

Victaulic® Carbon Steel Couplings and Grooved Fittings

51.01



1.0 PRODUCT DESCRIPTION

This product line consists of couplings and fittings manufactured from ASME code-compliant carbon steel material.

Style L07 and LW07 Rigid Couplings, Style L77 Flexible Coupling, and Grooved Fittings

Available Sizes

- Style L07 Rigid Coupling, Style L77 Flexible Coupling and OGS Fittings: 1 ½ – 12"/DN40 – DN300
- Style LW07 Rigid Coupling and AGS Fittings: 14 – 16"/DN350 – DN400

Pipe Material

- Carbon steel

Maximum Working Pressure

- Style L07 and Style LW07 Rigid Couplings: 750 psi/5171 kPa/52 bar on standard weight carbon steel pipe.
- Style L77 Flexible Couplings: 1000 psi/6895 kPa/69 bar.
- OGS and AGS Fittings: Pressure rating is equivalent to the pressure rating of the coupling used to install it (see section 5.0 for Style L07, Style LW07 and Style L77 pressure ratings).

Operating Temperature Range

- Dependent on housing and gasket selection from Section 3.0.

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

System No.		Location		Spec Section		Paragraph	
Submitted By		Date		Approved		Date	

1.0 PRODUCT DESCRIPTION (CONTINUED)

Pipe Preparation

- Style L07 and Style L77 couplings are exclusively for use with fittings, valves, accessories and pipe which feature ends formed with the Victaulic Original Groove System (OGS) groove profile. Cut or roll grooved in accordance with [publication 25.01](#): Victaulic Standard Groove Specification
- The Style LW07 coupling is exclusively for use with fittings, valves, accessories and pipe which feature ends formed with the Advanced Groove System (AGS) grooved profile. Cut or roll grooved in accordance with [publication 25.09](#): Victaulic Advanced Groove System (AGS) Roll Groove Specification
- All fittings less than 14"/DN350 are supplied with the Victaulic OGS groove. These fittings are exclusively for use with Victaulic couplings, valves, accessories and pipe which feature ends formed with the Victaulic OGS groove.
- All fittings 14"/DN350 or larger are supplied with the Victaulic AGS groove. These fittings are exclusively for use with Victaulic couplings, valves, accessories and pipe which feature ends formed with the Victaulic AGS groove.

Codes and Requirements

- In accordance with or conforms to all material requirements of ASME piping codes. Style L07, Style WL07, and Style L77 couplings also meet the design intent of the ASME piping codes.

NOTE

- Material Test Reports (MTRs) are available for all products. Please specify requirement at time of order.

2.0 CERTIFICATION/LISTINGS

Victaulic standard IPS couplings and grooved end fittings may be utilized on ASME B31.3 Piping Code applications within their published temperature and pressure parameters. For more information, contact Victaulic.

These products are registered in Canada in accordance with CSA B51, the Canadian Boiler, Pressure Vessel and Pressure Piping Code. Contact Victaulic for registered working pressures, temperatures and confirmation of the applicable CRN by Province or Territory.

Product designed and manufactured under the Victaulic Quality Management System, as certified by LPCB in accordance with ISO-9001:2015.

3.0 SPECIFICATIONS – MATERIAL

Housing: (specify choice)

Standard: Carbon steel conforming to ASTM SA352 Grade LCC for use on applications to –50°F/–46°C.

Optional: Carbon steel conforming to ASTM A216 Grade WCB for use on applications to –20°F/–29°C.

Fittings & Trunnion Fittings:

Carbon steel wall thickness is standard weight unless otherwise noted. All fittings are cast from ASTM SA352 Grade LCC or ASTM A216 Grade WCB, or fabricated from ASTM A420 WPL6 or ASTM A333 Grade 6 for code compliant applications.

Housing and Fitting Coating: (specify choice)

Standard: Orange enamel.

Optional: Hot dipped galvanized conforming to ASTM A123.

Optional: Contact Victaulic with your requirements for other coatings.

Gasket: (specify choice¹)

Grade "E" EPDM

EPDM (Green stripe color code). Temperature range –50°F to +230°F/–46°C to +110°C. May be specified for cold and hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL classified in accordance with ANSI/NSF 61 for cold +73°F/+23°C and hot +180°F/+82°C potable water service and ANSI/NSF 372. NOT COMPATIBLE FOR PETROLEUM SERVICES.

Grade "L" Silicone²

Silicone (Red gasket color code) Temperature range –50°F to +350°F/–46°C to +177°C. May be specified for dry heat, air without hydrocarbons to +350°F/+177°C and certain chemical services.

