

# Victaulic Grooved Couplings

## Performance Data for Stainless Steel Pipe



17.09

### 1.0 PERFORMANCE

#### Performance on ANSI Wall Thicknesses



Style 89  
Rigid Coupling



Style 07  
Zero-Flex™ Rigid Coupling



Style 107N  
QuickVic™ Rigid Coupling

Size		Pipe Wall Thickness		Groove Type	Style 89		Style 07		Style 107N	
Nominal inches DN	Actual Outside Diameter inches mm	inches mm	ANSI Schedule Number		Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N
1 DN25	1.315 33.7	0.179 4.6	80S	C	—	—	750 5171	1019 4531	—	—
		0.133 3.4	40S	Std/C	—	—	750 5171	1019 4531	—	—
		0.109 2.8	10S	RX	—	—	500 3447	680 3023	—	—
		0.065 1.7	5S	RX	—	—	400 2758	543 2416	—	—
1 ¼ DN32	1.660 42.4	0.191 4.9	80S	C	—	—	750 5171	1623 7220	—	—
		0.140 3.6	40S	Std/C	—	—	750 5171	1623 7220	—	—
		0.109 2.8	10S	RX	—	—	500 3447	1082 4813	—	—
		0.065 1.7	5S	RX	—	—	400 2758	866 3851	—	—

— = Sizes not available

NR = Not rated. Contact Victaulic for more information.

RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

Std= Standard roll set marked with the prefix "R"

C= Cut groove

#### NOTES

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ANSI Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from Schedule 5S to Schedule 80S.

**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	



## 1.0 PERFORMANCE (CONTINUED)

### Performance on ANSI Wall Thicknesses



Style 89  
Rigid Coupling



Style 07  
Zero-Flex™ Rigid Coupling



Style 107N  
QuickVic™ Rigid Coupling

Size		Pipe Wall Thickness		Groove Type	Style 89		Style 07		Style 107N	
Nominal inches DN	Actual Outside Diameter inches mm	inches mm	ANSI Schedule Number		Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N
1 1/2 DN40	1.900 48.3	0.200 5.1	80S	C	—	—	750 5171	2126 9459	—	—
		0.145 3.7	40S	Std/C	—	—	750 5171	2126 9459	—	—
		0.109 2.8	10S	RX	—	—	500 3447	1418 6306	—	—
		0.065 1.7	5S	RX	—	—	400 2758	1134 5045	—	—
2 DN50	2.375 60.3	0.218 5.5	80S	C	750 5171	3323 14780	750 5171	3323 14780	600 4137	2658 11823
		0.154 3.9	40S	Std/C	750 5171	3323 14780	750 5171	3323 14780	600 4137	2658 11823
		0.109 2.8	10S	RX	500 3447	2215 9853	500 3447	2215 9853	300 2068	1329 5912
		0.065 1.7	5S	RX	325 2241	1440	325 2241	1440 6405	200 1379	886 3941
2 1/2	2.875 73.0	0.276 7.0	80S	C	750 5171	4869 21658	750 5171	4869 21658	600 4137	3895 17325
		0.203 5.2	40S	Std/C	750 5171	4869 21658	750 5171	4869 21658	600 4137	3895 17325
		0.120 3.1	10S	RX	500 3447	3246 14438	500 3447	3246 14438	300 2068	1948 8663
		0.083 2.1	5S	RX	325 2241	2110 9386	325 2241	2110 9386	200 1379	1298 5775
3 DN80	3.500 88.9	0.300 7.6	80S	C	750 5171	7216 32098	750 5171	7216 32089	600 4137	5773 25677
		0.216 5.5	40S	Std/C	750 5171	7216 32098	750 5171	7216 32089	600 4137	5773 25677
		0.120 3.1	10S	RX	500 3447	4814 21415	500 3447	4811 21398	300 2068	2886 12838
		0.083 2.1	5S	RX	325 2241	3127 13910	325 2241	3127 13910	200 1379	1924 8559

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C= Cut groove

#### NOTES

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ANSI Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from Schedule 5S to Schedule 80S.

## 1.0 PERFORMANCE (CONTINUED)

### Performance on ANSI Wall Thicknesses



Style 89  
Rigid Coupling



Style 07  
Zero-Flex™ Rigid Coupling



Style 107N  
QuickVic™ Rigid Coupling

Size		Pipe Wall Thickness		Groove Type	Style 89		Style 07		Style 107N	
Nominal inches DN	Actual Outside Diameter inches mm	inches mm	ANSI Schedule Number		Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N
4 DN100	4.500 114.3	0.337 8.6	80S	C	750 5171	11928 53059	750 5171	11928 53059	600 4137	9543 42445
		0.237 6.0	40S	Std/C	750 5171	11928 53059	750 5171	11928 53059	600 4137	9543 42445
		0.120 3.1	10S	RX	400 2758	6362 28298	400 2758	6362 28298	300 2068	4771 21223
		0.083 2.1	5S	RX	250 1725	3979 17100	250 1725	3979 17700	200 1379	3181 14148
5	5.563 141.3	0.375 9.5	80S	C	750 5171	18229 81087	750 5171	18229 81087	600 4137	14583 64867
		0.258 6.6	40S	Std/C	750 5171	18229 81087	500 3447	12162 54099	600 4137	14583 64867
		0.134 3.4	10S	RX	300 2065	7280 32381	300 2065	7280 32381	300 2068	7292 32432
		0.109 2.8	5S	RX	275 1896	6684 29732	200 1379	4861 21623	200 1379	4861 21622
6 DN150	6.625 168.3	0.432 11.0	80S	C	750 5171	25854 115003	700 4825	24123 107306	600 4137	20683 91998
		0.280 7.1	40S	Std/C	750 5171	25854 115003	450 3100	15499 68943	600 4137	20683 91998
		0.134 3.4	10S	RX	300 2065	10324 45925	200 1379	6894 30667	300 2068	10321 46000
		0.110 2.8	5S	RX	250 1724	8618 38334	125 862	4310 19171	200 1379	6894 30666
8 DN200	8.625 219.1	0.322 8.2	40S	C	600 4136	35049 155903	600 4136	35065 155935	400 2758	23371 103952
		0.322 8.2	40S	Std	600 4136	35049 155903	400 2758	23371 103957	400 2758	23371 103952
		0.150 3.8	10S	RX	300 2065	17499 77838	125 862	7305 32492	150 1034	8764 38982
		0.110 2.8	5S	RX	200 1379	11686 51980	75 517	4381 19488	125 862	7303 32485

— = Sizes not available

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RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

Std= Standard roll set marked with the prefix "R"

C= Cut groove

#### NOTES

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ANSI Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from Schedule 5S to Schedule 80S.

