	253321	VKDAC210-DA	253330
Socket	4	VKDAC111-DA	253322	VKDAC211-DA	253331



## Pneumatic – SPRING RETURN, NORMALLY CLOSED

### Corzan® CPVC w PTFE Seats

S/T	1/2	VKDBC103-NC	253350	VKDBC203-NC	253359
S/T	3/4	VKDBC104-NC	253351	VKDBC204-NC	253360
S/T	1	VKDBC105-NC	253352	VKDBC205-NC	253361
S/T	1-1/4	VKDBC106-NC	253353	VKDBC206-NC	253362
S/T	1-1/2	VKDBC107-NC	253354	VKDBC207-NC	253363
S/T	2	VKDBC108-NC	253355	VKDBC208-NC	253364
Socket	2-1/2	VKDAC109-NC	253356	VKDAC209-NC	253365
Socket	3	VKDAC110-NC	253357	VKDAC210-NC	253366
Socket	4	VKDAC111-NC	253358	VKDAC211-NC	253367

## Pneumatic – SPRING RETURN, NORMALLY OPEN

### Corzan® CPVC w PTFE Seats

S/T	1/2	VKDBC103-NO	253386	VKDBC203-NO	253395
S/T	3/4	VKDBC104-NO	253387	VKDBC204-NO	253396
S/T	1	VKDBC105-NO	253388	VKDBC205-NO	253397
S/T	1-1/4	VKDBC106-NO	253389	VKDBC206-NO	253398
S/T	1-1/2	VKDBC107-NO	253390	VKDBC207-NO	253399
S/T	2	VKDBC108-NO	253391	VKDBC208-NO	253400
Socket	2-1/2	VKDAC109-NO	253392	VKDAC209-NO	253401
Socket	3	VKDAC110-NO	253393	VKDAC210-NO	253402
Socket	4	VKDAC111-NO	253394	VKDAC211-NO	253403

# VKD SERIES CPVC BALL VALVE, ELECTRIC – 100-240 VAC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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## Electric – DOUBLE ACTING

### Corzan® CPVC w PTFE Seats

S/T	1/2	VKDBC103-EL	253422	VKDBC203-EL	253431
S/T	3/4	VKDBC104-EL	253423	VKDBC204-EL	253432
S/T	1	VKDBC105-EL	253424	VKDBC205-EL	253433
S/T	1-1/4	VKDBC106-EL	253425	VKDBC206-EL	253434
S/T	1-1/2	VKDBC107-EL	253426	VKDBC207-EL	253435
S/T	2	VKDBC108-EL	253427	VKDBC208-EL	253436
Socket	2-1/2	VKDAC109-EL	253428	VKDAC209-EL	253437
Socket	3	VKDAC110-EL	253429	VKDAC210-EL	253438
Socket	4	VKDAC111-EL	253430	VKDAC211-EL	253439



Note: 24 VDC, 4-20 mA Positioner, Fail Safe Battery Backup available. Consult IPEX Corrosion Resistant Thermoplastic Valves Price List or IPEX Representative

# TKD SERIES PVC 3-WAY BALL VALVE – TRUE UNION, PNEUMATIC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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## Pneumatic – DOUBLE ACTING

### PVC w PTFE Seats, L-Port

S/T	1/2	TKDLBV103-DA	253791	TKDLBV203-DA	253797
S/T	3/4	TKDLBV104-DA	253792	TKDLBV204-DA	253798
S/T	1	TKDLBV105-DA	253793	TKDLBV205-DA	253799
S/T	1-1/4	TKDLBV106-DA	253794	TKDLBV206-DA	253800
S/T	1-1/2	TKDLBV107-DA	253795	TKDLBV207-DA	253801
S/T	2	TKDLBV108-DA	253796	TKDLBV208-DA	253802



### PVC w PTFE Seats, T-Port

S/T	1/2	TKDTBV103-DA	253803	TKDTBV203-DA	253809
S/T	3/4	TKDTBV104-DA	253804	TKDTBV204-DA	253810
S/T	1	TKDTBV105-DA	253805	TKDTBV205-DA	253811
S/T	1-1/4	TKDTBV106-DA	253806	TKDTBV206-DA	253812
S/T	1-1/2	TKDTBV107-DA	253807	TKDTBV207-DA	253813
S/T	2	TKDTBV108-DA	253808	TKDTBV208-DA	253814

## Pneumatic – SPRING RETURN, NORMALLY CLOSED

### PVC w PTFE Seats, L-Port

S/T	1/2	TKDLBV103-NC	253767	TKDLBV203-NC	253773
S/T	3/4	TKDLBV104-NC	253768	TKDLBV204-NC	253774
S/T	1	TKDLBV105-NC	253769	TKDLBV205-NC	253775
S/T	1-1/4	TKDLBV106-NC	253770	TKDLBV206-NC	253776
S/T	1-1/2	TKDLBV107-NC	253771	TKDLBV207-NC	253777
S/T	2	TKDLBV108-NC	253772	TKDLBV208-NC	253778

### PVC w PTFE Seats, T-Port

S/T	1/2	TKDTBV103-NC	253779	TKDTBV203-NC	253785
S/T	3/4	TKDTBV104-NC	253780	TKDTBV204-NC	253786
S/T	1	TKDTBV105-NC	253781	TKDTBV205-NC	253787
S/T	1-1/4	TKDTBV106-NC	253782	TKDTBV206-NC	253788
S/T	1-1/2	TKDTBV107-NC	253783	TKDTBV207-NC	253789
S/T	2	TKDTBV108-NC	253784	TKDTBV208-NC	253790

Note: 24 VDC, 4-20 mA Positioner, Fail Safe Battery Backup available. Consult IPEX Corrosion Resistant Thermoplastic Valves Price List or IPEX Representative

## TKD SERIES PVC 3-WAY BALL VALVE – TRUE UNION, PNEUMATIC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### Pneumatic – SPRING RETURN, NORMALLY OPEN

