Pressure Ratings and End Loads for Victaulic Couplings on Steel Pipe

Style 07 Zero-Flex Rigid Coupling

Style 77 Flexible Coupling

Style 741 Vic-Flange® Adapter

Pressure Ratings for Styles 07, 77 & 741

Pipe Size				Style 07 – Maximum				Style 77 – Maximum				Style 741 – Maximum			
				Cut Grooved		Roll Grooved		Cut Grooved		Roll Grooved		Cut Grooved		Roll Grooved	
Nominal Diameter In./mm	Actual Out. Dia. In./mm	Pipe Wall Thick.[4] Inches/mm	Pipe Sched. [5]	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N
3/4 20	1.050 26,9	0.154 3,91	80	– –	– –	– –	– –	1,000 6900	865 3850	– –	– –	– –	– –	– –	– –
		0.113 2,87	40	– –	– –	– –	– –	1,000 6900	865 3850	1,000 6900	865 3850	– –	– –	– –	– –
		0.083 2,11	10	– –	– –	– –	– –	– –	– –	750 5175	650 2895	– –	– –	– –	– –
		0.065 1,65	5	– –	– –	– –	– –	– –	– –	500 3450	440 3033	– –	– –	– –	– –
1 25	1.315 33,7	0.179 4,55	80	750 5175	650 2890	– –	– –	1,000 6900	1,360 6050	– –	– –	– –	– –	– –	– –
		0.133 3,38	40	750 5175	650 2890	750 5175	650 2890	1,000 6900	1,360 6050	1,000 6900	1,360 6050	– –	– –	– –	– –
		0.109 2,77	10	– –	– –	750 5175	650 2890	– –	– –	750 5175	1,020 4540	– –	– –	– –	– –
		0.065 1,65	5	– –	– –	750 5175	650 2890	– –	– –	500 3450	680 3030	– –	– –	– –	– –
1 1/4 32	1.660 42,4	0.191 4,85	80	750 5175	1,620 7210	– –	– –	1,000 6900	2,160 9610	– –	– –	– –	– –	– –	– –
		0.140 3,56	40	750 5175	1,620 7210	750 5175	1,620 7210	1,000 6900	2,160 9610	1,000 6900	2,160 9610	– –	– –	– –	– –
		0.109 2,77	10	– –	– –	750 5175	1,620 7210	– –	– –	750 5175	1,620 7210	– –	– –	– –	– –
		0.065 1,65	5	– –	– –	750 5175	1,620 7210	– –	– –	500 3450	1,080 4810	– –	– –	– –	– –
1 1/2 40	1.900 48,3	0.200 5,08	80	750 5175	2,130 9480	– –	– –	1,000 6900	2,835 12615	– –	– –	– –	– –	– –	– –
		0.145 3,56	40	750 5175	2,130 9480	750 5175	21,30 9480	1,000 6900	2,835 12615	1,000 6900	2,835 12615	– –	– –	– –	– –
		0.109 2,77	10	– –	– –	750 5175	2,130 9480	– –	– –	750 5175	2,130 9480	– –	– –	– –	– –
		0.065 1,65	5	– –	– –	500 3450	1,420 6320	– –	– –	500 3450	1,420 6320	– –	– –	– –	– –
2 50	2.375 60,3	0.218 5,54	80	750 5175	3,320 14775	– –	– –	1,000 6900	4,430 19715	– –	– –	300 2065	1,330 5920	– –	– –
		0.154 3,91	40	750 5175	3,320 14775	750 5175	3,320 14775	1,000 6900	4,430 19715	1,000 6900	4,430 19715	300 2065	1,330 5920	300 2065	1,330 5920
		0.109 2,77	10	– –	– –	750 5175	3,320 14775	– –	– –	750 5175	3,320 14775	– –	– –	250 1725	1,105 4915
		0.065 1,65	5	– –	– –	500 3450	2,215 9860	– –	– –	500 3450	2,215 9860	– –	– –	200 1375	885 3940

Table continued on page 2. See page 12 for important notes.

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Pressure Ratings for Styles 07, 77 & 741

