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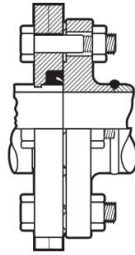
Buildings - Industry - Marine – Waterworks
 END OF AG. PANTELEIMONOS Str. (ELEONAS)
 GR-12241 EGALEO,
 Tel.: +30 210 3412 749-750 Fax: +30 210 3412 406
www.hydrofire.gr, email: info@hydrofire.gr



Victaulic® Vic-Flange Adapters Styles 741 and 743



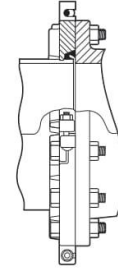
Style 741
 2 – 12"/DN50 – DN300



Exaggerated for clarity



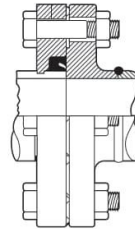
Style 741
 14 – 24"/DN350 – DN600



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

Maximum Working Pressure

- **Style 741:** Up to 300 psi/2068 kPa/20 Bar
- **Style 743:** Up to 720 psi/4964 kPa/49 Bar

Application

- Designed to transition from flanged to grooved piping systems

Pipe Material

- Carbon steel
- For use with stainless steel pipe, refer to Victaulic [publication 17.09](#) for pressure ratings and end loads.
- For use with PVC pipe, refer to Victaulic [publication 32.01](#) for pressure ratings.
- For use with aluminum pipe, refer to Victaulic [publication 21.04](#) for pressure ratings and end loads.

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

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	





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2.0 CERTIFICATION/LISTINGS



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. Ductile iron conforming to ASTM A395, Grade 65-45-15, is available upon special request.

Housing Coating: (specify choice)

- Standard: Black enamel.
- Optional: Hot dipped galvanized.
- Optional: Contact Victaulic with your requirements for other coatings.

Gasket: (specify choice¹)

- Victaulic 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.**
- Victaulic 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, this gasket may be specified 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):

- Carbon steel oval neck track bolts meeting the mechanical property requirements of ASTM A449 (imperial) and ISO 898-1 Class 9.8 (metric). Carbon steel hex flange nuts meeting the mechanical property requirements of ASTM A563 Grade B (imperial - heavy hex nuts) and ASTM A563M Class 9 (metric - hex nuts). Track bolts and hex flange nuts are zinc electroplated per ASTM B633 ZN/FE5, finish Type III (imperial) or Type II (metric).



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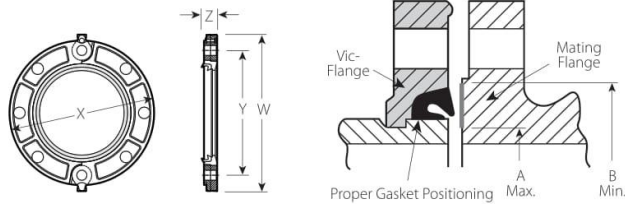


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4.0 DIMENSIONS

Style 741

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



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

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	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	2.875 73.0	4	5/8 x 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	5/8 x 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	5/8 x 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	3/4 x 3 1/2	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	3/4 x 3 1/2	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	3/4 x 3 1/2	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	7/8 x 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	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

² Total assembly bolts required to be supplied by installer.

NOTE

- 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. Contact Victaulic for information on ISO 2084 (PN10); DIN 2532 (PN10) and JIS B-2210 (10K) flanges.



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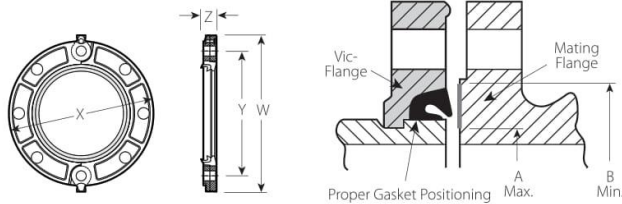


