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Style 920 and 920N Treaded

Style 920 and 920N Grooved

1.0 PRODUCT DESCRIPTION

Available Sizes

- 2 x ½"/DN50 x DN15 through 8 x 4"/DN200 x DN100

Pipe Material

- Carbon steel pipe
- HDPE pipe conforming to ASTM D3035 and ASTM F714 or ISO 4427-2 (SDR 7 – 26)

Maximum Working Pressure

- Up to 500 psi/3447 kPa on carbon steel pipe
- For HDPE applications, working pressure dependent on material, wall thickness, and pipe size

WARNING

- FOR ONE-TIME FIELD TEST ONLY, the maximum working pressure may be increased to 1 1/2 times the figures shown.

Operating Temperature Range

- Dependent on gasket selection from Section 3.0

Available Branch End Configurations

- Victaulic® Original Groove System (OGS)
- Female Threaded NPT
- Female Threaded ISO 7-Rc

Application

- This product provides a reduced size outlet in place of a reducing tee
- Provides a direct branch connection at any location a hole can be cut in a pipe

NOTES

- Not compatible for use on PVC plastic pipe
- Must be installed to keep the main and branch connections are a true 90° angle
- Not approved for use in hot tapping applications. If a solution for tapping a pressurized system is required, reference publication 24.01 for the *Vic-Tap* II Hole Cutting Tool
- Style 920 and Style 920N housings cannot be mated to one another to achieve cross connections
- See publication 11.03 for *Mechanical-T* cross assemblies

2.0 CERTIFICATIONS/LISTINGS

LPS 1219: Issue 3.1
Cert/LPCB Ref. 104-1a/11
104-1a/26

EN 10311
CPR (EU)
No. 305/2011

NOTE

- For all fire protection agency certified sizes and ratings, reference publication 10.01 Victaulic® Certification Reference Guide.

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

3.0 SPECIFICATIONS - MATERIAL

Housing: Ductile iron conforming to ASTM A536, grade 65-45-12. Ductile iron conforming to ASTM A-395, grade 65-45-15, is available upon special request

Housing Coating: (specify choice)

- ☐ Orange coating
- ☐ Red coating (standard for EMEA-I and Asia Pacific)
- ☐ Optional: Hot dipped galvanized

Gasket: (specify choice)

☐ **Grade "E" EPDM**

EPDM (Green color code). Temperature range –30°F to +230°F/–34°C to +110°C. Recommended for cold and hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. NOT RECOMMENDED FOR PETROLEUM SERVICES.

☐ **Grade "T" nitrile**

Nitrile (Orange color code). Temperature range –20°F to +180°F/–29°C to +82°C. Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C.

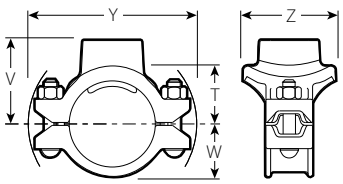
NOTES:

- Reference shall always be made to publication I-100, Victaulic Field Installation Handbook for gasket lubrication instructions.
- 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 publication 05.01, Victaulic Gasket Selection Guide for specific gasket service guidelines and for a listing of services which are not compatible.

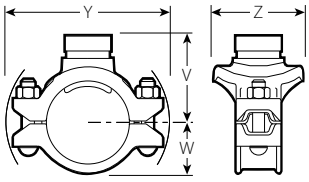
Bolts/Nuts:

☐ Carbon steel oval neck track bolts meeting the mechanical property requirements of (imperial) ASTM A449 or (metric) ISO 898-1 Class 9.8 (M10-M16) or Class 8.8 (M20 and greater). Carbon steel hex nuts meeting the mechanical property requirements of (imperial heavy hex nuts) ASTM A563 Grade B or (metric hex nuts) ISO 898-2 Class 10 (M12-M16) or Class 8 (M20 and greater). Track bolts and hex nuts are zinc electroplated per ASTM B633 Fe/Zn5 finish (imperial) Type III or (metric) Type II.

