Vic-Flange® Adapters

STYLES 741 AND 743

SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS

Style 741

Style 741 Vic-Flange® adapter is designed for directly incorporating flanged components with ANSI CL. 125 or CL. 150/PN10 and PN16 or Australian Standard Table "E" bolt hole patterns into a grooved pipe system. Sizes 2 – 12"/50 – 300 mm are hinged for easy handling with integral end tabs which facilitate assembly. Sizes 14 – 24"/350 – 600 mm are cast in four (4) identical segments which are interconnected as assembly is completed.

The design incorporates small teeth inside the key shoulder I.D. to prevent rotation (excluding 159 mm size). These teeth should be removed when Vic-Flange adapter is utilized with a Victaulic Series 700 grooved end butterfly valve, Schedule 5 pipe or plastic pipe.

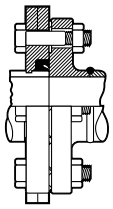
Vic-Flange adapter Style 741 is not recommended for use with Victaulic Series 709 butterfly valves (contact Victaulic for recommendations). They may only be used on one side of Victaulic Series 700 butterfly valve, sizes 2 – 4"/50 – 100 mm fitted with standard or lever-lock handles. Vic-Flange adapter must be assembled so it does not interfere with handle operation.

Style 743

Vic-Flange Style 743 flange-to-groove adapter permits direct connection of ANSI Class 300 flanged components into a grooved system. The two-piece, hinged housing engages into the pipe groove and bolts directly to any standard flanged component. The conventional bolt hole pattern allows for easy, fast assembly. Style 743 rotates 360° for proper alignment of bolt holes before tightening. Vic-Flange gaskets utilize the Victaulic pressure-responsive design, sealing on the pipe end and directly to the opposing flange face. No standard flange gasket is required.

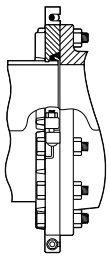
Style 743 is designed to mate with raised-face flanges, but can be used with flat-face flanges by removing the raised projections on the outside face of the flange.

STYLE 741
2 – 12" SIZES/50-300 MM



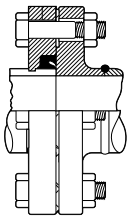
Exaggerated for Clarity

STYLE 741
14 – 24" SIZES/350-600 MM



Exaggerated for clarity

STYLE 743



Exaggerated for clarity

VIC-FLANGE NOTES

Because of the outside flange dimension, Vic-Flange should not be used within 90° of one another on a standard fitting. When wafer or lug-type valves are used adjoining a Victaulic fitting, check disc dimensions to assure proper clearance.

Vic-Flange adapters should not be used as anchor points for tie-rods across non-restrained joints. Mating rubber faced flanges, valves, etc., requires the use of a Vic-Flange washer.

Vic-Flange gaskets must always be assembled with the color coded lip on the pipe and the other lip facing the mating flange.

JOB/OWNER
System No. _____
Location _____

CONTRACTOR
Submitted By _____
Date _____

ENGINEER
Spec Sect _____ Para _____
Approved _____
Date _____

Vic-Flange® Adapters

STYLES 741 AND 743

MATERIAL SPECIFICATIONS

Housing: Ductile iron conforming to ASTM A-536, grade 65-45-12. Ductile iron conforming to ASTM A-395, grade 65-45-15, is available upon special request.

Housing Coating: Black enamel.
- **Optional:** Hot dipped galvanized and others.

Coupling Gasket: (specify choice‡)

- **Grade "E" EPDM**
  EPDM (Green color code). Temperature range –30°F to +230°F/–34°C to +110°C. Recommended for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL classified in accordance with ANSI/NSF 61 for cold +86°F/+30°C and hot +180°F/+82°C potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.

- **Grade "T" nitrile**
  Nitrile (Orange color code). Temperature range –20°F to +180°F/–29°C to +82°C. Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range; except hot, dry air over +140°F/+60°C and water over +150°F +66°C. NOT RECOMMENDED FOR HOT WATER SERVICES.

‡ Services listed are General Service Recommendations only. It should be noted that there are services for which these gaskets are not recommended. Reference should always be made to the latest Victaulic Gasket Selection Guide for specific gasket service recommendations and for a listing of services which are not recommended.

Draw Bolts: 14 – 24"/350 – 600 mm only: Heat-treated plated carbon steel, trackhead meeting the physical and chemical requirements of ASTM A-449 and physical requirements of ASTM A-183.