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4.1 DIMENSIONS

Style 741

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



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

Exaggerated for clarity

Size		PN10 Flanges		PN16 Flanges		Sealing Surface		Dimensions				Weight
Nominal DN inches	Actual Outside Diameter mm inches	Assembly Bolt/Nut ²		Assembly Bolt/Nut ²		"A" Max. mm inches	"B" Min. mm inches	W mm inches	X mm inches	Y mm inches	Z mm inches	Approximate (Each) kg lb
		Qty.	Size mm	Qty.	Size mm							
DN50 2	60.3 2.375	4	16	4	16	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	16	4	16	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	16	8	16	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	16	8	16	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	16	8	16	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	20	8	20	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 x 3 ½	8	¾ x 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	20	8	20	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	20	12	20	219 8.63	252 9.94	368 ³ 14.50	343 ³ 13.50	295 ³ 11.63	29 ³ 1.13	7.5 16.6
DN250 10	273.0 10.750	12	20	12	24	273 10.75	313 12.31	438 ⁴ 17.25	397 ⁴ 15.63	352 ⁴ 13.88	29 ⁴ 1.13	11.0 24.2
DN300 12	323.9 12.750	12	20	12	24	324 12.75	365 14.31	479 ⁵ 18.88	460 ⁵ 18.13	400 ⁵ 15.75	32 ⁵ 1.25	17.4 38.4

- ² Total assembly bolts required to be supplied by installer.
- ³ PN16 dimensions (mm/inches): W = 360/14.17; X = 340/13.38; Y = 295/11.63; Z = 32/1.25.
- ⁴ PN16 dimensions (mm/inches): W = 438/17.24; X = 406/16.00; Y = 356/14.00; Z = 32/1.25.
- ⁵ PN16 dimensions (mm/inches): W = 478/18.82; X = 445/17.50; Y = 410/16.13; Z = 32/1.25.

NOTES

- Longer bolts required when flange utilized with wafer-type valves.
- 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. Contact Victaulic for information on ISO 2084 (PN10); DIN 2532 (PN10) and JIS B-2210 (10K) flanges.



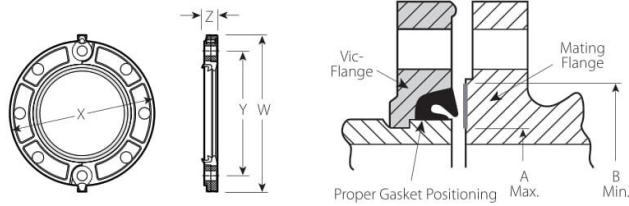
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4.2 DIMENSIONS

Style 741

DN50 – DN200/2 – 8"

Australian Standard Table "E" Flanges



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

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
DN50 ⁶ 2	60.3 2.375	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
DN80 3	88.9 3.500	4	5/8 x 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	5/8 x 3	114 4.50	131 5.16	251 9.88	229 9.00	178 7.00	25 1.00	3.3 7.2
DN150 6	168.3 6.625	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
DN200 8	219.1 8.625	8	3/4 x 3 1/2	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.

⁶ Contact Victaulic for details.



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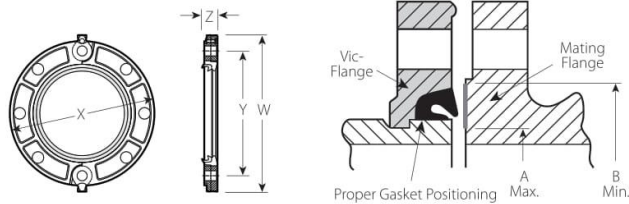
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4.2 DIMENSIONS

Style 741

DN50 – DN200/2 – 8"

Chinese Standard Table "E" Flanges



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

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 X 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 X 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 X 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 X 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 X 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 X 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 X 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 X 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 X 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 X 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

- IMPORTANT NOTE: 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.



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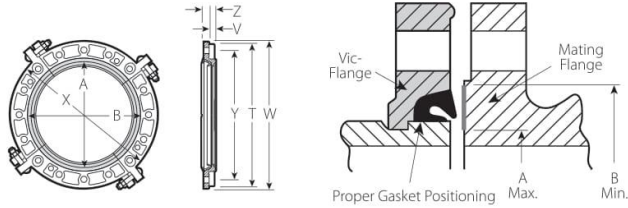