#### PVC w PTFE Seats, L-Port

S/T	1/2	TKDLBV103-NO	253744	TKDLBV203-NO	253750
S/T	3/4	TKDLBV104-NO	253745	TKDLBV204-NO	253751
S/T	1	TKDLBV105-NO	253746	TKDLBV205-NO	253752
S/T	1-1/4	TKDLBV106-NO	253747	TKDLBV206-NO	253753
S/T	1-1/2	TKDLBV107-NO	253748	TKDLBV207-NO	253754
S/T	2	TKDLBV108-NO	253749	TKDLBV208-NO	253755



#### PVC w PTFE Seats, T-Port

S/T	1/2	TKDTBV103-NO	253756	TKDTBV203-NO	253762
S/T	3/4	TKDTBV104-NO	253757	TKDTBV204-NO	253763
S/T	1	TKDTBV105-NO	253758	TKDTBV205-NO	253764
S/T	1-1/4	TKDTBV106-NO	253759	TKDTBV206-NO	253765
S/T	1-1/2	TKDTBV107-NO	253760	TKDTBV207-NO	253766
S/T	2	TKDTBV108-NO	253761	TKDTBV208-NO	253815

## TKD SERIES PVC 3-WAY BALL VALVE, ELECTRIC – 100-240 VAC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### Electric – DOUBLE ACTING

#### PVC w PTFE Seats, L-Port

S/T	1/2	TKDLBV103-EL	253720	TKDLBV203-EL	253726
S/T	3/4	TKDLBV104-EL	253721	TKDLBV204-EL	253727
S/T	1	TKDLBV105-EL	253722	TKDLBV205-EL	253728
S/T	1-1/4	TKDLBV106-EL	253723	TKDLBV206-EL	253729
S/T	1-1/2	TKDLBV107-EL	253724	TKDLBV207-EL	253730
S/T	2	TKDLBV108-EL	253725	TKDLBV208-EL	253731



#### PVC w PTFE Seats, T-Port

S/T	1/2	TKDTBV103-EL	253732	TKDTBV203-EL	253738
S/T	3/4	TKDTBV104-EL	253733	TKDTBV204-EL	253739
S/T	1	TKDTBV105-EL	253734	TKDTBV205-EL	253740
S/T	1-1/4	TKDTBV106-EL	253735	TKDTBV206-EL	253741
S/T	1-1/2	TKDTBV107-EL	253736	TKDTBV207-EL	253742
S/T	2	TKDTBV108-EL	253737	TKDTBV208-EL	253743

Note: Customer must specify “open” and “closed” positions for 3-way actuated valves. See technical manual for details. Electric actuators can be configured for either 90° or 180° operation.

Note: 24 VDC, 4-20 mA Positioner, Fail Safe Battery Backup available. Consult IPEX Corrosion Resistant Thermoplastic Valves Price List or IPEX Representative

# TKD SERIES CPVC 3-WAY BALL VALVE – TRUE UNION, PNEUMATIC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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## Pneumatic – DOUBLE ACTING

### Corzan® CPVC w PTFE Seats, L-Port

S/T	1/2	TKDLBC103-DA	254071	TKDLBC203-DA	254001
S/T	3/4	TKDLBC104-DA	254049	TKDLBC204-DA	254002
S/T	1	TKDLBC105-DA	254051	TKDLBC205-DA	254003
S/T	1-1/4	TKDLBC106-DA	254052	TKDLBC206-DA	254004
S/T	1-1/2	TKDLBC107-DA	254053	TKDLBC207-DA	254005
S/T	2	TKDLBC108-DA	254060	TKDLBC208-DA	254006



### Corzan® CPVC w PTFE Seats, T-Port

S/T	1/2	TKDTBC103-DA	254055	TKDTBC203-DA	254007
S/T	3/4	TKDTBC104-DA	254056	TKDTBC204-DA	254008
S/T	1	TKDTBC105-DA	254057	TKDTBC205-DA	254009
S/T	1-1/4	TKDTBC106-DA	254058	TKDTBC206-DA	254010
S/T	1-1/2	TKDTBC107-DA	254059	TKDTBC207-DA	254011
S/T	2	TKDTBC108-DA	254054	TKDTBC208-DA	254012

## Pneumatic - SPRING RETURN, NORMALLY CLOSED

### Corzan® CPVC w PTFE Seats, L-Port

S/T	1/2	TKDLBC103-NC	254061	TKDLBC203-NC	254013
S/T	3/4	TKDLBC104-NC	254062	TKDLBC204-NC	254014
S/T	1	TKDLBC105-NC	254063	TKDLBC205-NC	254015
S/T	1-1/4	TKDLBC106-NC	254064	TKDLBC206-NC	254016
S/T	1-1/2	TKDLBC107-NC	254065	TKDLBC207-NC	254017
S/T	2	TKDLBC108-NC	254066	TKDLBC208-NC	254018

### Corzan® CPVC w PTFE Seats, T-Port

S/T	1/2	TKDTBC103-NC	254067	TKDTBC203-NC	254019
S/T	3/4	TKDTBC104-NC	254068	TKDTBC204-NC	254020
S/T	1	TKDTBC105-NC	254069	TKDTBC205-NC	254021
S/T	1-1/4	TKDTBC106-NC	254070	TKDTBC206-NC	254022
S/T	1-1/2	TKDTBC107-NC	254050	TKDTBC207-NC	254023
S/T	2	TKDTBC108-NC	254072	TKDTBC208-NC	254024

Note: 24 VDC, 4-20 mA Positioner, Fail Safe Battery Backup available. Consult IPEX Corrosion Resistant Thermoplastic Valves Price List or IPEX Representative

## TKD SERIES CPVC 3-WAY BALL VALVE – TRUE UNION, PNEUMATIC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### Pneumatic - SPRING RETURN, NORMALLY OPEN

