



HMP™_TE Taper Pipe Coupling

Overview:

The 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 HMP™_TE couplings are used in high pressure piping systems. It speeds up installation time drastically when compared to flanges. The HMP™_TE was re-engineered by the Hydromine Projects International to be interchangeable with the original Anglo American / TE taper pipe coupling.

Using the 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 HMP™_TE coupling can be used in pipe lines carrying liquids or abrasive material and is perfect for mining backfill pipes. The HMP™_U-Coupling is newer technology and more cost effective than the HMP™_TE coupling.

The 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 HMP™ valves, expansion joints and energy dissipator can be manufactured with HMP™_TE coupling end connections.



Bolt Torque Settings:

Bolt Torque Figures							Equivalent ANSI Flanges			
Pipe sizes	Pressure rating		Bolts sizes		Bolt torque		Number of bolts	Bolts sizes		Number of bolts
Unit	(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

Design & Manufacturing Standards:

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

ASME Boilers and pressure vessels design code

ANSI B16.3

ANSI B16.34

ANSI N278.1

ANSI B16.37


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

Pressure rating: up to 25MPa / 3 626 Psi




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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

