

Victaulic® Coupling for HDPE Pipe

Style 995N



2 – 12" IPS &
63 – 315 mm ISO



14 – 20" IPS &
355 – 500 mm ISO

1.0 PRODUCT DESCRIPTION

Available Sizes

- 2 – 20" IPS
- 63 – 500 mm ISO

Pipe Material

- HDPE pipe conforming to ASTM D3035 and ASTM F714 (DR 7 - 32.5) or ISO 4427-2 (SDR 7.4 – 33)
- Contact Victaulic for other pipe materials

Maximum Working Pressure

- Meets or exceeds the pressure rating of the HDPE pipe

Operating Temperature

- Dependent upon pipe manufacturer rating and gasket selection
- Reference section 3.0 for gasket performance options
- Consult pipe manufacturer for pipe material performance limitations

Function

- Joins plain end polyethylene pipe

Pipe Preparation

- For use on plain end HDPE pipe

2.0 CERTIFICATIONS/LISTINGS



NOTES

- See [Publication 10.01](#): Victaulic Fire Protection Approval Reference Guide for details.
- See [Publication 02.06](#): Victaulic Potable Water Approvals ANSI/NSF for potable water approvals.

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

3.0 SPECIFICATIONS – MATERIALS

Housing:

Ductile iron conforming to ASTM A536, Grade 65-45-12.

Housing Coating: (specify choice)

- ☐ Standard: Orange coating.
- ☐ Optional: Galvanized and other coatings are available. Contact Victaulic for details.

Coupling Gasket: (specify choice¹)

☐ Grade “T” Nitrile

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

☐ Grade “E” EPDM

EPDM (Green color code). Temperature range –30°F to +230°F/–34°C to +110°C. May be specified for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL Classified in accordance with NSF/ANSI/CAN 61 for cold +73°F/+23°C and hot +180°F/+82°C potable water service and NSF/ANSI/CAN 372. NOT COMPATIBLE FOR USE WITH PETROLEUM SERVICES OR STEAM SERVICES.

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

NOTE

- The maximum temperature ratings shown exceed the temperature ratings for HDPE pipe. Consult individual pipe manufacturers for specific temperature

Hardware:

Bolts/Nuts: (specify choice²)

- ☐ Standard: 2 – 12"/63 – 315mm Carbon steel oval neck track bolts meeting the mechanical property requirements of ASTM A449 (imperial) and ISO 898-1 Class 9.8 (M10-M16) Class 8.8 (M20 and greater). Carbon steel hex nuts meeting the mechanical property requirements of ASTM A563 Grade B (imperial - heavy hex nuts) and ASTM A563M Class 9 (metric - hex nuts). Track bolts and hex nuts are zinc electroplated per ASTM B633 ZN/FE5, finish Type III (imperial) or Type II (metric). Track bolt threads are coated with a torque reducing lubricant. Hardened steel washers conforming to ASTM F436 Type 3 (weathering steel).
- ☐ Optional²: 2 – 12" Stainless steel oval neck track bolts meeting the mechanical property requirements of ASTM A193 Class 2, Grade B8M. Stainless steel heavy hex nuts meeting the mechanical property requirements of ASTM A194 Grade 8M Heavy Hex, with galling reducing coating. Hardened steel washers conforming to ASTM F436, Type 3 (weathering steel).
- ☐ Standard: 14 – 20"/355 – 500mm Carbon steel hex head bolts meeting the mechanical property requirements of ASTM A193 Grade B7 (imperial & metric). Carbon steel hex nuts meeting the mechanical property requirements of ASTM A194 Grade 2H (imperial & metric - heavy hex nuts). Hardened steel washers conforming to ASTM F436 Type 3 (weathering steel).
- ☐ Optional²: 14 – 20"/355 – 500 mm: Stainless steel hex head bolts meeting the mechanical property requirements of ASTM A193, Class 2 (316 stainless steel), Grade B8M. Stainless steel heavy hex nuts meeting the mechanical property requirements of ASTM A194 Grade 8M Heavy Hex, with galling reducing coating. Stainless steel washers conforming to ASME B18.21.1 and ASTM A666, Type 316, Annealed.