Vic-Flange® Adapters

STYLES 741 AND 743

DIMENSIONS

STYLE 741
Sizes 2 – 12"/50 – 300 mm
ANSI Class 125 and 150 Flanges

Size		Max. Work Pressure *	Max. End Load *	No. Bolts †	Bolt Size †	Sealing Surface Inches/mm		Dimensions – Inches/mm				Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	psi kPa	Lbs. N	Required	Inches	"A" Maximum	"B" Minimum	W	X	Y	Z	Lbs. kg
2 50	2.375 60.3	300 2065	1,330 5920	4	⅝ x 2¾	2.38 60	3.41 87	6.75 172	6.00 152	4.75 121	0.75 19	3.1 1.4
2½ 65	2.875 73.0	300 2065	1,950 8680	4	⅝ x 3	2.88 73	3.91 99	7.87 200	7.00 178	5.50 140	0.88 22	4.8 2.1
3 80	3.500 88.9	300 2065	2,885 12840	4	⅝ x 3	3.50 89	4.53 115	8.29 211	7.50 191	6.00 152	0.94 24	5.3 2.4
4 100	4.500 114.3	300 2065	4,770 21225	8	⅝ x 3	4.50 114	5.53 141	9.87 251	9.00 229	7.50 191	0.94 24	7.4 3.4
5 125	5.563 141.3	300 2065	7,290 32440	8	¾ x 3½	5.56 141	6.71 171	10.90 277	10.00 254	8.50 216	1.00 25	8.6 3.9
6 150	6.625 168.3	300 2065	10,350 46060	8	¾ x 3½	6.63 168	7.78 198	11.90 302	11.00 279	9.50 241	1.00 25	9.9 4.5
165.1 mm	6.500 165.1	300 2065	9,960 44320	8	¾ x 3½	6.50 165	7.66 195	11.92 303	11.00 279	9.45 240	1.00 25	10.0 4.5
8 200	8.625 219.1	300 2065	17,500 77875	8	¾ x 3½	8.63 219	9.94 252	14.50 368	13.50 343	11.75 298	1.13 29	16.6 7.5
10 250	10.750 273.0	300 2065	27,215 121110	12	⅞ x 4	10.75 273	12.31 313	17.24 438	16.00 406	14.25 362	1.19 30	24.2 11.0
12 300	12.750 323.9	300 2065	38,285 170270	12	⅞ x 4	12.75 324	14.31 364	20.25 514	19.00 483	17.00 432	1.25 32	46.8 21.2

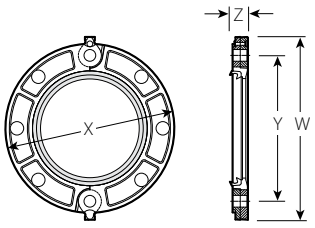
* Working Pressure and End Load are total, from all internal and external loads, based on standard weight steel pipe, standard roll or cut grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.

WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 ½ times the figures shown.

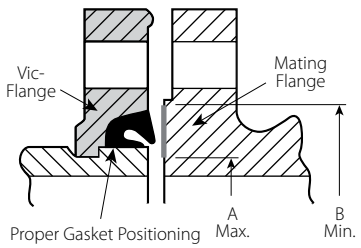
† Total bolts required to be supplied by installer, may be ordered from Victaulic.

IMPORTANT NOTES:

Style 741 Vic-Flange adapters provide rigid joints when used on pipe with standard cut or roll groove dimensions and consequently allow no linear or angular movement at the joint. When used with Victaulic Series 700 butterfly valves, plastic pipe or light wall metallic pipe, small teeth in I.D. of key section should be removed and may be used on one side of the valve. Contact Victaulic for information on ISO 2084 (PN10); DIN 2532 (PN10) and JIS B-2210 (10K) flanges.



Shaded area of mating face must be free from gouges, undulations or deformities of any type for effective sealing.



