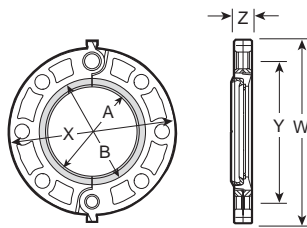


# Style 741 (Metric) Vic-Flange® Adapter JIS 10K

## PRODUCT DESCRIPTION



**Note:** Gray area of mating face must be free from gouges, undulations or deformities of any type for effective sealing.

Style 741 10K Vic-Flange adapters are designed for directly incorporating flanged components with JIS B 2210 10K bolt hole patterns into a grooved pipe system. Sizes 65 - 150 mm (2 - 6") are hinged for easy handling with integral end tabs which facilitate assembly.

Vic-Flange adapter Style 741 may only be used on one side of Victaulic Series 700 butterfly valves, sizes 50 - 100 mm (2 - 4") fitted with standard or lever-lock handles. The Vic-Flange adapter must be assembled so it does not interfere with handle operation.

Vic-Flange adapters may only be used on Vic-300 butterfly valves on one side in 50 - 200 mm (2 - 8") sizes. They are not recommended for 250 and 300 mm (10 and 12") sizes.

Because of the outside flange dimension, Vic-Flanges 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 nonrestrained joints. Mating rubber faced flanges, valves, etc., require the use of a Vic-Flange washer. See Vic-Flange Note No. 7 on page 2.

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

## DIMENSIONS

Pipe Size		Max. Work Pres. Bars* psi	Max. End Load N* Lbs.	Bolts †		Sealing Surface mm/Inches		Flange Dimensions Millimeters/Inches				Aprx. Wgt. Each kg Lbs.
Nom. Dia. mm/in.	Actual Outside Dia. mm/in.			No. Req'd.	Size mm	"A" Max.	"B" Min.	W	X	Y	Z	
73	73,0 2.880	10 145	4180 940	4	16	73 2.88	99 3.91	200 7.87	178 7.00	140 5.51	22 0.88	2,4 5.3
65 2½	76,1 3.00	10 145	4540 1020	4	16	76 3.00	103 4.05	208 8.20	185 7.28	140 5.51	20 0.79	2,2 4.9
80 3	88,9 3.500	10 145	6210 1395	8	16	89 3.50	115 4.53	211 8.29	191 7.50	150 5.91	24 0.94	2,8 6.2
100 4	114,3 4.500	10 145	10260 2305	8	16	114 4.50	141 5.53	251 9.87	229 9.00	175 6.89	24 0.94	3,2 7.1
141,3 mm	141,3 5.56	10 145	15650 3520	8	20	141 5.56	171 6.71	277 10.90	254 10.00	210 8.27	25 1.00	4,2 9.3
165,1 mm	165,1 6.500	10 145	21400 4811	8	20	165 6.50	195 7.66	302 11.90	280 11.00	240 9.45	25 1.00	4,6 10.1
150 6	168,3 6.625	10 145	22250 5000	8	20	168 6.63	198 7.78	302 11.90	280 11.00	240 9.45	25 1.00	4,5 9.9

\* Refer to notes on page 2.

† 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.

## MATERIAL SPECIFICATIONS

**Housing:** Ductile iron conforming to ASTM A-395, grade 65-45-15, and ASTM A-536, grade 65-45-12.

**Housing Coating:** Black enamel

- **Optional:** Hot dipped galvanized and others.

**Coupling Gasket:** (specify choice\*)

- **Grade “E” EPDM**

EPDM (Green color code). Temperature range  $-34^{\circ}\text{C}$  to  $+110^{\circ}\text{C}$  ( $-30^{\circ}\text{F}$  to  $+230^{\circ}\text{F}$ ). 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  $+30^{\circ}\text{C}$  ( $+86^{\circ}\text{F}$ ) and hot  $+82^{\circ}\text{C}$  ( $+180^{\circ}\text{F}$ ) potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.

- **Grade “T” nitrile**

Nitrile (Orange color code). Temperature range  $-29^{\circ}\text{C}$  to  $+82^{\circ}\text{C}$  ( $-20^{\circ}\text{F}$  to  $+180^{\circ}\text{F}$ ). Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range; except hot, dry air over  $+60^{\circ}\text{C}$  ( $+140^{\circ}\text{F}$ ) and water over  $+66^{\circ}\text{C}$  ( $+150^{\circ}\text{F}$ ). 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.

**Hinge Pin:** Electroplated steel.

## VIC-FLANGE ADAPTER NOTES

- 1 Vic-Flange adapter Style 741 may be used only on one side of Victaulic Series 700 butterfly valve, sizes 50 - 100 mm (2 - 4") 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  $90^{\circ}$  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  $90^{\circ}$  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  $90^{\circ}$  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 350 - 600 mm (14 - 24").
  - 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.*

### NOTES

Style 741 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.

\* Working Pressure and End Load are total, from all internal and external loads, based on standard weight (ANSI) 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  $1\frac{1}{2}$  times the figures shown.

WARNING: Depressurize and drain the piping system before attempting to install, remove, or adjust any Victaulic piping products.

This product shall be manufactured by Victaulic Company. 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.