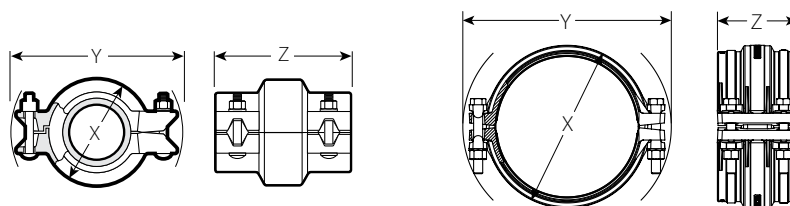
² Optional bolts/nuts available in imperial size only.

NOTE

- Contact Victaulic for alternate materials or lengths.

4.0 DIMENSIONS

Style 995N – IPS Standard



2" – 12" IPS

14 – 20" IPS

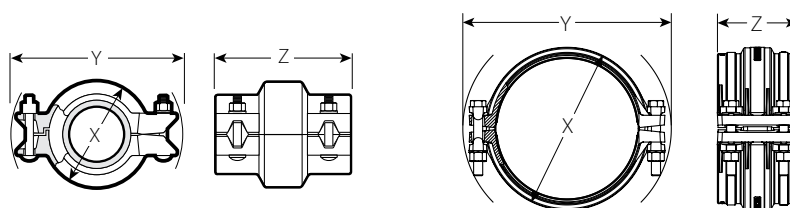
Size		No. Bolts Required	Bolt/Nut Size	Dimensions Joint Assembled			Approx. Weight (Each)
Nominal inches DN	Actual Outside Diameter inches mm			X inches mm	Y inches mm	Z inches mm	
2 50	2.375 60.3	2	½ x 3	3.34 85	6.25 159	3.63 92	4.0 1.8
3 80	3.500 88.9	4	½ x 3 ¼	4.58 116	7.15 182	4.56 116	8.2 3.7
4 100	4.500 114.3	4	½ x 3 ¼	5.88 149	8.25 210	5.75 146	12.5 5.7
5 125	5.563 141.3	4	⅝ x 4	6.94 176	10.19 259	5.88 149	15.7 7.1
6 150	6.625 168.3	4	⅝ x 4	8.00 203	11.13 283	5.88 149	16.4 7.4
8 200	8.625 219.1	4	⅝ x 4 ¼	10.50 267	13.50 343	6.00 152	26.9 12.0
10 250	10.750 273.0	4	¾ x 6 ¼	12.38 314	16.63 422	6.50 165	38.0 17.0
12 300	12.750 323.9	4	7/8 x 6 ½	14.38 365	18.75 476	7.00 178	47.8 21.5
14 350	14.000 355.6	4	1 x 7 ¾	16.50 473	21.63 549	8.58 218	84.6 38.4
16 400	16.000 406.4	4	1 x 7 ¾	18.63 473	23.75 603	9.00 229	100.0 45.4
18 450	18.000 457.0	4	1 x 7 ¾	20.38 518	26.00 660	9.50 241	125.0 56.5
20 500	20.000 508.0	4	1 x 7 ¾	22.38 568	27.75 705	10.000 254	140.0 63.5

NOTE

- 14 - 20" sizes with stainless steel hardware use 1 x 6 1/2 hex head bolt.

4.0 DIMENSIONS

Style 995N – IPS Standard



63 – 315mm ISO

350 – 500mm ISO

Size		No. Bolts Required	Bolt/Nut Size	Dimensions Joint Assembled			Approx. Weight (Each) lb kg
Nominal	Actual Outside Diameter			X inches mm	Y inches mm	Z inches mm	
mm	mm	Qty.	mm				
63	63.6	2	M12 x 76	3.47 88	6.38 162	3.63 92	3.7 1.7
90	90.9	4	M12 x 83	4.58 116	7.15 182	4.56 116	8.2 3.7
110	111.0	4	M12 x 83	5.71 145	8.25 210	5.75 146	12.5 5.7
125	126.2	4	M12 x 83	6.34 161	8.66 220	5.75 146	12.8 5.8
140	141.3	4	M12 x 102	6.93 176	10.20 259	5.87 149	15.6 7.1
160	161.5	4	M12 x 102	7.64 194	10.87 276	5.87 149	16.9 7.7
180	181.7	4	M12 x 102	8.54 217	11.93 303	5.87 149	19.4 8.8
200	201.8	4	M12 x 102	9.45 240	13.23 336	5.98 152	24.0 10.9
225	227.8	4	M12 x 102	10.43 265	13.58 345	5.98 152	26.2 11.9
250	252.3	4	M20 x 159	11.54 293	15.95 405	6.50 165	42.0 19.1
280	282.6	4	M20 x 159	12.64 321	16.93 430	6.50 165	45.5 20.7
315	317.9	4	M22 x 165	14.02 356	18.43 468	7.01 178	54.0 24.5
355	358.6	4	M24 x 197	16.50 419	21.63 549	8.58 218	84.6 38.4
400	403.6	4	M24 x 197	18.63 473	23.75 603	9.00 229	112.9 51.2
450	454.1	4	M24 x 197	20.63 524	25.75 654	9.50 241	129.5 58.5
500	504.5	4	M24 x 197	22.63 575	27.75 705	10.00 254	147.8 67.0

