

High Pressure Coupling

STYLE 808



PATENTED

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/27,586 kPa on 6"/150 mm pipe, 3500 psi/24,138 kPa on 8"/200 mm pipe, 3000 psi/20,690 kPa on 10"/250 mm pipe and 2500 psi/17,241 kPa on 12"/300 mm pipe. This coupling provides superior joint integrity at high pressures while maintaining a degree of flexibility to facilitate joining.

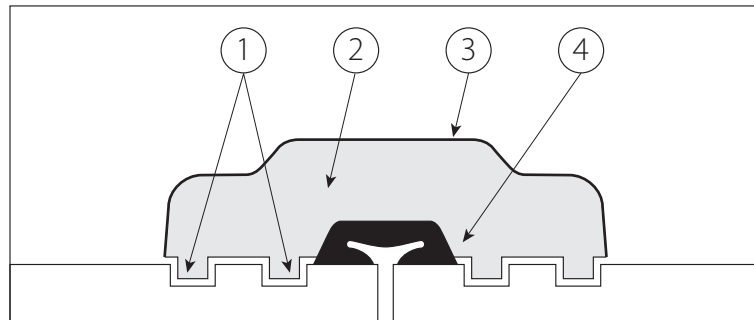
Style 808 was developed in response to industry needs for a reliable high-pressure coupling particularly for mining, municipal and oilfield applications.

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.

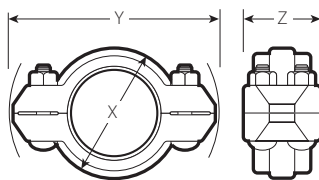
FEATURES

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

Pipe Size		Dimensions – Inches/mm			Bolt/Nut		Min. Bolt Torque @	Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	X	Y	Z	No.	Diameter X Length	Lb. Ft. N*m	Lbs. kg
6 150	6.625 168.3	8.75 222	13.81 351	5.00 127	4	1 x 5	450 610	36.0 16.3
8 200	8.625 219.1	11.18 284	16.08 408	5.75 146	4	1 1/2 x 6	500 678	70.0 31.8
10 250	10.750 273.0	13.44 341	18.68 473	6.38 162	4	1 1/2 x 6	500 678	85.0 38.6
12* 300	12.750 323.9	—	—	—	—	—	—	—

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

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

JOB/OWNER

System No. _____
Location _____

CONTRACTOR

Submitted By _____
Date _____

ENGINEER

Spec Sect _____ Para _____
Approved _____
Date _____

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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: Orange enamel

- **Optional:** Hot dipped galvanized and others

Coupling Gasket: (specify choice*)

- **Grade “N” nitrile**

Specially compounded with excellent oil resistance and a high modulus for resistance to extrusion. Temperature range -20°F to $+150^{\circ}\text{F}/-29^{\circ}\text{C}$ to $+66^{\circ}\text{C}$. Recommended for petroleum products, air with oil vapors, and vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over $+150^{\circ}\text{F}/+66^{\circ}\text{C}$ or for hot, dry air over $+140^{\circ}\text{F}/+60^{\circ}\text{C}$. For maximum gasket life under pressure extremes, temperature should be limited to $+120^{\circ}\text{F}/+49^{\circ}\text{C}$.

- **Grade “T” EndSeal®**

Specially compounded with excellent oil resistance and a high modulus for resistance to extrusion. Temperature range -20°F to $+150^{\circ}\text{F}/-29^{\circ}\text{C}$ to $+66^{\circ}\text{C}$. Recommended for petroleum products, air with oil vapors, and vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over $+150^{\circ}\text{F}/+66^{\circ}\text{C}$ or for hot, dry air over $+140^{\circ}\text{F}/+60^{\circ}\text{C}$. For maximum gasket life under pressure extremes, temperature should be limited to $+120^{\circ}\text{F}/+49^{\circ}\text{C}$.

* 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.

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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	103.410 459968	0.258 – 0.438 6.6 – 11.1	0.298 – 0.478 7.6 – 12.1	1° – 33'	0.35 29.2			
6 150	6.625 168.3	0.719 18.3	160	4000 27586	137.880 613290	0.258 – 0.438 6.6 – 11.1	0.298 – 0.478 7.6 – 12.1		0.35 29.2			
8 200	8.625 219.1	0.500 12.7	80	2500 17241	146.060 649675	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	204.490 909572	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	226.900 1009251	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	272.280 1211101	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	255.350 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	319.190 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. This figure provides a nominal safety factor of 3. 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 ½ 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.

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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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For complete contact information, visit www.victaulic.com

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