

# 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/107V  
QuickVic™ Rigid Coupling

Size		Pipe Wall Thickness			Grooving Method Std,C,RX	Style 89		Style 07		Style 107N/107V	
Nominal inches DN	Actual Outside Diameter inches mm	Nominal inches mm	ANSI Schedule Number	Maximum Working Pressure psi kPa		Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	
1 DN25	1.315 33.7	0.179 4.5	80S	C	-	-	750 5171	1020 4538	-	-	
		0.133 3.4	40S	Std,C	-	-	750 5171	1020 4538	-	-	
		0.109 2.8	10S	RX	-	-	500 3447	680 3024	-	-	
		0.065 1.7	5S	RX	-	-	400 2758	545 2424	-	-	
1 ¼ DN32	1.660 42.4	0.191 4.9	80S	C	-	-	750 5171	1630 7250	-	-	
		0.140 3.6	40S	Std,C	-	-	750 5171	1630 7250	-	-	
		0.109 2.8	10S	RX	-	-	500 3447	1090 4848	-	-	
		0.065 1.7	5S	RX	-	-	400 2758	870 3870	-	-	
1 ½ DN40	1.900 48.3	0.200 5.1	80S	C	-	-	750 5171	2130 9474	-	-	
		0.145 3.7	40S	Std,C	-	-	750 5171	2130 9474	-	-	
		0.109 2.8	10S	RX	-	-	500 3447	1420 6316	-	-	
		0.065 1.7	5S	RX	-	-	400 2758	1140 5070	-	-	
2 DN50	2.375 60.3	0.218 5.5	80S	C	750 5171	3330 14812	750 5171	3330 14812	600 4137	2660 11832	
		0.154 3.9	40S	Std,C	750 5171	3330 14812	750 5171	3330 14812	600 4137	2660 11832	
		0.109 2.8	10S	RX	500 3447	2220 9876	500 3447	2220 9876	300 2068	1330 5916	
		0.065 1.7	5S	RX	325 2241	1440 6406	325 2241	1440 6406	200 1379	890 3958	

- = Sizes not available

NR = Not rated. Contact Victaulic for mor 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.



## 1.0 PERFORMANCE (CONTINUED)

### Performance on ANSI Wall Thicknesses



Size		Pipe Wall Thickness			Style 89		Style 07		Style 107N/107V	
Nominal inches DN	Actual Outside Diameter inches mm	Nominal inches mm	ANSI Schedule Number	Grooving Method Std,C,RX	Maximum Working Pressure	Maximum End Load	Maximum Working Pressure	Maximum End Load	Maximum Working Pressure	Maximum End Load
					psi kPa	lbf N	psi kPa	lbf N	psi kPa	lbf N
2½	2.875 73.0	0.276 7.0	80S	C	750 5171	4870 21662	750 5171	4870 21662	600 4137	3900 17348
		0.203 5.2	40S	Std,C	750 5171	4870 21662	750 5171	4870 21662	600 4137	3900 17348
		0.120 3.0	10S	RX	500 3447	3250 14456	500 3447	3250 14456	300 2068	1950 8674
		0.083 2.1	5S	RX	325 2241	2110 9386	325 2241	2110 9386	200 1379	1300 5782
3 DN80	3.500 88.9	0.300 7.6	80S	C	750 5171	7220 32116	750 5171	7220 32116	600 4137	5780 25710
		0.216 5.5	40S	Std,C	750 5171	7220 32116	750 5171	7220 32116	600 4137	5780 25710
		0.120 3.0	10S	RX	500 3447	4820 21440	500 3447	4820 21440	300 2068	2890 12856
		0.083 2.1	5S	RX	325 2241	3130 13922	325 2241	3130 13922	200 1379	1930 8586
4 DN100	4.500 114.3	0.337 8.6	80S	C	750 5171	12000 53378	750 5171	12000 53378	600 4137	9550 42480
		0.237 6.0	40S	Std,C	750 5171	12000 53378	750 5171	12000 53378	600 4137	9550 42480
		0.120 3.0	10S	RX	400 2758	6370 28336	400 2758	6370 28336	300 2068	4780 21262
		0.083 2.1	5S	RX	250 1724	3980 17704	250 1724	3980 17704	200 1379	3190 14190
5	5.563 141.3	0.375 9.5	80S	C	750 5171	18300 81402	750 5171	18300 81402	600 4137	14600 64944
		0.258 6.6	40S	Std,C	750 5171	18300 81402	500 3447	12200 54268	600 4137	14600 64944
		0.134 3.4	10S	RX	400 2758	9730 43282	300 2068	7300 32472	300 2068	7300 32472
		0.109 2.8	5S	RX	275 1896	6690 29758	200 1379	4870 21662	200 1379	4870 21662
6 DN150	6.625 168.3	0.432 11.0	80S	C	750 5171	25900 115208	700 4826	24200 107646	600 4137	20700 92078
		0.280 7.1	40S	Std,C	750 5171	25900 115208	450 3103	15600 69392	600 4137	20700 92078
		0.134 3.4	10S	RX	400 2758	13800 61386	200 1379	6900 30692	300 2068	10400 46262
		0.109 2.8	5S	RX	250 1724	8620 38344	125 862	4310 19172	200 1379	6900 30692

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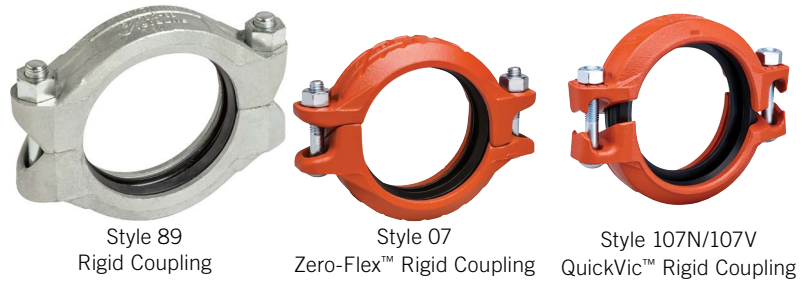
C= Cut groove

#### 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



Size		Pipe Wall Thickness			Grooving Method Std,C,RX	Style 89		Style 07		Style 107N/107V	
Nominal inches DN	Actual Outside Diameter inches mm	Nominal inches mm	ANSI Schedule Number	Maximum Working Pressure psi kPa		Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	
8 DN200	8.625 219.1	0.322 8.2	40S	C	600 4137	35100 156132	600 4137	35100 156132	400 2758	23400 104088	
		0.322 8.2	40S	Std	600 4137	35100 156132	400 2758	23400 104088	400 2758	23400 104088	
		0.148 3.8	10S	RX	300 2068	17600 78288	125 862	7310 32516	150 1034	8770 39010	
		0.109 2.8	5S	RX	200 1379	11700 52044	75 517	4390 19528	125 862	7310 32516	
10 DN250	10.750 273.0	0.365 9.3	40S	C	600 4137	54500 242428	500 3447	45400 201950	300 2068	27300 121436	
		0.365 9.3	40S	Std	600 4137	54500 242428	325 2241	29500 131222	300 2068	27300 121436	
		0.165 4.2	10S	RX	300 2068	27300 121436	75 517	6810 30292	100 689	9080 40390	
		0.134 3.4	5S	RX	250 1724	22700 100974	50 345	4540 20194	75 517	6810 30292	
12 DN300	12.750 323.9	0.375 9.5	40S	C	600 4137	77000 342514	400 2758	51500 229084	300 2068	38400 170812	
		0.375 9.5	40S	Std	600 4137	77000 342514	250 1724	32000 142344	300 2068	38400 170812	
		0.180 4.6	10S	RX	300 2068	38400 170812	125 862	16000 71172	100 689	12800 56938	
		0.156 4.0	5S	RX	200 1379	25600 113874	75 517	9580 42614	75 517	9580 42614	

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## 1.0 PERFORMANCE (CONTINUED)