5.0 PERFORMANCE

Style 995N – IPS Standard

IPS Size		PE4710 HDPE Pipe DR ³							
Nominal		7		9		11		13.5	
		Pressure Rating	Allowable End Load	Pressure Rating	Allowable End Load	Pressure Rating	Allowable End Load	Pressure Rating	Allowable End Load
inches	inches mm	psi kpa	lbf N	psi kpa	lbf N	psi kpa	lbf N	psi kpa	lbf N
2	2.375 60.3	333 2295	1475 6560	250 1725	1110 4940	200 1380	885 3935	160 1100	710 3160
3	3.500 88.9	333 2295	3205 14255	250 1725	2405 10700	200 1380	1925 8565	160 1100	1540 6850
4	4.500 114.3	333 2295	5295 23555	250 1725	3975 17680	200 1380	3180 14145	160 1100	2545 11320
5	5.563 141.3	333 2295	8095 36010	250 1725	6075 27025	200 1380	4860 21620	160 1100	3890 17305
6	6.625 168.3	333 2295	11480 51065	250 1725	8620 38345	200 1380	6895 30670	160 1100	5515 24530
8	8.625 219.1	333 2295	19455 86540	250 1725	14605 64965	200 1380	11685 51975	160 1100	9350 41590
10	10.750 273.0	333 2295	30225 134450	250 1725	22690 100930	200 1380	18155 80755	160 1100	14520 64590
12	12.750 323.9	333 2295	42515 189115	250 1725	319220 141985	200 1380	25535 113585	160 1100	20430 90875
14	14.000 355.6	333 2295	51260 228015	250 1725	38485 171190	200 1380	30790 136960	160 1100	24630 109560
16	16.000 406.4	333 2295	66955 297830	250 1725	50265 223590	200 1380	40210 178865	160 1100	32170 143100
18	18.000 457.0	333 2295	84740 376940	250 1725	63615 282975	200 1380	508954 226390	160 1100	40715 181110
20	20.000 508.0	333 2295	104615 465350	250 1725	78540 1725	200 1380	62830 279480	160 1100	50265 223590

IPS Size		PE4710 HDPE Pipe DR ³							
Nominal		17		21		26		32.5	
		Pressure Rating	Allowable End Load	Pressure Rating	Allowable End Load	Pressure Rating	Allowable End Load	Pressure Rating	Allowable End Load
inches	inches mm	psi kpa	lbf N	psi kpa	lbf N	psi kpa	lbf N	psi kpa	lbf N
2	2.375 60.3	125 860	550 2470	100 690	445 1980	80 550	355 1580	63 435	280 1245
3	3.500 88.9	125 860	1205 5360	100 690	960 4270	80 550	770 3425	63 435	605 2690
4	4.500 114.3	125 860	1990 8850	100 690	1590 7075	80 550	1270 5650	63 435	1000 4450
5	5.563 141.3	125 860	3040 13525	100 690	2430 10810	80 550	1945 8650	63 435	1530 6805
6	6.625 168.3	125 860	4310 19170	100 690	3445 15325	80 550	2760 12275	63 435	2170 9655
8	8.625 219.1	125 860	7305 32495	100 690	5845 26000	80 550	4675 20795	63 435	3680 16370
10	10.750 273.0	125 860	113345 50465	100 690	9075 40370	80 550	7260 32295	63 435	5720 25445
12	12.750 323.9	125 860	15960 70995	100 690	12770 56805	80 550	10215 45440	63 435	8045 35785
14	14.000 355.6	125 860	19240 85585	100 690	15395 68480	80 550	12315 54780	63 435	9700 43150
16	16.000 406.4	125 860	25135 111805	100 690	20105 89430	80 550	16085 71550	63 435	126645 56335
18	18.000 457.0	125 860	31810 141500	100 690	25445 113185	80 550	20360 90565	63 435	16030 71305
20	20.000 508.0	125 860	39270 174680	100 690	31415 139740	80 550	25135 111805	63 435	19790 88030