Pipe Size				Style 07 – Maximum				Style 77 – Maximum				Style 741 – Maximum			
				Cut Grooved		Roll Grooved		Cut Grooved		Roll Grooved		Cut Grooved		Roll Grooved	
Nominal Diameter In./mm	Actual Out. Dia. In./mm	Pipe Wall Thick.[4] Inches/mm	Pipe Sched. [5]	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N
$2^1/_2$ 65	2.875 73,0	0.276 7,01	80	750 5175	4,875 21695	– –	– –	1,000 6900	6,490 28880	– –	– –	300 2065	1,950 8680	– –	– –
		0.203 5,16	40	750 5175	4,875 21695	750 5175	4,875 21695	1,000 6900	6,490 28880	1,000 6900	6,490 28880	300 2065	1,950 8680	300 2065	1,950 8680
		0.120 3,05	10	– –	– –	600 4130	3,900 17355	– –	– –	600 4130	3,900 17355	– –	– –	250 1725	1,620 7210
		0.083 2,11	5	– –	– –	500 3450	3,245 14440	– –	– –	500 3450	3,245 14440	– –	– –	200 1375	1,300 5785
76,1 mm	3.000 76,1	0.250 6,35	–	– –	– –	– –	– –	1,000 6900	7,070 31460	– –	– –	300 2065	2,120 9435	– –	– –
		0.200 5,08	–	– –	– –	– –	– –	1,000 6900	7,070 31460	1,000 6900	7,070 31460	300 2065	2,120 9435	– –	– –
		0.150 3,81	–	– –	– –	– –	– –	– –	– –	600 4130	4,240 18870	– –	– –	200 1375	1,415 6300
3 80	3.500 88,9	0.300 7,62	80	750 5175	7,215 32105	750 5175	7,215 32105	1,000 6900	9,620 42810	1,000 6900	9,620 42810	300 2065	2,885 12840	300 2065	2,885 12840
		0.216 5,49	40	750 5175	7,215 32105	750 5175	7,215 32105	1,000 6900	9,620 42810	1,000 6900	9,620 42810	300 2065	2,885 12840	300 2065	2,885 12840
		0.120 3,05	10	– –	– –	600 4130	5,760 25630	– –	– –	600 4130	5,760 25630	– –	– –	250 1725	2,400 10680
		0.083 2,11	5	– –	– –	500 3450	4,800 21360	– –	– –	500 3450	4,800 21360	– –	– –	200 1375	1,925 8570
$3^1/_2$ 90	4.000 101,6	0.318 8,08	80	– –	– –	– –	– –	1,000 6900	12,565 55915	1,000 6900	12,565 55915	– –	– –	– –	– –
		0.226 5,74	40	– –	– –	– –	– –	1,000 6900	12,565 55915	1,000 6900	12,565 55915	– –	– –	– –	– –
		0.120 3,05	10	– –	– –	– –	– –	– –	– –	600 4130	7,540 33555	– –	– –	– –	– –
		0.083 2,11	5	– –	– –	– –	– –	– –	– –	400 2750	5,025 22360	– –	– –	– –	– –
4 100	4.500 114,3	0.337 8,56	80	750 5175	11,930 53065	750 5175	11,930 53065	1,000 6900	15,900 70755	1,000 6900	15,900 70755	300 2065	4,770 21230	300 2065	4,770 21230
		0.237 6,02	40	750 5175	11,930 53065	750 5175	11,930 53065	1,000 6900	15, 900 70755	1,000 6900	15,900 70755	300 2065	4,770 21230	300 2065	4,770 21230
		0.120 3,05	10	– –	– –	600 4130	9,540 42455	– –	– –	600 4130	9, 540 42455	– –	– –	250 1725	3,975 17690
		0.083 2,11	5	– –	– –	400 2750	6,360 28300	– –	– –	400 2750	6,360 28300	– –	– –	200 1375	3,180 14150
5 125	5,563 141,3	0.375 9,53	80	750 5175	18,225 81100	750 5175	18,225 81100	1,000 6900	24,300 108135	1,000 6900	24,300 108135	300 2065	7,290 32440	300 2065	7,290 32440
		0.258 6,55	40	750 5175	18,225 81100	750 5175	18,225 81100	1,000 6900	24,300 108135	1,000 6900	24,300 108135	300 2065	7,290 32440	300 2065	7,290 32440
		0.134 3,40	10	– –	– –	450 3100	10,935 48660	– –	– –	500 3450	12,000 53400	– –	– –	250 1725	6,075 27035
		0.109 2,77	5	– –	– –	350 2410	8,500 37825	– –	– –	350 2410	8,500 37825	– –	– –	200 1375	4,850 21585
6 150	6.625 168,3	0.432 10,97	80	700 4825	24,130 107380	– –	– –	1,000 6900	34,470 153390	– –	– –	300 2065	10,350 46060	– –	– –
		0.280 7,11	40	700 4825	24,130 107380	700 4825	24,130 107380	1,000 6900	34,470 153390	1,000 6900	34,470 153390	300 2065	10,350 46060	300 2065	10,350 46060
		0.134 3,40	10	– –	– –	500 3450	17,250 76750	– –	– –	450 3100	15,525 69085	– –	– –	250 1725	8,625 38380
		0.109 2,77	5	– –	– –	350 2410	12,000 53400	– –	– –	350 2410	12,000 53400	– –	– –	200 1375	6,900 30705
165,1 mm	6,500 165,1	0.250 6,35	–	– –	– –	– –	– –	1,000 6900	33,185 147675	1,000 6900	33,185 147675	300 2065	9,960 44320	– –	– –
		0.200 5,08	–	– –	– –	– –	– –	– –	– –	400 2750	13,280 59095	300 2065	9,960 44320	300 2065	9,960 44320
		0.150 3,81	–	– –	– –	– –	– –	– –	– –	350 2410	11,620 51710	– –	– –	250 1725	8,300 36935
8 200	8.625 219,1	0.322 8,18	40	600 4130	35,000 155750	600 4130	35,000 155750	800 5500	46,740 207995	800 5500	46,740 207995	300 2065	17,500 77875	300 2065	17,500 77875
		0.277 7,04	30	600 4130	35,000 155750	600 4130	35,000 155750	700 4825	40,900 182005	600 4130	35,000 155750	300 2065	17,500 77875	300 2065	17,500 77875
		0.148 3,76	10	– –	– –	300 2065	17,500 77875	– –	– –	300 2065	17,500 77875	– –	– –	200 1375	11,680 51975
		0.109 2,77	5	– –	– –	250 1725	14,600 64970	– –	– –	250 1725	14,600 64970	– –	– –	200 1375	11,680 51975

Table continued on page 3. See page 12 for important notes.

