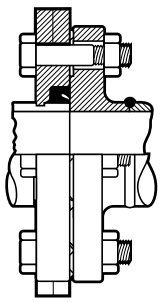
Victaulic® *Vic-Flange* Adapters
Styles 741 and 743



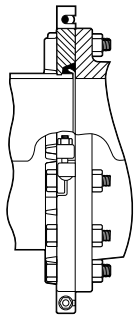
Style 741
2 – 12"/DN50 – DN300



Exaggerated for clarity



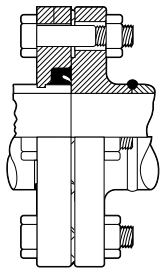
Style 741
14 – 24"/DN350 – DN600



Exaggerated for clarity



Style 743
2 – 12"/DN50 – DN300



Exaggerated for clarity

1.0 PRODUCT DESCRIPTION

Available Sizes

- **Style 741:** 2 – 24"/DN50 – DN600
- **Style 743:** 2 – 12"/DN50 – DN300

Pipe Material

- Carbon Steel
- For use with stainless steel pipe, refer to Publication 17.09 for pressure ratings and end loads.
- For use with PVC pipe, refer to Publication 32.01 for pressure ratings.
- For use with aluminum pipe, refer to Publication 21.04 for pressure ratings and end loads.
- For exceptions, refer to Section 6.0, Notifications.

Maximum Working Pressure

- **Style 741:** Accommodates pressure ranging from full vacuum (29.9 in-Hg/760 mm-Hg) up to 300 psi / 2068 kPa / 21 bar
- **Style 743:** Accommodates pressure ranging from full vacuum (29.9 in-Hg/760 mm-Hg) up to 720 psi / 4964 kPa / 50 bar

Application

- Designed to transition from flanged to grooved piping systems

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

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2.0 CERTIFICATIONS/LISTINGS

EN 10311
CPR (EU)
No. 305/2011

NOTE

- See *Victaulic* Publication 02.06: Victaulic® Potable Water Approvals ANSI/NSF for potable water approvals if applicable.

3.0 SPECIFICATIONS – MATERIAL

Housing: Ductile Iron conforming to ASTM A536, Grade 65-45-12

Housing Coating: (specify choice)

☐ Standard: Black Coating

☐ Optional: Hot Dipped Galvanized per ASTM A123

☐ Optional: Contact Victaulic with your requirements for other coatings.

Gasket: (specify choice[1])

☐ **Grade "E" EPDM**

EPDM (Green Stripe color code); Temperature range –30°F to +230°F/–34°C to +110°C. May be specified 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 +73°F/+23°C and hot +180°F/+82°C potable water service and ANSI/NSF 372. NOT COMPATIBLE FOR USE WITH PETROLEUM SERVICES OR STEAM SERVICES.

☐ **Grade "T" Nitrile**

Nitrile (Orange Stripe color code); Temperature range 20°F to +180°F/29°C to +82°C. May be specified for oil related services, including air with oil vapor, for temperatures rated up to +180°F/+82°C. For water related services, this gasket may be specified for temperatures rated up to +150°F/+66°C. For oil free, dry air services, this gasket may be specified for temperatures rated up to +140°F/+60°C. NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES OR STEAM SERVICES.

☐ **Others**

For alternate gasket selection, reference Publication 05.01: Victaulic® Seal Selection Guide.

1 Services listed are General Service Guidelines only. It should be noted that there are services for which these gaskets are not compatible. Reference should always be made to the latest *Victaulic* Seal Selection Guide for specific gasket service guidelines and for a listing of services which are not compatible.

Draw Bolts/Nuts: (14 – 24"/DN350 – DN600 only)

☐ **Standard:** Carbon steel oval neck track bolts meeting the mechanical property requirements of (imperial) ASTM A449 or (metric) ISO 898-1 Class 9.8 (M10-M16) or Class 8.8 (M20 and greater). Carbon steel hex nuts meeting the mechanical property requirements of (imperial heavy hex nuts) ASTM A563 Grade B or (metric hex nuts) ISO 898-2 Class 10 (M12-M16) or Class 8 (M20 and greater). Track bolts and hex nuts are zinc electroplated per ASTM B633 Fe/Zn 5 finish (imperial) Type III or (metric) Type II.

