



HYDROMINE™ HMP_TE Range Of Taper Pipe Couplings

Overview:

The HYDROMINE™ HMP_TE Taper pipe coupling is a high-pressure pipe coupling, designed as an easy method of joining pipes. Also commonly termed quick couplings for steel pipes, the HYDROMINE™ HMP_TE couplings are used in high pressure piping systems. It speeds up installation time drastically when compared to flanges. The HYDROMINE™ HMP_TE was re-engineered by the HYDROMINE™ Projects International to be interchangeable with the original Anglo American / TE taper pipe coupling.

Using the HYDROMINE™ HMP_TE coupling will result in lower total capital expenditure due to the fact that it has a lower procurement cost, more pipes can be loaded per truck or rail carriage load, it takes less space when stored and most importantly, there will be a saving on labour as installation is quicker and easier than flanges. It can be installed in vertical mine shafts, inclines or horizontally. The HYDROMINE™ HMP_TE coupling can be used in pipe lines carrying liquids or abrasive material and is perfect for mining backfill pipes. The HYDROMINE™ HMP U-Coupling is newer technology and more cost effective than the HYDROMINE™ HMP_TE coupling.



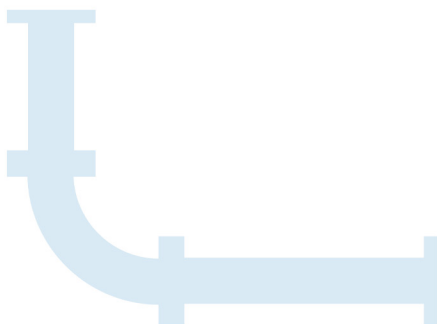
The HYDROMINE™ HMP_TE pipe coupling can be installed in a system where pipes hang on chains, parrot swings or are U-Bolted down onto pipe supports. Pipes should be anchored before and after every change of direction. The full range of HYDROMINE™ LFC_1B valves, LFC_8 expansion joints and LFC_7 energy dissipator can be manufactured with HYDROMINE™ HMP_TE coupling end connections.

Bolt Torque Settings:

Pipe sizes	Bolt Torque Figures						Number of bolts	Equivalent ANSI Flanges		
	Pressure rating		Bolts sizes		Bolt torque			Bolts sizes		Number of bolts
	(Mpa)	(Psi)	(metric)	(imperial)	(Nm)	ft lb		(metric)	(imperial)	
DN50 / 2"	25	3626	M16	5/8"	210	154.89	2	M24	1"	8
DN80 / 3"	25	3626	M16	5/8"	210	154.89	2	M30	1 1/4"	8
DN100 / 4"	25	3626	M16	5/8"	210	154.89	2	M33	1 1/4"	8
DN150 / 6"	25	3626	M20	3/4"	425	313.46	2	M36	1 1/2"	12
DN200 / 8"	25	3626	M24	1"	730	538.42	2	M42	1 3/4"	12

Materials Of Construction:

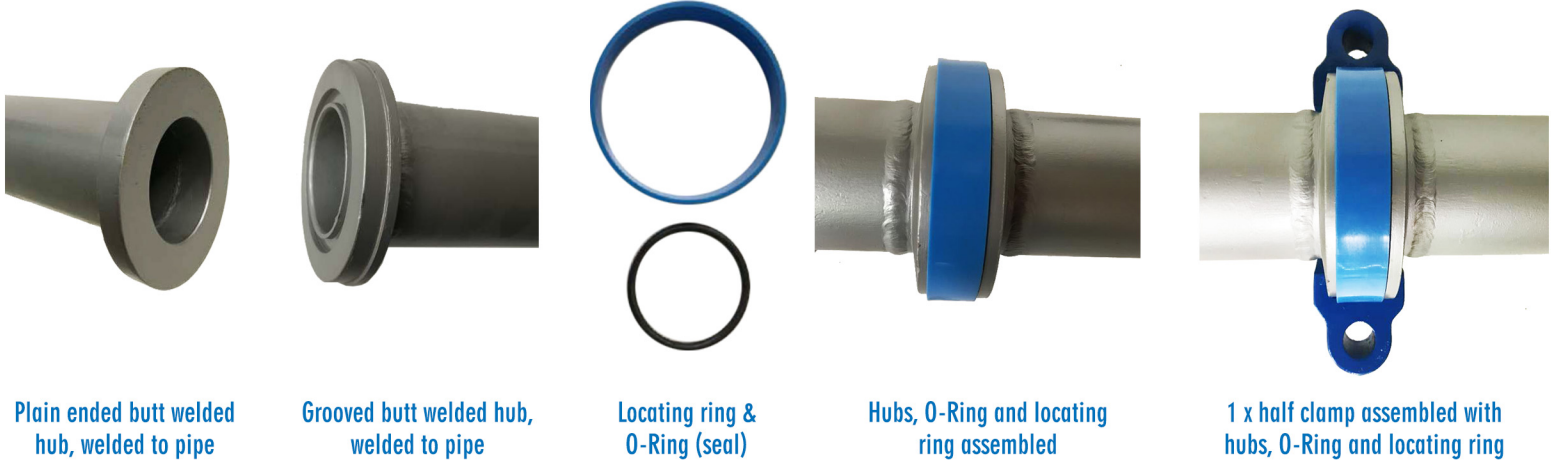
Part Name	Material Specification
Clamps	Casting - BS3100 Grade A2
Hubs # 1	Carbon steel
Hubs # 2	ASTM A105
Bolts	Grade 8.8, Hot dipped galvanized
Seals # 1	O-Ring - nitrile (Buna)
Seals # 2	O-Ring - polyurethane





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Parts:



Plain ended butt welded hub, welded to pipe

Grooved butt welded hub, welded to pipe

Locating ring & O-Ring (seal)

Hubs, O-Ring and locating ring assembled

1 x half clamp assembled with hubs, O-Ring and locating ring

Design & Manufacturing Standards:

The HYDROMINE™ HMP_TE Hydraulic coupling are designed in accordance with various international standards as set out below:

ASME Boilers and pressure vessels design code

ASME Sec. VIII, Div. 1&2

ANSI B16.34

Available sizes: DN50 / 2" to DN200 / 8"

Pressure rating: up to 25MPa / 3 626 psi