## 1.0 PERFORMANCE (CONTINUED)

### Performance on ANSI Wall Thicknesses



Style 89  
Rigid Coupling



Style 07  
Zero-Flex™ Rigid Coupling



Style 107N  
QuickVic™ Rigid Coupling

Size		Pipe Wall Thickness		Groove Type	Style 89		Style 07		Style 107N	
Nominal inches DN	Actual Outside Diameter inches mm	inches mm	ANSI Schedule Number		Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N
10 DN250	10.750 273.0	0.365 9.3	40S	C	600 4136	54446 242188	500 3447	45416 202019	300 2068	27229 121114
		0.365 9.3	40S	Std	600 4136	54446 242188	325 2241	29501 131224	300 2068	27229 121114
		0.165 4.2	10S	RX	300 2065	27184 120918	75 517	6806 30274	100 689	9076 40371
		0.134 3.4	5S	RX	250 1724	22691 100933	50 345	4542 20202	75 517	6807 30278
12 DN300	12.750 323.9	0.375 9.5	40S	C	600 4136	76590 340687	400 2758	51071 227172	300 2068	38303 170371
		0.375 9.5	40S	Std	600 4136	76590 340687	250 1724	31943 142090	300 2068	38303 170371
		0.180 4.6	10S	RX	300 2065	38239 170097	125 862	15962 71004	100 689	12768 56790
		0.156 4.0	5S	RX	200 1379	25536 113590	75 517	9574 42586	75 517	9576 42593

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#### NOTES

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## 1.0 PERFORMANCE (CONTINUED)

### Performance on ANSI Wall Thicknesses



Style 77  
Flexible Coupling



Style 75  
Flexible Coupling



Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness		Groove Type	Style 77		Style 75		Style 177N	
Nominal inches DN	Actual Outside Diameter inches mm	inches mm	ANSI Schedule Number		Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N
¾ DN20	1.050 26.7	0.154 3.9	80S	C	750 5171	649 2889	—	—	—	—
		0.113 2.9	40S	Std/C	750 5171	649 2889	—	—	—	—
		0.083 2.1	10S	RX	500 3447	433 1927	—	—	—	—
		0.065 1.6	5S	RX	500 3447	433 1927	—	—	—	—
1 DN25	1.315 33.4	0.179 4.9	80S	C	750 5171	1019 4531	—	—	—	—
		0.133 3.6	40S	Std/C	750 5171	1019 4531	—	—	—	—
		0.109 2.8	10S	RX	500 3447	680 3023	—	—	—	—
		0.065 1.7	5S	RX	400 2758	543 2416	—	—	—	—
1 ¼ DN32	1.660 42.2	0.191 4.9	80S	C	750 5171	1623 7220	—	—	—	—
		0.140 3.6	40S	Std/C	750 5171	1623 7220	—	—	—	—
		0.109 2.8	10S	RX	500 3447	1083 4817	—	—	—	—
		0.065 1.7	5S	RX	400 2758	866 3851	—	—	—	—
1 ½ DN40	1.900 48.3	0.200 5.1	80S	C	750 5171	2126 9459	500 3447	1419 6311	—	—
		0.145 3.7	40S	Std/C	750 5171	2126 9459	500 3447	1419 6311	—	—
		0.109 2.8	10S	RX	500 3447	1419 6311	500 3447	1419 6311	—	—
		0.065 1.7	5S	RX	400 2758	1134 5045	400 2758	1134 5045	—	—

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Std= Standard roll set marked with the prefix "R"

C= Cut groove

#### NOTES

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## 1.0 PERFORMANCE (CONTINUED)

### Performance on ANSI Wall Thicknesses



Style 77  
Flexible Coupling



Style 75  
Flexible Coupling



Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness		Groove Type	Style 77		Style 75		Style 177N	
Nominal inches DN	Actual Outside Diameter inches mm	inches mm	ANSI Schedule Number		Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N
2 DN50	2.375 60.3	0.218 5.5	80S	C	750 5171	3323 14780	500 3447	2217 9861	750 5171	3323 14779
		0.154 3.9	40S	Std/C	750 5171	3323 14780	500 3447	2217 9861	750 5171	3323 14779
		0.109 2.8	10S	RX	500 3447	2217 9861	400 2758	1772 7882	500 3447	2215 9853
		0.065 1.7	5S	RX	325 2241	1440 6405	250 1724	1108 4930	325 2241	1440 6404
2½	2.875 73.0	0.276 7.0	80S	C	750 5171	4869 21658	500 3447	3248 14449	700 4826	4544 20213
		0.203 5.2	40S	Std/C	750 5171	4869 21658	500 3447	3248 14449	700 4826	4544 20213
		0.120 3.1	10S	RX	500 3447	3248 14449	400 2758	2597 11551	400 2758	2597 11550
		0.083 2.1	5S	RX	325 2241	2110 9386	250 1724	1624 7225	300 2068	1948 8663
3 DN80	3.500 88.9	0.300 7.6	80S	C	750 5171	7216 32098	500 3447	4814 21415	700 4826	6735 29956
		0.216 5.5	40S	Std/C	750 5171	7216 32098	500 3447	4814 21415	700 4826	6735 29956
		0.120 3.1	10S	RX	500 3447	4814 21415	400 2758	3848 17119	400 2758	3848 17118
		0.083 2.1	5S	RX	325 2241	3127 13910	250 1724	2407 10707	300 2068	2886 12838
3½ DN90	4.000 101.6	0.318 8.1	80S	C	750 5171	9425 41923	500 3447	6288 27970	—	—
		0.226 5.7	40S	Std/C	750 5171	9425 41923	500 3447	6288 27970	—	—
		0.120 3.1	10S	RX	450 3100	5650 25133	350 2410	4392 19539	—	—
		0.083 2.1	5S	RX	300 2065	3764 16742	225 1551	2827 12574	—	—

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RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

Std= Standard roll set marked with the prefix "R"

C= Cut groove

#### NOTES

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ANSI Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from Schedule 5S to Schedule 80S.

## 1.0 PERFORMANCE (CONTINUED)

### Performance on ANSI Wall Thicknesses



Style 77  
Flexible Coupling



Style 75  
Flexible Coupling



Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness		Groove Type	Style 77		Style 75		Style 177N	
Nominal inches DN	Actual Outside Diameter inches mm	inches mm	ANSI Schedule Number		Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N
4 DN100	4.500 114.3	0.337 8.6	80S	C	750 5171	11928 53059	500 3447	7958 35400	600 4137	9543 42445
		0.237 6.0	40S	Std/C	750 5171	11928 53059	500 3447	7958 35400	600 4137	9543 42445
		0.120 3.1	10S	RX	450 3100	6362 28298	300 2065	4763 21189	300 2068	4771 21223
		0.083 2.1	5S	RX	250 1724	3979 17700	200 1379	3181 14149	250 1724	3976 17686
5	5.563 141.3	0.375 9.5	80S	C	750 5171	18229 81087	450 3100	10928 48611	N/R	
		0.258 6.6	40S	Std/C	500 3447	12162 54099	300 2065	7280 32381		
		0.134 3.4	10S	RX	300 2065	7280 32381	200 1379	4861 21623		
		0.110 2.8	5S	RX	200 1379	4861 21623	125 862	3039 13517		
6 DN150	6.625 168.3	0.280 7.1	40S	C	750 5171	25854 115003	450 3100	15499 68943	500 3447	17236 76665
		0.280 7.1	40S	Std	500 3447	17249 76727	300 2065	10324 45925	500 3447	17236 76665
		0.134 3.4	10S	RX	200 1379	6875 30579	125 862	4310 19171	150 1034	5171 22999
		0.110 2.8	5S	RX	125 862	4310 19171	75 517	2585 11498	100 689	3447 15333
8 DN200	8.625 219.1	0.323 8.2	40S	C	600 4137	35056 155935	450 3100	26269 116852	400 2758	23371 103952
		0.323 8.2	40S	Std	400 2758	23371 103957	300 2065	17499 77838	400 2758	23371 103952
		0.150 3.8	10S	RX	125 862	7305 32492	75 517	4381 19488	125 862	7303 32485
		0.110 2.8	5S	RX	75 517	4381 19488	50 345	2924 13004	75 517	4382 19491

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RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

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C= Cut groove

#### NOTES

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## 1.0 PERFORMANCE (CONTINUED)