Grade "T" Nitrile

Nitrile (Orange stripe color code). Temperature range –20°F to +180°F/–29°C to +82°C. May be specified for petroleum products, hydrocarbons, air with oil vapors, vegetable and mineral oils within the specified temperature range; not compatible for hot dry air over +140°F/+60°C and water over +150°F/+66°C. NOT COMPATIBLE FOR USE WITH HOT WATER 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.

² Grade "L" Silicone not available for the No. L920N Mechanical-T

Hardware: (specify choice)

Standard: Stainless steel oval neck track bolts: ASTM A193, Grade B8M, Class 2. Heavy hex nuts with galling reducing coating: ASTM A194, Grade 8M.

Optional: Alloy steel studs: ASTM A193, Grade B7. Heavy hex nuts: ASTM A194 Grade 2H.

Optional: Stainless steel studs: ASTM A193, Grade B8M, Class 2. Heavy hex nuts with galling reducing coating: ASTM A194, Grade 8M.

Optional: Carbon steel oval neck track bolts: ASTM A449 (imperial) and ISO 898-1 Class 9.8 (metric). Carbon steel hex nuts: ASTM A563 Grade B (imperial – heavy hex nuts) and ASTM A563M Class 9 (metric – hex nuts). Track bolts and hex nuts are zinc electroplated: ASTM B633 ZN/FE5, finish Type III (imperial) or Type II (metric).

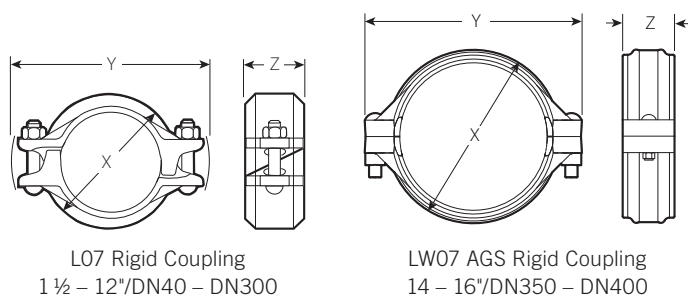
NOTE

- For other materials, contact Victaulic.

4.0 DIMENSIONS

Style L07 Rigid Coupling

Style LW07 AGS Rigid Coupling

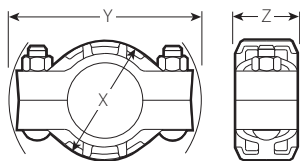


Size			Bolting			Dimensions			Weight
Nominal Size inches DN	Actual Outside Diameter inches mm	Pipe End Separation ³ inches mm	Qty.	Bolt Size inches mm	Stud Size inches mm	X inches mm	Y inches mm	Z inches mm	Approximate (Each) lb kg
1 ½ DN40	1.900 48.3	0.05 1.2	2	¾ × 2	¾ × 3	2.94 75	5.81 148	1.84 47	1.8 0.8
2 DN50	2.375 60.3	0.07 1.7	2	½ × 2 ½	½ × 3 ½	3.35 85	5.78 147	1.84 47	2.5 1.1
2 ½	2.875 73.0	0.07 1.7	2	½ × 2 ½	½ × 3 ½	3.88 99	6.38 162	1.84 47	2.9 1.3
3 DN80	3.500 88.9	0.07 1.7	2	½ × 2 ½	½ × 3 ½	4.54 115	6.81 173	1.84 47	3.3 1.5
4 DN100	4.500 114.3	0.16 4.1	2	½ × 2 ¾	½ × 3 ½	5.81 148	8.21 209	2.07 53	5.8 2.6
6 DN150	6.625 168.3	0.16 4.1	2	⅝ × 3 ¼	⅝ × 4 ½	8.26 210	10.83 275	2.07 53	9.1 4.1
8 DN200	8.625 219.1	0.19 4.8	2	¾ × 4 ¼	⅝ × 4 ½	10.54 268	13.74 349	2.51 64	16.6 7.5
10 DN250	10.750 273	0.13 3.3	2	⅞ × 6 ½	⅞ × 8	12.86 327	16.98 431	2.56 65	25.9 11.7
12 DN300	12.750 323.9	0.13 3.3	2	⅞ × 6 ½	⅞ × 8	14.86 377	18.88 480	2.56 65	31 14.1
AGS™ LW07 AGS Rigid Coupling									
14 DN350	14.000 355.6	0.25 6.4	2	1 × 5 ½	1 × 7	15.88 403	20.63 524	4.75 121	59 26.8
16 DN400	16.000 406.4	0.25 6.4	2	1 × 5 ½	1 × 7	18.13 460	23.5 597	4.75 121	72 32.7

³ The allowable pipe end separation dimension shown is for system layout purposes only. Style L07 rigid couplings are considered rigid connections and will not accommodate expansion/contraction or angular movement of the piping system. Contact Victaulic for torsional resistance information.