### Performance on ANSI Wall Thicknesses



Size		Pipe Wall Thickness		Grooving Method Std,C,RX	Style 77		Style 75		Style 177N	
Nominal inches DN	Actual Outside Diameter inches mm	Nominal inches mm	ANSI Schedule Number		Maximum Working Pressure psi kPa	Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N
¾ DN20	1.050 26.9	0.154 3.9	80S	C	750 5171	650 2892	-	-	-	-
		0.113 2.9	40S	Std,C	750 5171	650 2892	-	-	-	-
		0.083 2.1	10S	RX	500 3447	433 1926	-	-	-	-
		0.065 1.7	5S	RX	500 3447	433 1926	-	-	-	-
1 DN25	1.315 33.7	0.179 4.5	80S	C	750 5171	1020 4538	NR		-	-
		0.133 3.4	40S	Std,C	750 5171	1020 4538	NR		-	-
		0.109 2.8	10S	RX	500 3447	680 3024	NR		-	-
		0.065 1.7	5S	RX	400 2758	545 2424	NR		-	-
1 ¼ DN32	1.660 42.4	0.191 4.9	80S	C	750 5171	1630 7250	NR		-	-
		0.140 3.6	40S	Std,C	750 5171	1630 7250	NR		-	-
		0.109 2.8	10S	RX	500 3447	1090 4848	NR		-	-
		0.065 1.7	5S	RX	400 2758	870 3870	NR		-	-
1 ½ DN40	1.900 48.3	0.200 5.1	80S	C	750 5171	2130 9474	500 3447	1420 6316	-	-
		0.145 3.7	40S	Std,C	750 5171	2130 9474	500 3447	1420 6316	-	-
		0.109 2.8	10S	RX	500 3447	1420 6316	500 3447	1420 6316	-	-
		0.065 1.7	5S	RX	400 2758	1140 5070	400 2758	1140 5070	-	-

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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		Grooving Method Std,C,RX	Style 77		Style 75		Style 177N	
Nominal inches DN	Actual Outside Diameter inches mm	Nominal inches mm	ANSI Schedule Number		Maximum Working Pressure psi kPa	Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N
2 DN50	2.375 60.3	0.218 5.5	80S	C	750 5171	3330 14812	500 3447	2220 9876	750 5171	3330 14812
		0.154 3.9	40S	Std,C	750 5171	3330 14812	500 3447	2220 9876	750 5171	3330 14812
		0.109 2.8	10S	RX	500 3447	2220 9876	400 2758	1780 7918	500 3447	2220 9876
		0.065 1.7	5S	RX	325 2241	1440 6406	250 1724	1110 4938	325 2241	1440 6406
2 ½	2.875 73.0	0.276 7.0	80S	C	750 5171	4870 21662	500 3447	3250 14456	700 4826	4550 20240
		0.203 5.2	40S	Std,C	750 5171	4870 21662	500 3447	3250 14456	700 4826	4550 20240
		0.120 3.0	10S	RX	500 3447	3250 14456	400 2758	2600 11566	400 2758	2600 11566
		0.083 2.1	5S	RX	325 2241	2110 9386	250 1724	1630 7250	300 2068	1950 8674
3 DN80	3.500 88.9	0.300 7.6	80S	C	750 5171	7220 32116	500 3447	4820 21440	700 4826	6740 29982
		0.216 5.5	40S	Std,C	750 5171	7220 32116	500 3447	4820 21440	700 4826	6740 29982
		0.120 3.0	10S	RX	500 3447	4820 21440	400 2758	3850 17126	400 2758	3850 17126
		0.083 2.1	5S	RX	325 2241	3130 13922	250 1724	2410 10720	300 2068	2890 12856
3 ½ DN90	4.000 101.6	0.318 8.1	80S	C	750 5171	9430 41946	500 3447	6290 27980	-	-
		0.226 5.7	40S	Std,C	750 5171	9430 41946	500 3447	6290 27980	-	-
		0.120 3.0	10S	RX	450 3103	5660 25176	350 2413	4400 19572	-	-
		0.083 2.1	5S	RX	300 2068	3770 16770	225 1551	2830 12588	-	-

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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



Size		Pipe Wall Thickness		Grooving Method Std,C,RX	Style 77		Style 75		Style 177N	
Nominal inches DN	Actual Outside Diameter inches mm	Nominal inches mm	ANSI Schedule Number		Maximum Working Pressure	Maximum End Load	Maximum Working Pressure	Maximum End Load	Maximum Working Pressure	Maximum End Load
					psi kPa	lbf N	psi kPa	lbf N	psi kPa	lbf N
4 DN100	4.500 114.3	0.337 8.6	80S	C	750 5171	12000 53378	500 3447	7960 35408	600 4137	9550 42480
		0.237 6.0	40S	Std,C	750 5171	12000 53378	500 3447	7960 35408	600 4137	9550 42480
		0.120 3.0	10S	RX	450 3103	7160 31850	300 2068	4780 21262	300 2068	4780 21262
		0.083 2.1	5S	RX	250 1724	3980 17704	200 1379	3190 14190	250 1724	3980 17704
5	5.563 141.3	0.375 9.5	80S	C	750 5171	18300 81402	450 3103	11000 48930	NR	
		0.258 6.6	40S	Std,C	500 3447	12200 54268	300 2068	7300 32472	NR	
		0.134 3.4	10S	RX	300 2068	7300 32472	200 1379	4870 21662	NR	
		0.109 2.8	5S	RX	200 1379	4870 21662	125 862	3040 13522	NR	
6 DN150	6.625 168.3	0.280 7.1	40S	C	750 5171	25900 115208	450 3103	15600 69392	500 3447	17300 76954
		0.280 7.1	40S	Std	500 3447	17300 76954	300 2068	10400 46262	500 3447	17300 76954
		0.134 3.4	10S	RX	200 1379	6900 30692	125 862	4310 19172	150 1034	5180 23042
		0.109 2.8	5S	RX	125 862	4310 19172	75 517	2590 11520	100 689	3450 15346
8 DN200	8.625 219.1	0.322 8.2	40S	C	600 4137	35100 156132	450 3103	26300 116988	400 2758	23400 104088
		0.322 8.2	40S	Std	400 2758	23400 104088	300 2068	17600 78288	400 2758	23400 104088
		0.148 3.8	10S	RX	125 862	7310 32516	75 517	4390 19528	125 862	7310 32516
		0.109 2.8	5S	RX	75 517	4390 19528	50 345	2930 13034	75 517	4390 19528

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## 1.0 PERFORMANCE (CONTINUED)

### Performance on ANSI Wall Thicknesses



Size		Pipe Wall Thickness			Grooving Method Std,C,RX	Style 77		Style 75		Style 177N	
Nominal inches DN	Actual Outside Diameter inches mm	Nominal inches mm	ANSI Schedule Number	Maximum Working Pressure psi kPa		Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	
10 DN250	10.750 273.0	0.365 9.3	40S	C	600 4137	54500 242428	-	-	-	-	
		0.365 9.3	40S	Std	400 2758	36400 161916	-	-	-	-	
		0.165 4.2	10S	RX	125 862	11400 50710	-	-	-	-	
		0.134 3.4	5S	RX	75 517	6810 30292	-	-	-	-	
12 DN300	12.750 323.9	0.375 9.5	40S	C	600 4137	77000 342514	-	-	-	-	
		0.375 9.5	40S	Std	400 2758	51500 229084	-	-	-	-	
		0.180 4.6	10S	RX	125 862	16000 71172	-	-	-	-	
		0.156 4.0	5S	RX	75 517	9580 42614	-	-	-	-	