Pressure Ratings for Styles 07, 77 & 741

Pipe Size				Style 07 – Maximum				Style 77 – Maximum				Style 741 – Maximum			
				Cut Grooved		Roll Grooved		Cut Grooved		Roll Grooved		Cut Grooved		Roll Grooved	
Nominal Diameter In./mm	Actual Out. Dia. In./mm	Pipe Wall Thick.[4] Inches/mm	Pipe Sched. [5]	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N
10 250	10.750 273,0	0.365 9,27	40	500 3450	45,400 202030	500 3450	45,400 202030	800 5500	73,280 326095	800 5500	73,280 326095	300 2065	27,200 121040	300 2065	27,200 121040
		0.307 7,80	30	500 3450	45,400 202030	500 3450	45,400 202030	700 4825	63,530 282710	600 4130	54,400 242080	300 2065	27,200 121040	300 2065	27,200 121040
		0.165 4,19	10	– –	– –	300 2065	27,200 121040	– –	– –	300 2065	27,200 121040	– –	– –	200 1375	18,160 80810
		0.134 3,40	5	– –	– –	250 1725	22,700 101015	– –	– –	250 1725	22,700 101015	– –	– –	200 1375	18,160 80810
12 300	12.750 323,9	0.375 9,53	STD	400 2750	51,000 226950	400 2750	51,000 226950	800 5500	102,000 453900	800 5500	102,000 453900	300 2065	38,300 170435	300 2065	38,300 170435
		0.330 8,38	30	400 2750	51,000 226950	400 2750	51,000 226950	800 5500	102,000 453900	500 3450	63,700 283465	300 2065	38,300 170435	250 1725	31,900 141955
		0.180 4,57	10	– –	– –	200 1375	25,500 113475	– –	– –	300 2065	38,300 170435	– –	– –	200 1375	25,500 113475
		0.156 3,96	5	– –	– –	125 860	25,500 113475	– –	– –	200 1375	25,500 113475	– –	– –	200 1375	25,500 113475
14 350	14.000 355,6	0.375 9,53	STD	250 1725	38,485 171180	250 1725	38,485 171180	300 2065	46,180 205500	300 2065	46,180 205500	250 1725	38,500 171325	250 1725	38,500 171325
		0.312 7,92	20	250 1725	38,485 171180	225 1550	34,635 154060	300 2065	46,180 205500	275 1900	42,350 188455	250 1725	38,500 171325	250 1725	38,500 171325
		0.250 6,35	10	– –	– –	200 1380	30,790 136945	– –	– –	250 1725	38,500 171325	– –	– –	250 1725	38,500 171325
		0.156 3,96	5	– –	– –	100 690	15,395 68470	– –	– –	125 860	19,250 85665	– –	– –	125 860	19,250 85665
15 375	15.000 381,0	0.375 9,53	–	– –	– –	– –	– –	300 2065	53,000 235850	300 2065	53,000 235850	– –	– –	– –	– –
16 400	16.000 406,4	0.375 9,53	STD	250 1725	50,265 223580	250 1725	50,265 223580	300 2065	60,320 268425	300 2065	60,320 268425	250 1725	50,250 223610	250 1725	50,250 223610
		0.312 7,92	20	250 1725	50,265 223580	225 1550	45,240 201225	300 2065	60,320 268425	275 1895	55,275 245975	250 1725	50,250 223610	250 1725	50,250 223610
		0.250 6,35	10	– –	– –	150 1035	30,160 134150	– –	– –	175 1200	35,175 156530	– –	– –	175 1200	35,175 156530
		0.165 4,19	5	– –	– –	75 515	15,080 67075	– –	– –	100 690	20,100 89445	– –	– –	100 690	20,100 89445
18 450	18.000 457,0	0.375 9,53	STD	250 1725	63,615 282970	250 1725	63,615 282970	300 2065	76,340 339715	300 2065	76,340 339715	250 1725	63,620 283110	250 1725	63,620 283110
		0.312 7,92	20	200 1380	50,895 226375	150 1035	38,170 169780	250 1725	63,620 283110	175 1200	44,450 197800	250 1725	63,620 283110	175 1200	44,450 197800
		0.250 6,35	10	– –	– –	75 515	19,085 84890	– –	– –	100 690	25,400 113030	– –	– –	100 690	25,400 113030
		0.188 4,78	–	– –	– –	50 345	12,725 56595	– –	– –	75 515	19,050 84775	– –	– –	75 515	19,050 84775
20 500	20.000 508,0	0.375 9,53	STD	250 1725	78,540 349345	250 1725	78,540 349345	300 2065	94,200 419190	300 2065	94,200 419190	250 1725	78,500 349325	250 1725	78,500 349325
		0.312 7,92	–	200 1380	62,830 279475	125 860	39,250 174660	250 1725	78,500 349325	125 860	39,250 174660	250 1725	78,500 349325	125 860	39,250 174660
		0.250 6,35	10	– –	– –	75 515	23,560 104805	– –	– –	100 690	31,400 139730	– –	– –	100 690	31,400 139730
		0.188 4,78	5	– –	– –	40 275	12,565 55895	– –	– –	50 345	15,700 69865	– –	– –	50 345	15,700 69865
22 550	22.000 559,0	0.375 9,53	STD	– –	– –	– –	– –	300 2065	114,000 507300	300 2065	114,000 507300	– –	– –	– –	– –
		0.312 7,92	–	– –	– –	– –	– –	250 1725	95,000 422750	250 1725	95,000 422750	– –	– –	– –	– –
		0.250 6,35	10	– –	– –	– –	– –	– –	– –	75 515	28,500 126825	– –	– –	– –	– –
		0.188 4,78	5	– –	– –	– –	– –	– –	– –	25 170	9500 42275	– –	– –	– –	– –
24 600	24,000 610,0	0.500 12,70	XS	250 1380	113,000 502850	– –	– –	300 2065	135,600 603645	– –	– –	250 1725	113,000 502850	– –	– –
		0.375 9,53	STD	250 1725	113,000 502850	250 1725	113,000 502850	250 1725	113,000 502850	250 1725	113,000 502850	250 1725	113,000 502850	250 1725	113,000 502850
		0.250 6,35	10	– –	– –	75 515	33,900 150855	– –	– –	75 515	33,900 150855	– –	– –	75 515	33,900 150855
		0.188 4,78	–	– –	– –	25 170	11,300 50285	– –	– –	25 170	11,300 50285	– –	– –	25 170	11,300 50285

Refer to notes on page 12.

Contact Victaulic for data on 26 - 48" (650 - 1200 mm) pipe.