Exaggerated for Clarity

Vic-Flange® Adapters

STYLES 741 AND 743

DIMENSIONS

STYLE 741
Sizes 50 – 300 mm/ 2 – 12"
PN10 and PN16 Flanges

Size		PN10 Flanges				PN16 Flanges				Sealing Surface Inches/mm		Dimensions – mm/Inches				Approx. Wgt. Each
Nominal Size mm Inches	Actual Outside Diameter mm Inches	Max. Work Pressure * Bars * p`si	Max. End Load * N Lbs.	Bolts † No. Req'd.	Bolts † Size mm	Max. Work Pressure * Bars * psi	Max. End Load * N Lbs.	Bolts † No. Req'd.	Bolts † Size mm	"A" Maximum	"B" Minimum	W	X	Y	Z	kg Lbs.
50 2	60.3 2.375	10 145	2850 640	4	16	16 230	4561 1025	4	16	60 2.38	87 3.41	177 6.97	165 6.50	125 4.92	20 0.79	1.4 3.1
76.1 mm	76.1 3.000	10 145	4540 1020	4	16	16 230	7275 1635	4	16	76 3.00	103 4.05	208 8.19	185 7.28	145 5.71	20 0.79	2.1 4.7
80 3	88.9 3.500	10 145	6210 1395	8	16	16 230	9925 2230	8	16	89 3.50	115 4.53	218 8.58	200 7.87	160 6.30	22 0.87	2.4 5.4
100 4	114.3 4.500	10 145	10260 2305	8	16	16 230	16420 3690	8	16	114 4.50	141 5.55	251 9.88	229 9.00	180 7.09	24 0.94	3.5 7.7
139.7 mm	139.7 5.500	10 145	15330 3446	8	16	16 230	24520 5512	8	16	141 5.55	171 6.73	274 10.79	250 9.84	210 8.27	24 0.94	4.2 9.3
159.0 mm	159.0 6.250	10 145	19800 4450	8	20	16 230	31400 7056	8	20	159 6.25	187 7.36	307 12.09	285 11.0	240 9.45	26 1.02	4.5 10.0
165.1 mm	165.1 6.500	10 145	21400 4811	8	20	16 230	34236 7632	8	20	165 6.50	195 7.68	303 11.93	280 11.00	240 9.45	25 1.00	4.5 10.0
150 6	168.3 6.625	10 145	22250 5000	8	20	16 230	35600 8000	8	20	168 6.63	198 7.78	302 11.89	279 10.98	240 9.45	25 1.00	4.5 10.0
200 8	219.1 8.625	10 145	37690 8470	8	20	16 230	60320 13555	12	20	219 8.63	252 9.94	368 # 14.49	342 # 13.46	295 # 11.65	29 # 1.14	7.5 16.6
250 10	273.0 10.750	10 145	58560 13160	12	20	16 230	93695 21055	12	24	273 10.75	313 12.31	437 § 17.20	395 § 15.55	350 § 13.78	27 § 1.06	11.0 24.2
300 12	323.9 12.750	10 145	82370 18510	12	20	16 230	131810 29620	12	24	324 12.75	365 14.31	478 ‡ 18.82	460 ‡ 18.11	400 ‡ 15.75	32 ‡ 1.26	17.4 38.4

* Working Pressure and End Load are total, from all internal and external loads, based on standard weight steel pipe, standard roll or cut grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.

WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 ½ times the figures shown.

PN16 dimensions (mm/inches): W = 360/14.17; X = 340/13.39; Y = 295/11.61; Z = 30/1.18.

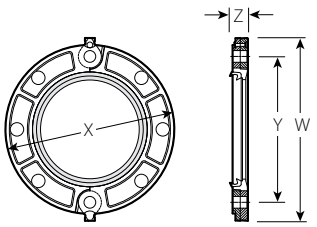
§ PN16 dimensions (mm/inches): W = 438/17.24; X = 406/15.98; Y = 355/14.00; Z = 30/1.18.

‡ PN 16 dimensions (mm/inches): W = 478/18.82; X = 444/18.11; Y = 410/16.14; Z = 32/1.26.

† Total bolts required, to be supplied by installer. Bolt sizes for conventional flange-to-flange connection.

Longer bolts required when flange utilized with wafer-type valves.

IMPORTANT NOTES: Style 741 Vic-Flange adapters provide rigid joints when used on pipe with standard cut or roll groove dimensions and consequently allow no linear or angular movement at the joint. When used with Victaulic Series 700 butterfly valves, plastic pipe or light wall metallic pipe, small teeth in I.D. of key section should be removed and may only be used on one side of the valve. Contact Victaulic for information on AS2129 - Table E; ISO 2084 (PN10); DIN 2532 (PN10) and JIS B-2210 (10k) flanges.