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C= Cut groove

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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			Grooving Method Std,C,RX	Style 78		Style 7911		Style 741		Style 743	
Nominal inches DN	Actual Outside Diameter inches mm	Nominal inches mm	ANSI Schedule Number	Maximum Working Pressure psi kPa		Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	
2 DN50	2.375 60.3	0.218 5.5	80S	C		300 2068	1330 5916	300 2068	1330 5916	275 1896	1220 5426	400 2758	1780 7918
		0.154 3.9	40S	Std,C	300 2068	1330 5916	300 2068	1330 5916	275 1896	1220 5426	400 2758	1780 7918	
		0.109 2.8	10S	RX	300 2068	1330 5916	300 2068	1330 5916	275 1896	1220 5426	400 2758	1780 7918	
		0.065 1.7	5S	RX	200 1379	890 3958	200 1379	890 3958	175 1207	780 3470	250 1724	1110 4938	
2 ½	2.875 73.0	0.276 7.0	80S	C	300 2068	1950 8674	300 2068	1950 8674	275 1896	1790 7962	400 2758	2600 11566	
		0.203 5.2	40S	Std,C	300 2068	1950 8674	300 2068	1950 8674	275 1896	1790 7962	400 2758	2600 11566	
		0.120 3.0	10S	RX	300 2068	1950 8674	300 2068	1950 8674	275 1896	1790 7962	400 2758	2600 11566	
		0.083 2.1	5S	RX	200 1379	1300 5782	200 1379	1300 5782	175 1207	1140 5070	250 1724	1630 7250	
3 DN80	3.500 88.9	0.300 7.6	80S	C	300 2068	2890 12856	300 2068	2890 12856	275 1896	2650 11788	400 2758	3850 17126	
		0.216 5.5	40S	Std,C	300 2068	2890 12856	300 2068	2890 12856	275 1896	2650 11788	400 2758	3850 17126	
		0.120 3.0	10S	RX	300 2068	2890 12856	300 2068	2890 12856	275 1896	2650 11788	400 2758	3850 17126	
		0.083 2.1	5S	RX	200 1379	1930 8586	200 1379	1930 8586	175 1207	1690 7518	250 1724	2410 10720	
4 DN100	4.500 114.3	0.337 8.6	80S	C	300 2068	4780 21262	300 2068	4780 21262	275 1896	4380 19484	300 2068	4780 21262	
		0.237 6.0	40S	Std,C	300 2068	4780 21262	300 2068	4780 21262	275 1896	4380 19484	300 2068	4780 21262	
		0.120 3.0	10S	RX	175 1207	2790 12410	175 1207	2790 12410	275 1896	4380 19484	275 1896	4380 19484	
		0.083 2.1	5S	RX	100 689	1600 7118	100 689	1600 7118	175 1207	2790 12410	175 1207	2790 12410	
5	5.563 141.3	0.375 9.5	80S	C	300 2068	7300 32472	-	-	250 1724	6080 27046	300 2068	7300 32472	
		0.258 6.6	40S	Std,C	200 1379	4870 21662	-	-	250 1724	6080 27046	250 1724	6080 27046	
		0.134 3.4	10S	RX	125 862	3040 13522	-	-	200 1379	4870 21662	200 1379	4870 21662	
		0.109 2.8	5S	RX	75 517	1830 8140	-	-	125 862	3040 13522	125 862	3040 13522	

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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		Grooving Method Std,C,RX	Style 78		Style 7911		Style 741		Style 743	
Nominal inches DN	Actual Outside Diameter inches mm	Nominal inches mm	ANSI Schedule Number		Maximum Working Pressure psi kPa	Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N
6 DN150	6.625 168.3	0.280 7.1	40S		C	300 2068	10400 46262	300 2068	10400 46262	250 1724	8620 38344	300 2068
		0.280 7.1	40S	Std	200 1379	6900 30692	200 1379	6900 30692	150 1034	5180 23042	200 1379	6900 30692
		0.134 3.4	10S	RX	100 689	3450 15346	100 689	3450 15346	125 862	4310 19172	125 862	4310 19172
		0.109 2.8	5S	RX	65 448	2250 10008	65 448	2250 10008	75 517	2590 11520	75 517	2590 11520
8 DN200	8.625 219.1	0.322 8.2	40S	C	300 2068	17600 78288	300 2068	17600 78288	200 1379	11700 52044	250 1724	14700 65388
		0.322 8.2	40S	Std	200 1379	11700 52044	200 1379	11700 52044	125 862	7310 32516	150 1034	8770 39010
		0.148 3.8	10S	RX	50 345	2930 13034	50 345	2930 13034	NR		NR	
		0.109 2.8	5S	RX	30 207	1760 7828	30 207	1760 7828	NR		NR	
10 DN250	10.750 273.0	0.365 9.3	40S	C	-	-	-	-	200 1379	18200 80958	250 1724	22700 100974
		0.365 9.3	40S	Std	-	-	-	-	125 862	11400 50710	150 1034	13700 60940
12 DN300	12.750 323.9	0.375 9.5	40S	C	-	-	-	-	200 1379	25600 113874	250 1724	32000 142344
		0.375 9.5	40S	Std	-	-	-	-	125 862	16000 71172	150 1034	19200 85406

- = Sizes not available

NR = Not rated. Contact Victaulic for mor 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.

## 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			Grooving Method RW, RWX/ RWQX	Style W89		Style W07		Style W77	
Nominal inches DN	Actual Outside Diameter inches mm	Nominal inches mm	ANSI Schedule Number	Maximum Working Pressure psi kPa		Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	
14 DN350	14.000 355.6	0.188 4.8	10S	RWX	365 2517	56500 251324	150 1034	23100 102754	150 1034	23100 102754	
16 DN400	16.000 406.4	0.188 4.8	10S	RWX	365 2517	73500 326944	150 1034	30200 134336	150 1034	30200 134336	
18 DN450	18.000 457.2	0.188 4.8	10S	RWX	300 2068	76500 340288	150 1034	38200 169922	150 1034	38200 169922	
20 DN500	20.000 508.0	0.218 5.5	10S	RWX	300 2068	94500 420356	150 1034	47200 209956	150 1034	47200 209956	
22 DN550	22.000 558.8	0.218 5.5	10S	RWX	300 2068	115000 511546	150 1034	57500 255772	150 1034	57500 255772	
24 DN600	24.000 609.6	0.250 6.4	10S	RWX	300 2068	136000 604958	150 1034	68000 302480	150 1034	68000 302480	
26 DN650	26.000 660.4	0.375 9.5	40S	RW	-	-	125 862	66500 295806	125 862	66500 295806	
		0.313 7.9	-	RWX	-	-	100 689	53500 237980	100 689	53500 237980	
		0.250 6.4	-	RWX	-	-	35 241	18600 82736	35 241	18600 82736	
28 DN700	28.000 711.2	0.375 9.5	40S	RW	-	-	125 862	77000 342514	125 862	77000 342514	
		0.313 7.9	-	RWX	-	-	100 689	62000 275790	100 689	62000 275790	
		0.250 6.4	-	RWX	-	-	35 241	21600 96082	35 241	21600 96082	
30 DN750	30.000 762.0	0.375 9.5	40S	RW	-	-	125 862	88500 393668	125 862	88500 393668	
		0.313 7.9	10S	RWX	-	-	100 689	71000 315824	100 689	71000 315824	
		0.250 6.4	5S	RWX	-	-	35 241	24800 110316	35 241	24800 110316	
32 DN800	32.000 812.8	0.375 9.5	40S	RW	-	-	125 862	101000 449270	125 862	101000 449270	
		0.313 7.9	-	RWX	-	-	100 689	80500 358082	100 689	80500 358082	
		0.250 6.4	-	RWX	-	-	35 241	28200 125440	35 241	28200 125440	

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NR = Not rated. Contact Victaulic for mor 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.