☐ **Optional:** Bolts – Stainless steel, meeting the mechanical property requirements of ASTM F593, Group 2 (316 stainless steel), condition CW. Nuts – Stainless Steel meeting the mechanical property requirements of ASTM F594, Group 2 (316 stainless steel), condition CW, with galling reducing coating.[2]

2 Optional bolts/nuts are available in imperial size only.

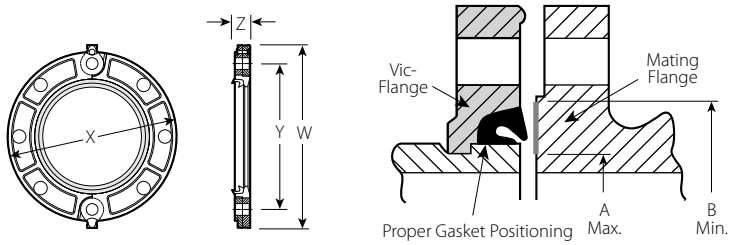
Rivet (2 – 12"/DN50 – DN300 only): AISI 430 Stainless Steel

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4.0 DIMENSIONS

Style 741 *Vic-Flange* Adapter

2 – 12"/DN50 – DN300
ANSI Class 125 and 150 Flanges



Exaggerated for clarity

Size		Assembly Bolt/Nut[2]		Sealing Surface		Dimensions				Weight
Nominal inches DN	**Actual Outside Diameter** inches mm	**Qty.**	**Size** inches	**"A" Max.** inches mm	**"B" Min.** inches mm	**W** inches mm	**X** inches mm	**Y** inches mm	**Z** inches mm	**Approximate (Each)** lb kg
2 DN50	2.375 60.3	4	⅝ × 2¾	2.38 60	3.41 87	6.75 172	6.00 152	4.75 121	0.75 19	3.1 1.4
2 ½	2.875 73.0	4	⅝ × 3	2.88 73	3.91 99	7.88 200	7.00 178	5.50 140	0.88 22	4.8 2.1
3 DN80	3.500 88.9	4	⅝ × 3	3.50 89	4.53 115	8.50 216	7.50 191	6.00 152	1.00 25	5.3 2.4
4 DN100	4.500 114.3	8	⅝ × 3	4.50 114	5.53 141	10.00 254	9.00 229	7.50 191	1.00 25	7.4 3.4
5	5.563 141.3	8	¾ × 3 ½	5.56 141	6.71 171	11.00 279	10.00 254	8.50 216	1.00 25	8.6 3.9
6 DN150	6.625 168.3	8	¾ × 3 ½	6.63 168	7.78 198	12.00 305	11.00 279	9.50 241	1.00 25	9.9 4.5
8 DN200	8.625 219.1	8	¾ × 3 ½	8.63 219	9.94 252	14.75 375	13.50 343	11.75 298	1.13 29	16.6 7.5
10 DN250	10.750 273.0	12	⅞ × 4	10.75 273	12.31 313	17.25 438	16.00 406	14.25 362	1.25 32	24.2 11.0
12 DN300	12.750 323.9	12	⅞ × 4	12.75 324	14.31 364	20.25 514	19.00 483	17.00 432	1.25 32	46.8 21.2

[2] Total assembly bolts required to be supplied by installer.

NOTES

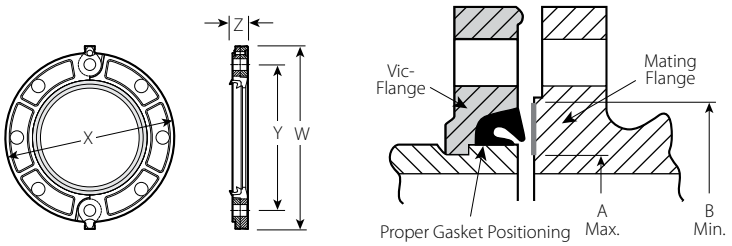
- The W, X, Y, and Z dimensions are intended to be used for layout and clearance purposes only.
- IMPORTANT: Style 741 *Vic-Flange* adapters provide rigid joints when used on pipe with standard cut or roll groove dimensions and consequently allow no linear or angular movement at the joint. When used 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. Reference the I-100: *Victaulic* Field Installation Handbook for details. Contact Victaulic for information on ISO 2084 (PN10); DIN 2532 (PN10) and JIS B-2210 (10K) flanges.