### Performance on ANSI Wall Thicknesses



Style 77  
Flexible Coupling



Style 75  
Flexible Coupling



Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness		Groove Type	Style 77		Style 75		Style 177N	
Nominal inches DN	Actual Outside Diameter inches mm	inches mm	ANSI Schedule Number		Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N
10 DN250	10.750 273.0	0.366 9.3	40S	C	600 4137	54458 242238	—	—	—	—
		0.366 9.3	40S	Std	400 2758	36305 161492	—	—	—	—
		0.165 4.2	10S	RX	125 862	11347 50475	—	—	—	—
		0.134 3.4	5S	RX	75 517	6806 30274	—	—	—	—
12 DN300	12.750 323.9	0.375 9.5	40S	C	600 4137	76606 340758	—	—	—	—
		0.375 9.5	40S	Std	400 2758	51071 227172	—	—	—	—
		0.181 4.6	10S	RX	125 862	15962 71004	—	—	—	—
		0.156 4.0	5S	RX	75 517	9574 42586	—	—	—	—

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RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

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#### NOTES

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## 1.0 PERFORMANCE (CONTINUED)

### Performance on ANSI Wall Thicknesses



Style 78  
Snap-Joint™  
Coupling

Style 791  
Vic-Boltless Coupling<sup>1</sup>

Style 741  
Vic-Flange Adapter

Style 743  
Vic-Flange Adapter

Size		Pipe Wall Thickness		Groove Type	Style 78		Style 791		Style 741		Style 743	
Nominal inches DN	Actual Outside Diameter inches mm	inches mm	ANSI Schedule Number		Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N
2 DN50	2375 60.3	0.218 5.6	80S	C	300 2065	1330 5920	300 2065	1330 5920	275 1896	1218 5419	400 2750	1775 7900
		0.154 3.9	40S	Std/C	300 2065	1330 5920	300 2065	1330 5920	275 1896	1218 5419	400 2750	1775 7900
		0.109 2.8	10S	RX	300 2065	1330 5920	300 2065	1330 5920	275 1896	1218 5419	400 2750	1775 7900
		0.065 1.7	5S	RX	200 1375	885 3940	200 1375	885 3940	175 1207	775 3449	250 1725	250 1725
2½	2.875 73.0	0.276 7.0	80S	C	300 2065	1950 8680	300 2065	1950 8680	275 1896	1785 7941	400 2750	2600 11670
		0.203 5.2	40S	Std/C	300 2065	1950 8680	300 2065	1950 8680	275 1896	1785 7941	400 2750	2600 11670
		0.120 3.1	10S	RX	300 2065	1950 8680	300 2065	1950 8680	275 1896	1785 7941	400 2750	2600 11670
		0.083 2.1	5S	RX	200 1375	1300 5785	200 1375	1300 5785	175 1207	1136 5053	250 1725	1620 7210
3 DN80	3.500 88.9	0.300 7.6	80S	C	300 2065	2885 12840	300 2065	2885 12840	275 1896	2646 11769	400 2750	3850 17135
		0.216 5.5	40S	Std/C	300 2065	2885 12840	300 2065	2885 12840	275 1896	2646 11769	400 2750	3850 17135
		0.120 3.1	10S	RX	300 2065	2885 12840	300 2065	2885 12840	275 1896	2646 11769	400 2750	3850 17135
		0.083 2.1	5S	RX	200 1375	1925 8565	200 1375	1925 8565	175 1207	1684 7489	250 1725	2400 10680
4 DN100	4.500 114.3	0.337 8.6	80S	C	300 2065	4770 21225	300 2065	4770 21225	275 1896	4374 19454	300 2065	4770 21225
		0.237 6.0	40S	Std/C	300 2065	4770 21225	300 2065	4770 21225	275 1896	4374 19454	300 2065	4770 21225
		0.120 3.1	10S	RX	175 1206	2785 12395	175 1206	2785 12395	275 1896	4374 19454	275 1896	4375 19470
		0.083 2.1	5S	RX	100 690	1590 7075	100 690	1590 7075	175 1207	2783 12380	175 1206	2785 12395

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Std= Standard roll set marked with the prefix "R"

C= Cut groove

<sup>1</sup> Discontinued April 2019.

#### NOTES

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ANSI Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from Schedule 5S to Schedule 80S.

## 1.0 PERFORMANCE (CONTINUED)

### Performance on ANSI Wall Thicknesses



Style 78  
Snap-Joint™  
Coupling

Style 791  
Vic-Boltless Coupling<sup>1</sup>

Style 741  
Vic-Flange Adapter

Style 743  
Vic-Flange Adapter

Size		Pipe Wall Thickness		Groove Type	Style 78		Style 791		Style 741		Style 743	
Nominal inches DN	Actual Outside Diameter inches mm	inches mm	ANSI Schedule Number		Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N
5	5.563 141.3	0.375 9.5	80S	C	N/R	—	—	250 1724	6076 27029	300 2065	7290 32440	
		0.260 6.6	40S	Std/C				250 1724	6076 27029	250 1725	6075 27035	
		0.134 3.4	10S	RX				200 1379	4861 21623	300 1375	4860 21625	
		0.110 2.8	5S	RX				125 862	3039 13517	125 862	3040 13530	
6 DN150	6.625 168.3	0.280 7.11	40S	C	300 2065	10350 46055	300 2065	10350 46055	250 1724	8618 38334	300 2065	10350 46055
		0.280 7.11	40S	Std	200 1375	6895 30685	200 1375	6895 30685	150 1034	5170 22996	200 1375	6895 30685
		0.134 3.40	10S	RX	100 690	3450 15355	100 690	3450 15355	125 862	4310 19171	125 862	4310 19180
		0.109 2.77	5S	RX	65 448	2240 9970	65 448	2240 9970	75 517	2585 11500	75 517	2585 11505
8 DN200	8.625 219.1	0.322 8.18	40S	C	300 2065	17525 77985	300 2065	17525 77985	200 1379	11685 51978	250 1725	14600 64970
		0.322 8.18	40S	Std	200 1375	11685 52000	200 1375	11685 52000	125 862	7305 32492	150 1034	8765 39005
		0.148 3.76	10S	RX	50 345	2920 12995	50 345	2920 12995	N/R	N/R	N/R	N/R
		0.109 2.77	5S	RX	30 207	1755 7810	30 207	1755 7810				
10 DN250	10.750 273.0	0.365 9.3	40S	C	—	—	—	—	200 1379	18153 80746	250 1725	22700 101015
		0.365 9.3	40S	Std	—	—	—	—	125 862	11347 50475	150 1034	13615 60585
12 DN300	12.750 323.9	0.375 9.5	40S	C	—	—	—	—	200 1379	25535 113586	250 1725	31900 141955
		0.375 9.5	40S	Std	—	—	—	—	125 862	15962 71004	150 1034	19150 85220

— = Sizes not available

NR = Not rated. Contact Victaulic for more information.

RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

Std= Standard roll set marked with the prefix "R"

C= Cut groove

<sup>1</sup> Discontinued April 2019.

#### NOTES

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ANSI Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from Schedule 5S to Schedule 80S.