Style 75 Flexible Coupling

Style 78 Snap-Joint® Coupling

Style 791 Vic-Boltless® Coupling

Pressure Ratings for Styles 75, 78 & 791

Pipe Size				Style 75 – Maximum				Style 78 – Maximum				Style 791 – Maximum			
				Cut Grooved		Roll Grooved		Cut Grooved		Roll Grooved		Cut Grooved		Roll Grooved	
Nominal Diameter In./mm	Actual Out. Dia. In./mm	Pipe Wall Thick.[4] Inches/mm	Sched. [5]	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N
1 25	1.315 33,7	0.179 4,55	80	– –	– –	– –	– –	300 2065	410 1825	– –	– –	– –	– –	– –	– –
		0.133 3,38	40	– –	– –	– –	– –	300 2065	410 1825	300 2065	410 1825	– –	– –	– –	– –
		0.109 2,77	10	– –	– –	– –	– –	– –	– –	300 2065	410 1825	– –	– –	– –	– –
		0.065 1,65	5	– –	– –	– –	– –	– –	– –	300 2065	410 1825	– –	– –	– –	– –
$1^1/_4$ 32	1.660 42,4	0.191 4,85	80	– –	– –	– –	– –	300 2065	650 2890	– –	– –	– –	– –	– –	– –
		0.140 3,56	40	– –	– –	– –	– –	300 2065	650 2890	300 2065	650 2890	– –	– –	– –	– –
		0.109 2,77	10	– –	– –	– –	– –	– –	– –	300 2065	650 2890	– –	– –	– –	– –
		0.065 1,65	5	– –	– –	– –	– –	– –	– –	300 2065	650 2890	– –	– –	– –	– –
$1^1/_2$ 40	1.900 48,3	0.200 5,08	80	500 3450	1,420 6320	– –	– –	300 2065	850 3780	– –	– –	– –	– –	– –	– –
		0.145 3,56	40	500 3450	1,420 6320	500 3450	1,420 6320	300 2065	850 3780	300 2065	850 3780	– –	– –	– –	– –
		0.109 2,77	10	– –	– –	500 3450	1,420 6320	– –	– –	300 2065	850 3780	– –	– –	– –	– –
		0.065 1,65	5	– –	– –	500 3450	1,420 6320	– –	– –	300 2065	850 3780	– –	– –	– –	– –
2 50	2.375 60,3	0.218 5,54	80	500 3450	2,215 9855	– –	– –	300 2065	1,330 5920	– –	– –	700 4825	3,100 13795	– –	– –
		0.154 3,91	40	500 3450	2,215 9855	500 3450	2,215 9855	300 2065	1,330 5920	300 2065	1,330 5920	700 4825	3,100 13795	700 4825	3,100 13795
		0.109 2,77	10	– –	– –	500 3450	2,215 9855	– –	– –	300 2065	1,330 5920	– –	– –	550 3790	2,435 10835
		0.065 1,65	5	– –	– –	500 3450	2,215 9855	– –	– –	300 2065	1,330 5920	– –	– –	500 3450	2,215 9855
$2^1/_2$ 65	2.875 73,0	0.276 7,01	80	500 3450	3,245 14440	– –	– –	300 2065	1,950 8680	– –	– –	700 4825	4,540 20200	– –	– –
		0.203 5,16	40	500 3450	3,245 14440	500 3450	3,245 14440	300 2065	1,950 8680	300 2065	1,950 8680	700 4825	4,540 20200	700 4825	4,540 20200
		0.120 3,05	10	– –	– –	500 3450	3,245 14440	– –	– –	300 2065	1,950 8680	– –	– –	550 3790	3,570 15885
		0.083 2,11	5	– –	– –	500 3450	3,245 14440	– –	– –	300 2065	1,950 8680	– –	– –	500 3450	3,245 14440
76,1 mm	3.000 76,1	0.250 6,35	–	– –	– –	– –	– –	300 2065	2,120 9435	– –	– –	– –	– –	– –	– –
		0.200 5,08	–	– –	– –	– –	– –	300 2065	2,120 9435	300 2065	2,120 9435	– –	– –	– –	– –
		0.150 3,81	–	– –	– –	– –	– –	– –	– –	250 1725	1,765 7855	– –	– –	– –	– –

Table continued on page 5.