#### Corzan® CPVC w PTFE Seats, L-Port

S/T	1/2	TKDLBV103-NO	253828	TKDLBC203-NO	254025
S/T	3/4	TKDLBV104-NO	253829	TKDLBC204-NO	254026
S/T	1	TKDLBV105-NO	253830	TKDLBC205-NO	254027
S/T	1-1/4	TKDLBV106-NO	253831	TKDLBC206-NO	254028
S/T	1-1/2	TKDLBV107-NO	253832	TKDLBC207-NO	254029
S/T	2	TKDLBV108-NO	253833	TKDLBC208-NO	254030



#### Corzan® CPVC w PTFE Seats, T-Port

S/T	1/2	TKDTBC103-NO	253834	TKDTBC203-NO	254031
S/T	3/4	TKDTBC104-NO	253835	TKDTBC204-NO	254032
S/T	1	TKDTBC105-NO	283836	TKDTBC205-NO	254033
S/T	1-1/4	TKDTBC106-NO	253837	TKDTBC206-NO	254034
S/T	1-1/2	TKDTBC107-NO	253838	TKDTBC207-NO	254035
S/T	2	TKDTBC108-NO	253839	TKDTBC208-NO	254036

## TKD SERIES PVC 3-WAY BALL VALVE, ELECTRIC – 100-240 VAC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### Electric – DOUBLE ACTING

#### Corzan® CPVC w PTFE Seats, L-Port

S/T	1/2	TKDLBV103-EL	253840	TKDLBC203-EL	254037
S/T	3/4	TKDLBV104-EL	253841	TKDLBC204-EL	254038
S/T	1	TKDLBV105-EL	253991	TKDLBC205-EL	254039
S/T	1-1/4	TKDLBV106-EL	253992	TKDLBC206-EL	254040
S/T	1-1/2	TKDLBV107-EL	253993	TKDLBC207-EL	254041
S/T	2	TKDLBV108-EL	253994	TKDLBC208-EL	254043

#### Corzan® CPVC w PTFE Seats, T-Port

S/T	1/2	TKDTBC103-EL	253995	TKDTBC203-EL	254044
S/T	3/4	TKDTBC104-EL	253996	TKDTBC204-EL	254045
S/T	1	TKDTBC105-EL	253997	TKDTBC205-EL	254046
S/T	1-1/4	TKDTBC106-EL	253998	TKDTBC206-EL	254047
S/T	1-1/2	TKDTBC107-EL	253999	TKDTBC207-EL	254048
S/T	2	TKDTBC108-EL	254000	TKDTBC208-EL	254042



Note: Customer must specify “open” and “closed” positions for 3-way actuated valves. See technical manual for details. Electric actuators can be configured for either 90° or 180° operation.

# VXE SERIES PVC BALL VALVE – TRUE UNION, PNEUMATIC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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## Pneumatic – DOUBLE ACTING

### PVC w PTFE Seats

S/T	1/2	VXBV103-DA	253200	VXBV203-DA	253206
S/T	3/4	VXBV104-DA	253201	VXBV204-DA	253207
S/T	1	VXBV105-DA	253202	VXBV205-DA	253208
S/T	1-1/4	VXBV106-DA	253203	VXBV206-DA	253209
S/T	1-1/2	VXBV107-DA	253204	VXBV207-DA	253210
S/T	2	VXBV108-DA	253205	VXBV208-DA	253211



## Pneumatic - SPRING RETURN, NORMALLY CLOSED

### PVC w PTFE Seats

S/T	1/2	VXBV103-NC	253224	VXBV203-NC	253230
S/T	3/4	VXBV104-NC	253225	VXBV204-NC	253231
S/T	1	VXBV105-NC	253226	VXBV205-NC	253232
S/T	1-1/4	VXBV106-NC	253227	VXBV206-NC	253233
S/T	1-1/2	VXBV107-NC	253228	VXBV207-NC	253234
S/T	2	VXBV108-NC	253229	VXBV208-NC	253235

## Pneumatic - SPRING RETURN, NORMALLY OPEN

### PVC w PTFE Seats

S/T	1/2	VXBV103-NO	253248	VXBV203-NO	253254
S/T	3/4	VXBV104-NO	253249	VXBV204-NO	253255
S/T	1	VXBV105-NO	253250	VXBV205-NO	253256
S/T	1-1/4	VXBV106-NO	253251	VXBV206-NO	253257
S/T	1-1/2	VXBV107-NO	253252	VXBV207-NO	253258
S/T	2	VXBV108-NO	253253	VXBV208-NO	253259

# VXE SERIES PVC BALL VALVE, ELECTRIC – 100-240 VAC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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## Electric – DOUBLE ACTING

### PVC w PTFE Seats

S/T	1/2	VXBV103-EL	253272	VXBV203-EL	253278
S/T	3/4	VXBV104-EL	253273	VXBV204-EL	253279
S/T	1	VXBV105-EL	253274	VXBV205-EL	253280
S/T	1-1/4	VXBV106-EL	253275	VXBV206-EL	253281
S/T	1-1/2	VXBV107-EL	253276	VXBV207-EL	253282
S/T	2	VXBV108-EL	253277	VXBV208-EL	253283



Note: 24 VDC, 4-20 mA Positioner, Fail Safe Battery Backup available. Consult IPEX Corrosion Resistant Thermoplastic Valves Price List or IPEX Representative

## VXE SERIES CPVC BALL VALVE – TRUE UNION, PNEUMATIC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### Pneumatic – DOUBLE ACTING

#### Corzan® CPVC w PTFE Seats

S/T	1/2	VXBC103-DA	253212	VXBC203-DA	253218
S/T	3/4	VXBC104-DA	253213	VXBC204-DA	253219
S/T	1	VXBC105-DA	253214	VXBC205-DA	253220
S/T	1-1/4	VXBC106-DA	253215	VXBC206-DA	253221
S/T	1-1/2	VXBC107-DA	253216	VXBC207-DA	253222
S/T	2	VXBC108-DA	253217	VXBC208-DA	253223