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4.1 DIMENSIONS

Style 741 *Vic-Flange* Adapter

DN50 – DN300/2 – 12"
PN10 and PN16 Flanges



Exaggerated for clarity

Size		PN10 Flanges		PN16 Flanges		Sealing Surface		Dimensions				Weight
Nominal DN inches	Actual Outside Diameter mm inches	Assembly Bolt/Nut[2,3] Qty.	Assembly Bolt/Nut[2,3] Size mm	Assembly Bolt/Nut[2,3] Qty.	Assembly Bolt/Nut[2,3] Size mm	"A" Max. mm inches	"B" Min. mm inches	W mm inches	X mm inches	Y mm inches	Z mm inches	Approximate (Each) kg lb
DN50 2	60.3 2.375	4	M16 × 70	4	M16 × 70	60 2.38	87 3.41	178 7.00	165 6.50	127 5.00	22 0.88	1.4 3.1
DN65	76.1 3.000	4	M16 × 70	4	M16 × 70	76 3.00	103 4.05	210 8.25	187 7.38	146 5.75	22 0.88	2.1 4.7
DN80 3	88.9 3.500	8	M16 × 70	8	M16 × 70	89 3.50	115 4.53	219 8.63	200 7.88	162 6.38	22 0.88	2.4 5.4
DN100 4	114.3 4.500	8	M16 × 76	8	M16 × 76	114 4.50	141 5.55	251 9.88	229 9.00	181 7.13	25 1.00	3.5 7.7
DN125	139.7 5.500	8	M16 × 76	8	M16 × 76	141 5.55	171 6.73	276 10.88	251 9.88	213 8.38	29 1.13	4.2 9.3
	159.0 6.250	8	M20 × 89	8	M20 × 89	159 6.25	187 7.36	314 12.38	289 11.38	241 9.50	29 1.13	4.5 10.0
	165.1 6.500	8	¾ × 3 ½	8	¾ × 3 ½	165 6.50	192 7.56	305 12.00	279 11.00	241 9.50	25 1.00	5.0 11.0
DN150 6	168.3 6.625	8	M20 × 89	8	M20 × 89	168 6.63	198 7.78	302 11.88	279 11.00	241 9.50	25 1.00	4.5 10.0
DN200 8	219.1 8.625	8	M20 × 89	12	M20 × 89	219 8.63	252 9.94	368[4] 14.50	343[4] 13.50	295[4] 11.63	29[4] 1.13	7.5 16.6
DN250 10	273.0 10.750	12	M20 × 89	12	M24 × 90	273 10.75	313 12.31	438[5] 17.25	397[5] 15.63	352[5] 13.88	29[5] 1.13	11.0 24.2
DN300 12	323.9 12.750	12	M20 × 89	12	M24 × 90	324 12.75	365 14.31	479[6] 18.88	460[6] 18.13	400[6] 15.75	32[6] 1.25	17.4 38.4

[2] Total assembly bolts required to be supplied by installer.

[3] Longer bolts required when the *Vic-Flange* is utilized with wafer-type valves.

[4] PN16 dimensions (mm/inches): W = 360/14.17; X = 340/13.38; Y = 295/11.63; Z = 32/1.25.

[5] PN16 dimensions (mm/inches): W = 438/17.24; X = 406/16.00; Y = 356/14.00; Z = 32/1.25.

[6] PN16 dimensions (mm/inches): W = 478/18.82; X = 445/17.50; Y = 410/16.13; Z = 32/1.25.