4.0 DIMENSIONS



FEMALE THREADED OUTLET



GROOVED OUTLET

Size Run & Outlet				Style No.	Dimensions						Weight	
Nominal inches DN		Actual Outside Diameter inches mm		920 or 920N	T[1] inches mm	V[3,4] Thd. inches mm	V[4] Grv. inches mm	W inches mm	Y inches mm	Z inches mm	Female Thd. Approx. (Each) Lbs. kg	Grv. Approx. (Each) Lbs. kg
2 DN50	× ½ DN15	2.375 60.3	× 0.840 21.3	920N	2.00 51	2.53 64	–	1.61 41	5.35 136	2.75 70	3.1 1.5	–
	¾ DN20		1.050 26.9	920N	1.97 50	2.53 64	–	1.61 41	5.35 136	2.75 70	3.1 1.5	–
	1 DN25		1.315 33.7	920N	1.85 47	2.53 64	–	1.61 41	5.35 136	2.75 70	3.0 1.4	–
	1¼[2] DN32		1.660 42.4	920N	2.05 52	2.75 70	3.00 76	1.61 41	5.35 136	3.00 76	3.5 1.6	3.2 1.5
	1½[2] DN40		1.900 48.3	920N	2.03 52	2.75 70	3.12 79	1.61 41	5.35 136	3.25 83	3.6 1.7	3.2 1.5
2½	× ½ DN15	2.875 73	× 0.840 21.3	920N	2.21 56	2.74 70	–	1.82 46	5.64 143	2.75 70	3.0 1.4	–
	¾ DN20		1050 26.9	920N	2.18 55	2.74 70	–	1.82 46	5.64 143	2.75 70	3.0 1.4	–
	1 DN25		1.315 33.7	920N	2.06 52	2.74 70	–	1.82 46	5.64 143	2.75 70	2.9 1.4	–
	1¼[2] DN32		1.660 42.4	920N	2.30 58	3.00 76	3.25 83	1.82 46	6.29 160	3.00 76	3.5 1.6	3.2 1.5
	1½[2] DN40		1.900 48.3	920N	2.28 58	3.00 76	3.25 83	1.82 46	6.26 159	3.25 83	3.6 1.6	3.3 1.5
DN65	× ½ DN15	3.000 76.1	× 0.840 21.3	920N	2.22 56	2.75 70	–	2.25 57	6.46 164	3.18 81	3.9 1.8	–
	¾ DN20		1.050 26.9	920N	2.19 56	2.75 70	–	2.25 57	6.46 164	3.18 81	3.9 1.8	–
	1 DN25		1.315 33.7	920N	2.07 53	2.75 70	–	2.25 57	6.46 164	3.18 81	3.8 1.7	–
	1¼[2] DN32		1.660 42.4	920N	2.30 58	3.00 76	3.31 84	1.92 49	6.29 160	3.00 76	3.5 1.6	3.2 1.5
	1½[2] DN40		1.900 48.3	920N	2.28 58	3.00 76	3.31 84	1.92 49	6.29 160	3.25 83	3.5 1.6	3.3 1.5

[1] Center of run to engaged pipe end, female threaded outlet only (dimensions approximate).

[2] Available with grooved or female threaded outlet. Specify choice on order.

[3] British Standard female pipe threaded outlet is available as listed. Specify "ISO 7-Rc" clearly on order.

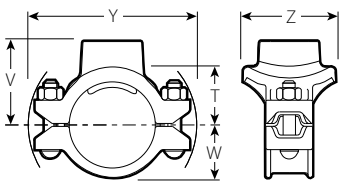
[4] Center of run to end of fitting.

[5] For 76.1 mm threaded outlet, specify 2½" ISO 7-Rc clearly on order.

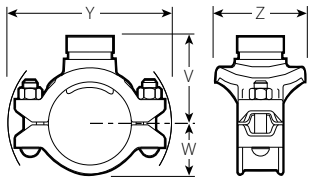
NOTE:

- Always reference publication I-100, Victaulic Field Installation Handbook, for complete pipe preparation, hole size, and installation requirements.