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4.3 DIMENSIONS

Style 741

14 – 24"/DN350 – DN600⁷
 ANSI Class 125 and 150 Flanges



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

Exaggerated for clarity

Size		Bolt/Nut				Sealing Surface		Dimensions						Weight
Nominal inches DN	Actual Outside Diameter inches mm	Assembly ²		Draw ⁸		"A" Max. inches mm	"B" Min. inches mm	T inches mm	V inches mm	W inches mm	X inches mm	Y inches mm	Z inches mm	Approximate (Each) lb kg
		Qty.	Size inches	Qty.	Size inches									
14 DN350	14.000 355.6	12	1 x 4 1/2	4	5/8 x 3 1/2	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 x 4 1/2	4	5/8 x 3 1/2	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 1/8 x 4 3/4	4	3/4 x 4 1/4	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 1/8 x 5 1/4	4	3/4 x 4 1/4	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 1/4 x 5 3/4	4	3/4 x 4 1/4	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 For cut groove systems only. For 14 – 24"/DN350 – DN600 roll groove systems, AGS (Advanced Groove System) products are used. Style 741 is not compatible with the AGS system.

⁸ Draw bolts supplied with 14 – 24"/DN350 – DN600 Vic-Flange adapters.



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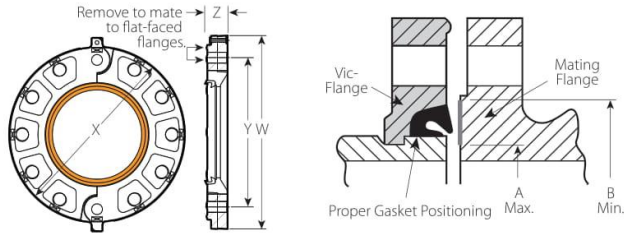


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4.4 DIMENSIONS

Style 743

Grooved pipe adapter to ANSI Class 300 flanges



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

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 inches 60.3 mm	8	5/8 x 3	2.38 inches 60 mm	3.41 inches 87 mm	7.75 inches 197 mm	6.50 inches 165 mm	5.00 inches 127 mm	1.00 inches 25 mm	4.8 lb 2.2 kg
2½	2.875 inches 73.0 mm	8	¾ x 3¼	2.88 inches 73 mm	3.91 inches 99 mm	8.63 inches 219 mm	7.50 inches 191 mm	5.88 inches 149 mm	1.13 inches 29 mm	7.4 lb 3.4 kg
3 DN80	3.500 inches 88.9 mm	8	¾ x 3½	3.50 inches 89 mm	4.53 inches 115 mm	9.50 inches 241 mm	8.25 inches 210 mm	6.63 inches 168 mm	1.25 inches 32 mm	9.1 lb 4.1 kg
4 DN100	4.500 inches 114.3 mm	8	¾ x 3¾	4.50 inches 114 mm	5.53 inches 141 mm	11.38 inches 289 mm	10.00 inches 254 mm	7.88 inches 200 mm	1.38 inches 35 mm	15.3 lb 6.9 kg
5	5.563 inches 141.3 mm	8	¾ x 4	5.56 inches 141 mm	6.72 inches 171 mm	12.38 inches 314 mm	11.00 inches 279 mm	9.25 inches 235 mm	1.50 inches 38 mm	17.7 lb 8.0 kg
6 DN150	6.625 inches 168.3 mm	12	¾ x 4½	6.63 inches 168 mm	7.78 inches 198 mm	13.88 inches 352 mm	12.50 inches 318 mm	10.63 inches 270 mm	1.50 inches 38 mm	23.4 lb 10.6 kg
8 DN200	8.625 inches 219.1 mm	12	7/8 x 4¾	8.63 inches 219 mm	9.94 inches 252 mm	16.75 inches 425 mm	15.00 inches 381 mm	13.00 inches 330 mm	1.75 inches 44 mm	34.3 lb 15.6 kg
10 DN250	10.750 inches 273.0 mm	16	1 x 5¼	10.75 inches 273 mm	12.31 inches 313 mm	19.25 inches 489 mm	17.50 inches 445 mm	15.25 inches 387 mm	2.00 inches 51 mm	48.3 lb 21.9 kg
12 DN300	12.750 inches 323.9 mm	16	1 1/8 x 5¾	12.75 inches 324 mm	14.31 inches 363 mm	22.25 inches 565 mm	20.50 inches 521 mm	17.75 inches 451 mm	2.13 inches 54 mm	70.5 lb 32.0 kg

² Total assembly bolts required to be supplied by installer.



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5.0 PERFORMANCE

Style 741

2 – 12"/DN50 – DN300

ANSI Class 125 and 150 Flanges

Size		Performance		
Nominal	Actual Outside Diameter	Maximum Working Pressure ⁹	Maximum End Load ⁹	
inches DN	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.