NOTES

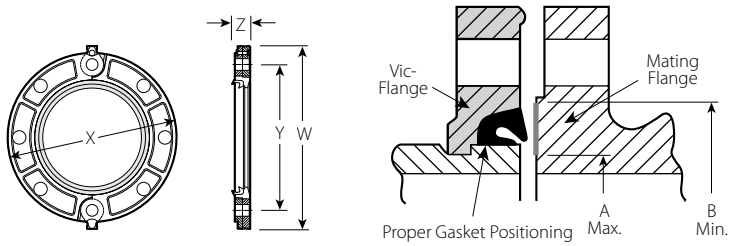
- The W, X, Y, and Z dimensions are intended to be used for layout and clearance purposes only.
- IMPORTANT: Style 741 *Vic-Flange* adapters provide rigid joints when used on pipe with standard cut or roll groove dimensions and consequently allow no linear or angular movement at the joint. When used 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. Reference the I-100: *Victaulic* Field Installation Handbook for details. Contact Victaulic for information on ISO 2084 (PN10); DIN 2532 (PN10) and JIS B-2210 (10K) flanges.

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4.2 DIMENSIONS

Style 741 *Vic-Flange* Adapter

DN50 – DN200/2 – 8"
Australian Standard Table “E” Flanges



Exaggerated for clarity

Size		Assembly Bolt/Nut[2]		Sealing Surface		Dimensions				Weight
Nominal DN inches	**Actual Outside Diameter** mm inches	**Qty.**	**Size** inches	**“A” Max.** mm inches	**“B” Min.** mm inches	**W** mm inches	**X** mm inches	**Y** mm inches	**Z** mm inches	**Approximate (Each)** kg lb
DN80 3	88.9 3.500	4	⅝ × 3	89 3.50	113 4.44	200 7.88	191 7.50	146 5.75	25 1.00	2.4 5.4
DN100 4	114.3 4.500	8	⅝ × 3	114 4.50	131 5.16	251 9.88	229 9.00	178 7.00	25 1.00	3.3 7.2
	165.1 6.500	8	¾ × 3 ½	165 6.50	192 7.56	302 11.88	279 11.00	235 9.25	25 1.00	5.0 11.0
DN150 6	168.3 6.625	8	¾ × 3 ½	168 6.63	192 7.56	286 11.25	279 11.00	235 9.25	25 1.00	4.5 9.9
DN200 8	219.1 8.625	8	¾ × 3 ½	219 8.63	247 9.72	368 14.50	343 13.50	292 11.50	29 1.13	5.7 12.5

[2] Total assembly bolts required to be supplied by installer.

NOTES

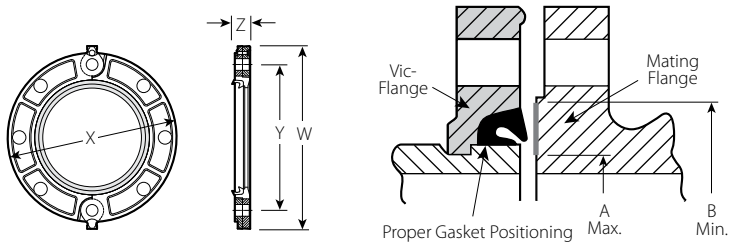
- The W, X, Y, and Z dimensions are intended to be used for layout and clearance purposes only.
- IMPORTANT: Style 741 *Vic-Flange* adapters provide rigid joints when used on pipe with standard cut or roll groove dimensions and consequently allow no linear or angular movement at the joint. When used 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. Reference the I-100: *Victaulic* Field Installation Handbook for details. Contact Victaulic for information on ISO 2084 (PN10); DIN 2532 (PN10) and JIS B-2210 (10K) flanges.