4.0 DIMENSIONS (CONTINUED)



FEMALE THREADED OUTLET



GROOVED OUTLET

Size Run & Outlet				Style No.	Dimensions						Weight	
Nominal inches DN		Actual Outside Diameter inches mm		920 or 920N	T[1] inches mm	V[3,4] Thd. inches mm	V[4] Grv. inches mm	W inches mm	Y inches mm	Z inches mm	Female Thd. Approx. (Each) Lbs. kg	Grv. Approx. (Each) Lbs. kg
3 DN80 ×	½ DN15	3.500 DN15 ×	0.840 21.3	920N	2.52 64	3.05 77	–	2.28 58	6.15 156	2.75 70	3.4 1.5	–
	¾ DN20		1.050 26.9	920N	2.49 63	3.05 77	–	2.28 58	6.15 156	2.75 70	3.4 1.5	–
	1 DN25		1.315 33.7	920N	2.38 60	3.06 78	–	2.28 58	6.15 156	2.75 70	3.3 1.5	–
	1 ¼ [2] DN32		1.660 42.4	920N	2.55 65	3.25 83	3.56 90	2.28 58	6.15 156	3.00 76	3.8 1.7	3.7 1.7
	1 ½ [2] DN40		1.900 48.3	920N	2.78 71	3.50 89	3.56 90	2.28 58	6.15 156	3.25 83	4.1 1.9	3.8 1.7
	2 [2] DN50		2.375 60.3	920N	2.75 70	3.50 89	3.56 90	2.28 58	6.75 171	3.88 99	4.9 2.2	4.6 2.1
3 ½ DN90 ×	2 DN50	4.000 101.6 ×	2.375 60.3	920N	–	–	3.75 95	2.44 62	6.72 171	3.88 99	–	3.8 1.7
4 DN100 ×	½ DN15	4.500 114.3 ×	0.840 21.3	920N	3.03 77	3.56 90	–	2.69 68	7.01 178	2.75 70	3.7 1.7	–
	¾ DN20		1.050 26.9	920N	3.00 76	3.56 90	–	2.69 68	7.01 178	2.75 70	3.7 1.7	–
	1 DN25		1.315 33.7	920N	2.88 73	3.56 90	–	2.69 68	7.01 178	2.75 70	3.6 1.6	–
	1 ¼ [2] DN32		1.660 42.4	920N	3.08 78	3.78 96	4.00 102	2.69 68	7.01 178	3.00 76	4.0 1.8	3.6 1.6
	1 ½ [2] DN40		1.900 48.3	920N	3.28 83	4.00 102	4.00 102	2.69 68	7.01 178	3.25 83	4.2 1.9	3.9 1.8
	2 [2] DN50		2.375 60.3	920N	3.25 83	4.00 102	4.00 102	2.69 68	7.01 178	3.88 99	5.0 2.3	4.6 2.1
	2 ½ [2]		2.875 73.0	920	2.88 73	4.00 102	4.00 102	2.69 68	7.34 186	4.63 118	5.8 2.6	5.0 2.3
	DN65 [2]		3.000 76.1	920	2.88 73	4.00 102	4.00 102	2.69 68	7.34 186	4.63 118	5.8 2.6	6.4 2.9
	3 [2] DN80		3.500 88.9	920	3.31 84	4.50 114	4.12 105	2.69 68	7.73 196	5.12 130	8.4 3.8	6.4 2.9

[1] Center of run to engaged pipe end, female threaded outlet only (dimensions approximate).

[2] Available with grooved or female threaded outlet. Specify choice on order.

[3] British Standard female pipe threaded outlet is available as listed. Specify "ISO 7-Rc" clearly on order.

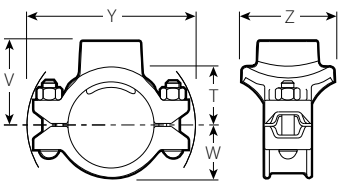
[4] Center of run to end of fitting.

