STYLE 606



The Victaulic copper connection system is a concept for joining large diameter copper tubing based upon the Victaulic grooved system for steel pipe. introduced in 1925. The grooved piping concept is now available to join hard drawn copper tubing (CTS) in 2 - 8"/54.0 - 206.4 mm sizes.

The system uses a proven pressure-responsive synthetic rubber gasket to seal on the outside diameter of the tubing. This means no heat is required and no lead is used. The coupling housing surrounds the gasket gripping into grooves rolled into the tubing. The housing is isolated from the fluid but provides the gripping strength for pressure ratings up to 300 psi/2065 kPa. depending on the wall thickness and diameter of copper tubing.

Compatible copper fittings in 90°. 45° elbow. tee. and reducing configurations are supplied grooved ready for installation.

Victaulic Vic-Easy® roll grooving tools VE272SFS. VE270FSD. VE268. VE416FSD. and VE414MC can be used to roll groove Types K. L. M and DWV copper tubing from 2 – 8"/54.0 – 206.4 mm. The Vic-Easy VE226C can be used for 2 - 6"/54.0 - 155.6 mm copper tubing. The VE26C allows in-place manual grooving of 2 - 6"/54.0 - 155.6 mm copper tubing. Tools must be equipped only with Victaulic rolls designed specifically for grooving copper tube (color coded copper).

CAUTION

. DO NOT use rolls intended for steel . stainless steel. aluminum or PVC pipe.

The Victaulic copper connection system is available in Australian Standard (Request 22.10). British Standard (Request 22.08) and DIN Standard (Request 22.09).



PATENTED

MATERIAL SPECIFICATIONS

Housing: Ductile iron conforming to ASTM A-536, grade 65-45-12. Ductile iron conforming to ASTM A-395. grade 65-45-15. is available upon special request.

Housing Coating: Copper colored alkyd enamel.

• Grade "E" FlushSeal® EPDM

EPDM (Copper color code). Temperature range -30°F to +230°F/-34°C to +110°C. Recommended 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 ANSI/NSF 61 for cold +86°F/+30°C and hot +180°F/+82°C potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.

• Optional: Grade "T" FlushSeal® nitrile

Nitrile gaskets available for oil services. Contact Victaulic for details.

Services listed are General Service Recommendations only. It should be noted that there are services for which these gaskets are not recommended. Reference should always be made to the latest Victaulic Gasket Selection Guide for specific gasket service recommendations and for a listing of services which are not recommended.

Bolts/Nuts: Heat-treated plated carbon steel. trackhead meeting the physical and chemical requirements of ASTM A-449 and physical requirements of ASTM A-183.

JOB OWNER	CONTRACTOR	ENGINEER
System No	Submitted By	Spec Sect Para
Location	Date	Approved
		Date

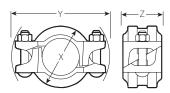
STYLE 606





PATENTED

DIMENSIONS



TYPICAL FOR ALL SIZES

TUBING	Allow Pipe End Sep. #	Bolt/Nut No. – Size			Dim	Approx. Weight Ea.		
Nominal Inches Actual mm	Inches/mm	Inches/mm @						Lbs./kg
2 54.0	0.06 1.5	2 - 3/8	X	2	3.17 81	4.86 123	1.75 45	1.5 0.7
2½ 66.7	0.06 1.5	2 - 3/8	X	2	3.67 93	5.34 136	1.75 45	2.0 0.9
3 79.4	0.06 1.5	2 – ½	X	2 3/4	4.17 106	6.50 165	1.75 45	2.2 1.0
4 104.8	0.06 1.5	2 - 5/8	X	23/4	5.17 131	7.34 186	1.75 45	3.2 1.5
5 130.2	0.06 1.5	2 - 5/8	X	3 1/4	6.23 158	9.21 234	1.75 45	4.9 2.2
6 155.6	0.06 1.5	2 - 5/8	X	3 1/4	7.20 183	10.13 257	1.75 45	5.7 2.6
8 206.4	0.06 1.5	2 - 5/8	X	4 1/4	9.40 239	12.42 315	1.88 48	7.2 3.3

Refer to notes on page 4.