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4.3 DIMENSIONS

Style 741 *Vic-Flange* Adapter

DN50 – DN200/2 – 8"
Chinese Standard



Exaggerated for clarity

Size		Assembly Bolt/Nut[2]		Sealing Surface		Dimensions				Weight
Nominal DN inches	Actual Outside Diameter mm inches	Qty.	Size mm	"A" Max. mm inches	"B" Min. mm inches	W mm inches	X mm inches	Y mm inches	Z mm inches	Approximate (Each) kg lb
DN50 2	60.3 2.375	4	M16 × 70	60 2.38	87 3.41	172 6.75	152 6.00	121 4.75	19 0.75	1.4 3.1
DN65	76.1 3.000	4	M16 × 70	78 3.07	94 3.68	210 8.25	187 7.38	146 5.75	22 0.88	2.1 4.7
DN80 3	88.9 3.500	8	M16 × 76	89 3.50	115 4.53	213 8.38	191 7.50	152.4 6.00	25 1.00	2.4 5.4
	108.0 4.250	8	M16 × 76	110 4.33	126 4.97	248 9.75	222 8.75	181 7.13	25 1.00	3.5 7.7
DN100 4	114.3 4.500	8	M16 × 76	114 4.50	141 5.55	251 9.88	229 9.00	191 7.50	25 1.00	3.5 7.7
	133.0 5.250	8	M16 × 76	135 5.33	153 6.02	276 10.88	251 9.88	213 8.38	29 1.13	3.9 8.6
DN125	139.7 5.500	8	M16 × 76	142 5.59	160 6.28	276 10.88	251 9.88	213 8.38	29 1.13	3.9 8.6
	159.0 6.250	8	M20 × 89	159 6.25	187 7.36	314 12.38	289 11.38	241 9.50	29 1.13	4.5 10.0
	165.1 6.500	8	M20 × 89	165 6.50	195 7.68	305 12.00	280 11.00	241 9.50	29 1.13	4.5 10.0
DN200 8	219.1 8.625	12	M20 × 89	219 8.63	252 9.94	368 14.50	343 13.50	298 11.75	29 1.13	7.5 16.6

[2] Total assembly bolts required to be supplied by installer.

NOTES

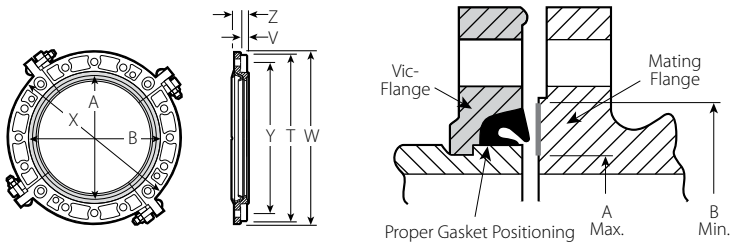
- The W, X, Y, and Z dimensions are intended to be used for layout and clearance purposes only.
- IMPORTANT: Style 741 *Vic-Flange* adapters provide rigid joints when used on pipe with standard cut or roll groove dimensions and consequently allow no linear or angular movement at the joint. When used 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. Reference the I-100: *Victaulic* Field Installation Handbook for details. Contact Victaulic for information on ISO 2084 (PN10); DIN 2532 (PN10) and JIS B-2210 (10K) flanges.

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4.4 DIMENSIONS

Style 741 *Vic-Flange* Adapter

14 – 24"/DN350 – DN600[7]
ANSI Class 125 and 150 Flanges



Exaggerated for clarity

Size		Bolt/Nut				Sealing Surface		Dimensions						Weight
	Actual Outside Diameter	Assembly[2]		Draw[8]		"A"	"B"	T	V	W	X	Y	Z	Approximate (Each)
Nominal		Qty.	Size	Qty.	Size	Max.	Min.							
inches DN	inches mm		inches		inches	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	lb kg
14 DN350	14.000 355.6	12	1 × 4 ½	4	⅝ × 3 ½	14.00 356	16.39 416	19.38 492	1.00 25	24.50 622	21.00 533	18.75 476	2.50 64	62.0 28.1
16 DN400	16.000 406.4	16	1 × 4 ½	4	⅝ × 3 ½	16.00 406	18.39 467	21.50 546	1.00 25	27.13 689	23.50 597	21.25 540	2.50 64	79.0 35.8
18 DN450	18.000 457.0	16	1 ⅛ × 4 ¾	4	¾ × 4 ¼	18.00 457	20.00 508	22.25 565	1.00 25	29.00 737	25.50 648	22.75 578	2.75 70	82.3 37.3
20 DN500	20.000 508.0	20	1 ⅛ × 5 ¼	4	¾ × 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 DN600	24.000 610.0	20	1 ¼ × 5 ¾	4	¾ × 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

2 Total assembly bolts required to be supplied by installer.

7 Style 741 *Vic-Flange* Adapter is for use on 14"-24" piping systems that employ the *Victaulic* OGS groove style only. If the piping system is using *Victaulic* AGS groove style, refer to submittal 20.04 for the AGS *Vic-Flange* Adapter Style W741.