[5] For 76.1 mm threaded outlet, specify 2½" ISO 7-Rc clearly on order.

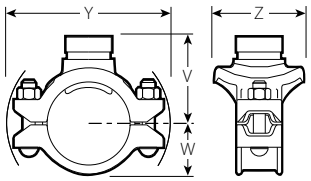
NOTE:

- Always reference publication I-100, Victaulic Field Installation Handbook, for complete pipe preparation, hole size, and installation requirements.

4.0 DIMENSIONS (CONTINUED)



FEMALE THREADED OUTLET



GROOVED OUTLET

Size Run & Outlet				Style No.	Dimensions						Weight	
Nominal inches DN		Actual Outside Diameter inches mm		920 or 920N	T[1] inches mm	V[3,4] Thd. inches mm	V[4] Grv. inches mm	W inches mm	Y inches mm	Z inches mm	Female Thd. Approx. (Each) Lbs. kg	Grv. Approx. (Each) Lbs. kg
108.0 ×	1 ¼ DN32	4.250 108.0 ×	1.660 42.4	920N	3.08 78	3.78 96	–	2.63 67	7.64 194	3.05 77	5.0 2.3	–
	1 ½ DN40		1.900 48.3	920N	3.28 83	4.00 102	–	2.63 67	7.64 194	3.25 83	5.0 2.3	–
	2 DN50		2.375 60.3	920N	3.25 83	4.00 102	–	2.63 67	7.64 194	4.00 102	4.0 1.8	–
	DN65 [2]		3.000 76.1	920	2.88 73	4.00 102	4.00 102	2.63 67	7.64 194	4.29 109	8.0 3.6	7.8 3.5
	3 [2] DN80		3.500 88.9	920	3.31 84	4.50 114	4.50 114	2.63 67	7.63 194	4.88 124	6.8 3.1	6.5 2.9
5 ×	1 ½ [2] DN40	5.563 141.3 ×	1.900 48.3	920	4.03 102	4.75 121	4.75 121	3.16 80	9.70 246	3.69 94	7.4 3.4	7.6 3.4
	2 [2] DN50		2.375 60.3	920	4.00 102	4.75 121	4.75 121	3.16 80	9.70 246	4.38 111	8.2 3.7	8.0 3.6
	2 ½ [2]		2.875 73	920	3.63 92	4.75 121	4.75 121	3.16 80	9.70 246	4.63 118	8.3 3.8	7.9 3.6
	DN65 [2]		3.000 76.1	920	3.61 92	4.75 121	4.62 117	3.13 80	9.18 233	4.75 121	12.0 5.4	12.0 5.4
	3 [2] DN80		3.000 88.9	920	3.81 97	5.00 127	4.63 118	3.16 80	9.70 246	5.31 135	8.4 3.8	8.8 4.0
133.0 ×	2 DN50	5.250 133.0 ×	2.375 60.3	920N	3.75 95	4.50 114	–	3.17 81	8.00 203	3.88 99	8.0 3.6	–
DN125 ×	1 ½ DN40	5.500 139.7 ×	1.900 48.3	920N	3.78 96	4.50 114	–	3.30 84	8.23 209	3.25 83	7.0 3.2	–
	2 DN50		2.375 60.3	920N	3.75 95	4.50 114	–	3.30 84	8.23 209	3.88 99	9.0 4.1	–
	DN65 [2]		3.000 76.1	920	3.61 92	4.75 121	4.62 117	3.13 80	9.18 233	4.75 121	12.0 5.4	12.0 5.4

[1] Center of run to engaged pipe end, female threaded outlet only (dimensions approximate).

[2] Available with grooved or female threaded outlet. Specify choice on order.

[3] British Standard female pipe threaded outlet is available as listed. Specify "ISO 7-Rc" clearly on order.

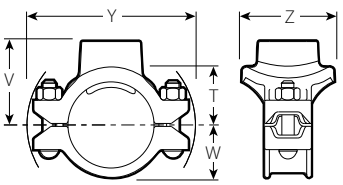
[4] Center of run to end of fitting.