## 1.0 PERFORMANCE (CONTINUED)

### Performance on ANSI Wall Thicknesses



Style W89AGS  
Rigid Coupling



Style W07AGS  
Rigid Coupling



Style W77AGS  
Flexible Coupling

Size		Pipe Wall Thickness		Groove Type	Style W89		Style W07		Style W77	
Nominal inches DN	Actual Outside Diameter inches mm	inches mm	ANSI Schedule Number		Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N	Maximum Working Pressure psi kPa	Maximum End Load Lbs. N
14 DN350	14.000 355.6	0.188 4.8	10S	RWX	300 2065	46200 205590	150 1034	23091 102713	150 1034	23091 102713
16 DN400	16.000 406.4	0.188 4.8	10S	RWX	300 2065	60320 268424	150 1034	30159 134155	150 1034	30159 134155
18 DN450	18.000 457.0	0.188 4.8	10S	RWX	300 2065	76350 339758	150 1034	38170 169790	150 1034	38170 169790
20 DN500	20.000 508.0	0.218 5.5	10S	RWX	300 2065	94250 419413	150 1034	47124 209618	150 1034	47124 209618
22 DN550	22.000 559.0	0.218 5.5	10S	RWX	300 2065	114000 507080	150 1034	57020 253637	150 1034	57020 253637
24 DN600	24.000 610.0	0.250 6.4	10S	RWX	300 2065	135700 603865	150 1034	67858 301849	150 1034	67858 301849

RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

Std= Standard roll set marked with the prefix "R"

C= Cut groove

#### NOTES

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ANSI Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from Schedule 5S to Schedule 80S.

## 1.2 PERFORMANCE

### Performance on ISO Wall Thicknesses

Within this section you'll find performance data for ductile iron ISO sized couplings ranging from 20 – 300mm/¾ – 12", for use on ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 – 12.5mm/0.063 – 0.492", depending on the pipe OD in question.



Style 89  
Rigid Coupling



Style 07  
Zero-Flex™  
Rigid Coupling



Style 107N  
QuickVic™  
Rigid Coupling



Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness	Groove Type	Style 89		Style 07		Style 107N		Style 741	
Nominal inches DN	Actual Outside Diameter inches mm			Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N
DN25 1	33.7 1.315	4.5 0.177	C	—	—	5171 750	4531 1019	—	—	—	—
		3.2 0.126	Std	—	—	4313 625	3779 849	—	—	—	—
		2.6 0.102	RX	—	—	3275 475	2870 645	—	—	—	—
		2.3 0.091	RX	—	—	3100 450	2719 611	—	—	—	—
		2.0 0.079	RX	—	—	2930 425	2568 577	—	—	—	—
		1.6 0.063	RX	—	—	2758 400	2416 543	—	—	—	—
DN32 1¼	42.4 1.660	5.0 0.197	C	—	—	5171 750	7220 1623	—	—	—	—
		3.6 0.142	Std/C	—	—	5171 750	7220 1623	—	—	—	—
		3.2 0.126	Std	—	—	4313 625	6017 1353	—	—	—	—
		2.6 0.102	RX	—	—	3275 475	4573 1028	—	—	—	—
		2.0 0.079	RX	—	—	2930 425	4091 920	—	—	—	—
		1.6 0.063	RX	—	—	2758 400	3851 866	—	—	—	—

— = Sizes not available

NR = Not rated. Contact Victaulic for more information.

RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

Std= Standard roll set marked with the prefix "R"

C= Cut groove

See [publication 17.27](#) for recommended flange solutions for use on stainless steel pipe.

#### NOTES

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 – 12.5mm/0.063 – 0.492", depending on pipe size.

## 1.2 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 89  
Rigid Coupling



Style 07  
Zero-Flex™  
Rigid Coupling



Style 107N  
QuickVic™  
Rigid Coupling



Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness	Groove Type	Style 89		Style 07		Style 107N		Style 741	
Nominal inches DN	Actual Outside Diameter inches mm			Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N
DN40 1½	48.3 1.900	5.0 0.197	C	—	—	5171 750	9459 2126	—	—	—	—
		3.6 0.142	Std/C	—	—	5171 750	9459 2126	—	—	—	—
		3.2 0.126	Std	—	—	4137 600	7567 1701	—	—	—	—
		2.6 0.102	RX	—	—	3275 475	5991 1347	—	—	—	—
		2.0 0.079	RX	—	—	2930 425	5360 1205	—	—	—	—
		1.6 0.063	RX	—	—	2758 400	5045 1134	—	—	—	—
DN50 2	60.3 2.375	5.6 0.220	C	5171 750	14780 3323	5171 750	14780 3323	4137 600	11823 2658	1896 275	5419 1218
		4.0 0.157	Std/C	5171 750	14780 3323	5171 750	14780 3323	4137 600	11823 2658	1896 275	5419 1218
		3.6 0.142	Std	4654 675	13302 2990	4654 675	13302 2990	3620 525	10345 2326	1896 275	5419 1218
		3.2 0.126	Std	4137 600	11824 2658	4137 600	11824 2658	2758 400	7882 1772	1896 275	5419 1218
		2.9 0.114	Std	3620 525	10346 2326	3620 525	10346 2326	2241 325	6404 1440	1896 275	5419 1218
		2.6 0.102	RX	3275 475	9360 2104	3275 475	9360 2104	1896 275	5419 1218	1724 250	4927 1108
		2.3 0.091	RX	3275 475	8375 1883	3275 475	8375 1883	1793 260	5123 1152	1600 232	4572 1028
		2.0 0.079	RX	2586 375	7390 1661	2586 375	7390 1661	1600 232	4572 1028	1379 200	3941 886
		1.6 0.063	RX	2241 325	6405 1440	2241 325	6405 1440	1379 200	3941 886	1207 175	3449 775

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RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

Std= Standard roll set marked with the prefix "R"

C= Cut groove

See [publication 17.27](#) for recommended flange solutions for use on stainless steel pipe.

#### NOTES

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 – 12.5mm/0.063 – 0.492", depending on pipe size.

## 1.2 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 89  
Rigid Coupling



Style 07  
Zero-Flex™  
Rigid Coupling



Style 107N  
QuickVic™  
Rigid Coupling



Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness	Groove Type	Style 89		Style 07		Style 107N		Style 741	
Nominal	Actual Outside Diameter			Maximum Working Pressure	Maximum End Load	Maximum Working Pressure	Maximum End Load	Maximum Working Pressure	Maximum End Load	Maximum Working Pressure	Maximum End Load
inches	inches	inches	kPa	Lbs.	kPa	Lbs.	kPa	Lbs.	kPa	Lbs.	
DN	mm	mm	psi	N	psi	N	psi	N	psi	N	
DN65	76.1 3.000	7.1	5171	23582	5171	23582	4137	18865	1896	8646	
		0.280	750	5301	750	5301	600	4241	275	1944	
		6.4	5171	23582	5171	23582	4137	18865	1896	8646	
		0.252	750	5301	750	5301	600	4241	275	1944	
		5.0	4482	20438	4482	20438	3964	18079	1896	8646	
		0.197	650	4595	650	4595	575	4064	275	1944	
		4.0	3964	18079	3964	18079	2930	13362	1896	8646	
		0.157	575	4064	575	4064	425	3004	275	1944	
		3.6	3792	17293	3792	17293	2586	11790	1896	8646	
		0.142	550	3888	550	3888	375	2651	275	1944	
		3.1	3450	15733	3450	15733	2068	9432	1896	8646	
0.122	500	3537	500	3537	300	2121	275	1944			
2.9	3275	14935	3275	14935	1896	8646	1724	7861			
0.114	475	3358	475	3358	275	1944	250	1767			
2.6	2758	12577	2758	12577	1724	7860	1600	7295			
0.102	400	2827	400	2827	250	1767	232	1640			
2.3	2413	11005	2413	11005	1551	7074	1379	6288			
0.091	350	2474	350	2474	225	1590	200	1414			
2.1	2241	10220	2241	10220	1379	6288	1207	5502			
0.083	325	2297	325	2297	200	1414	175	1237			
2.0	2241	10220	2241	10220	1379	6288	1207	5502			
0.079	325	2297	325	2297	200	1414	175	1237			

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NR = Not rated. Contact Victaulic for more information.

RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

Std= Standard roll set marked with the prefix "R"

C= Cut groove

See [publication 17.27](#) for recommended flange solutions for use on stainless steel pipe.

#### NOTES

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 – 12.5mm/0.063 – 0.492", depending on pipe size.

## 1.2 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 89  
Rigid Coupling



Style 07  
Zero-Flex™  
Rigid Coupling



Style 107N  
QuickVic™  
Rigid Coupling



Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness	Groove Type	Style 89		Style 07		Style 107N		Style 741	
Nominal inches DN	Actual Outside Diameter inches mm			Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N
DN80 3	88.9 3.500	8.0 0.315	C	5171 750	32098 7216	5171 750	32098 7216	4137 600	25677 5773	1896 275	11769 2646
		5.6 0.220	Std/C	5171 750	32098 7216	5171 750	32098 7216	4137 600	25677 5773	1896 275	11769 2646
		4.0 0.157	Std	4137 600	25678 5773	4137 600	25678 5773	2930 425	18188 4089	1896 275	11769 2646
		3.6 0.142	Std	3792 550	23538 5292	3792 550	23538 5292	2586 375	16048 3608	1896 275	11769 2646
		3.2 0.126	Std	3450 500	21398 4811	3450 500	21398 4811	2241 325	13908 3127	1896 275	11769 2646
		2.9 0.114	RX	3275 475	21415 4814	3275 475	21415 4814	2068 300	12838 2886	1724 250	10699 2405
		2.6 0.102	RX	2758 400	20328 4570	2758 400	20328 4570	1724 250	10699 2405	1600 232	9929 2232
		2.3 0.091	RX	2413 350	14979 3367	2413 350	14979 3367	1551 225	9629 2165	1379 200	8559 1924
		2.0 0.079	RX	2241 325	13910 3127	2241 325	13910 3127	1379 200	8559 2405	1207 175	7489 1684
DN100 4	114.3 4.500	8.8 0.346	C	5171 750	53059 11928	5171 750	53059 11928	4137 600	42445 9543	1896 275	19454 4374
		6.3 0.248	C	5171 750	53059 11928	5171 750	53059 11928	4137 600	42445 9543	1896 275	19454 4374
		4.5 0.177	Std	3964 575	40679 9145	3964 575	40679 9145	2930 425	30066 6759	1896 275	19454 4374
		3.6 0.142	Std	3100 450	45985 10338	3100 450	45985 10338	2068 300	21223 4771	1896 275	19454 4374
		2.9 0.114	RX	2586 375	26530 5964	2586 375	26530 5964	1724 250	17686 3976	1724 250	17686 3976
		2.6 0.102	RX	2241 325	22958 5161	2241 325	22958 5161	1551 225	15917 3578	1600 232	16413 3690
		2.0 0.079	RX	1600 232	16417 3691	1600 232	16417 3691	1379 200	14148 3181	1207 175	12380 2783

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C= Cut groove

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#### NOTES

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- Performance data is for ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 – 12.5mm/0.063 – 0.492", depending on pipe size.

## 1.2 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 89  
Rigid Coupling



Style 07  
Zero-Flex™  
Rigid Coupling



Style 107N  
QuickVic™  
Rigid Coupling



Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness	Groove Type	Style 89		Style 07		Style 107N		Style 741	
Nominal inches DN	Actual Outside Diameter inches mm			Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N
DN125	139.7 5.500	10.0 0.394	C	5171 750	79261 17819	5171 750	79261 17819	4137 600	63406 14255	1724 250	26420 5940
		7.1 0.280	C	5171 750	79261 17819	5171 750	79261 17819	4137 600	63406 14255	1724 250	26420 5940
		6.6 0.260	C	517 750	79261 17819	5171 750	79261 17819	4137 600	63406 14255	1724 250	26420 5940
		6.6 0.260	Std	5171 750	79261 17819	3450 500	52881 11888	4137 600	63406 14255	1724 250	26420 5940
		6.3 0.248	Std/C	4826 700	73977 16631	3275 475	50199 11285	3275 475	50197 11285	1600 232	24518 5512
		5.6 0.220	Std/C	4137 600	63409 14255	3100 450	47557 10691	3103 450	47555 10691	1551 225	23778 5346
		5.0 0.197	Std	3620 525	55487 12474	2758 400	42266 9502	2758 400	42271 9503	1379 200	21136 4752
		4.0 0.157	Std	2586 375	39631 8909	2413 350	36989 8315	2068 300	31703 7127	1379 200	21136 4752
		3.4 0.134	RX	2068 300	31652 7116	2068 300	31652 7116	2068 300	31703 7127	1034 150	15852 3564
		3.2 0.126	RX	2068 300	31704 7127	1896 275	29062 6534	1551 225	23777 5346	1034 150	15852 3564
		3.0 0.118	RX	1896 275	29062 6534	1896 275	29062 6534	1551 225	23777 5346	N/R	
		2.8 0.110	RX	1896 275	29062 6534	1724 250	26420 5940	1379 200	21135 4752	862 125	13213 2970
		2.6 0.102	RX	1724 250	26420 5940	1600 232	24518 5512	N/R		N/R	
		2.0 0.079	RX	1600 232	35574 7997	N/R		—		—	

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RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

Std= Standard roll set marked with the prefix "R"

C= Cut groove

See [publication 17.27](#) for recommended flange solutions for use on stainless steel pipe.

#### NOTES

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 – 12.5mm/0.063 – 0.492", depending on pipe size.



## 1.2 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 89  
Rigid Coupling



Style 07  
Zero-Flex™  
Rigid Coupling



Style 107N  
QuickVic™  
Rigid Coupling



Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness	Groove Type	Style 89		Style 07		Style 107N		Style 741	
Nominal inches DN	Actual Outside Diameter inches mm			Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N
DN150 6	168.3 6.625	11.0 0.433	C	5171 750	115003 25854	5171 700	107306 24123	4137 600	91998 20683	1724 250	38334 8618
		7.1 0.280	Std	5171 750	115003 25854	5171 700	107306 24123	4137 600	91998 20683	1724 250	38334 8618
		7.1 0.280	C	5171 750	115003 25854	3100 450	68943 15499	4137 600	91998 20683	1034 150	22996 5170
		5.0 0.197	Std	3450 500	76668 17236	2068 300	46001 10341	2068 300	45999 10341	862 125	19167 4309
		4.5 0.177	Std	3100 450	69002 15512	1896 275	42168 9480	2068 300	45999 10341	862 125	19167 4309
		4.0 0.157	Std	2586 375	57501 12927	1600 232	35583 7999	2068 300	45999 10341	862 125	19167 4309
		3.2 0.126	RX	1896 275	42168 9480	1204 175	26776 6020	1207 175	26833 6033	689 100	15334 3447
		3.0 0.118	RX	1896 275	42168 9480	1034 150	23001 5171	1034 150	22999 5171	N/R	
		2.6 0.102	RX	1600 232	35583 7999	N/R		N/R		N/R	
		2.0 0.079	RX	1600 232	35574 7997	N/R		N/R		N/R	

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RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

Std= Standard roll set marked with the prefix "R"

C= Cut groove

See [publication 17.27](#) for recommended flange solutions for use on stainless steel pipe.