### Pneumatic - SPRING RETURN, NORMALLY CLOSED

#### Corzan® CPVC w PTFE Seats

S/T	1/2	VXBC103-NC	253236	VXBC203-NC	253242
S/T	3/4	VXBC104-NC	253237	VXBC204-NC	253243
S/T	1	VXBC105-NC	253238	VXBC205-NC	253244
S/T	1-1/4	VXBC106-NC	253239	VXBC206-NC	253245
S/T	1-1/2	VXBC107-NC	253240	VXBC207-NC	253246
S/T	2	VXBC108-NC	253241	VXBC208-NC	253247

### Pneumatic - SPRING RETURN, NORMALLY OPEN

#### Corzan® CPVC w PTFE Seats

S/T	1/2	VXBC103-NO	253260	VXBC203-NO	253266
S/T	3/4	VXBC104-NO	253261	VXBC204-NO	253267
S/T	1	VXBC105-NO	253262	VXBC205-NO	253268
S/T	1-1/4	VXBC106-NO	253263	VXBC206-NO	253269
S/T	1-1/2	VXBC107-NO	253264	VXBC207-NO	253270
S/T	2	VXBC108-NO	253265	VXBC208-NO	253271

## VXE SERIES CPVC BALL VALVE, ELECTRIC – 100-240 VAC

End Connection	Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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### Electric – DOUBLE ACTING

#### Corzan® CPVC w PTFE Seats

S/T	1/2	VXBC103-EL	253284	VXBC203-EL	253290
S/T	3/4	VXBC104-EL	253285	VXBC204-EL	253291
S/T	1	VXBC105-EL	253286	VXBC205-EL	253292
S/T	1-1/4	VXBC106-EL	253287	VXBC206-EL	253293
S/T	1-1/2	VXBC107-EL	253288	VXBC207-EL	253294
S/T	2	VXBC108-EL	253289	VXBC208-EL	253295



# FK SERIES BUTTERFLY VALVE, PNEUMATIC

Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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## Pneumatic – DOUBLE ACTING

### PP Disc, Wafer Style

1-1/2	FKOM107-DA	253536	253546	253546
2	FKOM108-DA	253537	253547	253547
2-1/2	FKOM109-DA	253538	253548	253548
3	FKOM110-DA	253539	253549	253549
4	FKOM111-DA	253540	253550	253550
5	FKOM112-DA	253541	253551	253551
6	FKOM113-DA	253542	253552	253552
8	FKOM114-DA	253543	253553	253553
10	FKOM115-DA	253544	253554	253554
12	FKOM116-DA	253545	253555	253555

### PP Disc, SS Lugs

2-1/2	FKLM109-DA	253556	FKLM209-DA	253564
3	FKLM110-DA	253557	FKLM210-DA	253565
4	FKLM111-DA	253558	FKLM211-DA	253566
5	FKLM112-DA	253559	FKLM212-DA	253567
6	FKLM113-DA	253560	FKLM213-DA	253568
8	FKLM114-DA	253561	FKLM214-DA	253569
10	FKLM115-DA	253562	FKLM215-DA	253570
12	FKLM116-DA	253563	FKLM216-DA	253571

## Pneumatic - SPRING RETURN, NORMALLY CLOSED

### PP Disc, Wafer Style

1-1/2	FKOM107-NC	253572	FKOM207-NC	253582
2	FKOM108-NC	253573	FKOM208-NC	253583
2-1/2	FKOM109-NC	253574	FKOM209-NC	253584
3	FKOM110-NC	253575	FKOM210-NC	253585
4	FKOM111-NC	253576	FKOM211-NC	253586
5	FKOM112-NC	253577	FKOM212-NC	253587
6	FKOM113-NC	253578	FKOM213-NC	253588
8	FKOM114-NC	253579	FKOM214-NC	253589
10	FKOM115-NC	253580	FKOM215-NC	253590
12	FKOM116-NC	253581	FKOM216-NC	253591

### PP Disc, SS Lugs

2-1/2	FKLM109-NC	253592	FKLM209-NC	253600
3	FKLM110-NC	253593	FKLM210-NC	253601
4	FKLM111-NC	253594	FKLM211-NC	253602
5	FKLM112-NC	253595	FKLM212-NC	253603
6	FKLM113-NC	253596	FKLM213-NC	253604
8	FKLM114-NC	253597	FKLM214-NC	253605
10	FKLM115-NC	253598	FKLM215-NC	253606
12	FKLM116-NC	253599	FKLM216-NC	253607



Note: PVC, CPVC, ABS, and PVDF discs are available on request. 10" and 12" electrically actuated butterfly valves are available on request.  
 Note: 24 VDC, 4-20 mA Positioner, Fail Safe Battery Backup available. Consult IPEX Corrosion Resistant Thermoplastic Valves Price List or IPEX Representative



# FK SERIES BUTTERFLY VALVE PNEUMATIC

Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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## Pneumatic - SPRING RETURN, NORMALLY OPEN

### PP Disc, Wafer Style

1-1/2	FKOM107-NO	253608	FKOM207-NO	253618
2	FKOM108-NO	253609	FKOM208-NO	253619
2-1/2	FKOM109-NO	253610	FKOM209-NO	253620
3	FKOM110-NO	253611	FKOM210-NO	253621
4	FKOM111-NO	253612	FKOM211-NO	253622
5	FKOM112-NO	253613	FKOM212-NO	253623
6	FKOM113-NO	253614	FKOM213-NO	253624
8	FKOM114-NO	253615	FKOM214-NO	253625
10	FKOM115-NO	253616	FKOM215-NO	253626
12	FKOM116-NO	253617	FKOM216-NO	253627

### PP Disc, SS Lugs

2-1/2	FKLM109-NO	253628	FKLM209-NO	253636
3	FKLM110-NO	253629	FKLM210-NO	253637
4	FKLM111-NO	253630	FKLM211-NO	253638
5	FKLM112-NO	253631	FKLM212-NO	253639
6	FKLM113-NO	253632	FKLM213-NO	253640
8	FKLM114-NO	253633	FKLM214-NO	253641
10	FKLM115-NO	253634	FKLM215-NO	253642
12	FKLM116-NO	253635	FKLM216-NO	253643