Pressure Ratings for Styles 75, 78 & 791

Pipe Size				Style 75 – Maximum				Style 78 – Maximum				Style 791 – Maximum			
				Cut Grooved		Roll Grooved		Cut Grooved		Roll Grooved		Cut Grooved		Roll Grooved	
Nominal Diameter In./mm	Actual Out. Dia. In./mm	Pipe Wall Thick.[4] Inches/mm	Sched. [5]	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N
3 80	3.500 88,9	0.300 7,62	80	500 3450	4,800 21360	500 3450	6,300 28035	300 2065	2,885 12840	300 2065	2,885 12840	700 4825	6,730 29950	700 4825	6,730 29950
		0.216 5,49	40	500 3450	4,800 21360	500 3450	4,800 21360	300 2065	2,885 12840	300 2065	2,885 12840	700 4825	6,730 29950	700 4825	6,730 29950
		0.120 3,05	10	– –	– –	500 3450	4,800 21360	– –	– –	300 2065	2,885 12840	– –	– –	550 3790	5,290 23540
		0.083 2,11	5	– –	– –	500 3450	4,800 21360	– –	– –	300 2065	2,885 12840	– –	– –	400 2750	3,850 17130
3 1/2 90	4.000 101,6	0.318 8,08	80	500 3450	6,300 28035	500 3450	6,300 28035	– –	– –	– –	– –	– –	– –	– –	– –
		0.226 5,74	40	500 3450	6,300 28035	500 3450	6,300 28035	– –	– –	– –	– –	– –	– –	– –	– –
		0.120 3,05	10	– –	– –	500 3450	6,300 28035	– –	– –	– –	– –	– –	– –	– –	– –
		0.083 2,11	5	– –	– –	400 2750	5,025 22360	– –	– –	– –	– –	– –	– –	– –	– –
4 100	4.500 114,3	0.337 8,56	80	500 3450	7,950 35380	500 3450	7,950 35380	300 2065	47,70 21230	300 2065	4,770 21230	700 4825	11,930 53090	700 4825	11,930 53090
		0.237 6,02	40	500 3450	7,950 35380	500 3450	7,950 35380	300 2065	4,770 21230	300 2065	4,770 21230	700 4825	11,930 53090	700 4825	11,930 53090
		0.120 3,05	10	– –	– –	500 3450	7,950 35380	– –	– –	300 2065	4,770 21230	– –	– –	550 3790	8,740 38895
		0.083 2,11	5	– –	– –	400 2750	6,360 28300	– –	– –	300 2065	4,770 21230	– –	– –	400 2750	6,360 28300
4 1/2 120	5.000 127,0	0.247 6,30	–	450 3100	8,820 39250	450 3100	8,820 39250	– –	– –	– –	– –	– –	– –	– –	– –
		0.120 3,05	–	– –	– –	450 3100	8,820 39250	– –	– –	– –	– –	– –	– –	– –	– –
		0.095 2,40	–	– –	– –	400 2750	7,850 34935	– –	– –	– –	– –	– –	– –	– –	– –
5 125	5,563 141,3	0.375 9,53	80	450 3100	10,935 48660	450 3100	10,935 48660	300 2065	7,290 32440	300 2065	7,290 32440	– –	– –	– –	– –
		0.258 6,55	40	450 3100	10,935 48660	450 3100	10,935 48660	300 2065	7,290 32440	300 2065	7,290 32440	– –	– –	– –	– –
		0.134 3,40	10	– –	– –	450 3100	10,935 48660	– –	– –	300 2065	7,290 32440	– –	– –	– –	– –
		0.109 2,77	5	– –	– –	350 2410	8,500 37825	– –	– –	300 2065	7,290 32440	– –	– –	– –	– –
139,7 mm	5.500 139,7	0.250 6,35	–	450 3100	10,665 47460	450 3100	10,665 47460	– –	– –	– –	– –	– –	– –	– –	– –
		0.200 5,08	–	– –	– –	400 2750	9,500 42275	– –	– –	– –	– –	– –	– –	– –	– –
		0.150 3,81	–	– –	– –	350 2410	8,300 36935	– –	– –	– –	– –	– –	– –	– –	– –
152,4 mm	6.000 152,4	0.250 6,35	–	450 3100	12,735 56670	450 3100	12,735 56670	– –	– –	– –	– –	– –	– –	– –	– –
		0.200 5,08	–	– –	– –	400 2750	11,300 50285	– –	– –	– –	– –	– –	– –	– –	– –
		0.150 3,81	–	– –	– –	350 2410	9,890 44010	– –	– –	– –	– –	– –	– –	– –	– –
6 150	6.625 168,3	0.432 10,97	80	450 3100	15,525 69085	– –	– –	300 2065	10,350 46060	– –	– –	600 4130	20,680 92025	– –	– –
		0.280 7,11	40	450 3100	15,525 69085	450 3100	15,525 69085	300 2065	10,350 46060	300 2065	10,350 46060	600 4130	20,680 92025	600 4130	20,680 92025
		0.134 3,40	10	– –	– –	450 3100	15,525 69085	– –	– –	300 2065	10,350 46060	– –	– –	500 3450	17,225 76650
		0.109 2,77	5	– –	– –	350 2410	12,000 53400	– –	– –	300 2065	10,350 46060	– –	– –	350 2410	12,000 53400
165,1 mm	6,500 165,1	0.250 6,35	–	450 3100	14,940 66485	450 3100	14,940 66485	300 2065	9,960 44320	– –	– –	– –	– –	– –	– –
		0.200 5,08	–	– –	– –	400 2750	13,280 59095	– –	– –	300 2065	9,960 44320	– –	– –	– –	– –
		0.150 3,81	–	– –	– –	350 2410	11,620 51710	– –	– –	300 2065	9,960 44320	– –	– –	– –	– –
203,2 mm	8.000 203,2	0.250 6,35	–	450 3100	22,635 100725	450 3100	22,635 100725	– –	– –	– –	– –	– –	– –	– –	– –
		0.200 5,08	–	– –	– –	200 1375	10,060 44765	– –	– –	– –	– –	– –	– –	– –	– –

Table continued on page 6.

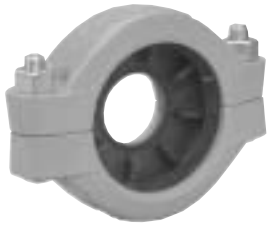
Pressure Ratings for Styles 75, 78 & 791

Pipe Size				Style 75 – Maximum				Style 78 – Maximum				Style 791 – Maximum			
				Cut Grooved		Roll Grooved		Cut Grooved		Roll Grooved		Cut Grooved		Roll Grooved	
Nominal Diameter In./mm	Actual Out. Dia. In./mm	Pipe Wall Thick.[4] Inches/mm	Sched. [5]	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N	Work. Press. [6] PSI/kPa	End Load [7] Lbs./N
8 200	8.625 219,1	0.322 8,18	40	450 3100	26,280 116945	450 3100	26,280 116945	300 2065	17,500 77875	– –	– –	500 3450	29,200 129940	500 3450	29,200 129940
		0.277 7,04	30	450 3100	26,280 116945	450 3100	26,280 116945	300 2065	17,500 77875	300 2065	17,500 77875	500 3450	29,200 129940	500 3450	29,200 129940
		0.148 3,76	10	– –	– –	300 2065	17,500 77875	– –	– –	300 2065	17,500 77875	– –	– –	300 2065	17,500 77875
		0.109 2,77	5	– –	– –	250 1725	14,600 64970	– –	– –	250 1725	17,500 77875	– –	– –	250 1725	14,600 64970
254,0 mm	10.000 254,0	0.250 6,35	40	350 2410	27,500 122375	350 2410	27,500 122375	– –	– –	– –	– –	– –	– –	– –	– –
304,8 mm	12.000 304,8	0.250 6,35	–	350 2410	39,500 175775	350 2410	39,500 175775	– –	– –	– –	– –	– –	– –	– –	– –

Refer to notes on page 12.

SAFETY CAUTION CONCRETE PUMPING SERVICE: When used in concrete pumping. Style 78 couplings must be used within the design parameters listed. It is important to note that Maximum Joint Working Pressure must include shockload. Style 78 couplings and pipe used in concrete pumping must always be in functional condition and be free of concrete and foreign material in the pipe grooves and the keys and gasket cavity of the couplings. It should never be necessary to close coupling by hammering. If this is necessary, the coupling and grooved pipe ends should be reinspected for damage or dirty components which stop normal closure.

