Victaulic® High Pressure Coupling Style 808

15.01

PATENTED

Product Description:

Style 808 is a double-bolted coupling designed specifically for use with Schedule 80 or heavier grooved steel pipe for working pressures up to 4000 psi/27500 kPa on 6"/150 mm pipe, 3500 psi/24000 kPa on 8"/200 mm pipe, 3000 psi/20500 kPa on 10"/250 mm pipe and 2500 psi/17250 kPa on 12"/300 mm pipe. This coupling provides superior joint integrity at high pressures while maintaining a degree of flexibility to facilitate joining.

Style 808 was developed in response to industry needs for a reliable high-pressure coupling particularly for mining, municipal and oilfield applications.

Style 808 couplings engage directly into double grooved pipe without the need for special weld-on nipples or collars. They are excellent for numerous applications such as high-pressure injection for the oil and gas industries, high-pressure slurry lines, hydraulic mining, high pressure sludge piping, industrial piping and hydraulic systems.

Material Specifications:

Housing:

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

Housing Coating: (specify choice)

Standard: Orange enamel

☐ Optional: Hot dipped galvanized and others

Coupling Gasket: (specify choice[1])

NOTE: Additional gasket styles are available. Contact Victaulic for details.

☐ Grade “HMT” - High Modulus Nitrile (Standard or EndSeal- Specify choice on order)

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°C/+66°C or for hot dry air over +140°C/+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.

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

System No.	
Location	

Contractor

Submitted By	
Date	

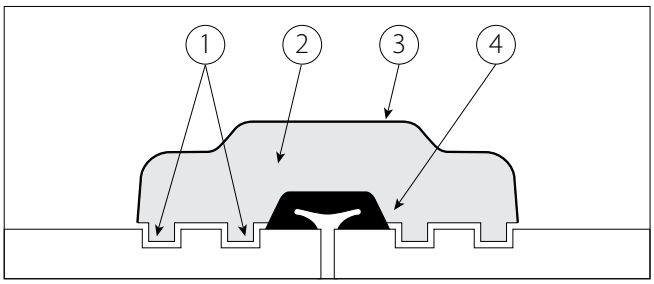
Engineer

Spec Section	
Paragraph	
Approved	
Date	

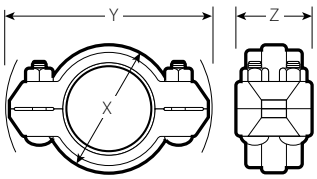
Features:

1. Unique double groove engagement (patented) of mating coupling keys provide superior joint integrity at high pressures by distributing pipe end loads.
2. Rugged, heavy duty ductile iron housings assure firm, secure engagement of the pipe.
3. Housing design provides increased strength at points of high stress for high pressure security.
4. Proven pressure-responsive gasket provides triple sealing efficiency and has high modulus for resistance to extrusion.

Double bolting on each side reinforces double groove positioning for positive high pressure reliability.



Dimensions:



Typical for all sizes.

Nominal Size inches mm	Actual Outside Diameter inches mm	Dimensions X inches mm	Y inches mm	Z inches mm	Bolt/Nut No.	Diameter X Length	Minimum Bolt Torque[1] Lb. Ft. N•m	Approx. Weight Each lbs. kg
6 150	6.625 168.3	8.75 222	13.75 349	3.88 99	4	1 × 5	450 610	36.0 16.3
8 200	8.625 219.1	11.18 284	15.75 400	4.75 121	4	1⅛ × 6	500 678	70.0 31.8
10 250	10.750 273.0	13.44 341	18.13 461	4.75 121	4	1⅛ × 6	500 678	85.0 38.6
12[2] 300	12.750 323.9	16.13 410	21.25 540	4.50 114	4	1¼ × 6[3]	600 813	105.0 48.0

1 To achieve adequate tension on the bolts this is the minimum torque which must be applied.

2 Available as special order item. Please contact Victaulic Engineered Products.

3 Also available with metric M30 x 152mm bolts and nuts.

Performance Data:

1		2	3	4	5	6	7	8	9
Pipe Size		**Nominal Steel Pipe Dimension** inches mm		**A Max. Joint** Work. Press.	**Max. Permiss.** End Load	**B, C Pipe End Sep. Standard Gasket** Min. – Max.	**B, C Pipe End Sep. "ES" Gasket** Min. – Max.	**B, C** Max. Deflection From Center Line	
Nominal Size inches mm	**Actual Outside Diameter** inches mm	**Wall Thick.**	**Sched. No.**	psi kPa	Lbs. N	inches mm	inches mm	**Degrees** Per Cplg.	**Pipe** In./Ft. mm/m
6 150	6.625 168.3	0.432 11.0	80	3000 20690	103415 460012	0.101 – 0.261 2.8 – 6.6	0.101 – 0.261 2.8 – 6.6	1° – 33´	0.35 29.2
6 150	6.625 168.3	0.719 18.3	160	4000 27586	137886 613347	0.101 – 0.261 2.8 – 6.6	0.101 – 0.261 2.8 – 6.6		0.35 29.2
8 200	8.625 219.1	0.500 12.7	80	3000 20690	175279 779680	0.188 – 0.438 4.8 – 11.1	0.260 – 0.510 6.6 – 13.0	1° – 39´	0.35 29.2
8 200	8.625 219.1	0.906 23.0	160	3500 24138	204492 909626	0.188 – 0.438 4.8 – 11.1	0.260 – 0.510 6.6 – 13.0		0.35 29.2
10 250	10.750 273.0	0.593 15.1	80	2500 17241	226907 1008475	0.188 – 0.438 4.8 – 11.1	0.260 – 0.510 6.6 – 13.0	1° – 20´	0.28 23.3
10 250	10.750 273.0	1.125 28.6	160	3000 20690	272288 1211197	0.188 – 0.438 4.8 – 11.1	0.260 – 0.510 6.6 – 13.0		0.28 23.3
12 300	12.750 323.9	0.688 17.5	80	2000 13793	255350 1135797	0.188 – 0.438 4.8 – 11.1	0.260 – 0.510 6.6 – 13.0	1° – 07´	0.24 20.0
12 300	12.750 323.9	1.312 33.3	160	2500 17241	319190 1419757	0.188 – 0.438 4.8 – 11.1	0.260 – 0.510 6.6 – 13.0		0.24 20.0

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 ANSI Standard B36.10.

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

NOTE A: 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.

COLUMNS 6 & 7 – Range of pipe end separation normally available on double cut grooved steel pipe. Maximum allowable movement is the difference between minimum and maximum pipe end separation subject to tolerances (see Design Data).

COLUMNS 8 & 9 – 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 (Col. 8 & 9) and vice versa.

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

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.