[5] For 76.1 mm threaded outlet, specify 2½" ISO 7-Rc clearly on order.

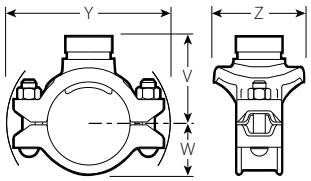
NOTE:

- Always reference publication I-100, Victaulic Field Installation Handbook, for complete pipe preparation, hole size, and installation requirements.

4.0 DIMENSIONS (CONTINUED)



FEMALE THREADED OUTLET



GROOVED OUTLET

Size Run & Outlet				Style No.	Dimensions						Weight	
Nominal inches DN		Actual Outside Diameter inches mm		920 or 920N	T[1] inches mm	V[3,4] Thd. inches mm	V[4] Grv. inches mm	W inches mm	Y inches mm	Z inches mm	Female Thd. Approx. (Each) Lbs. kg	Grv. Approx. (Each) Lbs. kg
6 DN150	× 1¼ DN32	6.625 168.3	× 1.660 42.4	920N	–	–	5.13 130	3.79 96	9.15 232	3.28 83	–	4.8 2.2
	1½ [2] DN40		1.900 48.3	920N	4.00 102	5.13 130	5.13 130	3.79 96	9.15 232	3.25 83	5.4 2.4	5.1 2.3
	2 [2] DN50		2.375 60.3	920N	4.38 111	5.13 130	5.13 130	3.79 96	9.15 232	3.88 99	6.0 2.7	5.6 2.5
	2½ [2]		2.875 73.0	920	4.01 102	5.13 130	5.12 130	3.69 94	10.51 267	4.63 118	8.3 3.8	7.6 3.4
	DN65		3.000 76.1	920	–	–	5.21 132	3.69 94	10.51 267	4.63 118	–	8.4 3.8
	3 [2] DN80		3.500 88.9	920	4.31 109	5.50 140	5.13 130	3.69 94	10.51 267	5.31 135	9.9 4.5	8.4 3.8
	4 [2] DN100		3.500 114.3	920	3.81 97	5.75 146	5.38 137	3.69 94	10.51 267	6.25 159	10.1 4.6	10.1 4.6
159.0	× 1½ DN40	6.250 159.0	× 1.900 48.3	920N	4.41 112	5.13 130	–	3.63 92	9.40 239	3.25 83	7.8 3.5	–
	2 DN50		2.375 60.3	920N	4.38 111	5.13 130	–	3.63 92	9.40 239	3.88 99	8.0 3.6	–
	DN65 [2]		3.000 76.1	920	4.01 101	5.13 130	5.21 132	3.69 94	10.51 267	4.63 118	8.3 3.8	8.4 3.8
	3 [2] DN80		3.500 88.9	920	4.31 109	5.50 140	5.13 130	3.63 92	9.40 239	5.31 135	8.1 3.7	14.0 6.4
			4.250 108.0	920	–	–	5.38 137	3.63 92	9.40 239	6.12 155	–	10.0 4.5
	4 DN100		4.500 114.3	920	3.81 97	5.75 146	–	3.63 92	9.40 239	6.25 159	18.0 8.2	–

[1] Center of run to engaged pipe end, female threaded outlet only (dimensions approximate).

[2] Available with grooved or female threaded outlet. Specify choice on order.

[3] British Standard female pipe threaded outlet is available as listed. Specify "ISO 7-Rc" clearly on order.

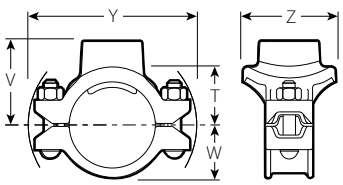
[4] Center of run to end of fitting.

[5] For 76.1 mm threaded outlet, specify 2½" ISO 7-Rc clearly on order.

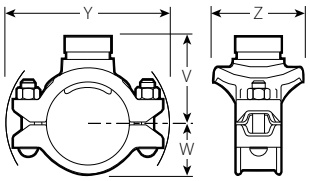
NOTE:

- Always reference publication I-100, Victaulic Field Installation Handbook, for complete pipe preparation, hole size, and installation requirements.