³ HDPE pipe conforming to ASTM D3035 and F714 at 73°F/23°C. Reference plastic pipe manufacture data for derating factors at other temperatures.

NOTE

- Victaulic Coupling gaskets have been demonstrated to seal under full (29" of Hg/3.4 kPa [absolute]) vacuum requirements. Consult specific HDPE pipe manufacturer for their recommended limitations regarding maximum vacuum as well as the effects of temperature and pipe ovality.

5.1 PERFORMANCE

Style 995N – ISO Standard

ISO Size	PE100 HDPE Pipe SDR ⁴							
Nominal inches	7,4		9		11		13,6	
	Allowable Working Pressure	Allowable End Load	Allowable Working Pressure	Allowable End Load	Allowable Working Pressure	Allowable End Load	Allowable Working Pressure	Allowable End Load
	Bar kPa psi	N lbf	Bar kPa psi	N lbf	Bar kPa psi	N lbf	Bar kPa psi	N lbf
63	25 2500 363	7875 1770	20 2000 290	6295 1415	16 1600 232	5025 1130	12.5 1250 182	3960 890
75	25 2500 363	11165 2510	20 2000 290	8920 2005	16 1600 232	7140 1605	12.5 1250 182	5605 1260
90	25 2500 363	16080 3615	20 2000 290	12855 2890	16 1600 232	10275 2310	12.5 1250 182	8075 1815
110	25 2500 363	24000 5395	20 2000 290	19170 4310	16 1600 232	15345 3450	12.5 1250 182	12030 2705
125	25 2500 363	31005 6970	20 2000 290	24775 5570	16 1600 232	19815 4455	12.5 1250 182	15545 3495
140	25 2500 363	38875 8740	20 2000 290	31070 6985	16 1600 232	24845 5585	12.5 1250 182	19505 4385
160	25 2500 363	50800 11420	20 2000 290	40590 9125	16 1600 232	32470 7300	12.5 1250 182	25465 5725
180	25 2500 363	64300 14420	20 2000 290	51355 11545	16 1600 232	41080 9235	12.5 1250 182	32225 7245
200	25 2500 363	79335 17835	20 2000 290	63385 14250	16 1600 232	50710 11400	12.5 1250 182	39765 8940
225	25 2500 363	100440 22580	20 2000 290	80245 18040	16 1600 232	64190 14430	12.5 1250 182	50355 11320
250	25 2500 363	123995 27875	20 2000 290	99060 22270	16 1600 232	79245 17815	12.5 1250 182	62165 13975
280	25 2500 363	155555 34970	20 2000 290	124260 27935	16 1600 232	99420 22350	12.5 1250 182	77975 17530
315	25 2500 363	196855 44255	20 2000 290	157265 35355	16 1600 232	125820 28285	12.5 1250 182	98685 22185
355	25 2500 363	249970 56195	20 2000 290	199705 44895	16 1600 232	159760 35915	12.5 1250 182	125330 28175
400	25 2500 363	316400 71130	20 2000 290	252770 56825	16 1600 232	202215 45460	12.5 1250 182	158645 35665
450	25 2500 363	400450 90025	20 2000 290	319915 71920	16 1600 232	255930 57535	12.5 1250 182	200770 45135
500	25 2500 363	494375 111140	20 2000 290	394960 88790	16 1600 232	315955 71030	12.5 1250 182	247875 55725

⁴ HDPE pipe conforming to ISO 4427-2 at 68°F/20°C. Reference plastic pipe manufacture data for derating factors at other temperatures.

NOTE

- Victaulic Coupling gaskets have been demonstrated to seal under full (29" of Hg/3.4 kPa [absolute]) vacuum requirements. Consult specific HDPE pipe manufacturer for their recommended limitations regarding maximum vacuum as well as the effects of temperature and pipe ovality.