COUPLINGS ARE NOT DESIGNED FOR ECCENTRIC LOADINGS: Style 78 couplings are not recommended for use at the end of concrete pumping booms, or on vertical risers above 30 feet. Sound anchoring and lashing practices should always be employed.



Style 750 Reducing Coupling

Pressure Ratings for Style 750

Pipe Inches/millimeters			Style 750			
			Cut Grooved		Roll Grooved	
Nominal Coupling Size	Wall Thickness	Schedule	Max. Joint Work Press. [6] PSI/kPa	Max. Permissible End Load [7] Lbs./N	Max. Joint Work Press. [6] PSI/kPa	Max. Permissible End Load [7] Lbs./N
2 X 1$^1/_2$ 50 X 40	0.218 5,54	80	350 2410	1,000 4450	– –	– –
	0.154 3,91	40	350 2410	1,000 4450	350 2410	1,000 4450
	0.109 2,77	10	– –	– –	350 2410	1,000 4450
	0.065 1,65	5	– –	– –	350 2410	1,000 4450
2$^1/_2$ X 2 65 X 50	0.276 7,01	80	350 2410	1,550 6898	– –	– –
	0.203 5,16	40	350 2410	1,550 6898	350 2410	1,550 6900
	0.120 3,05	10	– –	– –	350 2410	1,550 6900
	0.083 2,11	5	– –	– –	350 2410	1,550 6900
3 X 2 80 X 50	0.300 7,62	80	350 2410	1,550 6898	– –	– –
	0.216 5,49	40	350 2410	1,550 6898	350 2410	1,550 6900
	0.120 3,05	10	– –	– –	350 2410	1,550 6900
	0.083 2,11	5	– –	– –	350 2410	1,550 6900
3 X 2$^1/_2$ 80 X 65	0.300 7,62	80	350 2410	2,275 10125	– –	– –
	0.216 5,49	40	350 2410	2,275 10125	350 2410	2,275 10125
	0.120 3,05	10	– –	– –	350 2410	2,275 10125
	0.083 2,11	5	– –	– –	350 2410	2,275 10125
4 X 2 100 X 50	0.337 8,56	80	350 2410	1,550 6898	350 2410	1,550 6900
	0.237 6,02	40	350 2410	1,550 6898	350 2410	1,550 6900
	0.120 3,05	10	– –	– –	350 2410	1,550 6900
	0.083 2,11	5	– –	– –	350 2410	1,550 6900
4 X 2$^1/_2$ 100 X 65	0.337 8,56	80	350 2410	2,275 10125	350 2410	2,275 10125
	0.237 6,02	40	350 2410	2,275 10125	350 2410	2,275 10125
	0.120 3,05	10	– –	– –	350 2410	2,275 10125
	0.083 2,11	5	– –	– –	350 2410	2,275 10125

Table continued on page 8.

Pressure Ratings for Style 750

Pipe Inches/millimeters			Style 750			
			Cut Grooved		Roll Grooved	
Nominal Coupling Size	Wall Thickness	Schedule	Max. Joint Work Press. [6] PSI/kPa	Max. Permissible End Load [7] Lbs./N	Max. Joint Work Press. [6] PSI/kPa	Max. Permissible End Load [7] Lbs./N
4 X 3 100 X 80	0.337 8,56	80	350 2410	3,365 14975	350 2410	3,365 14975
	0.237 6,02	40	350 2410	3,365 14975	350 2410	3,365 14975
	0.120 3,05	10	– –	– –	350 2410	3,365 14975
	0.083 2,11	5	– –	– –	350 2410	3,365 14975
5 X 4 125 X 100	0.375 9,53	80	350 2410	5,565 24765	350 2410	5,565 24765
	0.258 6,55	40	350 2410	5,565 24765	350 2410	5,565 24765
	0.134 3,40	10	– –	– –	350 2410	5,565 24765
	0.109 2,77	5	– –	– –	350 2410	5,565 24765
6 X 4 150 X 100	0.432 10,97	80	350 2410	5,565 24765	– –	– –
	0.280 7,11	40	350 2410	5,565 24765	350 2410	5,565 24765
	0.134 3,40	10	– –	– –	350 2410	5,565 24765
	0.109 2,77	5	– –	– –	350 2410	5,565 24765
6 X 5 150 X 125	0.432 10,97	80	350 2410	8,500 37825	– –	– –
	0.280 7,11	40	350 2410	8,500 37825	350 2410	8,500 37825
	0.134 3,40	10	– –	– –	350 2410	8,500 37825
	0.109 2,77	5	– –	– –	350 2410	8,500 37825
$6^1/_2$ X 4 165,1 X 100	0.250 6,35	–	350 2410	5,565 24765	350 2410	5,565 24765
	0.200 5,08	–	– –	– –	350 2410	5,565 24765
	0.150 3,81	–	– –	– –	350 2410	5,565 24765
8 X 6 200 X 150	0.322 8,18	40	350 2410	12,000 53400	350 2410	12,000 53400
	0.277 7,04	30	300 2065	12,000 53400	350 2410	12,000 53400
	0.148 3,76	10	– –	– –	350 2410	12,000 53400
	0.109 2,77	5	– –	– –	250 1725	8,625 38380
8 X $6^1/_2$ 200 X 165,1	0.322 8,18	40	350 2410	11,620 51710	350 2410	11,620 51710
	0.277 7,04	30	350 2410	11,620 51710	350 2410	11,620 51710
	0.148 3,75	10	– –	– –	350 2410	11,620 51710
	0.109 2,77	5	– –	– –	250 1725	8,300 36935

Refer to notes on page 12.