#### NOTES

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 – 12.5mm/0.063 – 0.492", depending on pipe size.

## 1.2 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 89  
Rigid Coupling



Style 07  
Zero-Flex™  
Rigid Coupling



Style 107N  
QuickVic™  
Rigid Coupling



Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness	Groove Type	Style 89		Style 07		Style 107N		Style 741	
Nominal inches DN	Actual Outside Diameter inches mm			Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N
DN200 8	219.1 8.625	12.5	C	4137	155903	4137	155935	2758	103952	1379	51978
		0.492		600	35049	600	35065	400	23371		
		8.0	Std/C	3964	149438	2758	103957	2758	103952	N/R	
		0.315		575	33595	400	23371	400	23371		
		6.5	Std/C	3275	123449	2068	77968	2068	77964		
		0.256		475	27752	300	17528	300	17528		
		6.3	Std/C	3100	116951	1896	71470	1896	71467		
		0.248		450	26292	275	16067	275	16067		
		5.0	Std	2586	97459	1379	51901	1379	51976		
		0.197		375	21910	200	11668	200	11685		
		4.0	Std	2241	84465	1034	38984	1034	38982		
		0.157		325	18989	150	8764	150	8764		
3.6	RX	1896	71470	793	29891	862	32485				
0.142		275	16067	115	6720	125	7303				
3.2	RX	1724	64973	689	25989	689	25988				
0.126		250	14607	100	5843	100	5843				
3.0	RX	1551	58476	517	19492	517	19491				
0.118		225	13146	75	4382	75	4382				
2.6	RX	1207	45481	N/R	N/R	N/R	N/R				
0.102		175	10225	N/R	N/R	N/R	N/R				
2.0	RX	1034	38984	N/R	N/R	N/R	N/R				
0.079		150	8746	N/R	N/R	N/R	N/R				

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RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

Std= Standard roll set marked with the prefix "R"

C= Cut groove

See [publication 17.27](#) for recommended flange solutions for use on stainless steel pipe.

#### NOTES

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 – 12.5mm/0.063 – 0.492", depending on pipe size.

## 1.2 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 89  
Rigid Coupling



Style 07  
Zero-Flex™  
Rigid Coupling



Style 107N  
QuickVic™  
Rigid Coupling



Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness	Groove Type	Style 89		Style 07		Style 107N		Style 741	
Nominal inches DN	Actual Outside Diameter inches mm			Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N	Maximum Working Pressure kPa psi	Maximum End Load Lbs. N
DN250 10	273.0 10.750	14.2	C	4137	242188	3450	202019	2068	121114	1379	80746
		0.559		600	54446						
		12.5	C	4137	242188	3450	202019	2068	121114	1379	80746
		0.492		600	54446						
		10.0	C	4137	242188	3450	202019	2068	121114	1379	80746
		0.394		600	54446						
		6.3	Std/C	2930	171585	1204	70653	1207	70650	—	
		0.248		425	38574						175
		4.0	RX	2068	121119	517	30280	517	30278		
		0.157		300	27229						75
3.6	RX	1724	10093	345	20187	345	20186				
0.142		250	22691					50	4538		50
3.2	RX	1600	93690	N/R		N/R	N/R				
0.126		232	21062	N/R		N/R	N/R				
3.0	RX	1379	80746	N/R		N/R	N/R				
0.118		200	18153	N/R		N/R	N/R				
2.6	RX	1034	60560	N/R		N/R	N/R				
0.102		150	13614	N/R		N/R	N/R				
2.0	RX	689	40373	N/R		N/R	N/R				
0.079		100	9076	N/R		N/R	N/R				
DN300 12	323.9 12.750	12.5	C	4137	340687	2758	227172	2068	170371	1379	113586
		0.492		600	76590						
		10.0	C	4137	340687	400	227172	2068	170371	1379	113586
		0.394		600	76590						
		7.1	Std/C	3100	255568	1379	113586	2068	170371	—	
		0.280		450	57454						200
		5.0	RX	2241	184577	1034	85189	862	70988		
0.197	325	41495		150	19151						125
4.5	RX	2068	170379	862	70991	689	56790				
0.177		300	38303					125	15960		100
4.0	RX	1379	113590	517	42586	517	42593				
0.157		200	25536					75	9574	75	9576

— = Sizes not available

NR = Not rated. Contact Victaulic for more information.

RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

Std= Standard roll set marked with the prefix "R"

C= Cut groove

See [publication 17.27](#) for recommended flange solutions for use on stainless steel pipe.

#### NOTES

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 – 12.5mm/0.063 – 0.492", depending on pipe size.

## 1.2 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 77  
Flexible Coupling



Style 75  
Flexible Coupling



Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness	Groove Type	Style 77		Style 75		Style 177N	
Nominal DN inches	Actual Outside Diameter mm inches			Maximum Working Pressure kPa psi	Maximum End Load N Lbs.	Maximum Working Pressure kPa psi	Maximum End Load N Lbs.	Maximum Working Pressure kPa psi	Maximum End Load N Lbs.
DN20 ¾	26.9 1.050	4.0	C	5171	2889	—	—	—	—
		0.157		750	649	—	—	—	—
		3.2	C	5171	2889	—	—	—	—
		0.126		750	649	—	—	—	—
		2.6	Std/C	4482	2504	—	—	—	—
0.102	0.102	2.0	RX	650	563	—	—	—	—
				3450	1927	—	—	—	—
				500	433	—	—	—	—
1.6	0.063	RX	RX	3450	1927	—	—	—	—
				500	433	—	—	—	—
DN25 1	33.7 1.315	4.5	C	5171	4531	—	—	—	—
		0.177		750	1019	—	—	—	—
		3.2	Std	4313	3779	—	—	—	—
		0.126		625	849	—	—	—	—
		2.6	RX	3275	2870	—	—	—	—
		0.102		475	645	—	—	—	—
		2.3	RX	3100	2719	—	—	—	—
0.091	0.091	2.0	RX	450	611	—	—	—	—
				2930	2568	—	—	—	—
0.079	0.079	RX	RX	425	577	—	—	—	—
				2758	2416	—	—	—	—
1.6	0.063	RX	RX	400	543	—	—	—	—
				2758	2416	—	—	—	—
DN32 1¼	42.4 1.660	5.0	C	5171	7220	—	—	—	—
		0.197		750	1623	—	—	—	—
		3.6	Std/C	5171	7220	—	—	—	—
		0.142		750	1623	—	—	—	—
		3.2	Std	4313	6021	—	—	—	—
		0.126		625	1354	—	—	—	—
		2.6	RX	3275	4573	—	—	—	—
		0.102		475	1028	—	—	—	—
		2.0	RX	2930	4091	—	—	—	—
0.079	0.079	RX	RX	425	920	—	—	—	—
				2758	3851	—	—	—	—
1.6	0.063	RX	RX	400	866	—	—	—	—
				2758	3851	—	—	—	—

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C= Cut groove

**NOTE**

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## 1.2 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 77  
Flexible Coupling