8 Supplied with *Vic-Flange* Adapter.

NOTES

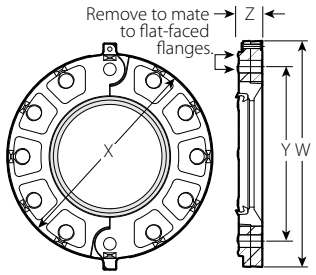
- The T, V, W, X, Y, and Z dimensions are intended to be used for layout and clearance purposes only.
- IMPORTANT: Style 741 *Vic-Flange* adapters provide rigid joints when used on pipe with standard cut or roll groove dimensions and consequently allow no linear or angular movement at the joint. When 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. Reference the I-100: *Victaulic* Field Installation Handbook for details. Contact Victaulic for information on ISO 2084 (PN10); DIN 2532 (PN10) and JIS B-2210 (10K) flanges.

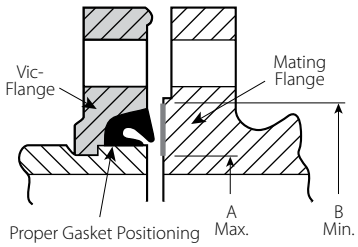
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4.5 DIMENSIONS

Style 743 *Vic-Flange* Adapter

ANSI Class 250 and 300 Flanges





Exaggerated for clarity

Size		Assembly Bolt/Nut[2]		Sealing Surface		Dimensions				Weight
Nominal inches DN	**Actual Outside Diameter** inches mm	**Qty.**	**Size** inches	**"A" Max.** inches mm	**"B" Min.** inches mm	**W** inches mm	**X** inches mm	**Y** inches mm	**Z** inches mm	**Approximate (Each)** lb kg
2 DN50	2.375 60.3	8	⅝ × 3	2.38 60	3.41 87	7.75 197	6.50 165	5.00 127	1.00 25	4.8 2.2
2½	2.875 73.0	8	¾ × 3 ¼	2.88 73	3.91 99	8.63 219	7.50 191	5.88 149	1.13 29	7.4 3.4
3 DN80	3.500 88.9	8	¾ × 3 ½	3.50 89	4.53 115	9.50 241	8.25 210	6.63 168	1.25 32	9.1 4.1
4 DN100	4.500 114.3	8	¾ × 3 ¾	4.50 114	5.53 141	11.38 289	10.00 254	7.88 200	1.38 35	15.3 6.9
5	5.563 141.3	8	¾ × 4	5.56 141	6.72 171	12.38 314	11.00 279	9.25 235	1.50 38	17.7 8.0
6 DN150	6.625 168.3	12	¾ × 4 ½	6.63 168	7.78 198	13.88 352	12.50 318	10.63 270	1.50 38	23.4 10.6
8 DN200	8.625 219.1	12	⅞ × 4 ¾	8.63 219	9.94 252	16.75 425	15.00 381	13.00 330	1.75 44	34.3 15.6
10 DN250	10.750 273.0	16	1 × 5 ¼	10.75 273	12.31 313	19.25 489	17.50 445	15.25 387	2.00 51	48.3 21.9
12 DN300	12.750 323.9	16	1 ⅛ × 5 ¾	12.75 324	14.31 363	22.25 565	20.50 521	17.75 451	2.13 54	70.5 32.0

[2] Total assembly bolts required to be supplied by installer.

NOTE

- The W, X, Y, and Z dimensions are intended to be used for layout and clearance purposes only.