## 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			Grooving Method RW, RWX/ RWQX	Style W89		Style W07		Style W77	
Nominal inches DN	Actual Outside Diameter inches mm	Nominal inches mm	ANSI Schedule Number	Maximum Working Pressure psi kPa		Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	Maximum Working Pressure psi kPa	Maximum End Load lbf N	
36 DN900	36.000 914.4	0.375 9.5	40S	RW	-	-	125 862	128000 569372	125 862	128000 569372	
		0.313 7.9	-	RWX	-	-	100 689	102000 453718	100 689	102000 453718	
		0.250 6.4	-	RWX	-	-	35 241	35700 158802	35 241	35700 158802	
38 DN950	38.00 965.0	0.375 9.5	40S	RW	-	-	125 862	142000 631648	125 862	142000 631648	
		0.313 7.9	-	RWX	-	-	100 689	114000 507098	100 689	114000 507098	
		0.250 6.4	-	RWX	-	-	35 241	39700 176594	35 241	39700 176594	
40 DN1000	40.000 1016.0	0.375 9.5	40S	RW	-	-	150 1034	189000 840714	150 1034	189000 840714	
		0.313 7.9	-	RWX	-	-	125 862	158000 702820	125 862	158000 702820	
42 DN1050	42.000 1066.8	0.375 9.5	40S	RW	-	-	150 1034	208000 925230	150 1034	208000 925230	
		0.313 7.9	-	RWX	-	-	125 862	174000 773990	125 862	174000 773990	
44 DN1100	44.000 1117.6	0.375 9.5	40S	RW	-	-	150 1034	229000 1018642	150 1034	229000 1018642	
		0.313 7.9	-	RWX	-	-	125 862	191000 849610	125 862	191000 849610	
46 DN1150	46.000 1168.4	0.375 9.5	40S	RW	-	-	150 1034	250000 1112056	150 1034	250000 1112056	
		0.313 7.9	-	RWX	-	-	125 862	208000 925230	125 862	208000 925230	
48 DN1200	48.000 1219.2	0.375 9.5	40S	RW	-	-	150 1034	272000 1209916	150 1034	272000 1209916	
		0.313 7.9	-	RWX	-	-	125 862	227000 1009746	125 862	227000 1009746	
50 DN1250	50.000 1270.0	0.375 9.5	-	RW	-	-	150 1034	295000 1312226	150 1034	295000 1312226	
		0.313 7.9	-	RWX	-	-	125 862	246000 1094262	125 862	246000 1094262	

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NR = Not rated. Contact Victaulic for mor 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.

## 1.1 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.



Size		Pipe Wall Thickness		Grooving Method Std,C,RX	Style 89		Style 07		Style 107N/107V		Style 741	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches	Maximum Working Pressure kPa psi		Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	
DN25 1	33.7 1.315	4.5 0.177	C		-	-	5171 750	4538 1020	-	-	-	-
		3.2 0.126	Std	-	-	4309 625	3780 850	-	-	-	-	
		2.6 0.102	RX	-	-	3275 475	2892 650	-	-	-	-	
		2.3 0.091	RX	-	-	3103 450	2736 615	-	-	-	-	
		2.0 0.079	RX	-	-	2930 425	2580 580	-	-	-	-	
		1.6 0.063	RX	-	-	2758 400	2424 545	-	-	-	-	
		DN32 1 ¼	42.4 1.660	5.0 0.197	C	-	-	5171 750	7250 1630	-	-	-
3.6 0.142	Std,C			-	-	5171 750	7250 1630	-	-	-	-	
3.2 0.126	Std			-	-	4309 625	6050 1360	-	-	-	-	
2.6 0.102	RX			-	-	3275 475	4582 1030	-	-	-	-	
2.0 0.079	RX			-	-	2930 425	4092 920	-	-	-	-	
1.6 0.063	RX			-	-	2758 400	3870 870	-	-	-	-	

- = Sizes not available

NR = Not rated. Contact Victaulic for mor information.

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

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

C = Cut groove

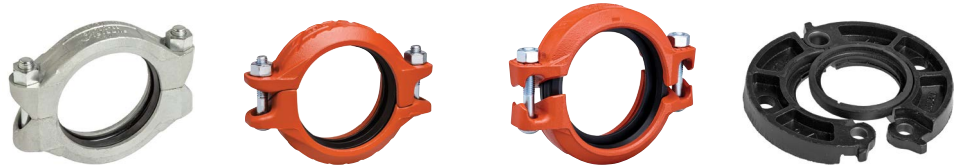
See [publication 17.27](#) for recommended flange solutions for use on stainless steel pipe.

#### 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/0.063-0.429", depending on pipe size.

## 1.1 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 89  
Rigid Coupling

Style 07  
Zero-Flex™ Rigid Coupling

Style 107N/107V  
QuickVic™ Rigid Coupling

Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness	Grooving Method Std,C,RX	Style 89		Style 07		Style 107N/107V		Style 741	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches		Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf
DN40 1 ½	48.3 1.900	5.0 0.197	C	-	-	5171 750	9474 2130	-	-	-	-
		3.6 0.142	Std,C	-	-	5171 750	9474 2130	-	-	-	-
		3.2 0.126	Std	-	-	4137 600	7606 1710	-	-	-	-
		2.6 0.102	RX	-	-	3275 475	6006 1350	-	-	-	-
		2.0 0.079	RX	-	-	2930 425	5382 1210	-	-	-	-
		1.6 0.063	RX	-	-	2758 400	5070 1140	-	-	-	-
DN50 2	60.3 2.375	5.6 0.220	C	5171 750	14812 3330	5171 750	14812 3330	4137 600	11832 2660	1896 275	5426 1220
		4.0 0.157	Std,C	5171 750	14812 3330	5171 750	14812 3330	4137 600	11832 2660	1896 275	5426 1220
		3.6 0.142	Std	4654 675	13344 3000	4654 675	13344 3000	3620 525	10364 2330	1896 275	5426 1220
		3.2 0.126	Std	4137 600	11832 2660	4137 600	11832 2660	2758 400	7918 1780	1896 275	5426 1220
		2.9 0.114	Std	3620 525	10364 2330	3620 525	10364 2330	2241 325	6406 1440	1896 275	5426 1220
		2.6 0.102	RX	3275 475	9386 2110	3275 475	9386 2110	1896 275	5426 1220	1724 250	4938 1110
		2.3 0.091	RX	2930 425	8408 1890	3275 475	9386 2110	1793 260	5160 1160	1600 232	4582 1030
		2.0 0.079	RX	2586 375	7428 1670	2586 375	7428 1670	1600 232	4582 1030	1379 200	3958 890
		1.6 0.063	RX	2241 325	6406 1440	2241 325	6406 1440	1379 200	3958 890	1207 175	3470 780

- = Sizes not available

NR = Not rated. Contact Victaulic for mor information.

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C = Cut groove

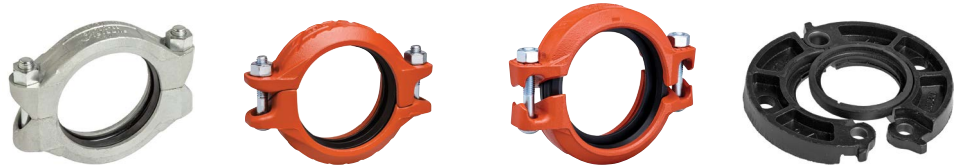
See [publication 17.27](#) for recommended flange solutions for use on stainless steel pipe.

