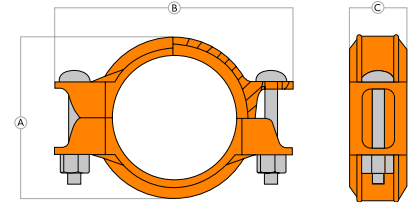




MUNRO STANDARD FLEXIBLE COUPLING

Standard Flexible Coupling M7705

Made to USA standards, to easily interchange with other major manufacturers, the Munro flexible coupling is ideal for use in countless piping applications where misalignment might be present. The M7705 can accommodate vibration, thermal stress and moderate seismic activity. This tried and true coupling offers pressure ratings to 500 psi, depending on pipe size and wall thickness.



TECHNICAL DATA

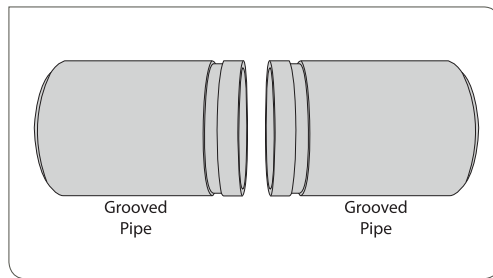
Couplings	Ductile iron, non-lead orange rust-inhibiting paint coating, ASTM A536, Grade 65-45-12
Nuts	Carbon steel and zinc plated: ASTM 563 Grade 2
Gaskets	Nitrile, orange color-coded, service temperature: -20°F to 180°F (-29°C to 82°C)
Bolts	Carbon steel, heat treated and zinc plated, tensile strength to 110,000 psi: ASTM A 183 Grade 2

Nominal Size	Pipe OD	Max. Working Pressure (CWP)	Dimensions			Bolts Qty	Bolts Size	Approx. Weight	Model Number
			A	B	C				
in/mm	in/mm	psi/bar	in/mm	in/mm	in/mm		in/mm	lb/kg	
2	2.375	500	3.31	5.08	1.89	2	3/8 x 2 1/8	1.8	M7705X2
50	60.3	35	84	129	48		M10 x 55	0.8	
3	3.5	500	4.57	6.65	1.89	2	1/2 x 3	2.8	M7705X3
80	88.9	35	116	169	48		M12 x 75	1.3	
4	4.5	500	5.71	7.76	2.05	2	1/2 x 3	4.1	M7705X4
100	114.3	35	145	197	52		M12 x 75	1.9	
6	6.625	450	7.87	10.55	2.44	2	5/8 x 3 1/2	6.4	M7705X6
150	168.3	31	200	268	62		M16 x 90	2.9	
8	8.625	300	10.24	13.78	2.52	2	5/8 x 3 1/2	11	M7705X8
200	219.1	20	260	350	64		M16 x 90	4.9	
10	10.750	300	13.50	16.73	2.52	2	3/4 x 4 3/4	16	M7705X10
250	273.0	20	343	425	64		M20 x 120	7.20	
12	12.750	300	15.35	18.39	2.52	2	7/8 x 6 1/2	22.5	M7705X12
300	323.9	20	390	467	64		M22 x 165	10.8	



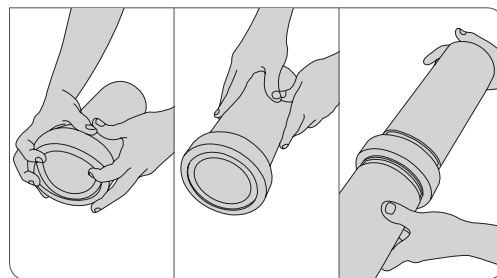
MUNRO FLEXIBLE COUPLING

Installation Guide



1. INSPECT GROOVED END PIPES OR FITTINGS

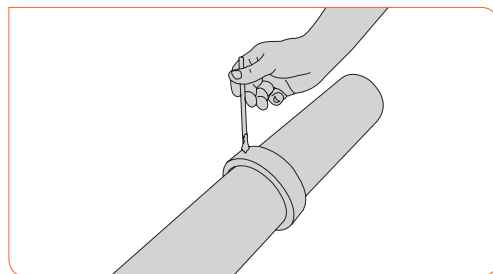
Make certain that any burrs, grease, dirt or foreign objects are removed from the grooved end. Ends must be free of sharp edges, indentations, or other defects.



2. INSTALL GASKET

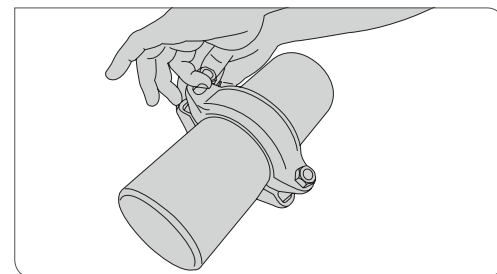
Inspect gasket to ensure that it is the correct material for the application and that it is clean and free of defects.

Slide the gasket over the end of the pipe until the gasket is not overhanging the end of the pipe. Next, align the two pipe ends and slide the gasket into place so that it is centered between the two pipe ends, between the groove on either pipe.



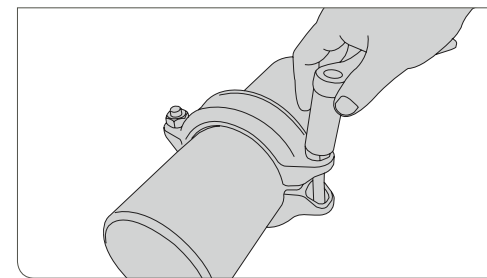
3. PREPARE GASKET

Coat the sealing edges and outer surface of the gasket with a thin layer of silicon-based lubricant (available from Munro).



4. INSTALL HOUSINGS AND BOLTS

Ensure that the gasket is free from burrs or any imperfections and that the gasket material and size is acceptable for the intended service. Slide the gasket over the pipe end so that it is flush with the pipe end. Next, butt up against and center with the other pipe. Slide the gasket into place, so that it is equally covering both pieces of pipe. Use the first set of lines that you marked on the pipe as a guide to ensure proper placement, centering the gasket between the pipes.



5. TIGHTEN NUTS

Using the torque specification table as a guide, ensure that the nuts are tightened alternately and equally until metal to metal contact is made with no gaps.

SPECIFIED BOLT TORQUE

Specified bolt torque is for the oval neck track bolts used on Munro couplings. The nuts must be tightened alternately and evenly until fully tightened. CAUTION: Use of an impact wrench is not recommended because the torque output can vary significantly due to many variables including air pressure supply, battery strength and operational variations.

Coupling Bolts In.	BOLT TORQUE	
	Minimum Ft.-Lbs./N-m	Maximum Ft.-Lbs./N-m
1/2 X 2 3/8 (2" couplings)	80 110	100 150
1/2 X 3 (3"- 4" couplings)	80 110	100 150
5/8 X 3 1/2 (6"- 8" couplings)	100 135	130 175
3/4 X 4 3/4 (10"- 12" couplings)	130 175	180 245

CAUTION

Proper torquing of coupling bolts is required to obtain specified performance. Over torquing the bolts may result in damage to the bolt and/or casting which could result in pipe joint separation. Under torquing the bolts may result in lower pressure retention capabilities, lower bend load capabilities, joint leakage and pipe joint separation. Pipe joint separation may result in significant property damage and serious injury.