4.1 DIMENSIONS

Style L77 Flexible Coupling



Size		Pipe End Separation ⁴	Deflection from Centerline ⁴		Bolt/Nut		Dimensions			Weight
Nominal inches DN	Actual Outside Diameter inches mm	Allowable inches mm	Per Cplg. Degrees	Pipe inches/ft. mm/m	Qty.	Size inches	X inches mm	Y inches mm	Z inches mm	Approx. (Each) lb kg
1 1/2 DN40	1.900 48.3	0-0.06 0-1.6	1°-56'	0.40 33	2	1/2 x 2 1/2	3.13 79	5.38 137	1.88 48	2.3 1.1
2 DN50	2.375 60.3	0-0.06 0-1.6	1°-31'	0.32 26	2	1/2 x 2 1/2	3.63 92	5.88 149	1.88 48	2.9 1.3
2 1/2	2.875 73.0	0-0.06 0-1.6	1°-15'	0.26 22	2	1/2 x 2 3/4	4.25 108	6.50 165	1.88 48	3.4 1.6
3 DN80	3.500 88.9	0-0.06 0-1.6	1°-2'	0.22 18	2	1/2 x 2 3/4	5.00 127	7.13 181	1.88 48	4.1 1.9
4 DN100	4.500 114.3	0-0.13 0-3.2	1°-36'	0.34 28	2	5/8 x 3 1/4	6.13 156	8.88 226	2.13 54	7.4 3.4
6 DN150	6.625 168.3	0-0.13 0-3.2	1°-5'	0.23 18	2	3/4 x 4 1/4	8.63 219	11.88 302	2.13 54	13.3 6.0
8 DN200	8.625 219.1	0-0.13 0-3.2	0°-50'	0.18 14	2	7/8 x 5	11.00 279	14.75 375	2.50 63	23.1 1.5
10 DN250	10.750 273.0	0-0.13 0-3.2	0°-40'	0.14 12	2	1 x 6	13.63 346	17.13 435	2.63 67	30.9 14.0
12 DN300	12.750 323.9	0-0.13 0-3.2	0°-34'	0.12 9	2	1 x 6 1/2	15.63 397	19.25 489	2.63 67	34.5 15.7

⁴ Allowable Pipe End Separation and Deflection figures show the maximum nominal range of movement available at each joint for standard roll grooved pipe. Figures for standard cut grooved pipe may be doubled. These figures are maximums; for design and installation purposes these figures should be reduced by: 50% for 3/4 - 3 1/2"/DN20 - DN90; 25% for 4"/DN100 and larger.

4.2 DIMENSIONS

No. L100 90° Long Radius Elbow

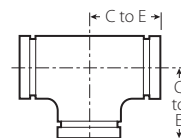
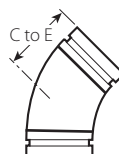
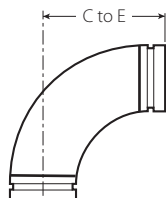
No. LW100 AGS 90° Long Radius Elbow