#### 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/0.063-0.429", depending on pipe size.

## 1.1 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 89  
Rigid Coupling

Style 07  
Zero-Flex™ Rigid Coupling

Style 107N/107V  
QuickVic™ Rigid Coupling

Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness	Grooving Method Std,C,RX	Style 89		Style 07		Style 107N/107V		Style 741	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches		Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf
DN65	76.1 3.000	7.1 0.280	C	5171 750	23620 5310	5171 750	23620 5310	4137 600	18904 4250	1896 275	8674 1950
		6.4 0.252	C	5171 750	23620 5310	5171 750	23620 5310	4137 600	18904 4250	1896 275	8674 1950
		5.0 0.197	Std,C	4482 650	20462 4600	4482 650	20462 4600	3964 575	18104 4070	1896 275	8674 1950
		4.0 0.157	Std	3964 575	18104 4070	3964 575	18104 4070	2930 425	13390 3010	1896 275	8674 1950
		3.6 0.142	Std	3792 550	17304 3890	3792 550	17304 3890	2586 375	11832 2660	1896 275	8674 1950
		3.1 0.122	Std	3447 500	15746 3540	3447 500	15746 3540	2068 300	9474 2130	1896 275	8674 1950
		2.9 0.114	RX	3275 475	14946 3360	3275 475	14946 3360	1896 275	8674 1950	1724 250	7874 1770
		2.6 0.102	RX	2758 400	12588 2830	2758 400	12588 2830	1724 250	7874 1770	1600 232	7296 1640
		2.3 0.091	RX	2413 350	11032 2480	2413 350	11032 2480	1551 225	7118 1600	1379 200	6316 1420
		2.1 0.083	RX	2241 325	10230 2300	2241 325	10230 2300	1379 200	6316 1420	1207 175	5516 1240
		2.0 0.079	RX	2241 325	10230 2300	2241 325	10230 2300	1379 200	6316 1420	1207 175	5516 1240
		DN80 3	88.9 3.500	8.0 0.315	C	5171 750	32116 7220	5171 750	32116 7220	4137 600	25710 5780
5.6 0.220	Std,C			5171 750	32116 7220	5171 750	32116 7220	4137 600	25710 5780	1896 275	11788 2650
4.0 0.157	Std			4137 600	25710 5780	4137 600	25710 5780	2930 425	18194 4090	1896 275	11788 2650
3.6 0.142	Std			3792 550	23576 5300	3792 550	23576 5300	2586 375	16058 3610	1896 275	11788 2650
3.2 0.126	Std			3447 500	21440 4820	3447 500	21440 4820	2241 325	13922 3130	1896 275	11788 2650
2.9 0.114	RX			3275 475	20372 4580	3275 475	20372 4580	2068 300	12856 2890	1724 250	10720 2410
2.6 0.102	RX			2758 400	17126 3850	2758 400	17126 3850	1724 250	10720 2410	1600 232	9964 2240
2.3 0.091	RX			2413 350	14990 3370	2413 350	14990 3370	1551 225	9652 2170	1379 200	8586 1930
2.0 0.079	RX			2241 325	13922 3130	2241 325	13922 3130	1379 200	8586 1930	1207 175	7518 1690

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

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C = Cut groove

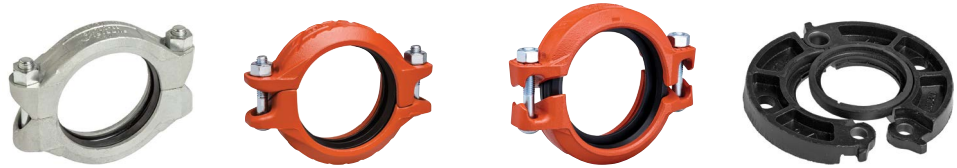
See [publication 17.27](#) for recommended flange solutions for use on stainless steel pipe.

#### 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/0.063-0.429", depending on pipe size.

## 1.1 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 89  
Rigid Coupling

Style 07  
Zero-Flex™ Rigid Coupling

Style 107N/107V  
QuickVic™ Rigid Coupling

Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness		Grooving Method Std,C,RX	Style 89		Style 07		Style 107N/107V		Style 741	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches	Maximum Working Pressure kPa psi		Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	
DN100 4	114.3 4.500	8.8 0.346	C		5171 750	53378 12000	5171 750	53378 12000	4137 600	42480 9550	1896 275	19484 4380
		6.3 0.248	C	5171 750	53378 12000	5171 750	53378 12000	4137 600	42480 9550	1896 275	19484 4380	
		4.5 0.177	Std	3964 575	40702 9150	3964 575	40702 9150	2930 425	30070 6760	1896 275	19484 4380	
		3.6 0.142	Std	3103 450	31850 7160	3103 450	31850 7160	2068 300	21262 4780	1896 275	19484 4380	
		2.9 0.114	RX	2586 375	26556 5970	2586 375	26556 5970	1724 250	17704 3980	1724 250	17704 3980	
		2.6 0.102	RX	2241 325	22998 5170	2241 325	22998 5170	1551 225	15924 3580	1600 232	16414 3690	
		2.0 0.079	RX	1600 232	16414 3690	1600 232	16414 3690	1379 200	14190 3190	1207 175	12410 2790	

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

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

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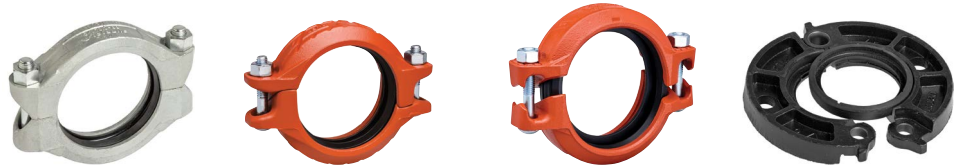
See [publication 17.27](#) for recommended flange solutions for use on stainless steel pipe.

#### 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/0.063-0.429", depending on pipe size.

## 1.1 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 89  
Rigid Coupling

Style 07  
Zero-Flex™ Rigid Coupling

Style 107N/107V  
QuickVic™ Rigid Coupling

Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness	Grooving Method Std,C,RX	Style 89		Style 07		Style 107N/107V		Style 741	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches		Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf
DN125	139.7 5.500	10.0 0.394	C	5171 750	79624 17900	5171 750	79624 17900	4137 600	63610 14300	1724 250	26422 5940
		7.1 0.280	C	5171 750	79624 17900	5171 750	79624 17900	4137 600	63610 14300	1724 250	26422 5940
		6.6 0.260	C	5171 750	79624 17900	5171 750	79624 17900	4137 600	63610 14300	1724 250	26422 5940
		6.6 0.260	Std	5171 750	79624 17900	3447 500	52934 11900	4137 600	63610 14300	1724 250	26422 5940
		6.3 0.248	Std,C	4826 700	74286 16700	3275 475	50264 11300	3275 475	50264 11300	1600 232	24554 5520
		5.6 0.220	Std,C	4309 625	66278 14900	3103 450	47596 10700	3103 450	47596 10700	1551 225	23798 5350
		5.0 0.197	Std	3792 550	58272 13100	2758 400	42302 9510	2758 400	42302 9510	1379 200	21174 4760
		4.0 0.157	Std	3103 450	47596 10700	2413 350	37010 8320	2068 300	31716 7130	1379 200	21174 4760
		3.4 0.134	RX	2758 400	42302 9510	2068 300	31716 7130	2068 300	31716 7130	1034 150	15880 3570
		3.2 0.126	RX	2413 350	37010 8320	1896 275	29092 6540	1551 225	23798 5350	1034 150	15880 3570
		3.0 0.118	RX	2068 300	31716 7130	1896 275	29092 6540	1551 225	23798 5350	NR	
		2.8 0.110	RX	1896 275	29092 6540	1724 250	26422 5940	1379 200	21174 4760	862 125	13212 2970
		2.6 0.102	RX	1724 250	26422 5940	1600 232	24554 5520	NR		NR	
		2.0 0.079	RX	1600 232	24554 5520	NR		NR		NR	

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C = Cut groove

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

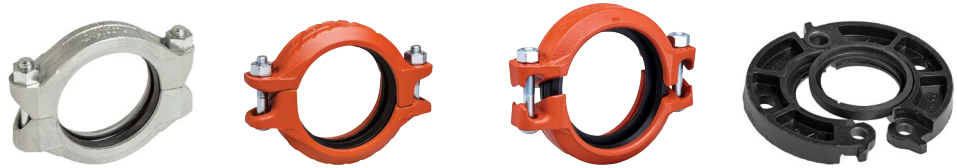
#### NOTES

- 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/0.063-0.429", depending on pipe size.