# FK SERIES BUTTERFLY VALVE, ELECTRIC – 100-240 VAC

Size inches	Significant Number	EPDM Product Code	Significant Number	FPM Product Code
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## Electric- DOUBLE ACTING

### PP Disc, Wafer Style

1-1/2	FKOM107-EL	253644	FKOM207-EL	253654
2	FKOM108-EL	253645	FKOM208-EL	253655
2-1/2	FKOM109-EL	253646	FKOM209-EL	253656
3	FKOM110-EL	253647	FKOM210-EL	253657
4	FKOM111-EL	253648	FKOM211-EL	253658
5	FKOM112-EL	253649	FKOM212-EL	253659
6	FKOM113-EL	253650	FKOM213-EL	253660
8	FKOM114-EL	253651	FKOM214-EL	253661

### PP Disc, SS Lugs

2-1/2	FKLM109-EL	253664	FKLM209-EL	253672
3	FKLM110-EL	253665	FKLM210-EL	253673
4	FKLM111-EL	253666	FKLM211-EL	253674
5	FKLM112-EL	253667	FKLM212-EL	253675
6	FKLM113-EL	253668	FKLM213-EL	253676
8	FKLM114-EL	253669	FKLM214-EL	253677

Note: PVC, CPVC, ABS, and PVDF discs are available on request  
10" and 12" electrically actuated butterfly valves are available on request.



# FE SERIES BUTTERFLY VALVE PNEUMATIC

Size inches	Significant Number	EPDM Product Code
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## Pneumatic – DOUBLE ACTING

### PVC Body & Disc, Wafer Style

1-1/2	FEOV107-DA	253680
2	FEOV108-DA	253681
2-1/2	FEOV109-DA	253682
3	FEOV110-DA	253683
4	FEOV111-DA	253684
5	FEOV112-DA	253685
6	FEOV113-DA	253686
8	FEOV114-DA	253687
10	FEOV115-DA	253688
12	FEOV116-DA	253689

Size inches	Significant Number	EPDM Product Code
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## Pneumatic – SPRING RETURN, NORMALLY CLOSED

### PVC Body & Disc, Wafer Style

1-1/2	FEOV107-NC	253690
2	FEOV108-NC	253691
2-1/2	FEOV109-NC	253692
3	FEOV110-NC	253693
4	FEOV111-NC	253694
5	FEOV112-NC	253695
6	FEOV113-NC	253696
8	FEOV114-NC	253697
10	FEOV115-NC	253698
12	FEOV116-NC	253699



## Pneumatic – SPRING RETURN, NORMALLY OPEN

### PVC Body & Disc, Wafer Style

1-1/2	FEOV107-NO	253700
2	FEOV108-NO	253701
2-1/2	FEOV109-NO	253702
3	FEOV110-NO	253703
4	FEOV111-NO	253704
5	FEOV112-NO	253705
6	FEOV113-NO	253706
8	FEOV114-NO	253707
10	FEOV115-NO	253708
12	FEOV116-NO	253709

Note: NBR and Viton® lined valves are available on request

# FE SERIES BUTTERFLY VALVE, ELECTRIC – 100-240 VAC

Size inches	Significant Number	EPDM Product Code
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## Pneumatic – DOUBLE ACTING

### PVC Body & Disc, Wafer Style

1-1/2	FEOV107-EL	253710
2	FEOV108-EL	253711
2-1/2	FEOV109-EL	253712
3	FEOV110-EL	253713
4	FEOV111-EL	253714
5	FEOV112-EL	253715
6	FEOV113-EL	253716
8	FEOV114-EL	253717



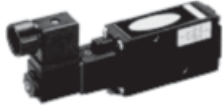
10" and 12" electrically actuated butterfly valves are available upon request.

Note: 24 VDC, 4-20 mA Positioner, Fail Safe Battery Backup available. Consult IPEX Corrosion Resistant Thermoplastic Valves Price List or IPEX Representative

# ACCESSORIES — PNEUMATIC ACTUATOR

Component Style	Significant Number	Product Code
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## Pilot Solenoids – 110 VAC, 3/4-Way



NEMA 4/4X	SV61CSA110VAC	253055
NEMA 7/9	SV91	253056

Pilot solenoids meet NAMUR mounting specifications.

## Pilot Solenoids – 24 VDC, 3/4-Way

NEMA 4/4X	SV61CSA24VDC	253088
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Pilot solenoids meet NAMUR mounting specifications.

## Limit Switches – NEMA 4/4X



Mechanical	MS41-2	253057
Proximity	PS41-2AL	253058

Limit switches include universal mounting brackets (ISO 5211)

## Positioners



3-15 psi	PNY01	253061
4 - 20 mA	PEY01	253059
4 - 20 mA, w/ limit switch (LS)	PEY02	253816
4 - 20 mA, w/ position transmitter (PT)	PEY03	253817
4 - 20 mA, w/ LS & PT	PEY04	253818
4 - 20 mA, I-safe	PEI01	253062

All positioners include universal mounting brackets (ISO 5211) and gages.

Several other positioners available, including Intrinsically Safe, Explosion proof, Smart, Stainless Steel and High Vibration models, with limit switch and position transmitter options. Please contact IPEX for more information.

## Manual Override



Sandwich Declutch. Gearbox ISO 5211	PV01-GOJ26	253819
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Declutchable gearbox has MAXIMUM torque rating of 2600 in-lbs. For higher torque values, please contact IPEX for larger size gearbox models.

## Other



Muffler - Brass/Bronze	MUFF-NPT	253065
Speed Control - Brass/Bronze	SPEED-NPT	253066
L-Port Actuator Beacon Kit	BEACON-3W-L	253089
T-Port Actuator Beacon Kit	BEACON-3W-T	253090

Customer must specify at time of order if accessories are to be factory assembled with the actuated valves.