No. L110 45° Long Radius Elbow

No. LW110 AGS 45° Long Radius Elbow

No. L20 Tee

No. LW20 AGS Tee



Nominal Size inches DN	Actual Outside Diameter inches mm	No. L100 90° Elbow		No. L110 45° Elbow		No. L20 Tee	
		C to E inches mm	Approximate Weight (Each) lb kg	C to E inches mm	Approximate Weight (Each) lb kg	C to E inches mm	Approximate Weight (Each) lb kg
1½ ⁵ DN40	1.900 48.3	3.63 92	1.8 0.8	2.5 64	1.3 0.6	2.75 70	2.4 1.1
2 ⁵ DN50	2.375 60.3	4.38 111	3.6 1.6	2.75 70	2.1 1.0	3.25 83	3.7 1.7
2½ ⁵	2.875 73.0	5.13 131	6.89 175	3.0 76	4.0 1.8	3.75 95	6.6 3.0
3 ⁵ DN80	3.500 88.9	5.88 149	8.2 3.7	3.38 86	5.8 2.6	4.25 108	9.2 4.2
4 DN100	4.500 114.3	7.50 191	12.0 5.4	4.00 102	7.7 3.5	5.00 127	11.7 5.3
6 DN150	6.625 168.3	10.75 273	31.0 14.1	5.50 140	18.0 8.2	6.50 165	35.9 16.3
8 DN200	8.625 219.1	14.25 362	65.0 29.5	7.25 184	49.0 22.2	7.75 197	65.6 29.8
10 ⁶ DN250	10.750 273.0	17.5 445	130.0 59.0	8.5 216	78.0 35.4	10.75 273	136.0 61.7
12 ⁶ DN300	12.750 323.9	20.5 521	192.0 87.1	10.0 254	95.0 43.1	12.5 318	151.0 68.5
AGS™		No. LW100 AGS 90° Elbow		No. LW110 AGS 45° Elbow		No. LW20 AGS Tee	
14 DN350	14.00 355.6	21.00 533	273.0 123.8	8.75 222	144.0 65.3	11.00 279	170.0 77.1
16 DN400	16.000 406.4	24.00 610	366.0 166.0	10.00 254	208.0 94.3	12.00 305	278.0 126.1

⁵ Schedule 80 wall thickness. For other wall thickness options, contact Victaulic

⁶ ASTM A420 WPL6 wrought fitting with A333 Grade 6 tangents. Contact Victaulic for cast options.

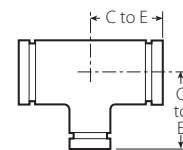
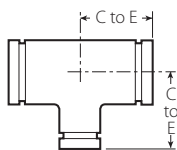
NOTES

- All fittings are cast except as noted.
- Fitting flow data for 1½ – 12" | DN40 – DN300, refer to [publication 07.01](#).
- Fitting flow data for 14 – 16" | DN350 – DN400, refer to [publication 20.05](#).

4.3 DIMENSIONS

No. L25 Reducing Tee

No. LW25 AGS Reducing Tee



Nominal Size inches DN	No. L25 Reducing Tee		
	C to E (Run) inches mm	C to E (Branch) inches mm	Approx. Weight (Each) lb kg
2 x 2 x 1½ ⁵ DN50 x DN50 x DN40	3.25 83	3.00 76	3.1 1.4
3 x 3 x 1½ ⁵ DN80 x DN80 x DN40	4.25 108	4.00 102	7.9 3.6
	2 ⁵ DN50	4.00 102	8.1 3.7
4 x 4 x 1½ ⁵ DN100 x DN100 x DN40	5.00 127	4.00 102	12.9 5.8
	2 ⁵ DN50	4.00 102	13.0 5.9
	2½ ⁵ DN50	5.00 127	16.9 7.7
	3 ⁵ DN80	5.00 127	14.3 6.5
6 x 6 x 2 ⁵ DN150 x DN150 x DN50	6.50 165	5.50 140	33.6 15.2
	3 ⁵ DN80	6.00 152	35.5 16.1
	4 DN100	6.00 152	34.5 15.6
	8 x 8 x 2 ⁵ DN200 x DN200 x DN50	6.50 165	60.9 27.6
8 x 8 x 2½ ⁵ DN200 x DN200 x DN50	7.75 197	7.25 184	66.0 30.0
	3 ⁵ DN100	7.25 184	66.0 30.0
	4 DN100	7.75 197	60.5 27.4
	6 DN150	7.50 191	62.3 28.3
10 x 10 x 6 DN250 x DN250 x DN150	9.00 229	9.00 229	96.7 43.9
	8 DN200	9.00 229	100.3 45.5

Nominal Size inches DN	No. L25 Reducing Tee		
	C to E (Run) inches mm	C to E (Branch) inches mm	Approx. Weight (Each) lb kg
12 x 12 x 8 ⁶ DN300 x DN300 x DN200	12.5 318	11.25 286	172.0 78.0
	10 ⁶ DN250	11.75 298	182.0 82.6
 No. LW25 AGS Reducing Tee			
14 x 14 x 4 DN350 x DN350 x DN100	11.00 279	10.00 254	210.0 95.3
	8 DN200	10.50 267	205.0 93.0
	10 DN250	10.50 267	200.0 90.7
	16 x 16 x 4 DN400 x DN400 x DN100	12.00 305	234.0 106.1
6 DN000	12.00 305	11.50 292	238.0 108.0
	8 DN200	11.75 298	248.0 112.5
	10 DN250	11.75 298	262.0 118.8

⁵ Schedule 80 wall thickness. For other wall thickness options, contact Victaulic

⁶ ASTM A420 WPL6 wrought fitting with A333 Grade 6 tangents. Contact Victaulic for cast options.

