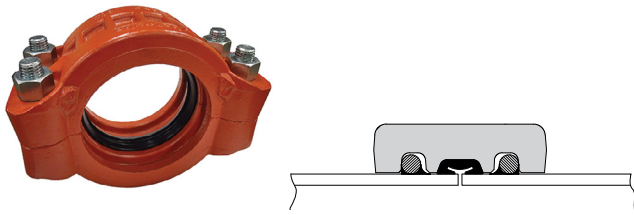


High Pressure Coupling for Ring Systems

Style 809



15.02



Product Description:

Style 809 couplings were developed to address industry needs for a reliable high pressure coupling that maintains full pipe wall thickness without intrusion into the pipe ID. The Style 809 coupling accommodates working pressures up to 3000 psi/20700 kPa on 6 – 10”/ 150 – 250 mm Schedule 80 or heavier wall carbon steel pipe. The Style 809 coupling provides high pressure joint integrity while maintaining a degree of flexibility to facilitate joint assembly.

Style 809 couplings engage directly onto rings (supplied with coupling) welded to the O.D. of the pipe. Applications include high-pressure injection for the oil and gas industries, high-pressure slurry lines, hydraulic mining, high pressure sludge piping, industrial piping and hydraulic systems.

Ring clamps are available to hold the rings in proper position to facilitate installation. One ring clamp is designed for 6 – 8”/150 – 200 mm sizes and a second clamp is specifically for the 10”/250 mm size only. Contact Victaulic for details.

Ring Clamps provided to hold ring in place during welding



Ring Clamp for 10”/273mm Pipe Size



Ring Clamp for 6 -8”/ 150 - 200mm Pipe Sizes

Job/Owner

System No.	
Location	

Contractor

Submitted By	
Date	

Material Specifications:

Housing:

Ductile iron conforming to ASTM A-536, Grade 65-45-12.

Housing Coating: Orange enamel

Optional: Hot dip galvanized and others

Coupling Gasket¹:

Grade “HMT” High Modulus Nitrile

Specially compounded with excellent oil resistance and a high modulus for resistance to extrusion. Temperature range is –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. For maximum gasket life under pressure extremes, the temperature should be limited to +120°F/+49°C.

¹ 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.

Ring Material:

Carbon Steel AISI 1018 or equivalent.

Bolts/Nuts:

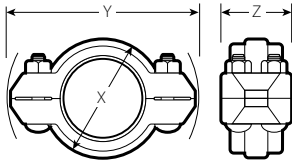
Zinc electroplated carbon steel, trackhead meeting the physical and chemical requirements of ASTM A-449 and physical requirements of ASTM A-183.

Engineer

Spec Section	
Paragraph	
Approved	
Date	



Dimensions:



Typical for all sizes

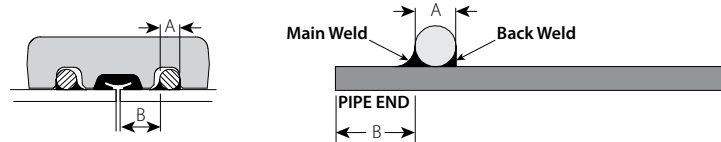
Nominal Size inches mm	Actual Outside Diameter inches mm	Dimensions			Bolt/Nut (No.) size inches	Bolt Torque lbs. N-m	B, C Max. Deflection From Center Line		Allow. Pipe End Separation inches mm	Approx. Weight Each lbs. kg
		X inches mm	Y inches mm	Z inches mm			Degrees Per Cplg.	In./Ft. mm/m		
6 150	6.625 168.3	9.75 248	12.88 327	6.38 162	4 – 1 x 5 M24 x 127	450 610	1.08	0.23 18	0 - 0.125 3.2	61.0 27.7
8 200	8.625 219.1	11.75 299	15.75 400	7.25 184	4 – 1-1/8 x 6 M27 x 152.4	500 678	0.83	0.18 14	0 - 0.125 3.2	83.0 37.7
10 250	10.750 273.0	14.00 356	18.00 457	7.25 184	4 – 1-1/8 x 6 M27 x 152.4	500 678	0.67	0.14 12	0 - 0.125 3.2	106.0 48.1

Published figures are maximum allowable deflection of pipe from centerline, subject to tolerances (see Design Data). See Note B.

NOTE B: Maximum Pipe Movement will be reduced by Deflection.

NOTE C: Refer to Design Data for information on tolerances and pipe gap settings.

Performance data:



1		2	3	4	5	6			
Pipe Size		Nominal Steel Pipe Dimension		D Maximum Joint Working Pressure	Maximum Permiss. End Load	Pipe Prep			
Nominal Size inches mm	Actual Outside Diameter inches mm	Wall Thick.	Sched. No.			A Ring Size	B	Main Weld Size	Back Weld Size
6 150	6.625 168.3	0.432 11.0	80	3000 20690	103415 460012	0.50 13	1.22 31	0.25 6	0.13 3
8 200	8.625 219.1	0.500 12.7	80	3000 20690	175279 779680	0.50 13	1.22 31	0.25 6	0.13 3
10 250	10.750 273.0	0.593 15.1	80	3000 20690	226907 1008475	0.63 16	1.22 31	0.31 8	0.16 4

COLUMN 1 – Victaulic couplings are identified by nominal pipe size.

COLUMN 2 – Nominal pipe wall thickness. For data with other wall thicknesses contact Victaulic.

COLUMN 3 – Pipe wall thickness schedule as established by ASME B36.10M.

COLUMN 4 – Maximum line pressure, including surge, to which a joint shall be subjected. Working pressure ratings are based on pipe prepared in accordance with Victaulic ring specifications. Maximum allowable working pressures for other pipe schedules or grades must be determined by applicable code requirements.

NOTE D: ONE TIME FIELD TEST ONLY. The Maximum Joint Working Pressure may be increased to 1 1/2 times the figures shown.

COLUMN 5 – Maximum end load from all internal and/or external forces to which the joint should be subjected under working conditions.

COLUMN 6 – The main fillet weld shall be no greater than half the ring size and the back fillet weld shall be half the main weld size. Any excess weld material at the back weld must be ground flush to the ring surface.

Installation

Reference should always be made to the I-100 Victaulic Field Installation Handbook for the product you are installing. Handbooks are included with each shipment of Victaulic products for 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.

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.

Trademarks

Victaulic and Zero-Flex are registered trademarks of Victaulic Company.