# ACCESSORIES — MOUNTING

Size Inches	Mounting Detail	Significant Number	Product Code
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## VKD & TKD Series Ball Valve Mounting Kit



1/2	F03 / F04 / 11mm	2KTPQCPEF	154048
3/4	F04 / 11mm	2KTPQCPGGF04	154049
3/4	F03 / F05 / 11mm	2KTPQCPGG	154050
1	F04 / 11mm	2KTPQCPHHF04	154051
1	F03 / F05 / 11mm	2KTPQCPHH	154052
1-1/4	F05 / F07 / 11mm	2KTPQCPH11	154182
1-1/4	F05 / F07 / 14mm	2KTPQCPH	154053
1-1/2	F05 / F07 / 11mm	2KTPQCPJ11	154183
1-1/2	F05 / F07 / 14mm	2KTPQCPJ	154054
2	F05 / F07 / 11mm	2KTPQPLL11	154174
2	F05 / F07 / 14mm	2KTPQPLL	154055
2-1/2 - 4 (VKD)	F05 / F07	1PIA08TM	153001

## VX & VXE Series Ball Valve Mounting Kit



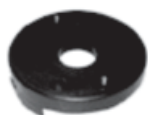
1/2	F04 / F05 / 11mm	PK0006F04	154042
3/4	F04 / F05 / 11mm	PK0007F04	154043
1	F04 / F05 / 11mm	PK0008F04	154044
1-1/4	F04 / F05 / 11mm	PK0009F04	154045
1-1/2	F05 / F07 / 14mm	PK0010F05	154046
2	F05 / F07 / 14mm	PK0011F05	154047

## TK Series 3-Way Ball Valve Mounting Kit



1/2	F03 / F04 / 11mm	2KT00200	154056
3/4	F04 / 11mm	2KT0020111	154175
3/4	F03 / F05 / 11mm	2KT00201	154057
1	F04 / 11mm	2KT0020211	154176
1	F03 / F05 / 11mm	2KT00202	154058
1-1/4	F05 / F07 / 11mm	2KTF5F7I11	154177
1-1/4	F05 / F07 / 14mm	2KT5FI	154059
1-1/2	F05 / F07 / 11mm	2KTF5F7JJ11	154178
1-1/2	F05 / F07 / 14mm	2KTF5F7JJ	154060
2	F05 / F07 / 11mm	2KTF5F7LL11	154179
2	F05 / F07 / 14mm	2KTF5F7LL	154061

## Spacer Plate for FK Series Butterfly Valves



1-1/2 - 6	F05 / F07	1PIA08TM	153001
8	F10	1PIA08VM	153002

## Square Stem Adapter



0.43 x 0.35	11mm x 9mm	11X9SSA	253048
0.55 x 0.43	14mm x 11mm	14X11SSA	253049
0.67 x 0.43	17mm x 11mm	17X11SSA	253050
0.67 x 0.55	17mm x 14mm	17X14SSA	253051
0.87 x 0.67	22mm x 17mm	22X17SSA	253052
1.06 x 0.87	27mm x 22mm	27X22SSA	253053
1.42 x 1.06	36mm x 27mm	36X27SSA	253054

1) IPEX's highly chemically resistant PVC and CPVC ventilation duct systems feature seamless pipe for greater flow rates. Their light weight allows for easier handling on the job, which means lower installation costs.

2) For applications where quick assembly is required under adverse conditions, IPEX offers factory-grooved PVC pipe designed to mate easily with mechanical grooved couplings.

3) And, IPEX well casings offer corrosion-resistant, maintenance-free protection for well-drop-pipe and submersible pumps.

# SPECIALTY PRODUCTS



Ventilation Duct

170

Well Casings

172

Grooved PVC Pipe

172



# SPECIALTY PRODUCTS

## Ventilation Duct

### PVC & CPVC Exhaust System Ducting

IPEX PVC & CPVC exhaust system ducting provides effective solutions for industrial ventilation systems, protecting workers and the environment from contaminated air.

#### STANDARDS



ASTM D1784  
CAN/ULC S102.2

#### PVC ADVANTAGES

- 1 PVC cell class 12454 as per ASTM D1784
- 2 Extruded seamless PVC duct in all standard diameters 6" through 24"
- 3 For use in industrial and institutional fume handling systems requiring high resistance to corrosive vapors
- 4 Ideal for plating, metal finishing and laboratory installations
- 5 Low installed cost as compared to noncorrosive metallics
- 6 Light weight allows longer runs and speeds installation with simple tools and piping techniques
- 7 Low maintenance requirements over extended service periods
- 8 Low flame spread rating of 10 as per CAN/ULC S102.2

#### CPVC ADVANTAGES

- 1 Extruded seamless CPVC duct in all standard diameters 6" through 16"
- 2 CPVC withstands exhaust temperatures up to 200°F
- 3 CPVC cell class 23447 as per ASTM 1784
- 4 CPVC is inert to most mineral acids, bases, salts, and aliphatic hydrocarbons, and compares favorably to other non-metals in corrosive chemical environments.
- 5 Ideal for chemical processing, semi-conductor fabrication, metal plating & finishing, pulp & paper, waste water treatment plants, and laboratory installations
- 6 Low installed cost as compared to non-corrosive exotic metal systems and PVDF
- 7 Light weight allows for ease of handling and installation and reduces transportation and labor costs
- 8 Low maintenance requirements over extended service periods
- 9 Low flame spread rating of 10 and smoke development classification of 25 as per CAN/ULC S102.2
- 10 Corzan® CPVC compound meets and is listed FM 4910 "Clean Room Materials Flammability Test Protocol" approval standard



### Duct Dimensions

Duct Size Diameter (in)	Product Code	Average O.D. (in.)	Average I.D. (in.)	Average Wall Thickness (in.)	PVC Weight (lbs/ft)	CPVC Weight (lbs/ft)
6 x 20	046700	6.625	6.251	0.187	2.319	2.519
8 x 20	046702	8.625	8.251	0.187	3.040	3.301
10 x 20	046704	10.750	10.376	0.187	3.805	4.133
12 x 20	046706	12.750	12.376	0.187	4.528	4.916
14 x 20	046707	14.000	13.626	0.187	4.978	5.405
16 x 20	046708	16.000	15.626	0.187	5.697	6.188
18 x 20	046709	18.000	17.626	0.187	6.420	-
20 x 20	046711	20.000	19.500	0.250	9.515	-
24 x 20	046713	24.000	23.500	0.250	11.442	-

CPVC Duct is only available up to 16" diameter.