Style 75  
Flexible Coupling



Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness	Groove Type	Style 77		Style 75		Style 177N	
Nominal DN inches	Actual Outside Diameter mm inches			Maximum Working Pressure kPa psi	Maximum End Load N Lbs.	Maximum Working Pressure kPa psi	Maximum End Load N Lbs.	Maximum Working Pressure kPa psi	Maximum End Load N Lbs.
DN40 1½	48.3 1900	5.0 0.197	C	5171 750	9459 2126	6311 500	6311 1419	—	—
		3.6 0.142	Std/C	5171 750	9459 2126	3450 500	6311 1419	—	—
		3.2 0.126	Std	4137 600	7567 1701	3450 500	6311 1419	—	—
		2.6 0.102	RX	3275 475	5991 1347	3275 475	5991 1347	—	—
		2.0 0.079	RX	2930 425	5360 1205	2930 425	5360 1205	—	—
		1.6 0.063	RX	2758 400	5045 1134	2758 400	5045 1134	—	—
		DN50 2	60.3 2.375	5.6 0.220	C	5171 750	14780 3323	3450 500	9861 2217
4.0 0.157	Std/C			5171 750	14780 3323	3450 500	9861 2217	5171 750	14779 3323
3.6 0.142	Std			4654 675	13302 2990	3275 475	9360 2104	4654 675	13301 2990
3.2 0.126	Std			4137 600	11824 2658	2930 425	8375 1883	4137 600	11823 2658
2.9 0.114	Std			3620 525	10346 2326	2758 400	7882 1772	3620 525	10345 2326
2.6 0.102	RX			3275 475	9360 2104	2586 375	7390 1661	3275 475	9360 2104
2.3 0.091	RX			2930 425	8375 1883	2241 325	6404 1440	2930 425	8375 1883
2.0 0.079	RX			2586 375	7390 1661	2068 300	5912 1329	2586 375	7389 1661
1.6 0.063	RX			2241 325	6405 1440	1724 250	4930 1108	2241 325	6404 1440

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- Performance data is for ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 – 12.5mm/0.063 – 0.492", depending on pipe size.

## 1.2 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 77  
Flexible Coupling



Style 75  
Flexible Coupling



Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness	Groove Type	Style 77		Style 75		Style 177N	
Nominal DN inches	Actual Outside Diameter mm inches			Maximum Working Pressure kPa psi	Maximum End Load N Lbs.	Maximum Working Pressure kPa psi	Maximum End Load N Lbs.	Maximum Working Pressure kPa psi	Maximum End Load N Lbs.
DN65	76.1 3.000	7.1	C	5171	23582	3450	15733	4826	22009
		0.280		750	5301	500	3537	700	4948
		6.4	C	5171	23582	3450	15733	4826	22009
		0.252		750	5301	500	3537	700	4948
		5.0	Std/C	4482	20438	3100	14149	4482	20437
		0.197		650	4595	450	3181	650	4595
		4.0	Std	3964	18079	2930	13363	3620	16507
		0.157		575	4064	425	3004	525	3711
		3.6	Std	3792	17293	2930	13363	3275	14935
		0.142		550	9888	425	3004	475	3358
		3.1	Std	3450	15733	2758	12577	2758	12576
		0.122		500	3537	400	2827	400	2827
		2.9	RX	3275	14935	2586	11791	2586	11790
		0.114		475	3358	375	2651	375	2651
2.6	RX	2930	13363	2241	10204	2413	11004		
0.102		425	3004	325	2294	350	2474		
2.3	RX	2413	11005	1896	8647	2068	9432		
0.091		350	2474	275	1944	300	2121		
2.1	RX	2241	10220	1724	7867	2068	9432		
0.083		325	2297	250	1768	300	2121		
2.0	RX	2241	10220	1724	7867	1724	7860		
0.079		325	2297	250	1768	250	1767		

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C= Cut groove

#### NOTE

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- Performance data is for ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 – 12.5mm/0.063 – 0.492", depending on pipe size.

## 1.2 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 77  
Flexible Coupling



Style 75  
Flexible Coupling



Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness	Groove Type	Style 77		Style 75		Style 177N	
Nominal DN inches	Actual Outside Diameter mm inches			Maximum Working Pressure kPa psi	Maximum End Load N Lbs.	Maximum Working Pressure kPa psi	Maximum End Load N Lbs.	Maximum Working Pressure kPa psi	Maximum End Load N Lbs.
DN80 3	88.9 3.500	8.0	C	5171	32098	3450	21415	4826	29956
		0.315		750	7216	500	4824	700	6735
		5.6	Std/C	5171	32098	3450	21415	4826	29956
		0.220		750	7216	500	4824	700	6735
		4.0	Std	4137	25678	3100	19259	3447	21397
		0.157		600	5773	450	4330	500	4811
		3.6	Std	3792	23538	2930	18189	3103	19258
		0.142		550	5292	425	4089	450	4330
		3.2	Std	3450	21398	2758	17119	2758	17118
		0.126		500	4811	400	3848	400	3848
2.9	RX	3275	20328	2586	16049	2413	14978		
0.114		475	4570	375	3608	350	3367		
2.6	RX	2930	18189	2241	13888	2241	13908		
0.102		425	4089	325	3122	325	3127		
2.3	RX	2413	14979	1896	11769	2068	12838		
0.091		350	3367	275	2646	300	2886		
2.0	RX	2241	13910	1724	10707	1724	10699		
0.079		325	3127	250	2407	250	2405		
DN100 4	114.3 4.500	8.8	C	5171	53059	3450	35400	4137	42445
		0.346		750	11928	500	7958	600	9543
		6.3	C	5171	53059	3450	35400	4137	42445
		0.248		750	11928	500	7958	600	9543
		4.5	Std	3964	40679	2758	28298	3103	31834
		0.177		575	9145	400	6362	450	7157
		3.6	Std	3100	31836	2241	22992	2413	24760
		0.142		450	7157	325	5169	350	5567
		2.9	RX	2586	26530	1896	19455	1724	17686
		0.114		375	5964	275	4374	250	3976
2.6	RX	2241	22958	1724	17686	1724	17686		
0.102		325	5161	250	3976	250	3976		
2.0	RX	1724	17700	1379	14149	1379	14148		
0.079		250	3979	200	3181	200	3181		

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RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

Std= Standard roll set marked with the prefix "R"

C= Cut groove

**NOTE**

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 – 12.5mm/0.063 – 0.492", depending on pipe size.

## 1.2 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 77  
Flexible Coupling



Style 75  
Flexible Coupling



Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness	Groove Type	Style 77		Style 75		Style 177N	
Nominal DN inches	Actual Outside Diameter mm inches			Maximum Working Pressure kPa psi	Maximum End Load N Lbs.	Maximum Working Pressure kPa psi	Maximum End Load N Lbs.	Maximum Working Pressure kPa psi	Maximum End Load N Lbs.
DN125	139.7 5.500	10.0 0.394	C	5171 750	79261 17819	3100 450	47516 10682	3447 500	52838 11879
		7.1 0.280	C	5171 750	79261 17819	3100 450	47516 10682	3447 500	52838 11879
		6.6 0.260	Std	5171 750	79261 17819	3100 450	47516 10682	3447 500	52838 11879
		6.6 0.260	C	3450 500	52881 11888	2068 300	31652 7116	3447 500	52838 11879
		6.3 0.248	Std/C	3275 475	50199 11285	2068 300	31704 7127	3275 475	50197 11285
		5.6 0.220	Std/C	3100 450	47557 10691	1896 275	29062 6534	3103 450	47555 10691
		5.0 0.197	Std	2758 400	42266 9502	1724 250	26420 5940	2413 350	36987 8315
		4.0 0.157	Std	2241 325	34347 7721	1551 225	23778 5346	1724 250	26419 5940
		3.4 0.134	RX	2068 300	31652 7116	1379 200	21136 4752	1379 200	21135 4752
		3.2 0.126	RX	1896 275	29062 6534	1204 175	18455 4149	1207 175	18493 4158
		3.0 0.118	RX	1896 275	29062 6534	1034 150	15852 3564	1034 150	15852 3564
		2.8 0.110	RX	1724 250	26420 5940	862 125	13213 2970	1034 150	15852 3564
		2.6 0.102	RX	1600 232	24525 5513	N/R		N/R	

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RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

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C= Cut groove

**NOTE**

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 – 12.5mm/0.063 – 0.492", depending on pipe size.



