

Vic-Flange® Adapters



SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS

STYLES 741 AND 743

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 – 300mm 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 159mm 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 – 100mm fitted with standard or lever-lock handles. Vic-Flange adapter must be assembled so it does not interfere with handle operation.

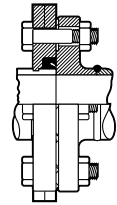
Style 743

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.



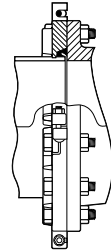
STYLE 741
2 – 12” SIZES/50-300 MM



Exaggerated for Clarity



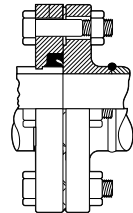
STYLE 741
14 – 24” SIZES/350-600 MM



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 _____

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REV_M



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 – 300mm
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 | 5/8 x 2 3/4 | 2.38 60 | 3.41 87 | 6.75 172 | 6.00 152 | 4.75 121 | 0.75 19 | 3.1 1.4 |
| 2 1/2 65 | 2.875 73.0 | 300 2065 | 1,950 8680 | 4 | 5/8 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 | 5/8 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 | 5/8 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 | 3/4 x 3 1/2 | 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 | 3/4 x 3 1/2 | 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 | 3/4 x 3 1/2 | 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 | 3/4 x 3 1/2 | 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 | 7/8 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 | 7/8 x 4 | 12.75 324 | 14.31 364 | 20.25 514 | 19.00 483 | 17.00 432 | 1.25 32 | 46.8 21.2 |

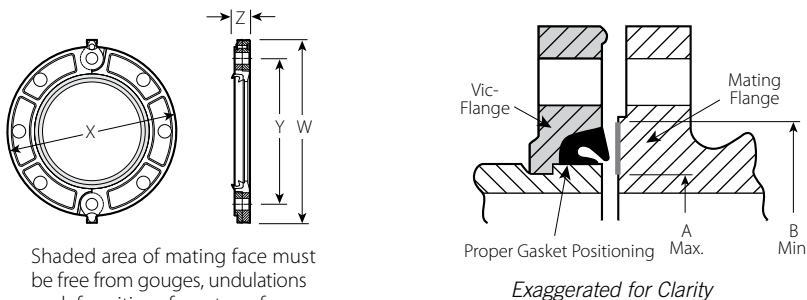
* Working Pressure and End Load are total, from all internal and external loads, based on standard weight steel pipe, standard roll or cut grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.

WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 1/2 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.

Vic-Flange® Adapters

STYLES 741 AND 743

DIMENSIONS

STYLE 741

Sizes 50 – 300mm/ 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 * | Max. End Load * | Bolts † | | Max. Work Pressure * | Max. End Load * | Bolts † | | "A" Maximum | "B" Minimum | W | X | Y | Z | kg Lbs. |
| | | Bars * p si | N Lbs. | No. Req'd. | Size mm | Bars * psi | N Lbs. | No. Req'd. | Size mm | | | | | | | |
| 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.

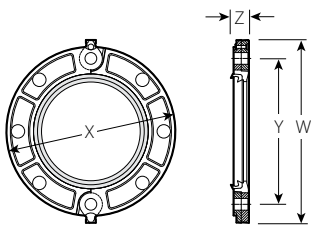
§ PN16 dimensions (mm/inches): W = 438/17.24; X = 406/15.98; Y = 355/14.00; Z = 30/1.18.

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

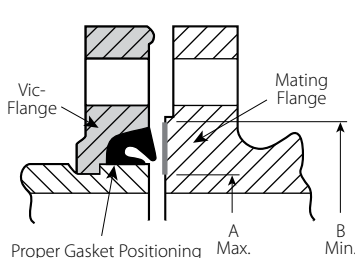
† Total bolts required, to be supplied by installer. Bolt sizes for conventional flange-to-flange connection.

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.



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 2 – 8"/50 – 200mm
 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 | 5/8 x 2 3/4 | 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 | 5/8 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 | 5/8 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 | 3/4 x 3 1/2 | 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 | 3/4 x 3 1/2 | 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 | 3/4 x 3 1/2 | 219 8.63 | 247 9.72 | 368 14.50 | 343 13.50 | 292 11.50 | 29 1.12 | 5.7 12.5 |

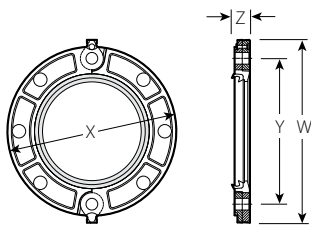
* Working Pressure and End Load are total, from all internal and external loads, based on standard weight steel pipe, standard roll or cut grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.

WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 1/2 times the figures shown.

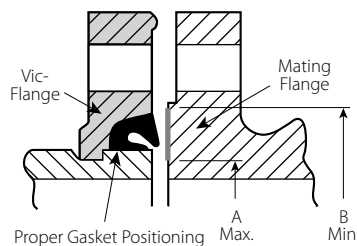
† Total bolts required to be supplied by installer, may be ordered from Victaulic.

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 – 600mm#
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 4½ | 4 | ¾ x 3½ | 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 4½ | 4 | ¾ x 3½ | 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 | 1½ x 4¾ | 4 | ¾ x 4¼ | 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 | 1½ x 5¼ | 4 | ¾ x 4¼ | 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 | 1¼ x 5¾ | 4 | ¾ x 4¼ | 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 | |

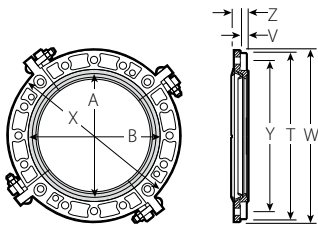
* Working Pressure and End Load are total, from all internal and external loads, based on standard weight steel pipe, standard roll or cut grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.

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

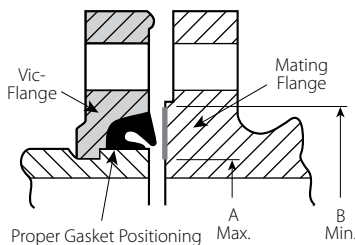
† Total bolts required to be supplied by installer, may be ordered from Victaulic. Bolt sizes for conventional flange-to-flange connection. Longer bolts required when Vic-Flange utilized with wafer-type valves.

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

For cut groove systems only. For 14 – 24"/350 – 600mm 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

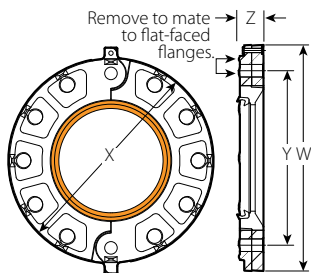
| Size | | Max. Work Pressure * | Max. End Load * | No. Bolts † | Bolt/Nut Size † | Sealing Surface Inches/mm | | Dimensions – Inches/mm | | | | Approx. Wgt. Each |
|------------------------|-----------------------------------|----------------------|------------------|-------------|-----------------|---------------------------|--------------|------------------------|--------------|--------------|------------|-------------------|
| 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 | 5/8 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 | 7/8 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 | 1½ 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.

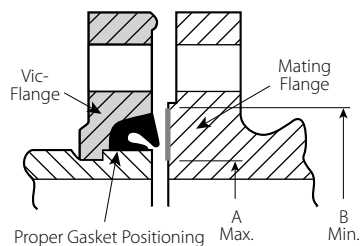
WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1½ times the figures shown.

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 – 300mm) 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 – 100mm 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 – 600mm.
- 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.

For complete contact information, visit www.victaulic.com

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