# PVC Well Casing

IPEX bell end PVC well casing provides corrosion-resistant, maintenance-free protection for well drop-pipe and submersible pumps. Its light weight facilitates installation with conventional tools and piping techniques. It is manufactured to ASTM standards and is available throughout North America from IPEX's fully stocked service centers.

## STANDARDS



ASTM D1784, ASTM D1785, ASTM F480  
 ASTM D2665 - Sch 40 pipe only

## ADVANTAGES

- 1 Meets ASTM D1784, D1785, D2665 (Sch 40 pipe only) and F480 specifications.
- 2 Third-party certified by NSF.
- 3 Solvent weld joints are strong and water tight.
- 4 Installation can be accomplished with lighter setting equipment than is required for metallic piping.
- 5 Electrically non-conductive which reduces job site work hazards.
- 6 Non-toxic and non-leaching with excellent chemical resistance.
- 7 Available in bell end 2" - 16" or plain end for threading 2" - 12".

Dimensions for Xirtec140 PVC Well Casing Pipe – ASTM F480

Pipe Size (in.)	Product Code	Outside Diameter (in.)		Minimum Wall Thickness (in.)			Bell Length (in.)
		Average	Tolerance on Avg	SDR21	Sch 40	Sch 80	
2	022620	2.375	±0.006	0.113	0.154	0.218	4.000
2-1/2	022625	2.875	±0.007	0.137	0.203	0.276	5.000
3	022630	3.500	±0.008	0.167	0.216	0.300	5.500
4	022640	4.500	±0.009	0.214	0.237	0.337	6.500
5	022650	5.563	±0.010	0.265	0.258	0.375	6.000
6	022660	6.625	±0.011	0.316	0.280	0.432	8.000
8	022680	8.625	±0.015	0.410	0.322	0.500	7.000
10	022690	10.750	±0.015	0.511	0.365	0.593	7.500
12	022692	12.750	±0.015	0.606	0.406	0.687	8.500
14	022694	14.000	±0.020	0.667	0.437	0.750	9.000
16	022696	16.000	±0.020	0.762	0.500	0.843	10.000



# Roll Grooved PVC Pipe

IPEX PVC pipe can be roll or cut-grooved at each end for quick connection using mechanical couplings specifically designed for PVC pipe. This method can be used in any application where PVC pipe is acceptable and where it is desirable to have a means for quick assembly under adverse conditions.

## ADVANTAGES

- 1 **Completely re-usable pressure system that does not require threading, solvent welding, or flanging.**
- 2 **Joints are mechanically locked to produce a secure, leak-tight connection under pressure or vacuum.**  
(See coupling manufacturer's product information for details on pressure capabilities.)
- 3 **A union at every joint allows for speed and ease of assembly and field maintenance.**
- 4 **In abrasive applications, pipe can easily be rotated to distribute wear evenly.**
- 5 **Flexible system permits laying on rough or uneven terrain.**
- 6 **When using a gasket-type coupler, each joint will absorb some expansion and contraction due to temperature changes.**
- 7 **Grooved systems facilitate fast add-ons, modifications or re-location of the pipe.**

## DID YOU KNOW?

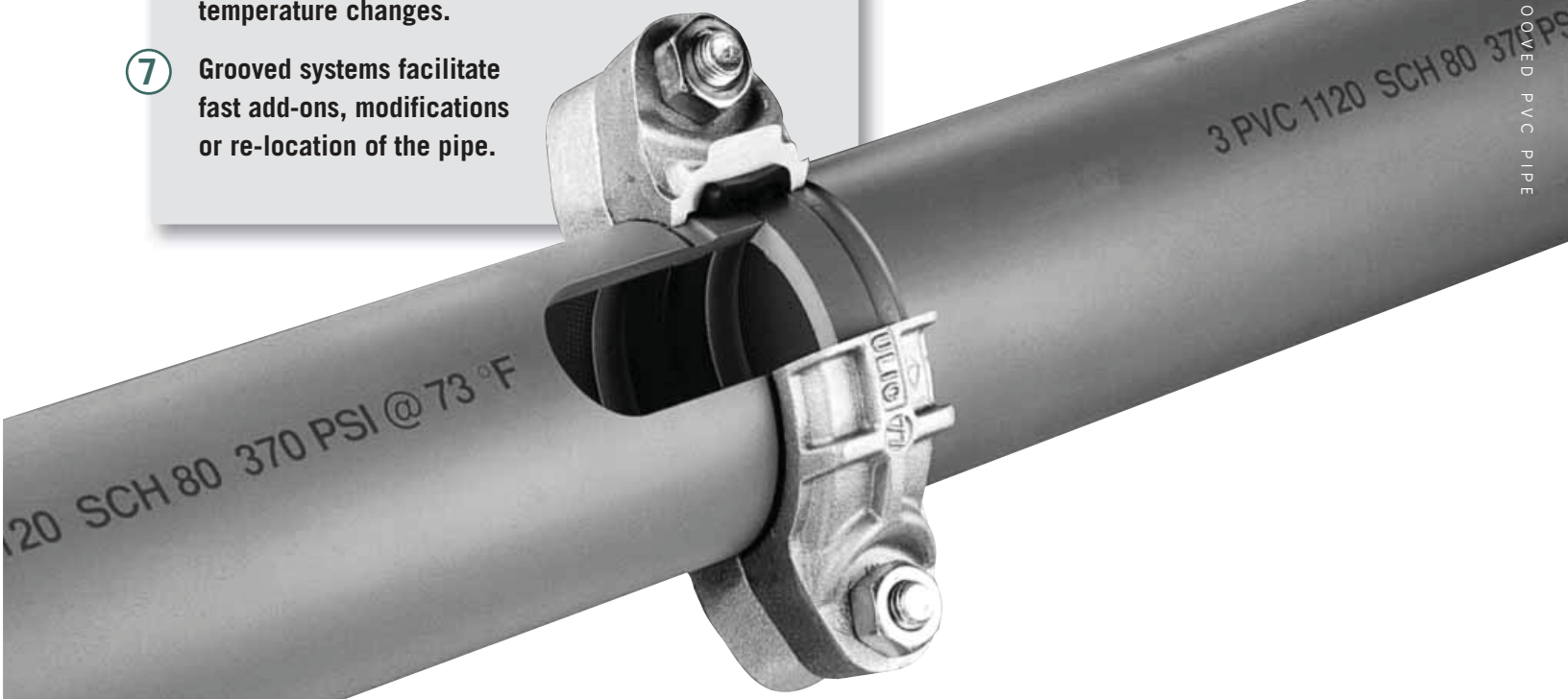
For more information on our Specialty Products, you can download our Vinyl Process Piping Systems Technical Manual quickly and easily. Just go to our website: [www.ipexamerica.com](http://www.ipexamerica.com).