## 1.2 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 77  
Flexible Coupling



Style 75  
Flexible Coupling



Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness	Groove Type	Style 77		Style 75		Style 177N	
Nominal DN inches	Actual Outside Diameter mm inches			Maximum Working Pressure kPa psi	Maximum End Load N Lbs.	Maximum Working Pressure kPa psi	Maximum End Load N Lbs.	Maximum Working Pressure kPa psi	Maximum End Load N Lbs.
DN150 6	168.3 6.625	11.0 0.433	C	5171 750	115003 25854	3100 450	68943 15499	3447 500	76665 17236
		7.1 0.280	Std/C	5171 750	115003 25854	3100 450	68943 15499	3447 500	76665 17236
		7.1 0.280	C	3450 500	76727 17249	2068 300	45925 10324	3447 500	76665 17236
		5.0 0.197	Std	2241 325	49834 11203	1379 200	30740 6911	2068 300	45999 10341
		4.5 0.177	Std	1896 275	42219 9491	1204 175	26834 6033	1724 250	38332 8618
		4.0 0.157	Std	1600 232	35583 7999	1204 150	23001 5171	1379 200	30666 6894
		3.2 0.126	RX	1375 199	26776 6020	689 100	15334 3447	827 120	18400 4137
		3.0 0.118	RX	1034 150	23001 5171	517 75	11500 2585	689 100	15333 3447
		DN200 8	219.1 8.625	12.5 0.492	C	4137 600	155935 35056	3100 450	116852 26269
8.0 0.315	Std/C			2586 375	97459 21910	2068 300	77968 17528	2758 400	103952 23371
6.5 0.256	Std/C			2068 300	77968 17528	1551 225	58476 13146	2068 300	77964 17528
6.3 0.248	Std/C			1896 275	71470 16067	1379 200	51978 11685	1896 275	71467 16067
5.0 0.197	Std			1379 200	51901 11668	862 125	32486 7303	1379 200	51976 11685
4.0 0.157	Std			862 125	32486 7303	517 75	19492 4382	862 125	32485 7303
3.6 0.142	RX			689 100	25989 5843	517 75	19492 4382	689 100	25988 5843
3.2 0.126	RX			689 100	25989 5843	345 50	12995 2921	689 100	25988 5843
3.0 0.118	RX			517 75	19492 4382	345 50	12995 2921	517 75	19491 4382

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C= Cut groove

**NOTE**

- For pressure ratings on wall thicknesses not mentioned please contact Victaulic.
- Performance data is for ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 – 12.5mm/0.063 – 0.492", depending on pipe size.

## 1.2 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 77  
Flexible Coupling



Style 75  
Flexible Coupling



Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness	Groove Type	Style 77		Style 75		Style 177N	
Nominal DN inches	Actual Outside Diameter mm inches			Maximum Working Pressure kPa psi	Maximum End Load N Lbs.	Maximum Working Pressure kPa psi	Maximum End Load N Lbs.	Maximum Working Pressure kPa psi	Maximum End Load N Lbs.
DN250 10	273.0 10.750	14.2	C	4137	242238	—	—	—	—
		0.559		600	54458	—	—	—	—
		12.5	C	4137	242238	—	—	—	—
		0.492		600	54458	—	—	—	—
		10.0	C	4137	242238	—	—	—	—
		0.394		600	54458	—	—	—	—
DN300 12	323.9 12.750	6.3	Std/C	1600	93665	—	—	—	—
		0.248		232	21057	—	—	—	—
		4.0	RX	689	40373	—	—	—	—
		0.157		100	9076	—	—	—	—
		3.6	RX	517	30280	—	—	—	—
		0.142		75	6807	—	—	—	—
DN300 12	323.9 12.750	12.5	C	4137	340758	—	—	—	—
		0.492		600	76606	—	—	—	—
		10.0	C	4137	340758	—	—	—	—
		0.394		600	76606	—	—	—	—
		7.1	Std/C	1724	141982	—	—	—	—
		0.280		250	31919	—	—	—	—
DN300 12	323.9 12.750	5.0	RX	1034	85189	—	—	—	—
		0.197		150	19151	—	—	—	—
		4.5	RX	862	70991	—	—	—	—
		0.177		125	15960	—	—	—	—
DN300 12	323.9 12.750	4.0	RX	517	42586	—	—	—	—
		0.157		75	9574	—	—	—	—

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RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"

Std= Standard roll set marked with the prefix "R"

C= Cut groove

#### NOTE

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## 2.0 NOTIFICATIONS

### 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.

### WARNING



- Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Wear safety glasses, hardhat, and foot protection.
- A Victaulic flexible coupling (not included) must also be installed in the piping above the Series 383 Discharge CBV Isolation Pump Drop when using a vertical configuration with no reduction in pipe size.

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

### 3.0 REFERENCE MATERIALS

Product	Product Type	Size Range
Style 89	Rigid Coupling	2 – 12"/DN50 – DN300
Style 07	Rigid Coupling	1 – 12"/DN25 – DN300
Style 107N	Rigid Coupling	2 – 12"/DN50 – DN300
Style 77	Flexible Coupling	¾ – 12"/DN20 – DN300
Style 75	Flexible Coupling	1 ½ – 8"/DN40 – DN200
Style 177N	Flexible Coupling	2 – 8"/DN50 – DN200
Style 78	Snap-Joint Coupling	2 – 8"/DN50 – DN200

Product	Product Type	Size Range
Style 791	Boltless Coupling	2 – 8"/DN50 – v200
Style 741	Flange Adapter	2 – 12"/DN50 – DN300
Style 743	Flange Adapter	2 – 12"/DN50 – DN300
Style W89	Rigid Coupling	14 – 24"/DN350 – DN600
Style W07	Rigid Coupling	14 – 24"/DN350 – DN600
Style W77	Flexible Coupling	14 – 24"/DN350 – DN600

- [06.02: Victaulic® Zero-Flex Rigid Coupling Style 07](#)
- [06.04: Victaulic® Standard Flexible Coupling Style 77](#)
- [06.05: Victaulic® Flexible Coupling Style 75](#)
- [06.06: Victaulic® Vic-Flange® Adapters Styles 741 and 743](#)
- [06.09: Victaulic® Snap-Joint® Coupling](#)
- [06.11: Victaulic® Vic-Boltless® Coupling](#)
- [06.23: Victaulic® QuickVic™ Rigid Coupling Style 107N](#)
- [06.24: Victaulic® QuickVic™ Flexible Coupling Style 177N](#)
- [17.01: Victaulic® Stainless Steel Pipe End Preparation](#)
- [17.07: Victaulic® Rigid Coupling Style 89](#)
- [20.02: Victaulic® AGS Rigid Coupling Style W07](#)
- [20.03: Victaulic® AGS Flexible Coupling Style W77](#)
- [20.15: Victaulic® AGS Rigid Coupling for Stainless Steel or Carbon Steel Style W89](#)

**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, and the applicable building codes and related regulations 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](http://www.victaulic.com).

**Warranty**

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

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