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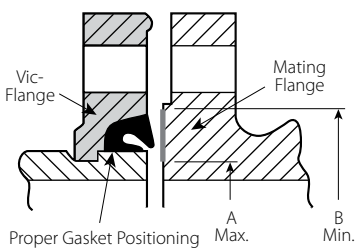


Exaggerated for Clarity

Vic-Flange® Adapters

STYLES 741 AND 743

DIMENSIONS

STYLE 741
Sizes 2 – 8"/50 – 200 mm
Australian Standard Table "E"
Flanges

Size		Max. Work Pressure *	Max. End Load *	No. Bolts †	Bolt Size †	Sealing Surface mm/Inches		Dimensions – mm/Inches				Approx. Wgt. Each
Nominal Size mm Inches	Actual Outside Diameter mm Inches	kPa psi	N Lbs.	Required	Inches	"A" Maximum	"B" Minimum	W	X	Y	Z	kg Lbs.
50 2	60.3 2.375	1400 203	4005 900	4	⅝ x 2¾	60 2.38	84 3.31	165 6.50	152 6.00	114 4.50	19 0.75	1.9 4.1
80 3	88.9 3.500	1400 203	8700 1955	4	⅝ x 3	89 3.50	113 4.44	200 7.87	191 7.50	146 5.75	24 0.94	2.4 5.4
100 4	114.3 4.500	1400 203	14374 3230	8	⅝ x 3	114 4.50	131 5.16	251 9.87	229 9.00	178 7.00	24 0.94	3.3 7.2
165.1mm	165.1 6.500	1400 203	14374 6735	8	¾ x 3½	165 6.50	192 7.56	303 11.92	279 11.00	235 9.25	25 1.00	5.0 11.0
150 6	168.3 6.625	1400 203	31150 7000	8	¾ x 3½	168 6.63	192 7.56	286 11.25	279 11.00	235 9.25	25 1.00	4.5 9.9
200 8	219.1 8.625	1400 203	52777 11860	8	¾ x 3½	219 8.63	247 9.72	368 14.50	343 13.50	292 11.50	29 1.12	5.7 12.5

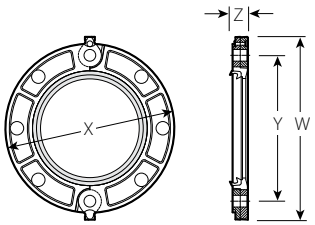
* Working Pressure and End Load are total, from all internal and external loads, based on standard weight steel pipe, standard roll or cut grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.

WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 ½ times the figures shown.

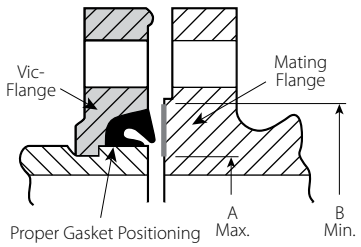
† Total bolts required to be supplied by installer, may be ordered from Victaulic.

IMPORTANT NOTES:

Style 741 Vic-Flange adapters provide rigid joints when used on pipe with standard cut or roll groove dimensions and consequently allow no linear or angular movement at the joint. When used with Victaulic Series 700 butterfly valves, plastic pipe or light wall metallic pipe, small teeth in I.D. of key section should be removed and may be used on one side of the valve. Contact Victaulic for information on ISO 2084 (PN10); DIN 2532 (PN10) and JIS B-2210 (10K) flanges.



Shaded area of mating face must be free from gouges, undulations or deformities of any type for effective sealing.



Exaggerated for Clarity

Vic-Flange® Adapters

STYLES 741 AND 743

DIMENSIONS

STYLE 741
Sizes 14 – 24"/350 – 600 mm#
ANSI Class 125 and 150 Flanges

Size		Max. Work Pressure *	Max. End Load *	Assembly Bolts †		Draw Bolts §		Sealing Surface Inches/mm		Dimensions – Inches/mm						Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	psi kPa	Lbs. N	No. Req. †	Size Inches	No. Req.	Size Inches	"A" Max.	"B" Min.	T	V	W	X	Y	Z	Lbs. kg
14 350	14.000 355.6	300 2065	46,180 205500	12	1 x 4 ½	4	⅝ x 3 ½	14.00 356	16.39 416	19.38 492	0.94 24	24.50 622	21.00 533	18.75 476	2.50 64	62.0 28.1
16 400	16.000 406.4	300 2065	60,300 268335	16	1 x 4 ½	4	⅝ x 3 ½	16.00 406	18.39 467	21.50 546	0.94 24	27.12 689	23.50 597	21.25 540	2.50 64	79.0 35.8
18 450	18.000 457.0	300 2065	76,340 339700	16	1 ⅛ x 4 ¾	4	¾ x 4 ¼	18.00 457	20.00 508	22.25 565	1.00 25	29.00 737	25.00 637	22.75 578	2.75 70	82.3 37.3
20 500	20.000 508.0	300 2065	94,250 419400	20	1 ⅛ x 5 ¼	4	¾ x 4 ¼	20.00 508	22.50 572	25.00 635	1.00 25	31.50 800	27.50 699	25.00 635	2.75 70	103.3 46.9
24 600	24.000 610.0	300 2065	135,700 603865	20	1 ¼ x 5 ¾	4	¾ x 4 ¼	24.00 610	27.75 705	29.00 737	1.00 25	36.00 914	32.00 813	29.50 749	3.00 76	142.0 64.4