### Recommended Piping for Roll Grooved Joints

Piping Material PVC Sch 40	Pipe Size (inches)	Piping Material PVC Sch 80
22686	2	85194
22688	3	85200
22706	4	85201
22712	6	85202
22714	8	85203
22730	10	85204
22716	12	85205

Consult an IPEX representative for detailed design considerations





# IPEX USA LLC MUNICIPAL PRODUCT OVERVIEW

## Blue Brute® CIOD

4" - 12" (100mm - 300mm)  
AWWA C900 pressure pipe and fittings



## Cycle Tough®

1/2" - 24" (12mm - 600mm)

IPSOD PVC pressure pipe and fittings for irrigation, rural & force main applications.



## PRESSURE PIPING SYSTEMS

## BIONAX®

4" - 12" (100mm - 300mm)

AWWA C909 molecularly-enhanced PVC pipe designed for watermains, sewage forcemains, irrigation lines and industrial process piping. Made from biaxially-oriented PVC.



## IPEX Centurion®

14" - 48" (350mm - 1200mm)

AWWA C905 large diameter pressure pipe and fittings.



## TerraBrute® CR

4" - 12" (100mm - 300mm)

Nonmetallic AWWA C900 PVC pressure pipe system for HDD applications which withstands up to 120,000 lbs of pull force.



175



## Q-Line®

3/4" - 1" (20mm - 25mm)

AWWA C903 composite water service tubing.



## WATER SERVICE SYSTEMS



## Philmac® 3G™ Valves & Fittings

1/2" - 2" (12mm - 50mm)

Water line compression fittings in CTS OD and ID Series sizes.



### Ring-Tite®

4" - 42" (100mm - 1050mm)  
SDR35 and SDR28  
sewer pipe and fittings.

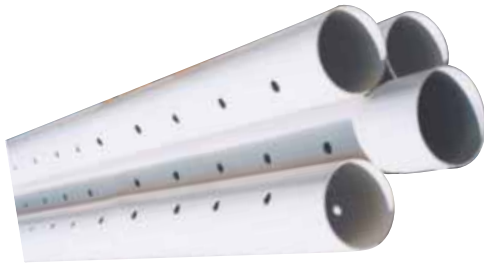


### Enviro-Tite®

4" - 15" (100mm - 375mm)  
SDR35 and SDR28 sewer pipes  
made from 50% recycled material.



## SEWER PIPING SYSTEMS



### Perforated Building Sewer Pipe

4" (100mm) and 6" (150mm)  
DR35 Building sewer pipe for the collection of domestic waste and stormwater (New England Pattern).



### Ultra-Rib®

8" - 24" (200mm - 600mm)  
Open-profile sewer pipe and fittings.



## SPECIALTY PRODUCTS



### Tempest® Storm Sewer Inlet Controls

6" sewer outlet pipe and larger  
Cost-effective Inlet Control Devices that work together across a series of catch basins to limit the amount of storm water runoff that can enter a combine sewer system during a storm event.



### Vortex Flow™ Insert

Custom designed, the Vortex Flow Insert eliminates odorous emissions and minimizes corrosion in vertical sewer drops.

## GAS VENTING

### System 636® Flue Gas Venting

1-1/2" – 8" (40mm – 200mm)

PVC-FGV Type BH Class II A vent pipe and fittings and CPVC-FGV Type BH Class II B vent.





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## About the IPEX Group of Companies

As leading suppliers of thermoplastic piping systems, the IPEX Group of Companies provides our customers with some of the world's largest and most comprehensive product lines. All IPEX products are backed by more than 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, we have established a reputation for product innovation, quality, end-user focus and performance.

Markets served by IPEX group products are:

- Industrial process piping systems
- Double containment systems
- Acid waste systems
- High purity systems
- Compressed air and inert gas piping system
- Manual and actuated thermoplastic valves
- Industrial, plumbing and electrical cements
- Electrical systems
- Telecommunications and utility piping systems
- Industrial process piping systems
- Municipal pressure and gravity piping systems
- Plumbing and mechanical piping systems
- PE Electrofusion systems for gas and water
- Irrigation systems
- PVC, CPVC, PP, PVCO, ABS, PEX, FR-PVDF, NFRPP, FRPP, HDPE, PVDF and PE pipe and fittings (1/2" – 48")

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Valves are manufactured by FIP S.P.A. and distributed in the United States by IPEX USA LLC.

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A policy of ongoing product improvement is maintained. This may result in modifications of features and/or specifications without notice.