STYLE 606





PERFORMANCE

The Victaulic copper connection system has been thoroughly tested on Types K, L, M and DWV hard drawn copper tubing. Performance ratings apply to Victaulic Style 606 coupling, Series 608 butterfly valve, Style 641 Vic-Flange® adapter, and roll grooved copper fittings connected to the indicated Types of tubing.

TUBING	Type "K" – ASTM B-88				Type "L" – ASTM B-88			
Nominal	Wall	Wall Thick.	Max. *	Max. *	Wall	Wall Thick.	Max. *	Max. *
Inches	Thick.	Tolerances	Joint Wk.	Permis.	Thick.	Tolerances	Joint Wk.	Permis.
Actual	Inches	Inches	Press.	End Load	Inches	Inches	Press.	End Load
mm	mm	mm	psi/kPa	Lbs./N	mm	mm	psi/kPa	Lbs./N
2	0.083	± 0.008	300	1.065	0.070	± 0.007	300	1.065
54.0	2.1	± 0.20	2065	4740	1.8	± 0.18	2065	4740
2 ½	0.095	± 0.010	300	1.625	0.080	± 0.008	300	1.625
66.7	2.4	± 0.25	2065	7230	2.0	± 0.20	2065	7230
3	0.109	± 0.011	300	2.300	0.090	± 0.009	300	2.300
79.4	2.8	± 0.28	2065	10235	2.3	± 0.23	2065	10235
4	0.134	± 0.013	300	4.005	0.110	± 0.011	300	4.005
104.8	2.8	± 0.33	2065	17825	2.8	± 0.28	2065	17825
5	0.160	± 0.016	300	6.190	0.125	± 0.012	300	6.190
130.2	4.1	± 0.41	2065	27550	3.2	± 0.30	2065	27550
6	0.192	± 0.019	300	8.840	0.140	± 0.014	300	8.840
155.6	4.9	± 0.48	2065	39340	3.6	± 0.36	2065	39340
8	0.271	± 0.027	300	15.550	0.200	± 0.020	300	15.550
206.4	6.9	± 0.69	2065	69200	5.1	± 0.51	2065	69200

Refer to notes on page 4.

TUBING	Type "M" – ASTM B-88				DWV – ASTM B-306			
Nominal	Wall	Wall Thick.	Max. *	Max. *	Wall	Wall Thick.	Max. *	Max. *
Inches	Thick.	Tolerances	Joint Wk.	Permis.	Thick.	Tolerances	Joint Wk.	Permis.
Actual	Inches	Inches	Press.	End Load	Inches	Inches	Press.	End Load
mm	mm	mm	psi/kPa	Lbs./N	mm	mm	psi/kPa	Lbs./N
2 54.0	0.058 1.5	± 0.006 ± 0.15	250 1725	890 3960	_	_	_	_
2½ 66.7	0.065 1.7	± 0.006 ± 0.15	250 1725	1.350 6010	_	_	_	_
3	0.072	± 0.007	250	1.415	0.045	± 0.004	100	765
79.4	1.8	± 0.187	1725	6300	1.1	± 0.10	690	3405
4	0.095	± 0.010	250	3.340	0.058	± 0.007	100	1.335
104.8	2.4	± 0.25	1725	14865	1.5	± 0.18	690	5940
5	0.109	± 0.011	200	4.125	0.072	± 0.008	100	2.060
130.2	2.8	± 0.28	1375	18360	1.8	± 0.20	690	9170
6	0.122	± 0.012	200	5.890	0.083	± 0.008	100	2.945
155.6	3.2	± 0.30	1375	26210	2.1	± 0.20	690	13105
8	0.170	± 0.017	200	10.370	0.109	± 0.011	100	5.180
206.4	4.3	± 0.43	1375	46100	2.8	± 0.28	690	23000

Refer to notes on page 4.

STYLE 606





GENERAL NOTES

- * Working Pressure and End Load are total, from all internal and external loads, based on hard drawn copper tubing of the weight indicated, roll grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.
 - WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to $1\frac{1}{2}$ times the figures shown.
- # For field installation only. Style 606 is essentially rigid and does not permit expansion/contraction.
- @ Number of bolts required equals number of housing segments.

Metric thread size bolts are available (color coded gold) for all coupling sizes upon request. Contact Victaulic for details.

WARNING: Depressurize and drain the piping system before attempting to install, remove or adjust any Victaulic piping products

WARRANTY

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

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.

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