Style 72 Female Threaded Outlet Coupling

Style 72 Grooved Outlet Coupling

Pressure Ratings for Style 72

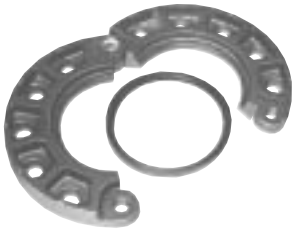
Nominal Coupling Size Inches/millimeters			Pipe Specifications		Style 72			
					Cut Grooved [A]		Roll Grooved [B]	
Run	FPT	Groove X MPT	Wall Thickness Inches/millimeters [4]	Sched. [5]	Max. Joint Work Press. [6] PSI/kPa	Max. Permis. End Load [7] Lbs./N	Max. Joint Work Press. [6] PSI/kPa	Max. Permis. End Load [7] Lbs./N
1 1/2 X 40 X	1/2 15	– –	0.200 5,08	80	500 3450	1,420 6319	– –	– –
	3/4 20	– –	0.145 3,68	40	500 3450	1,420 6319	500 3450	1,420 6320
	1 25	– –	0.109 2,77	10	– –	– –	500 3450	1,420 6320
	1 25	– –	0.065 1,65	5	– –	– –	500 3450	1,420 6320
2 X 50 X	1/2 15	– –	0.218 5,54	80	500 3450	2,215 9857	– –	– –
	3/4 20	– –	0.154 3,91	40	500 3450	2,215 9,857	500 3450	2,215 9860
	1 25	1 25	0.109 2,77	10	– –	– –	500 3450	2,215 9860
	1 25	– –	0.065 1,65	5	– –	– –	500 3450	2,215 9860
2 1/2 X 65 X	1/2 15	– –	0.276 7,01	80	500 3450	3,245 14440	– –	– –
	3/4 20	– –	0.203 5,16	40	500 3450	3,245 14440	500 3450	3,245 14440
	1 25	– –	0.120 3,05	10	– –	– –	500 3450	3,245 14440
	1 25	– –	0.083 2,11	5	– –	– –	500 3450	3,245 14440
3 X 80 X	3/4 20	– –	0.300 7,62	80	500 3450	4,800 21360	500 3450	4,800 21360
	– –	1 25	0.216 5,49	40	500 3450	4,800 21360	500 3450	4,800 21360
	– –	1 25	0.120 3,05	10	– –	– –	500 3450	4,800 21360
	– –	1 25	0.083 2,11	5	– –	– –	400 2750	4,800 21360
3 X 80 X	1 25	– –	0.300 7,62	80	500 3450	4,800 21360	500 3450	4,800 21360
	– –	1½ 40	0.216 5,49	40	500 3450	4,800 21360	500 3450	4,800 21360
	– –	1½ 40	0.120 3,05	10	– –	– –	500 3450	4,800 21360
	– –	1½ 40	0.083 2,11	5	– –	– –	500 3450	4,800 21360
4 X 100 X	3/4 20	– –	0.337 8,56	80	500 3450	7,950 35377	500 3450	7,950 35380
	– –	1 25	0.237 6,02	40	500 3450	7,950 35377	500 3450	7,950 35380
	– –	1 25	0.120 3,05	10	– –	– –	500 3450	7,950 35380
	– –	1 25	0.083 2,11	5	– –	– –	400 2750	6,360 28300

Table continued on page 10.

Pressure Ratings for Style 72

Nominal Coupling Size Inches/millimeters			Pipe Specifications		Style 72			
					Cut Grooved [A]		Roll Grooved [B]	
Run	FPT	Groove X MPT	Wall Thickness Inches/millimeters [4]	Sched. [5]	Max. Joint Work Press. [6] PSI/kPa	Max. Permis. End Load [7] Lbs./N	Max. Joint Work Press. [6] PSI/kPa	Max. Permis. End Load [7] Lbs./N
4 X 100 X	1 1/2 40	– –	0.337 8,56	80	400 2750	6,360 28302	400 2750	6,360 28300
	– –	2 50	0.237 6,02	40	400 2750	6,360 28302	400 2750	6,360 28300
	– –	2 50	0.120 3,05	10	– –	– –	400 2750	6,360 28300
	– –	2 50	0.083 2,11	5	– –	– –	400 2750	6,360 28300
6 X 150 X	1 25	– –	0.432 10,97	80	400 2750	13,800 61410	– –	– –
	1 1/2 40	– –	0.280 7,11	40	400 2750	13,800 61410	400 2750	13,800 61410
	– –	2 50	0.134 3,40	10	– –	– –	400 2750	13,800 61410
	– –	2 50	0.109 2,77	5	– –	– –	350 2410	12,000 53400
6 1/2 X 165,1 X	– –	2 50	0.250 6,35	–	400 2750	13,280 59095	400 2750	13,280 59095
	– –	2 50	0.200 5,08	–	– –	– –	400 2750	13,280 59095
	– –	2 50	0.150 3,81	–	– –	– –	350 2410	11,620 51710

Refer to notes on page 12.