NOTES

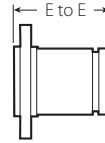
- All fittings are cast except as noted.
- Fitting flow data for 1½ – 12" I DN40 – DN300, refer to [publication 07.01](#).
- Fitting flow data for 14 – 16" I DN350 – DN400, refer to [publication 20.05](#).
- Outlets 12"/DN300 and smaller will be provided with OGS grooves.

4.4 DIMENSIONS

No. L45R Flange Adapter Nipple 150# – Raised Face

No. LW45R AGS Flange Adapter Nipple 150# – Raised Face

No. L46R Flange Adapter Nipple 300# – Raised Face



Nominal Size inches DN	Actual Outside Diameter inches mm	No. L45R Flange Adapter Nipple 150#		No. L46R Flange Adapter Nipple 300#	
		E to E inches mm	Approximate Weight (Each) lb kg	E to E inches mm	Approximate Weight (Each) lb kg
1 ½ DN40	1.900 48.3	4.00 102	3.7 1.7	4.00 102	6.5 2.9
2 DN50	2.375 60.3	4.00 102	6.8 3.1	4.00 102	8.0 3.6
2 ½	2.875 73.0	4.00 102	10.1 4.6	–	–
3 DN80	3.500 88.9	4.00 102	11.7 4.9	4.00 102	15.8 7.2
4 DN100	4.500 114.3	6.00 152	16.4 7.4	6.00 152	28.4 12.9
6 DN150	6.625 168.3	6.00 152	26.0 11.8	6.00 152	42.2 19.1
8 DN200	8.625 219.1	6.00 152	39.6 18.0	6.00 152	64.6 29.3
10 DN250	10.750 273.0	8.00 203	61.6 27.9	8.00 203	103.0 46.7
12 DN300	12.750 323.9	8.00 203	85.8 38.9	8.00 203	133.0 60.3
AGS™		No. LW45R AGS Flange Adapter Nipple 150#			
14 DN350	14.00 355.6	8.00 203	128.0 58.1	–	–
16 DN400	16.000 406.4	8.00 203	149 67.6	–	–

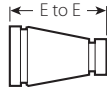
NOTES

- Flange facing to be serrated raised face.
- Outlets 12"/DN300 and smaller supplied with OGS grooved ends

4.5 DIMENSIONS

No. L50 Concentric Reducer

No. LW50 AGS Concentric Reducer

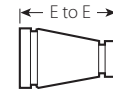


Nominal Size inches DN		E to E inches mm	Approximate Weight (Each) lb kg
2 DN50	x 1 1/2 ⁵ DN40	3.00 76	1.32 0.6
3 DN80	x 1 1/2 ⁵ DN40	3.50 89	2.2 1.0
	2 ⁵ DN50	3.50 89	2.2 1.0
4 DN100	x 1 1/2 ⁵ DN40	4.00 102	3.9 1.8
	2 ⁵ DN50	4.00 102	3.5 1.6
	2 1/2 ⁵ DN40	4.00 102	4.6 2.1
	3 ⁵ DN80	4.00 102	4.4 2.0
6 DN150	x 2 ⁵ DN50	5.50 140	7.8 3.6
	3 ⁵ DN80	5.50 140	9.9 44.9
	4 DN100	5.50 140	7.3 3.3
8 DN200	x 4 DN100	6.00 152	15.7 7.1
	6 DN150	6.00 152	17.9 8.1
10 DN250	x 4 DN100	7.00 178	24.0 10.9
	6 DN150	7.00 178	26.9 12.2
	8 DN200	7.00 178	29.2 13.2

⁵ Schedule 80 wall thickness. For other wall thickness options, contact Victaulic

NOTE

- Outlets 12"/DN300 and smaller will be provided with OGS grooves.



Nominal Size inches DN		E to E inches mm	Approximate Weight (Each) lb kg
12 DN300	x 8 DN200	8.00 203	26.6 12.1
	10 DN250	8.00 203	43.5 19.7
AGS™		No. LW50 AGS Concentric Reducer	
14 DN350	x 8 DN200	14.00 356	90.0 40.8
	10 DN250	14.00 356	96.0 43.5
	12 DN300	14.00 356	105.0 47.6
16 DN400	x 8 DN200	14.00 356	104.0 47.2
	10 DN250	14.00 356	108.0 49.0
	12 DN300	14.00 356	112.0 50.8
	14 DN350	14.00 356	116.0 52.6

⁵ Schedule 80 wall thickness. For other wall thickness options, contact Victaulic

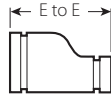
NOTE

- Outlets 12"/DN300 and smaller will be provided with OGS grooves.