4.0 DIMENSIONS (CONTINUED)



FEMALE THREADED OUTLET



GROOVED OUTLET

Size Run & Outlet				Style No.	Dimensions						Weight	
Nominal inches DN		Actual Outside Diameter inches mm		920 or 920N	T[1] inches mm	V[3,4] Thd. inches mm	V[4] Grv. inches mm	W inches mm	Y inches mm	Z inches mm	Female Thd. Approx. (Each) Lbs. kg	Grv. Approx. (Each) Lbs. kg
6.500 165.1	× 1 DN25	6.500	× 1.315 42.4	920N	3.88 99	4.56 116	–	3.79 96	9.34 237	2.75 70	8.0 3.6	–
	1 ¼ DN32		1.660 42.4	920N	4.43 113	5.13 130	–	3.79 96	9.34 237	3.25 83	8.4 3.8	–
	1 ½ [2] DN40		1.900 48.3	920N	4.41 112	5.13 130	5.13 130	3.79 96	9.34 237	3.25 83	8.4 3.8	5.4 2.4
	2 [2] DN50		2.375 60.3	920N	4.38 111	5.13 130	5.13 130	3.79 96	9.34 237	3.88 99	8.5 3.9	6.0 2.7
	DN65 [2]		3.000 76.1	920	4.01 102	5.13 130	5.21 132	3.63 92	10.51 267	4.63 118	8.6 3.9	7.6 3.4
	3 [2] DN80		3.500 88.9	920	4.31 109	5.50 140	5.13 130	3.63 92	10.51 267	5.31 135	10.2 4.6	8.4 3.8
	4 [2] DN100		3.500 114.3	920	3.81 97	5.75 146	5.38 137	3.63 92	10.51 267	6.25 159	10.5 4.8	8.4 3.8
8 DN200	× 2 [2] DN50	8.625 219.1	× 2.375 60.3	920	5.44 138	6.19 157	6.25 159	4.81 122	12.42 315	4.50 114	11.6 5.3	11.6 5.3
	2 ½ [2]		2.875 73.0	920	5.07 129	6.19 157	6.19 157	4.81 122	12.42 315	4.50 114	11.6 5.3	11.6 5.3
	DN65 [2]		3.000 76.1	920	5.07 129	6.19 157	6.25 159	4.81 122	12.42 315	4.50 114	11.6 5.3	11.6 5.3
	3 [2] DN80		3.000 88.9	920	5.31 135	6.50 165	6.50 165	4.81 122	12.42 315	5.31 135	12.6 5.7	11.6 5.3
	4 [2] DN100		4.500 114.3	920	4.81 122	6.75 171	6.38 162	4.81 122	12.42 315	6.25 159	15.3 6.9	12.5 5.7

[1] Center of run to engaged pipe end, female threaded outlet only (dimensions approximate).

[2] Available with grooved or female threaded outlet. Specify choice on order.

[3] British Standard female pipe threaded outlet is available as listed. Specify "ISO 7-Rc" clearly on order.

[4] Center of run to end of fitting.

[5] For 76.1 mm threaded outlet, specify 2½" ISO 7-Rc clearly on order.

NOTE:

- Always reference publication I-100, Victaulic Field Installation Handbook, for complete pipe preparation, hole size, and installation requirements.

5.0 PERFORMANCE (CONTINUED)

Flow Data

Head loss values per UL 213, Section 17 “Pipe Outlet Flow Characteristics Test” are shown in the table below for style 920, 920N and 929 mechanical T fitting. The head loss values are expressed in equivalent length of outlet pipe and represent the total head loss between points 1 and 2.

C_v/K_v values for flow of water at +60°F/+16°C are shown in the table.