Style 743 Vic-Flange® Adapter

Style HP-70 Rigid Coupling

Pressure Ratings for Styles 743 & HP-70

Pipe Size				Style 743 – Maximum				Style HP-70 – Maximum			
				Cut Grooved		Roll Grooved		Cut Grooved		Roll Grooved	
Nominal Diameter In./mm	Actual Out. Dia. In./mm	Pipe Wall Thickness[4] Inches/mm	Sched. [5]	Work Press. [6] PSI/kPa	End Load [7] Lbs./N	Work Press. [6] PSI/kPa	End Load [7] Lbs./N	Work Press. [6] PSI/kPa	End Load [7] Lbs./N	Work Press. [6] PSI/kPa	End Load [7] Lbs./N
2 50	2.375 60,3	0.218 5,54	80	720 4965	3,180 14150	– –	– –	1,000 6900	4,430 19715	– –	– –
		0.154 3,91	40	720 4965	3,180 14150	720 4965	3,180 14150	1,000 6900	4,430 19715	1,000 6900	4,430 19715
		0.109 2,77	10	– –	– –	720 4965	3,180 14150	– –	– –	750 5175	3,320 14775
		0.065 1,65	5	– –	– –	500 3450	2,215 9860	– –	– –	500 3450	2,215 9860
2 1/2 65	2.875 73,0	0.276 7,01	80	720 4965	4,670 20780	– –	– –	1,000 6900	6,490 28880	– –	– –
		0.203 5,16	40	720 4965	4,670 20780	720 4965	4,670 20780	1,000 6900	6,490 28880	1,000 6900	6,490 28880
		0.120 3,05	10	– –	– –	600 4130	3,900 17355	– –	– –	600 4130	3,900 17355
		0.083 2,11	5	– –	– –	500 3450	3,245 14440	– –	– –	500 3450	3,245 14440
3 80	3.500 88,9	0.300 7,62	80	720 4965	6,980 31060	720 4965	6,980 31060	1,000 6900	9,620 42810	1,000 6900	9,620 42810
		0.216 5,49	40	720 4965	6,980 31060	720 4965	6,980 31060	1,000 6900	9,620 42810	1,000 6900	9,620 42810
		0.120 3,05	10	– –	– –	600 4130	5,760 25630	– –	– –	600 4130	5,760 25630
		0.083 2,11	5	– –	– –	500 3450	4,800 21360	– –	– –	500 3450	4,800 21360
4 100	4.500 114,3	0.337 8,56	80	720 4965	11,445 50930	720 4965	11,445 50930	1,000 6900	15,900 70755	1,000 6900	15,900 70755
		0.237 6,02	40	720 4965	11,445 50930	720 4965	11,445 50930	1,000 6900	15,900 70755	1,000 6900	15,900 70755
		0.120 3,05	10	– –	– –	500 3450	7,950 35380	– –	– –	600 4130	9,540 42455
		0.083 2,11	5	– –	– –	400 2750	6,360 28300	– –	– –	400 2750	6,360 28300
5 125	5,563 141,3	0.375 9,53	80	720 4965	17,490 77830	720 4965	17,490 77830	– –	– –	– –	– –
		0.258 6,55	40	720 4965	17,490 77830	720 4965	17,490 77830	– –	– –	– –	– –
		0.134 3,40	10	– –	– –	450 3100	10,935 48660	– –	– –	– –	– –
		0.109 2,77	5	– –	– –	350 2410	8,500 37825	– –	– –	– –	– –
6 150	6.625 168,3	0.432 10,97	80	720 4965	24,805 110380	– –	– –	1,000 6900	34,470 153390	1,000 6900	34,470 153390
		0.280 7,11	40	720 4965	24,805 110380	720 4965	24,805 110380	1,000 6900	34,470 153390	1,000 6900	34,470 153390
		0.134 3,40	10	– –	– –	450 3100	15,525 69085	– –	– –	450 3100	15,525 69085
		0.109 2,77	5	– –	– –	350 2410	12,000 53400	– –	– –	400 2750	12,000 53400

Table continued on page 12.

Pressure Ratings for Styles 743 & HP-70

Pipe Size				Style 743 – Maximum				Style HP-70 – Maximum			
				Cut Grooved		Roll Grooved		Cut Grooved		Roll Grooved	
Nominal Diameter In./mm	Actual Out. Dia. In./mm	Pipe Wall Thickness[4] Inches/mm	Sched. [5]	Work Press. [6] PSI/kPa	End Load [7] Lbs./N	Work Press. [6] PSI/kPa	End Load [7] Lbs./N	Work Press. [6] PSI/kPa	End Load [7] Lbs./N	Work Press. [6] PSI/kPa	End Load [7] Lbs./N
8 200	8.625 219,1	0.322 8,18	40	720 4965	42,045 187100	720 4965	42,045 187100	800 5500	46,740 207995	800 5500	46740 207,995
		0.277 7,04	30	700 4825	40,900 182005	600 4130	35,000 155750	700 4825	40,900 182005	600 4130	35,000 155750
		0.148 3,76	10	– –	– –	300 2065	17,500 77875	– –	– –	300 2065	17,500 77875
		0.109 2,77	5	– –	– –	250 1725	14,600 64970	– –	– –	250 1725	14,600 64970
10 250	10.750 273,0	0.365 9,27	40	720 4965	65,315 290650	720 4965	65,315 290650	800 5500	72,640 323250	800 5500	72,640 323250
		0.307 7,80	30	700 4825	63,530 282710	600 4130	54,400 242080	700 4825	63,530 282710	600 4130	54,400 242080
		0.165 4,19	10	– –	– –	300 2065	27,200 121040	– –	– –	300 2065	27,200 121040
		0.134 3,40	5	– –	– –	250 1725	22,700 101015	– –	– –	250 1725	22,700 101015
12 300	12.750 323,9	0.375 9,53	STD	720 4965	91,880 408865	720 4965	91,880 408865	800 5500	102,000 453900	800 5500	102,000 453900
		0.330 8,38	30	700 4825	89,330 397520	500 3450	51,000 226950	800 5500	102,000 453900	500 3450	63,700 283465
		0.180 4,57	10	– –	– –	250 1725	31,900 141955	– –	– –	250 1725	31,900 141955
		0.156 3,96	5	– –	– –	200 1375	25,500 113475	– –	– –	200 1375	25,500 113475

Refer to notes below.

NOTES

A: Pressure Ratings and End Loads for cut grooved pipe are based upon tests on pipe prepared in accordance with Victaulic specifications.

B: Pressure Ratings and End Loads for roll grooved pipe are based upon tests on pipe prepared in accordance with Victaulic specifications using Victaulic Vic-Easy® Roll Grooving Tools. Use of other equipment may adversely affect joint performance.

4: Nominal pipe wall thickness. For data with other wall thicknesses contact Victaulic.

5: Pipe wall thickness schedule as established in ANSI Standard B 36, 10-70.

6: Maximum line pressure, including surge, to which a joint should be subjected. This figure provides a nominal safety factor of 3. Working pressure ratings are based on pipe prepared in accordance with Victaulic specifications.

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

7: Maximum end load from all internal and/or external forces, to which the joint should be subjected under working conditions.