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5.0 PERFORMANCE

Style 741 *Vic-Flange* Adapter

2 – 12"/DN50 – DN300
ANSI Class 125 and 150 Flanges

Size		Maximum Working Pressure[9]	Maximum End Load[9]
Nominal inches DN	**Actual Outside Diameter** inches mm	psi kPa	lb N
2 DN50	2.375 60.3	300 2068	1330 5920
2 ½	2.875 73.0	300 2068	1950 8680
3 DN80	3.500 88.9	300 2068	2885 12840
4 DN100	4.500 114.3	300 2068	4770 21225
5	5.563 141.3	300 2068	7290 32440
6 DN150	6.625 168.3	300 2068	10350 46060
8 DN200	8.625 219.1	300 2068	17500 77875
10 DN250	10.750 273.0	300 2068	27215 121110
12 DN300	12.750 323.9	300 2068	38285 170270

[9] 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 ½ times the figures shown.

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5.1 PERFORMANCE

Style 741 *Vic-Flange* Adapter

DN50 – DN300/2 – 12"
PN10 and PN16 Flanges

Size		PN10 Flanges		PN16 Flanges	
Nominal DN inches	**Actual Outside Diameter** mm inches	**Maximum Working Pressure**[9] bar psi	**Maximum End Load**[9] N lb	**Maximum Working Pressure**[9] bar psi	**Maximum End Load**[9] N lb
DN50 2	60.3 2.375	10 145	2850 640	16 230	4561 1025
DN65	76.1 3.000	10 145	4540 1020	16 230	7275 1635
DN80 3	88.9 3.500	10 145	6210 1395	16 230	9925 2230
DN100 4	114.3 4.500	10 145	10260 2305	16 230	16420 3690
DN125	139.7 5.500	10 145	15330 3446	16 230	24520 5512
	159.0 6.250	10 145	19800 4450	16 230	31400 7056
DN150 6	168.3 6.625	10 145	22250 5000	16 230	35600 8000
DN200 8	219.1 8.625	10 145	37690 8470	16 230	60320 13555
DN250 10	273.0 10.750	10 145	58560 13160	16 230	93695 21055
DN300 12	323.9 12.750	10 145	82370 18510	16 230	131810 29620

[9] 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 ½ times the figures shown.

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5.2 PERFORMANCE

Style 741 *Vic-Flange* Adapter

DN50 – DN200/2 – 8"
Australian Standard Table “E” Flanges

Size		Maximum Working Pressure[9]	Maximum End Load[9]
Nominal DN inches	Actual Outside Diameter mm inches	kPa psi	N lb
DN80 3	88.9 3.500	1400 203	8700 1955
DN100 4	114.3 4.500	1400 203	14374 3220
	165.1 6.500	1400 203	29920 6726
DN150 6	168.3 6.625	1400 203	31150 7000
DN200 8	219.1 8.625	1400 203	52777 11860

[9] 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 ½ times the figures shown.

5.3 PERFORMANCE

Style 741 *Vic-Flange* Adapter

DN50 – DN200/2 – 8"
Chinese Standard

Size		Maximum Working Pressure[9]	Maximum End Load[9]
Nominal DN inches	Actual Outside Diameter mm inches	kPa psi	N lb
DN50 2	60.3 2.375	1400 203	3996 900
DN65	76.1 3.000	1400 203	6365 1431
DN80 3	88.9 3.500	1400 203	8700 1955
	108.0 4.250	1400 203	12819 2882
DN100 4	114.3 4.500	1400 203	14374 4370
	133.0 5.250	1400 203	19440 4822
DN125	139.7 5.500	1400 203	21448 4822
	159.0 6.250	1400 203	27784 6246
	165.1 6.500	1400 203	29920 6726
DN200 8	219.1 8.625	1400 203	52777 11860

[9] 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 ½ times the figures shown.

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5.4 PERFORMANCE

Style 741 *Vic-Flange* Adapter

14 – 24"/DN350 – DN600
ANSI Class 125 and 150 Flanges

Size		Maximum Working Pressure[9]	Maximum End Load[9]
Nominal inches DN	Actual Outside Diameter inches mm	psi kPa	lb N
14 DN350	14.000 355.6	300 2068	46180 205500
16 DN400	16.000 406.4	300 2068	60300 268335
18 DN450	18.000 457.0	300 2068	76340 339700
20 DN500	20.000 508.0	300 2068	94250 419400
24 DN600	24.000 610.0	300 2068	135700 603865

[9] 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 1½ times the figures shown.