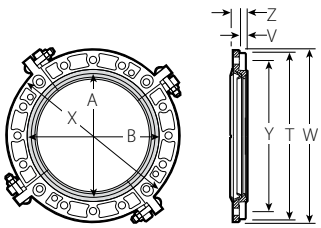
* Working Pressure and End Load are total, from all internal and external loads, based on standard weight steel pipe, standard roll or cut grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.

WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 ½ times the figures shown.

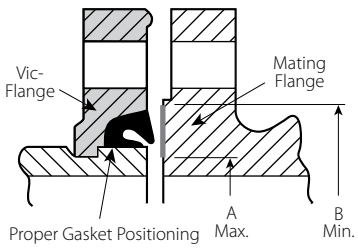
† Total bolts required to be supplied by installer, may be ordered from Victaulic. Bolt sizes for conventional flange-to-flange connection. Longer bolts required when Vic-Flange utilized with wafer-type valves.

§ Draw bolts supplied with 14 – 24"/350 – 600 mm Vic-Flange adapters.

For cut groove systems only. For 14 – 24"/350 – 600 mm roll groove systems, AGS (Advanced Groove System) products are used. Style 741 is not compatible with the AGS system.



Shaded area of mating face must be free from gouges, undulations or deformities of any type for effective sealing.



Exaggerated for Clarity

Vic-Flange® Adapters

STYLES 741 AND 743

DIMENSIONS

STYLE 743

Grooved pipe adapter to
ANSI Class 300 flanges

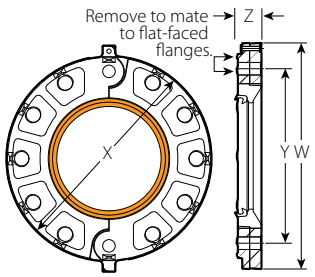
Size		Max. Work Pressure *	Max. End Load *	No. Bolts †	Bolt/Nut Size †	Sealing Surface Inches/mm		Dimensions – Inches/mm				Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	psi kPa	Lbs. N	Required	Inches	"A" Maximum	"B" Minimum	W	X	Y	Z	Lbs. kg
2 50	2.375 60.3	720 4960	3,190 14200	8	⅝ x 3	2.38 60	3.41 87	7.70 196	6.50 165	5.00 127	0.93 24	4.8 2.2
2½ 65	2.875 73.0	720 4960	4,670 20780	8	¾ x 3¼	2.88 73	3.91 99	8.61 219	7.50 191	5.88 149	1.06 27	7.4 3.4
3 80	3.500 88.9	720 4960	6,925 30815	8	¾ x 3½	3.50 89	4.53 115	9.48 241	8.25 210	6.63 168	1.18 30	9.1 4.1
4 100	4.500 114.3	720 4960	11,445 50930	8	¾ x 3¾	4.50 114	5.53 141	11.35 288	10.00 254	7.87 200	1.31 33	15.3 6.9
5 125	5.563 141.3	720 4960	17,500 77875	8	¾ x 4	5.56 141	6.72 171	12.31 313	11.00 279	9.25 235	1.43 36	17.7 8.0
6 150	6.625 168.3	720 4960	24,805 110380	12	¾ x 4½	6.63 168	7.78 198	13.77 350	12.50 318	10.63 270	1.50 38	23.4 10.6
8 200	8.625 219.1	720 4960	42,045 187100	12	⅞ x 4¾	8.63 219	9.94 252	16.68 424	15.00 381	13.00 330	1.68 43	34.3 15.6
10 250	10.750 273.0	720 4960	65,315 290650	16	1 x 5¼	10.75 273	12.31 313	19.25 489	17.50 445	15.25 387	1.93 49	48.3 21.9
12 300	12.750 323.9	720 4960	91,880 408870	16	1 ⅛ x 5¾	12.75 324	14.31 363	22.25 565	20.50 521	17.75 451	2.06 52	70.5 32.0

* Working Pressure and End Load are total, from all internal and external loads, based on standard weight steel pipe, standard roll or cut grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.