## 1.1 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 89  
Rigid Coupling

Style 07  
Zero-Flex™ Rigid Coupling

Style 107N/107V  
QuickVic™ Rigid Coupling

Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness		Grooving Method Std,C,RX	Style 89		Style 07		Style 107N/107V		Style 741	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches			Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf
DN150 6	168.3 6.625	11.0	C	5171	115208	4826	107646	4137	92078	1724	38344	
		0.433		750	25900	700	24200	600	20700	250	8620	
		7.1	C	5171	115208	4826	107646	4137	92078	1724	38344	
		0.280		750	25900	700	24200	600	20700	250	8620	
		7.1	Std	5171	115208	3103	69392	4137	92078	1034	23042	
		0.280		750	25900	450	15600	600	20700	150	5180	
		5.0	Std	3792	84516	2068	46262	2068	46262	862	19172	
		0.197		550	19000	300	10400	300	10400	125	4310	
		4.5	Std	3447	76954	1896	42170	2068	46262	862	19172	
		0.177		500	17300	275	9480	300	10400	125	4310	
4.0	Std	3103	69392	1600	35586	2068	46262	862	19172			
0.157		450	15600	232	8000	300	10400	125	4310			
3.2	RX	2413	53824	1207	26868	1207	26868	689	15346			
0.126		350	12100	175	6040	175	6040	100	3450			
3.0	RX	2068	46262	1034	23042	1034	23042	NR				
0.118		300	10400	150	5180	150	5180	NR				
2.6	RX	1600	35586	NR		NR		NR				
0.102		232	8000	NR		NR		NR				
2.0	RX	1600	35586	NR		NR		NR				
0.079		232	8000	NR		NR		NR				

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NR = Not rated. Contact Victaulic for mor information.

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

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

C = Cut groove

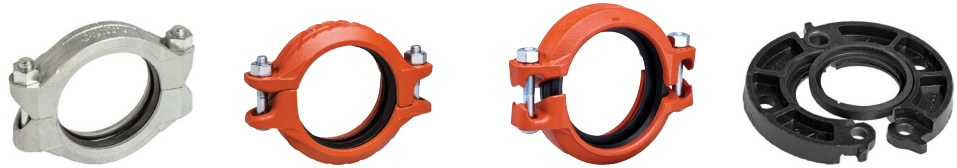
See [publication 17.27](#) for recommended flange solutions for use on stainless steel pipe.

#### 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/0.063-0.429", depending on pipe size.

## 1.1 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 89  
Rigid Coupling

Style 07  
Zero-Flex™ Rigid Coupling

Style 107N/107V  
QuickVic™ Rigid Coupling

Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness		Grooving Method Std,C,RX	Style 89		Style 07		Style 107N/107V		Style 741	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches	Maximum Working Pressure kPa psi		Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	
DN200 8	219.1 8.625	12.5 0.492	C		4137 600	156132 35100	4137 600	156132 35100	2758 400	104088 23400	1379 200	52044 11700
		8.0 0.315	Std,C	3964 575	149460 33600	2758 400	104088 23400	2758 400	104088 23400	NR		
		6.5 0.256	Std,C	3447 500	130332 29300	2068 300	78288 17600	2068 300	78288 17600	NR		
		6.3 0.248	Std,C	3275 475	123660 27800	1896 275	71616 16100	1896 275	71616 16100	NR		
		5.0 0.197	Std	2930 425	110760 24900	1379 200	52044 11700	1379 200	52044 11700	NR		
		4.0 0.157	RX	2241 325	84516 19000	1034 150	39010 8770	1034 150	39010 8770	NR		
		3.6 0.142	RX	1896 275	71616 16100	793 115	29892 6720	862 125	32516 7310	NR		
		3.2 0.126	RX	1724 250	65388 14700	689 100	26022 5850	862 125	32516 7310	NR		
		3.0 0.118	RX	1551 225	58716 13200	517 75	19528 4390	862 125	32516 7310	NR		
		2.6 0.102	RX	1207 175	45816 10300	NR		NR		NR		
		2.0 0.079	RX	1034 150	39010 8770	NR		NR		NR		

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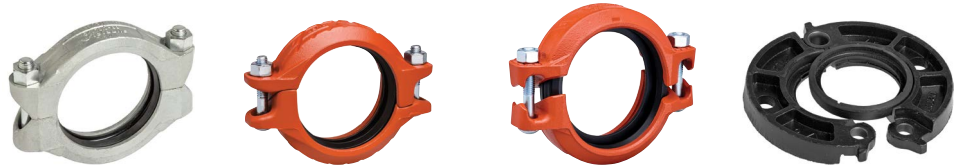
See [publication 17.27](#) for recommended flange solutions for use on stainless steel pipe.

#### 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/0.063-0.429", depending on pipe size.

## 1.1 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 89  
Rigid Coupling

Style 07  
Zero-Flex™ Rigid Coupling

Style 107N/107V  
QuickVic™ Rigid Coupling

Style 741  
Vic-Flange Adapter

Size		Pipe Wall Thickness	Grooving Method Std,C,RX	Style 89		Style 07		Style 107N/107V		Style 741	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches		Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf
DN250 10	273.0 10.750	14.2 0.559	C	4137 600	242428 54500	3447 500	201950 45400	2068 300	121436 27300	1379 200	80958 18200
		12.5 0.492	C	4137 600	242428 54500	3447 500	201950 45400	2068 300	121436 27300	1379 200	80958 18200
		10.0 0.394	C	4137 600	242428 54500	3447 500	201950 45400	2068 300	121436 27300	1379 200	80958 18200
		6.3 0.248	Std,C	3103 450	181932 40900	1207 175	70726 15900	1207 175	70726 15900	NR	
		4.0 0.157	RX	2068 300	121436 27300	517 75	30292 6810	517 75	30292 6810	NR	
		3.6 0.142	RX	1724 250	100974 22700	345 50	20194 4540	345 50	20194 4540	NR	
		3.2 0.126	RX	1600 232	93858 21100	NR		NR		NR	
		3.0 0.118	RX	1379 200	80958 18200	NR		NR		NR	
		2.6 0.102	RX	NR		NR		NR		NR	
		2.0 0.079	RX	NR		NR		NR		NR	
DN300 12	323.9 12.750	12.5 0.492	C	4137 600	342514 77000	2758 400	229084 51500	2068 300	170812 38400	1379 200	113874 25600
		10.0 0.394	C	4137 600	342514 77000	2758 400	229084 51500	2068 300	170812 38400	1379 200	113874 25600
		7.1 0.280	Std,C	3103 450	255772 57500	1379 200	113874 25600	2068 300	170812 38400	NR	
		5.0 0.197	RX	2241 325	184602 41500	1034 150	85406 19200	862 125	71172 16000	NR	
		4.5 0.177	RX	2068 300	170812 38400	862 125	71172 16000	689 100	56938 12800	NR	
		4.0 0.157	RX	1379 200	113874 25600	517 75	42614 9580	517 75	42614 9580	NR	

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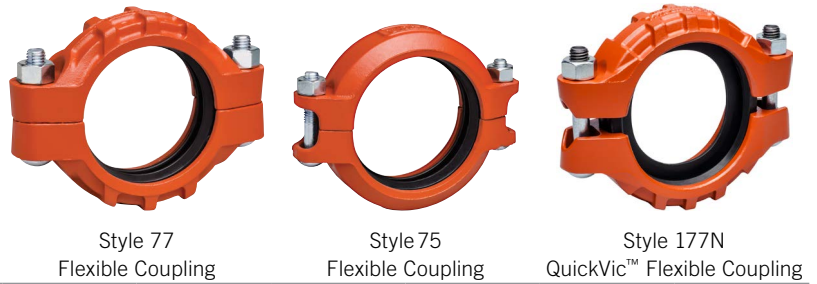
See [publication 17.27](#) for recommended flange solutions for use on stainless steel pipe.