4.6 DIMENSIONS

No. L51 Eccentric Reducer

No. LW51 AGS Eccentric Reducer



Nominal Size inches DN	No. L51 Eccentric Reducer		
		E to E inches mm	Approximate Weight (Each) lb kg
2 DN50	x 1 1/2 ⁵ DN40	3.00 76	1.0 0.5
3 DN80	x 1 1/2 ⁵ DN40	3.50 89	2.9 1.3
	2 ⁵ DN50	3.50 89	2.2 1.0
4 DN100	x 1 1/2 ⁵ DN40	4.00 102	4.2 1.9
	2 ⁵ DN50	4.00 102	3.4 1.5
	3 ⁵ DN80	4.00 102	4.1 1.9
6 DN150	x 2 ⁵ DN50	5.50 140	8.8 4.0
	3 ⁵ DN80	5.50 140	9.1 4.1
	4 DN100	5.50 140	10.3 4.7
8 DN200	x 4 DN100	6.00 152	11.7 5.3
	6 DN150	6.00 152	12.7 5.8
10 DN250	x 6 DN150	7.00 178	19.1 8.7
	8 DN200	7.00 178	19.8 9.0
12 DN300	x 8 DN200	8.00 203	40.2 18.2
	10 DN250	8.00 203	31.7 14.4
AGS™		No. LW51 AGS Eccentric Reducer	
14 DN350	x 8 DN200	14.00 356	100.0 45.4
	12 DN300	14.00 356	124.0 56.2
16 DN400	x 8 DN200	14.00 356	132.0 59.9
	10 DN250	14.00 356	138.0 62.6

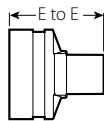
⁵ Schedule 80 wall thickness. For other wall thickness options, contact Victaulic

NOTE

- Outlets 12"/DN300 and smaller will be provided with OGS grooves.

4.7 DIMENSIONS

No. L52 Threaded Reducer (Female - NPT)

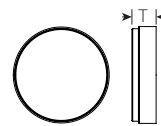


Nominal Size inches DN		E to E inches mm	Approximate Weight (Each) lb kg
1 1/2 DN40	x 3/4 ⁵ DN20	2.50 64	1.0 0.5
	1 ⁵ DN25	2.50 63.5	1.0 0.5
2 DN50	x 3/4 ⁵ DN20	2.50 64	1.4 0.6
	1 ⁵ DN25	2.50 64	1.3 0.6
	1 1/2 ⁵ DN40	2.50 64	1.3 0.6

⁵ Schedule 80 wall thickness. For other wall thickness options, contact Victaulic

4.8 DIMENSIONS

NO. L60 CAP NO. LW60 AGS CAP



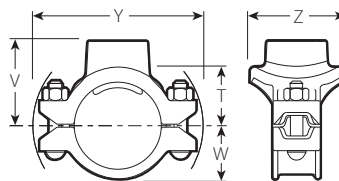
Nominal Size inches DN	Actual Outside Diameter inches mm	"T" Thickness inches mm	Approximate Weight (Each) lb kg
1 1/2 DN40	1.900 48.3	0.82 20.8	0.5 0.2
2 DN50	2.375 60.3	0.88 22.4	0.8 0.4
3 DN80	3.500 88.9	0.88 22.4	1.8 0.8
4 DN100	4.500 114.3	1.00 25.4	3.7 1.7
6 DN150	6.625 168.3	1.00 25.4	8.3 3.8
8 DN1200	8.625 219.1	1.13 28.7	15.8 7.2
10 DN250	10.750 273.0	1.06 26.9	28.0 12.7
12 DN300	12.750 323.9	1.25 31.8	41.6 18.9
			
No. LW60 AGS Cap			
14 DN350	14.000 355.6	6.50 165.0	33.2 15.1
16 DN400	16.000 406.4	7.00 178.0	41.2 18.7

NOTE

- End caps are available with an NPT/BSPT tapped port. For more information, contact Victaulic.