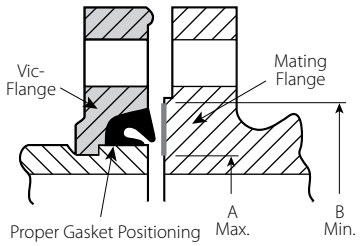
WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 ½ times the figures shown.

Style 743 Vic-Flange must be ordered as a factory assembly when connected to a Victaulic fitting or valve. Contact Victaulic for details.

† Total bolts required to be supplied by installer, may be ordered from Victaulic.



Shaded area of mating face must be free from gouges, undulations or deformities of any type for effective sealing.



Exaggerated for Clarity

Vic-Flange® Adapters

STYLES 741 AND 743

VIC-FLANGE ADAPTER NOTES

1. The Style 741 (2 – 12"/50 – 300 mm) design incorporates small teeth inside the key shoulder I.D. to prevent rotation. These teeth should be removed when Vic-Flange adapter is utilized with a Victaulic Series 700 grooved end butterfly valve, Schedule 5 pipe or plastic pipe. Vic-Flange adapter Style 741 may only be used on one side of Victaulic Series 700 butterfly valve, sizes 2 – 4"/50 – 100 mm fitted with standard or latch-lock handles.

2. Vic-Flange adapter must be assembled so it does not interfere with handle operation. Because of the outside flange dimension, Vic-Flange adapter should not be used within 90° of one another on a standard fitting. When wafer or lug-type valves are used adjoining a Victaulic fitting, check disc dimensions to assure proper clearance.

3. Vic-Flange adapters should not be used as anchor points for tie-rods across nonrestrained joints. Mating rubber faced flanges, valves, etc. requires the use of a Vic-Flange washer.

4. Area A-B noted in the above drawing must be free from gouges, undulations or deformities of any type for effective sealing.

5. Vic-Flange adapter gaskets must always be assembled with the color coded lip on the pipe and the other lip facing the mating flange.

6. Vic-Flange hinge points must be oriented approximately 90° to each other when mated.

7. Flange Washers: Vic-Flange adapters require a smooth hard surface at the mating flange face for effective sealing. Some applications for which the Vic-Flange adapter is otherwise well suited do not provide an adequate mating surface. In such cases, it is recommended that a metal (Type F phenolic for Style 641 with copper systems) Flange Washer be inserted between the Vic-Flange adapter and the mating flange to provide the necessary sealing surface.

Typical applications where a Flange Washer should be used are:

A. When mating to a serrated flange: a flange gasket should be used adjacent to the serrated flange and then the Flange Washer is inserted between the Vic-Flange adapter and the flange gasket.

B. When mating to a wafer valve: where typical valves are rubber lined and partially rubber faced (smooth or not), the Flange Washer is placed between the valve and the Vic-Flange adapter.

C. When mating a rubber faced flange: the Flange Washer is placed between the Vic-flanges and the rubber faced flange.

D. When mating AWWA cast flanges to IPS flanges: the Flange Washer or Transition Ring is placed between two Vic-Flange adapters with the hinge points oriented 90° to each other. If one flange is not a Vic-Flange adapter (e.g., flanged valve), then a flange gasket must be placed adjacent to that flange and the Flange Washer inserted between the flange gasket and the Vic-Flange adapter. Transition rings rather than Flange Washers must be used when mating Style 741 to Style 341 Flange Adapters in sizes 14 – 24"/350 – 600 mm.

E. When mating to components (valves, strainers, etc.) where the component flange face has an insert: follow the same arrangement as in Application 1.

When ordering Flange Washers, always specify product style (Style 741, 743, 341, 641, 994) and size to assure proper Flange Washer is supplied.

Vic-Flange® Adapters

STYLES 741 AND 743

GENERAL NOTES

Style 741 and 743 Vic-Flange adapters provide rigid joints when used on pipe with standard **roll** or **cut** groove dimensions and consequently allow no linear or angular movement at the joint.

WARRANTY

Refer to the Warranty section of the current Price List or contact Victaulic for details.

NOTE

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

INSTALLATION

Reference should always be made to the I-100 Victaulic Field Installation Handbook for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

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