#### 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/0.063-0.429", depending on pipe size.

## 1.1 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Size		Pipe Wall Thickness		Grooving Method Std,C,RX	Style 77		Style 75		Style 177N	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches	Maximum Working Pressure kPa psi		Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	
DN20 ¾	26.9 1.050	4.0 0.157	C		5171 750	2892 650	-	-	-	-
		3.2 0.126	C	5171 750	2892 650	-	-	-	-	
		2.6 0.102	Std,C	4482 650	2514 565	-	-	-	-	
		2.0 0.079	RX	3447 500	1926 433	-	-	-	-	
		1.6 0.063	RX	3447 500	1926 433	-	-	-	-	
DN25 1	33.7 1.315	4.5 0.177	C	5171 750	4538 1020	NR		-	-	
		3.2 0.126	Std	4309 625	3780 850	NR		-	-	
		2.6 0.102	RX	3275 475	2892 650	NR		-	-	
		2.3 0.091	RX	3103 450	2736 615	NR		-	-	
		2.0 0.079	RX	2930 425	2580 580	NR		-	-	
		1.6 0.063	RX	2758 400	2424 545	NR		-	-	
DN32 1¼	42.4 1.660	5.0 0.197	C	5171 750	7250 1630	NR		-	-	
		3.6 0.142	Std,C	5171 750	7250 1630	NR		-	-	
		3.2 0.126	Std	4309 625	6050 1360	NR		-	-	
		2.6 0.102	RX	3275 475	4582 1030	NR		-	-	
		2.0 0.079	RX	2930 425	4092 920	NR		-	-	
		1.6 0.063	RX	2758 400	3870 870	NR		-	-	

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RX = Roll Set for light wall stainless steel pipe parked 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 ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 - 12.5mm/0.063-0.429", depending on pipe size.

## 1.1 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 77  
Flexible Coupling

Style 75  
Flexible Coupling

Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness		Grooving Method Std,C,RX	Style 77		Style 75		Style 177N	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches	Maximum Working Pressure kPa psi		Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	
DN40 1 1/2	48.3 1.900	5.0 0.197	C	5171 750	9474 2130	3447 500	6316 1420	-	-	
		3.6 0.142	Std,C	5171 750	9474 2130	3447 500	6316 1420	-	-	
		3.2 0.126	Std	4137 600	7606 1710	3447 500	6316 1420	-	-	
		2.6 0.102	RX	3275 475	6006 1350	3275 475	6006 1350	-	-	
		2.0 0.079	RX	2930 425	5382 1210	2930 425	5382 1210	-	-	
		1.6 0.063	RX	2758 400	5070 1140	2758 400	5070 1140	-	-	
		DN50 2	60.3 2.375	5.6 0.220	C	5171 750	14812 3330	3447 500	9876 2220	5171 750
4.0 0.157	Std,C			5171 750	14812 3330	3447 500	9876 2220	5171 750	14812 3330	
3.6 0.142	Std			4654 675	13344 3000	3275 475	9386 2110	4654 675	13344 3000	
3.2 0.126	Std			4137 600	11832 2660	2930 425	8408 1890	4137 600	11832 2660	
2.9 0.114	Std			3620 525	10364 2330	2758 400	7918 1780	3620 525	10364 2330	
2.6 0.102	RX			3275 475	9386 2110	2586 375	7428 1670	3275 475	9386 2110	
2.3 0.091	RX			2930 425	8408 1890	2241 325	6406 1440	2930 425	8408 1890	
2.0 0.079	RX			2586 375	7428 1670	2068 300	5916 1330	2586 375	7428 1670	
1.6 0.063	RX			2241 325	6406 1440	1724 250	4938 1110	2241 325	6406 1440	

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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 ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 - 12.5mm/0.063-0.429", depending on pipe size.

## 1.1 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 77  
Flexible Coupling

Style 75  
Flexible Coupling

Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness	Grooving Method Std,C,RX	Style 77		Style 75		Style 177N	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches		Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf
DN65	76.1 3.000	7.1 0.280	C	5171 750	23620 5310	3447 500	15746 3540	4826 700	22018 4950
		6.4 0.252	C	5171 750	23620 5310	3447 500	15746 3540	4826 700	22018 4950
		5.0 0.197	Std,C	4482 650	20462 4600	3103 450	14190 3190	4482 650	20462 4600
		4.0 0.157	Std	3964 575	18104 4070	2930 425	13390 3010	3620 525	16548 3720
		3.6 0.142	Std	3792 550	17304 3890	2930 425	13390 3010	3275 475	14946 3360
		3.1 0.122	Std	3447 500	15746 3540	2758 400	12588 2830	2758 400	12588 2830
		2.9 0.114	RX	3275 475	14946 3360	2586 375	11832 2660	2586 375	11832 2660
		2.6 0.102	RX	2930 425	13390 3010	2241 325	10230 2300	2413 350	11032 2480
		2.3 0.091	RX	2413 350	11032 2480	1896 275	8674 1950	2068 300	9474 2130
		2.1 0.083	RX	2241 325	10230 2300	1724 250	7874 1770	2068 300	9474 2130
		2.0 0.079	RX	2241 325	10230 2300	1724 250	7874 1770	1724 250	7874 1770
		DN80	88.9 3.500	8.0 0.315	C	5171 750	32116 7220	3447 500	21440 4820
5.6 0.220	Std,C			5171 750	32116 7220	3447 500	21440 4820	4826 700	29982 6740
4.0 0.157	Std			4137 600	25710 5780	3103 450	19260 4330	3447 500	21440 4820
3.6 0.142	Std			3792 550	23576 5300	2930 425	18194 4090	3103 450	19260 4330
3.2 0.126	Std			3447 500	21440 4820	2758 400	17126 3850	2758 400	17126 3850
2.9 0.114	RX			3275 475	20372 4580	2586 375	16058 3610	2413 350	14990 3370
2.6 0.102	RX			2930 425	18194 4090	2241 325	13922 3130	2241 325	13922 3130
2.3 0.091	RX			2413 350	14990 3370	1896 275	11788 2650	2068 300	12856 2890
2.0 0.079	RX			2241 325	13922 3130	1724 250	10720 2410	1724 250	10720 2410

- = Sizes not available

NR = Not rated. Contact Victaulic for mor information.

RX = Roll Set for light wall stainless steel pipe parked 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 ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 - 12.5mm/0.063-0.429", depending on pipe size.

## 1.1 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 77  
Flexible Coupling



Style 75  
Flexible Coupling



Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness		Grooving Method Std,C,RX	Style 77		Style 75		Style 177N	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches	Maximum Working Pressure kPa psi		Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	
DN100 4	114.3 4.500	8.8 0.346	C	5171 750	53378 12000	3447 500	35408 7960	4137 600	42480 9550	
		6.3 0.248	C	5171 750	53378 12000	3447 500	35408 7960	4137 600	42480 9550	
		4.5 0.177	Std	3964 575	40702 9150	2758 400	28336 6370	3103 450	31850 7160	
		3.6 0.142	Std	3103 450	31850 7160	2241 325	22998 5170	2413 350	24776 5570	
		2.9 0.114	RX	2586 375	26556 5970	1896 275	19484 4380	1724 250	17704 3980	
		2.6 0.102	RX	2241 325	22998 5170	1724 250	17704 3980	1724 250	17704 3980	
		2.0 0.079	RX	1724 250	17704 3980	1379 200	14190 3190	1379 200	14190 3190	
		DN125	139.7 5.500	10.0 0.394	C	5171 750	79624 17900	3103 450	47596 10700	3447 500
7.1 0.280	C			5171 750	79624 17900	3103 450	47596 10700	3447 500	52934 11900	
6.6 0.260	C			5171 750	79624 17900	3103 450	47596 10700	3447 500	52934 11900	
6.6 0.260	Std			3447 500	52934 11900	2068 300	31716 7130	3447 500	52934 11900	
6.3 0.248	Std,C			3275 475	50264 11300	2068 300	31716 7130	3275 475	50264 11300	
5.6 0.220	Std,C			3103 450	47596 10700	1896 275	29092 6540	3103 450	47596 10700	
5.0 0.197	Std			2758 400	42302 9510	1724 250	26422 5940	2413 350	37010 8320	
4.0 0.157	Std			2241 325	34384 7730	1551 225	23798 5350	1724 250	26422 5940	
3.4 0.134	RX			2068 300	31716 7130	1379 200	21174 4760	1379 200	21174 4760	
3.2 0.126	RX			1896 275	29092 6540	1207 175	18504 4160	1207 175	18504 4160	
3.0 0.118	RX			1896 275	29092 6540	1034 150	15880 3570	1034 150	15880 3570	
2.8 0.110	RX			1724 250	26422 5940	862 125	13212 2970	1034 150	15880 3570	
2.6 0.102	RX			1600 232	24554 5520			NR	NR	