Formulas for C_v values:

$$\Delta P = \frac{Q^2}{C_v^2}$$

$$Q = C_v \times \sqrt{\Delta P}$$

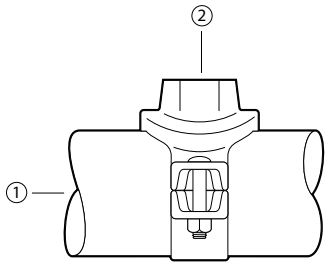
Where:
Q = Flow (GPM)
ΔP = Pressure Drop (psi)
C_v = Flow Coefficient

Formulas for K_v values:

$$\Delta P = \frac{Q^2}{K_v^2}$$

$$Q = K_v \times \sqrt{\Delta P}$$

Where:
Q = Flow (m^3/hr)
ΔP = Pressure Drop (Bar)
K_v = Flow Coefficient



Exaggerated for clarity

Size Outlet		Performance			
Nominal	**Actual Outside Diameter**	**Equivalent Length of Outlet Size Schedule 40 Carbon Steel Pipe (per UL 213, Sec. 17) (C = 120)**[11]		**Flow Characteristics** Cv Kv	
inches DN	inches mm	**Grooved**	**Threaded**	**Grooved**	**Threaded**
½ DN15	0.840 21.3	–	–	–	11 10
¾ DN20	1.050 26.9	–	–	–	16 14
1 DN25	1.315 33.7	–	5	–	19 16
1 ¼ DN32	1.660 42.4	6	3	35 30	42 36
1 ½ DN40	1.900 48.3	7	6	46 40	48 42
2 DN50	2.375 60.3	2	3	101 87	97 84
2 ½	2.875 73.0	5	5	121 105	136 118
DN65	3.000 76.1	6[12]	–	161 139	–
3 DN80	3.500 88.9	6	5	189 163	198 171
4 DN100	4.500 114.3	10	7	343 297	391 338

[11] Hazen-Williams coefficient of friction is 120.
[12] Pipe with a wall thickness of 0.165"/4.2 mm.

6.0 NOTIFICATIONS

⚠ WARNING

- **Read and understand all instructions before attempting to install any Victaulic 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, foot protection, and hearing protection.**

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

7.0 REFERENCE MATERIALS

Pipe Preparation Dimensions

Nominal Outlet Size inches mm	Hole Dimensions	
	Minimum Hole Diameter/ Hole Saw Size inches mm	Maximum Allowable Diameter inches mm
All ½-inch/ 21.3 Outlets	1 ½ 38	1 ⅝ 41
All ¾-inch/ 26.9 Outlets	1 ½ 38	1 ⅝ 41
All 1-inch/ 33.7 Outlets	1 ½ 38	1 ⅝ 41
All 1 ¼-inch/ 42.4 Outlets	1 ¾ 44	1 ⅞ 48
All 1 ½-inch/ 48.3 Outlets ***Except for*** ***920N 2 x 1 ½-inch/ 60.3 x 48.3 Outlets***	2 51 **1 ¾ 44**	2 ⅛ 54 **1 ⅞ 48**
All 2-inch/ 60.3 Outlets ***Except for*** ***920 8 x 2-inch/ 219.1 x 60.3 Outlets***	2 ½ 64 **2 ¾ 70**	2 ⅝ 67 **2 ⅞ 73**
All 2 ½-inch/ 73.0 Outlets	2 ¾ 70	2 ⅞ 73
All 76.1-mm/ Outlets	2 ¾ 70	2 ⅞ 73
All 3-inch/ 88.9 Outlets	3 ½ 89	3 ⅝ 92
All 4-inch/ 114.3 Outlets	4 ½ 114	4 ⅝ 118
All 108.0-mm/ Outlets	4 ½ 114	4 ⅝ 117

7.1 REFERENCE MATERIALS

05.01: Victaulic® Seal Selection Guide
29.01: Victaulic® Terms and Conditions of Sale
I-IMPACT: Impact Tool Usage Guidelines
I-100: Victaulic Field Installation Handbook
I-920/920N: Installation instruction *Mechanical-T* branch outlet
10.01: Victaulic® Certification Reference Guide