5.1 PERFORMANCE

Style 995N – ISO Standard

ISO Size	PE100 HDPE Pipe SDR ⁵							
Nominal inches	17		21		26		33	
	Allowable Working Pressure	Allowable End Load	Allowable Working Pressure	Allowable End Load	Allowable Working Pressure	Allowable End Load	Allowable Working Pressure	Allowable End Load
	Bar kPa psi	N lbf	Bar kPa psi	N lbf	Bar kPa psi	N lbf	Bar kPa psi	N lbf
63	10 1000 145	3135 705	8 800 116	2515 565	6 600 87	1890 425	5 500 73	1580 355
75	10 2500 363	4450 1000	8 800 116	3560 800	6 600 87	2670 600	5 500 73	2245 505
90	10 1000 145	6430 1445	8 800 116	5140 1155	6 600 87	3850 865	5 500 73	3225 725
110	10 2500 363	9585 2155	8 800 116	7675 1725	6 600 87	5760 1295	5 500 73	4825 1085
125	10 1000 145	12390 2785	8 800 116	9920 2230	6 600 87	7430 1670	5 500 73	6230 1400
140	10 2500 363	15525 3490	8 800 116	12435 2795	6 600 87	9320 2095	5 500 73	7830 1760
160	10 1000 145	20285 4560	8 800 116	16235 3650	6 600 87	12165 2735	5 500 73	10210 2295
180	10 2500 363	25690 5775	8 800 116	20550 4620	6 600 87	15415 3465	5 500 73	12920 2905
200	10 1000 145	31695 7125	8 800 116	25355 5700	6 600 87	19015 4275	5 500 73	15945 3585
225	10 2500 363	40125 9020	8 800 116	32095 7215	6 600 87	24065 5410	5 500 73	20195 4540
250	10 1000 145	49530 11135	8 800 116	39610 8905	6 600 87	29715 6680	5 500 73	24930 5605
280	10 2500 363	62140 13970	8 800 116	49710 11175	6 600 87	37275 8380	5 500 73	31370 7030
315	10 1000 145	78620 17675	8 800 116	62900 14140	6 600 87	47175 10605	5 500 73	39590 8900
355	10 2500 363	99840 22445	8 800 116	79870 17955	6 600 87	59920 13470	5 500 73	50265 11300
400	10 1000 145	126395 28415	8 800 116	101110 22730	6 600 87	75840 17050	5 500 73	63630 14305
450	10 2500 363	159960 35960	8 800 116	127975 28770	6 600 87	95970 21575	5 500 73	80535 18105
500	10 1000 145	197480 44395	8 800 116	157980 35515	6 600 87	118480 26635	5 500 73	99420 22350

⁵ HDPE pipe conforming to ISO 4427-2 at 68°F/20°C. Reference plastic pipe manufacture data for derating factors at other temperatures.

NOTE

- Victaulic Coupling gaskets have been demonstrated to seal under full (29" of Hg/3.4 kPa [absolute]) vacuum requirements. Consult specific HDPE pipe manufacturer for their recommended limitations regarding maximum vacuum as well as the effects of temperature and pipe ovality.

6.0 NOTIFICATIONS

**WARNING**



- Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Wear safety glasses, hardhat, and foot protection.

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

7.0 REFERENCE MATERIALS

- [I-900: Victaulic HDPE Products Installation and Assembly Manual](#)
- [05.01: Victaulic Gasket Selection Guide](#)
- [11.07: Victaulic Style 926 Mechanical-T Spigot Outlet](#)
- [19.07: Victaulic Style 905 Coupling for HDPE Pipe](#)
- [19.09: Victaulic® Coupling for Double Grooved Polyethylene Pipe](#)
- [19.10: Victaulic Style 907 Transition Coupling Carbon Steel to HDPE Pipe](#)
- [19.11: Victaulic HDPE Plain End Fittings](#)
- [19.12: Victaulic Style 904 Flange Adapter for HDPE-to-Flanged Pipe Submittal](#)
- [29.01: Victaulic Terms and Conditions/Warranty](#)
- [I-ENDCAP: Victaulic End Caps Installation Instructions](#)
- [IT-995N: Style 995N Coupling for Plain-End HDPE Pipe](#)

User Responsibility for Product Selection and Suitability

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

Installation

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

Warranty

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

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Note

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