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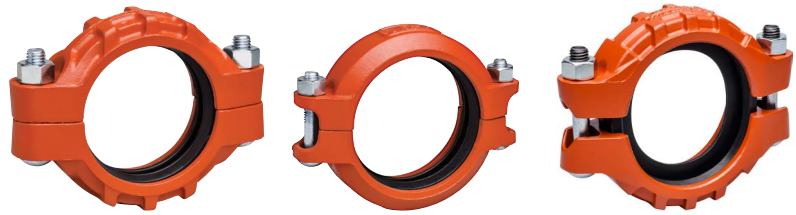
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## 1.1 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Style 77  
Flexible Coupling

Style 75  
Flexible Coupling

Style 177N  
QuickVic™ Flexible Coupling

Size		Pipe Wall Thickness		Grooving Method Std,C,RX	Style 77		Style 75		Style 177N	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches	Maximum Working Pressure kPa psi		Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	
DN150 6	168.3 6.625	11.0 0.433	C	5171 750	115208 25900	3103 450	69392 15600	3447 500	76954 17300	
		7.1 0.280	Std,C	5171 750	115208 25900	3103 450	69392 15600	3447 500	76954 17300	
		7.1 0.280	C	3447 500	76954 17300	2068 300	46262 10400	3447 500	76954 17300	
		5.0 0.197	Std	2241 325	50264 11300	1379 200	30692 6900	2068 300	46262 10400	
		4.5 0.177	Std	1896 275	42170 9480	1207 175	26868 6040	1724 250	38344 8620	
		4.0 0.157	Std	1600 232	35586 8000	1034 150	23042 5180	1379 200	30692 6900	
		3.2 0.126	RX	1372 199	30514 6860	689 100	15346 3450	827 120	18416 4140	
		3.0 0.118	RX	1034 150	23042 5180	517 75	11520 2590	689 100	15346 3450	
DN200 8	219.1 8.625	12.5 0.492	C	4137 600	156132 35100	3103 450	116988 26300	2758 400	104088 23400	
		8.0 0.315	Std,C	2586 375	97860 22000	2068 300	78288 17600	2758 400	104088 23400	
		6.5 0.256	Std,C	2068 300	78288 17600	1551 225	58716 13200	2068 300	78288 17600	
		6.3 0.248	Std,C	1896 275	71616 16100	1379 200	52044 11700	1896 275	71616 16100	
		5.0 0.197	Std	1379 200	52044 11700	862 125	32516 7310	1379 200	52044 11700	
		4.0 0.157	Std	862 125	32516 7310	517 75	19528 4390	862 125	32516 7310	
		3.6 0.142	RX	689 100	26022 5850	517 75	19528 4390	689 100	26022 5850	
		3.2 0.126	RX	689 100	26022 5850	345 50	13034 2930	689 100	26022 5850	
		3.0 0.118	RX	517 75	19528 4390	345 50	13034 2930	517 75	19528 4390	

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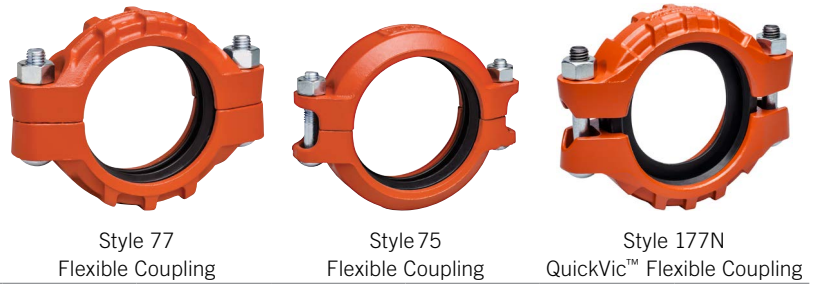
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- Performance data is for ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 - 12.5mm/0.063-0.429", depending on pipe size.



## 1.1 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Size		Pipe Wall Thickness	Grooving Method Std,C,RX	Style 77		Style 75		Style 177N	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches		Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf	Maximum Working Pressure kPa psi	Maximum End Load N lbf
DN250 10	273.0 10.750	14.2 0.559	C	4137 600	242428 54500	-	-	-	-
		12.5 0.492	C	4137 600	242428 54500	-	-	-	-
		10.0 0.394	C	4137 600	242428 54500	-	-	-	-
		6.3 0.248	Std,C	1600 232	93858 21100	-	-	-	-
		4.0 0.157	RX	689 100	40390 9080	-	-	-	-
		3.6 0.142	RX	517 75	30292 6810	-	-	-	-
		12.5 0.492	C	4137 600	342514 77000	-	-	-	-
DN300 12	323.9 12.750	10.0 0.394	C	4137 600	342514 77000	-	-	-	-
		7.1 0.280	Std,C	1724 250	142344 32000	-	-	-	-
		5.0 0.197	RX	1034 150	85406 19200	-	-	-	-
		4.5 0.177	RX	862 125	71172 16000	-	-	-	-
		4.0 0.157	RX	517 75	42614 9580	-	-	-	-

- = Sizes not available

NR = Not rated. Contact Victaulic for mor information.

RX = Roll Set for light wall stainless steel pipe parked 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 ISO Types 304/304L and 316/316L stainless steel pipe with wall thicknesses from 1.6 - 12.5mm/0.063-0.429", depending on pipe size.

## 1.1 PERFORMANCE (CONTINUED)

### Performance on ISO Wall Thicknesses



Size		Pipe Wall Thickness	Grooving Method	Style W89	
Nominal DN inches	Actual Outside Diameter mm inches	Nominal mm inches	Std,C,RWX	Maximum Working Pressure kPa psi	Maximum End Load N lbs
DN350 14	355.6 14.000	4.0 0.157	RWX	2517 365	251324 56500
DN350 14	355.6 14.000	3.0 0.120	RWX	1600 232	159246 35800
DN400 16	406.4 16.000	4.0 0.157	RWX	2517 365	326944 73500
DN400 16	406.4 16.000	3.0 0.120	RWX	1600 232	207732 46700

– = Sizes not available

NR = Not rated. Contact Victaulic for more information.

RWX = Roll Set for light wall stainless steel pipe marked with the prefix "RWX" or "RWQX"

#### 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/0.063-0.429", depending on pipe size.

## 2.0 NOTIFICATIONS

### WARNING



- Read and understand all instructions before attempting to install any Victaulic piping 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, and foot protection.
- It is the system designer's responsibility to verify suitability of stainless steel components for use with the intended fluid media within the piping system and external environment.
- The material specifier shall evaluate the effect of chemical composition, pH level, operating temperature, chloride level, oxygen level, and flow rate on stainless steel components to confirm system life will be acceptable for the intended service.
- 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 compromise system integrity or cause system failure, resulting 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/107V	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](#)
- [06.33 Victaulic® QuickVic™ Rigid Coupling Style 107V](#)
- [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](#)
- [24.01: Victaulic® Pipe Preparation Tool Specifications](#)

**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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