1000 bar

TEMA Tema Profile

Body Size

1/4"

1000 bar

HP1000-Series

High Pressure



Technical Description
The Tema high pressure coupling was specially developed for use in industrial machinery, salvage devices and testing equipment. This series is galvanised and produced in steel. The plug part and the sleeve are hardened and galvanised in steel. The coupling can be supplied either with or without safety lock.

Advantages
- High flow as a result of optimised valve design.
- Additional plug sealing via polymer valve casing, to guarantee high reliability seals even with second-hand plugs.
- Tema high pressure couplings are supplied with dust caps inclusive!

Seals
Coupling: bonded seal washer
Plug: bonded seal or innercone

Working Pressure
1000 bar

Working Temperature
-30°C up to +100°C (NBR) depending on the medium. Special seals are available on request (see page 6).

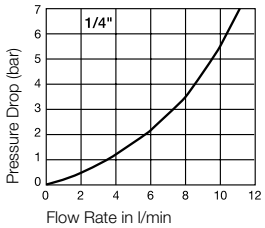
Available Valves

Material Coupling	Standard
Coupling Body	Steel, zinc plated, passivated, sealed
Sleeve	Steel, hardened, zinc plated, passivated, sealed
Valve	Steel, zinc plated, passivated, sealed
Springs	AISI 302
Locking Balls	AISI 420 C
Seals	NBR
Inner Sleeve	POM

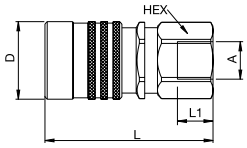
Plug	Standard
Plug Body	Steel, hardened, zinc plated, passivated, sealed
Valve	Steel, zinc plated, passivated, sealed
Springs	AISI 302
Seals	NBR
Valve Retainer	Steel, zinc plated, passivated

Applications Area

Flow Capacity with Oil with Viscosity of 32cSt at 40°C as per ISO 7241/2-2000



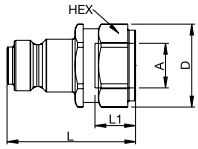
Couplings — HP1000-Series



Female Thread

Connection A	Hex mm	L mm	L1 mm	D mm	Safety Locking	Work. Pressure connect. in bar	Work. Pressure disconnect. in bar	Burst. Pressure connect. in bar	Part Number
G 1/4	24	59	12	27	without	1000	1000	>3000	HP1010 4131
G 1/4	24	59	12	27	with	1000	1000	>3000	HP1010 4132
1/4"-18 NPTF	24	59	12	27	without	1000	1000	>3000	HP1010 5131
1/4"-18 NPTF	24	59	12	27	with	1000	1000	>3000	HP1010 5132
G 3/8	24	59	12	27	without	1000	1000	>3000	HP1010 4171
G 3/8	24	59	12	27	with	1000	1000	>3000	HP1010 4172
3/8"-18 NPTF	24	59	13	27	without	1000	1000	>3000	HP1010 5171
3/8"-18 NPTF	24	59	13	27	with	1000	1000	>3000	HP1010 5172

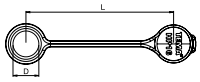
Plugs — HP1000-Series

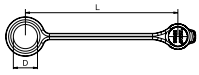


Female Thread

Connection A	Hex mm	L mm	L1 mm	D mm	Safety Locking	Work. Pressure connect. in bar	Work. Pressure disconnect. in bar	Burst. Pressure connect. in bar	Part Number
G 1/4	22	37	12	24,5		1000	1000	>3000	HP1020 413
1/4"-18 NPTF	22	37	12	24,5		1000	1000	>3000	HP1020 513
G 3/8	24	37	12	24,5		1000	1000	>3000	HP1020 417
3/8"-18 NPTF	24	37	13	24,5		1000	1000	>3000	HP1020 517

Dust Protection — HP1000-Series





Version	L mm	D mm	Material	Color	Part Number
for coupling	120	21	PVC	Blue	HP16
for coupling	125		Aluminium	Red	HP16ARD
for plug	120	19	PVC	Blue	HP26
for plug	140		Aluminium	Red	HP26ARD

⚠ Please consider our security advices on the pages 12/13 ⚠