4.9 DIMENSIONS

No. L920N Mechanical T-Outlet (Female - NPT)



Nominal Size inches DN	Maximum Working Pressure ⁷ psi bar	Dimensions						Weight	
		Hole Diameter +0.13 -0.00 inches mm	T ⁸ inches mm	V inches mm	W inches mm	Y inches mm	Z inches mm	Approximate (Each) lb kg	
2 DN50	x 1/2 DN15	500 34	1.50 38.1	1.97 50	2.53 64	1.61 41	5.35 136	2.75 70	3.3 1.5
		500 34	1.50 38.1	1.97 50	2.53 64	1.61 41	5.35 136	2.75 70	3.1 1.4
		500 34	1.50 38.1	1.85 47	2.53 64	1.61 41	5.35 136	2.75 70	3.0 1.4
3 DN80	x 3/4 DN20	500 34	1.50 38.1	2.49 63	3.05 78	2.28 58	6.15 156	2.75 70	3.4 1.6
		500 34	1.50 38.1	2.38 61	3.06 78	2.28 58	6.15 156	2.75 70	3.3 1.6
4 DN100	x 1/2 DN15	500 34	1.50 38.1	3.03 77	3.56 90	2.69 68	7.01 178	2.75 70	3.7 1.8
		500 34	1.50 38.1	3.00 76	3.56 90	2.69 68	7.01 178	2.75 70	3.7 1.8
		500 34	1.50 38.1	2.88 73	3.56 90	2.69 68	7.01 178	2.75 70	3.7 1.7
6 150	x 3/4 DN20	500 34	1.50 38.1	3.73 95	4.64 118	3.79 96	9.15 232	3.25 83	5.1 2.3
		500 34	2.00 50.8	4.40 112	5.13 130	3.79 96	9.15 232	3.25 83	5.7 2.6
		500 34	2.50 63.5	4.38 111	5.13 130	3.79 96	9.15 232	3.88 99	6.5 2.9
8 DN200	x 3/4 DN20	500 34	1.50 38.1	5.01 127.3	5.69 144.5	4.81 122.2	12.42 315.5	4.50 114	11.3 5.1
		500 34	2.75 69.9	5.44 138	6.19 157	4.81 122	12.42 316	4.50 114	11.6 5.3
10 DN250	x 3/4 DN20	500 34	1.50 38.1	6.01 152.7	6.69 170.0	6.00 152.4	14.67 372.6	4.50 114	16.5 7.5
		500 34	2.75 69.9	6.01 152.7	6.69 170.0	6.00 152.4	14.67 372.6	4.50 114	15.2 6.9
12 DN300	x 3/4 DN20	500 34	1.50 38.1	7.13 181.1	7.81 198.4	7.13 181.1	17.38 441.5	4.50 114	19.4 8.8
		500 34	2.75 69.9	7.13 181.1	7.81 198.4	7.13 181.1	17.38 441.5	4.50 114	20.5 9.3
14 DN350	x 3/4 DN20	500 34	1.50 38.1	7.75 196.9	8.43 214.1	9.11 231.4	17.95 455.9	4.50 114	24.2 11.0
		500 34	2.75 69.9	7.74 196.6	8.43 214.1	9.11 231.4	17.95 455.9	4.50 114	24.2 11.0
16 DN400	x 3/4 DN20	500 34	1.50 38.1	8.01 203.5	9.43 239.5	10.14 257.6	19.74 501.4	4.50 114	26.6 12.1

⁷ Pressure ratings listed are on Schedules 10 and 40 carbon steel pipe.

⁸ Center of run to engaged pipe end (dimensions approximate).