5.5 PERFORMANCE

Style 743 *Vic-Flange* Adapter

ANSI Class 250 and 300 Flanges

Size		Maximum Working Pressure[9]	Maximum End Load[9]
Nominal inches DN	Actual Outside Diameter inches mm	psi kPa	lb N
2 DN50	2.375 60.3	720 4964	3190 14200
2½	2.875 73.0	720 4964	4670 20780
3 DN80	3.500 88.9	720 4964	6925 30815
4 DN100	4.500 114.3	720 4964	11445 50930
5	5.563 141.3	720 4964	17500 77875
6 DN150	6.625 168.3	720 4964	24805 110380
8 DN200	8.625 219.1	720 4964	42045 187100
10 DN250	10.750 273.0	720 4964	65315 290650
12 DN300	12.750 323.9	720 4964	91880 408870

[9] 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 1½ times the figures shown.

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6.0 NOTIFICATIONS

- The Style 741 (2 – 12"/DN50 – DN300) design incorporates small teeth inside the key shoulder I.D. to prevent rotation. These teeth should be removed when the *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"/DN50 – DN100 fitted with standard or latch-lock handles.
- *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.
- *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.
- Area A-B noted in the drawings in Sections 4.0 through 4.5 must be free from gouges, undulations or deformities of any type for effective sealing.
- *Vic-Flange* adapter gaskets must always be assembled with the color coded lip on the pipe and the other lip facing the mating flange.
- *Vic-Flange* hinge points must be oriented approximately 90° to each other when mated.
- 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"/DN350 – DN600.
  - E. When mating to components (valves, strainers, etc.) where the component flange face has an insert: follow the same arrangement as in Application 1.
  - F. Additional information regarding the use of a Flange Washer can be found in the I-100: *Victaulic* Field Installation Handbook.
- When ordering Flange Washers, always specify product style (Style 741 or Style 743) and size to assure proper Flange Washer is supplied.

NOTE

- Style 741 is compatible with ANSI CL 125 or CL150, PN10/16 and Australian Standard Table E bolt hole patterns.

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6.0 NOTIFICATIONS (Continued)

⚠ WARNING



- **Read and understand all instructions before attempting to install any *Victaulic* products.**
- **Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any *Victaulic* products.**
- **Confirm that any equipment, branch lines, or sections of piping that may have been isolated for/during testing or due to valve closures/positioning are identified, depressurized, and drained immediately prior to installation, removal, adjustment, or maintenance of any *Victaulic* products.**
- **Wear safety glasses, hardhat, foot protection, and hearing protection.**
- ***Victaulic* RX roll sets shall be used when grooving light-wall/thin-wall stainless steel pipe for use with *Victaulic Vic-Flange* Adapters and Couplings. Always reference *Victaulic* Publication 17.01 for stainless steel pipe end preparation and grooving roll set requirements. Grooving roll sets for stainless steel pipe must be ordered separately.**

Failure to follow these instructions could result in death or serious personal injury and property damage.

NOTICE

- ***Victaulic* RX grooving rolls must be ordered separately. They are identified by a silver color and the designation RX on the front of the roll sets.**

7.0 REFERENCE MATERIALS

02.06: Victaulic® Potable Water Approvals
05.01: *Victaulic* Seal Selection Guide
10.01: *Victaulic* Regulatory Approval Reference Guide
17.01: *Victaulic* Pipe Preparation for Use on Stainless Steel Pipe With *Victaulic* Products
17.09: *Victaulic* Pressure Ratings and End Loads for *Victaulic* Ductile Iron Grooved Couplings on Stainless Steel Pipe
29.01: *Victaulic* Terms and Conditions of Sale/Warranty
1-100: *Victaulic* Field Installation Handbook

User Responsibility for Product Selection and Suitability
Each user bears final responsibility for determining the suitability of Victaulic products for their end-use application, in accordance with industry standards, project specifications, and Victaulic's published performance, maintenance, and safety data, as well as all warnings and installation instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, warranty, installation instructions, or this disclaimer.

Installation
Always refer to and follow the Victaulic Installation Handbook or installation instructions for the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at victaulic.com.

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

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Note
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