NOTE

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

Style 741

DN50 – DN300/2 – 12"

PN10 and PN16 Flanges

Size		PN10 Flanges		PN16 Flanges	
Nominal	Actual Outside Diameter	Maximum Working Pressure ⁹	Maximum End Load ⁹	Maximum Working Pressure ⁹	Maximum End Load ⁹
DN inches	mm inches	Bar psi	N lb	Bar psi	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.

NOTE

- 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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5.0 PERFORMANCE (Continued)

Style 741

DN50 – DN200/2 – 8"

Australian Standard Table "E" Flanges

Size		Performance		
Nominal DN inches	Actual Outside Diameter mm inches	Maximum Working Pressure ⁹		Maximum End Load ⁹
		kPa psi	N lb	
DN50 ¹⁰ 2	60.3	1400	3996	
	2.375	203	900	
DN80 3	88.9	1400	8700	
	3.500	203	1955	
DN100 4	114.3	1400	14374	
	4.500	203	3220	
DN150 6	168.3	1400	31150	
	6.625	203	7000	
DN200 8	219.1	1400	52777	
	8.625	203	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.

¹⁰ Contact Victaulic for details.

NOTE

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

Style 741

DN50 – DN200/2 – 8"

Chinese Standard Table "E" Flanges

Size		Performance		
Nominal DN inches	Actual Outside Diameter mm inches	Maximum Working Pressure ⁹		Maximum End Load ⁹
		kPa psi	N lb	
DN50	60.3	1400	3996	
	2.375	203	900	
DN65	76.1	1400	6365	
	3.000	203	1431	
DN80	88.9	1400	8700	
	3.500	203	1955	
DN100	108.0	1400	12819	
	4.250	203	2882	
DN100	114.3	1400	14374	
	4.500	203	4370	
DN125	133.0	1400	19440	
	5.250	203	4822	
DN125	139.7	1400	21448	
	5.500	203	4822	
DN150	159.0	1400	27784	
	6.250	203	6246	
DN200	165.1	1400	29920	
	6.500	203	6726	
DN200	219.1	1400	52777	
	8.625	203	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.



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5.0 PERFORMANCE (Continued)

Style 741

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

Size		Performance		
Nominal inches DN	Actual Outside Diameter inches mm	Maximum Working Pressure ⁹ psi kPa	Maximum End Load ⁹ 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.

NOTE

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

Style 743

Grooved pipe adapter to ANSI Class 300 flanges

Size		Performance		
Nominal inches DN	Actual Outside Diameter inches mm	Maximum Working Pressure ⁹ psi kPa	Maximum End Load ⁹ 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.

NOTE

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



HYDROFIRE ΕΠΕ

Buildings - Industry - Marine – Waterworks

END OF AG. PANTELEIMONOS Str. (ELEONAS)

GR-12241 EGALEO,

Tel.: +30 210 3412 749-750 Fax: +30 210 3412 406

www.hydrofire.gr, email: info@hydrofire.gr



victaulic.com

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 *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 above drawing 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.
- When ordering Flange Washers, always specify product style (Style 741, 743, 341, 641, 994) 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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Buildings - Industry - Marine – Waterworks
END OF AG. PANTELEIMONOS Str. (ELEONAS)
GR-12241 EGALEO,
Tel.: +30 210 3412 749-750 Fax: +30 210 3412 406
www.hydrofire.gr, email: info@hydrofire.gr



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6.0 NOTIFICATIONS (Continued)

WARNING

- Victaulic RX roll sets must be used when grooving light-wall/thin-wall stainless steel pipe for use with Victaulic Couplings.

Failure to use Victaulic RX roll sets when grooving light-wall/thin-wall stainless steel pipe may cause joint failure, resulting in serious personal injury and/or 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/Warranty](#)

[1-100: Victaulic Field Installation Handbook](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, as well as Victaulic performance, maintenance, safety, and warning 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, installation guide, or this disclaimer.

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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 Victaulic installation handbook or installation instructions of 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 www.victaulic.com.

Warranty

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

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END OF AG. PANTELEIMONOS Str. (ELEONAS)
GR-12241 EGALEO,
Tel.: +30 210 3412 749-750 Fax: +30 210 3412 406
www.hydrofire.gr, email: info@hydrofire.gr