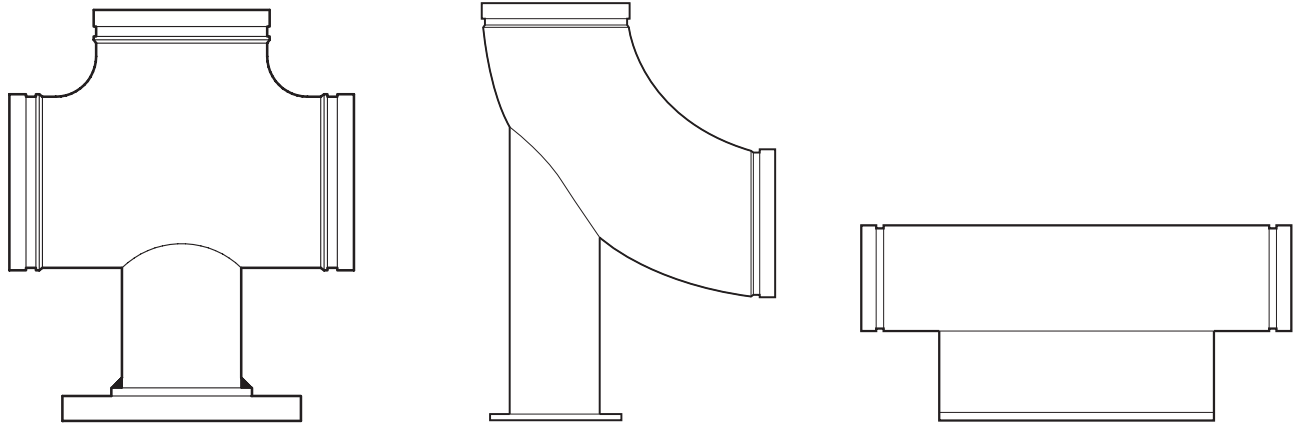
NOTE

- WARNING: FOR ONE-TIME FIELD TEST ONLY, Maximum Joint Working Pressure may be increased to 1 1/2 times the figures shown

4.10 DIMENSIONS

No. TRU Grooved End Trunnion Fittings

Fabricated custom pipe supports can be supplied with tees, elbows, or as straight pipe configurations. For additional information, contact Victaulic with detailed specifications.



5.0 PERFORMANCE

Style L07 Rigid Coupling

Style LW07 AGS Rigid Coupling

Size		Maximum Working Pressure ⁹	Maximum End Load ⁹
Nominal Size inches DN	Actual Outside Diameter inches mm		
1 ½ DN40	1.900 48.3	750 5171	2109 9381
2 DN50	2.375 60.3	750 5171	3286 14617
2 ½	2.875 73.0	750 5171	4825 21463
3 DN80	3.500 88.9	750 5171	7136 31743
4 DN100	4.500 114.3	750 5171	11793 52458
6 DN150	6.625 168.3	750 5171	25402 112994
8 DN200	8.625 219.1	750 5171	43544 193693
10 DN250	10.750 273	750 5171	66620 296341
12 DN300	12.750 323.9	750 5171	94360 419734
 LW07 AGS Rigid Coupling			
14 DN350	14.000 355.6	740 5102	117481 522582
16 DN400	16.000 406.4	740 5102	153455 682602

⁹ Working Pressure and End Load are total, from all internal and external loads, based on standard weight (ANSI) steel pipe, standard roll or cut grooved in accordance with Victaulic specifications.

NOTE

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

5.1 PERFORMANCE

Style L77

Size		Working Pressure ⁹	End Load ⁹
Nominal inches mm	Actual Outside Diameter inches mm	Maximum psi kPa	Maximum lb N
1½ DN40	1.900 48.3	1000 6894	2835 12,615
2 DN50	2.375 60.3	1000 6894	4430 19,715
2½	2.875 73.0	1000 6894	6490 28,880
3 DN80	3.500 88.9	1000 6894	9620 42,810
4 DN100	4.500 114.3	1000 6894	15900 70,755
6 DN150	6.625 168.3	1000 6894	34470 153,390
8 DN200	8.625 219.1	800 5515	46740 207,995
10 DN250	10.750 273.0	800 5515	73280 326,100
12 DN300	12.750 323.9	800 5515	102000 453,900

⁹ Working Pressure and End Load are total, from all internal and external loads, based on standard weight (ANSI) steel pipe, standard roll or cut grooved in accordance with Victaulic specifications.

NOTE

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

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

[05.01: Victaulic Gasket Selection Guide](#)

[07.01: Grooved End Fitting Submittal](#)

[20.05: Victaulic AGS Grooved End Fittings Submittal](#)

[24.01: Victaulic Pipe Preparation Tool Specifications](#)

[25.01: Victaulic Standard Groove Specifications](#)

[25.09: Victaulic AGS Roll Groove Specifications](#)

[I-ENDCAP: Victaulic End Caps Installation Instructions](#)

[I-L100: Victaulic Field Installation Handbook for Carbon Steel](#)

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.

Intellectual Property Rights

No statement contained herein concerning a possible or suggested use of any material, product, service, or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Victaulic or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product, service, or design in the infringement of any patent or other intellectual property right. The terms "Patented" or "Patent Pending" refer to design or utility patents or patent applications for articles and/or methods of use in the United States and/or other countries.

Note

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

Installation

Reference should always be made to the Victaulic installation handbook or installation instructions of the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

Warranty

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

Trademarks

Victaulic and all other Victaulic marks are the trademarks or registered trademarks of Victaulic Company, and/or its affiliated entities, in the U.S. and/or other countries.