



Body Size

1/4"

1000 bar

HP1000-Series



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

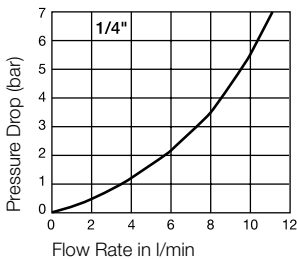


Applications Area



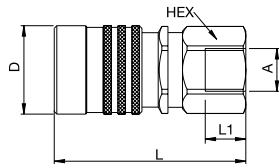
Material Coupling	Standard
Coupling Body	Steel, zinc plated, passivated, sealed
Sleeve	Steel, hardened, zinc plated, passivated, sealed
Valve	Steel, zinc plated, passivated, sealed
Springs	AISI 302
Locking Balls	AISI 420 C
Seals	NBR
Inner Sleeve	POM
Plug	Standard
Plug Body	Steel, hardened, zinc plated,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

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



Couplings

HP1000-Series

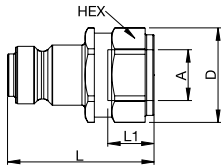


Female Thread

Conne- ction 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

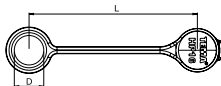


Female Thread

Conne- ction 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



Body Size

1/4"

1500 bar

HP1500-Series



Technical Description

The Tema high pressure coupling was specially developed for use in bolt tensioning equipment. This series is produced in steel. The plug bodies and the sleeves are black galvanised. The coupling can be supplied either with or without additional 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

Metal sealing cone threaded adapters/metal sealing cone adapters.

Working Pressure

1500 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

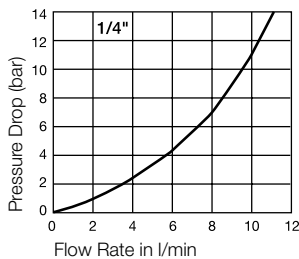


Applications Area



Material Coupling	Standard
Coupling Body	Steel, zinc-nickel coated, black passivated, sealed
Sleeve	Steel, hardened, zinc-iron coated, black 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-iron coated, black passivated, sealed
Valve	Steel, zinc plated, passivated, sealed
Springs	AISI 302
Seals	NBR
Valve Retainer	Steel, zinc plated, passivated

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

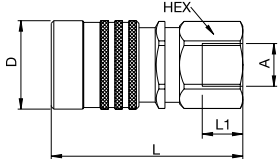
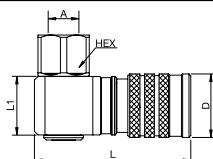


Couplings

HP1500-Series

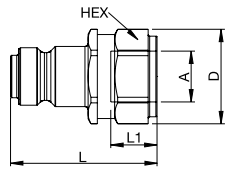
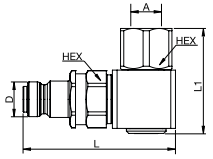
1500 bar

High Pressure

	Conne- ction 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
 <p>Female Thread</p>	G 1/4	24	59	12	27	without	1500	1500	>3500	HP1510 4131
	G 1/4	24	59	12	27	with	1500	1500	>3500	HP1510 4132
	1/4"-18 NPTF	24	59	12	27	without	1500	1500	>3500	HP1510 5131
	1/4"-18 NPTF	24	59	12	27	with	1500	1500	>3500	HP1510 5132
	G 3/8	24	59	12	27	without	1500	1500	>3500	HP1510 4171
	G 3/8	24	59	12	27	with	1500	1500	>3500	HP1510 4172
 <p>Female Thread 90°</p>	G 1/4	22	67	45	27,2	with	1500	1500	>3500	HP1510 4131S90

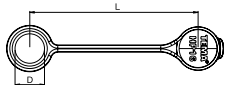
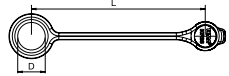
Plugs

HP1500-Series

	Conne- ction 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
 <p>Female Thread</p>	G 1/4	22	38	12	24,5		1500	1500	>3500	HP1520 413
	1/4"-18 NPTF	22	38	12	24,5		1500	1500	>3500	HP1520 513
 <p>Female Thread 90°</p>	G 1/4	22	65	45	14,9		1500	1500	>3500	HP1520 413S90

Dust Protection

HP1500-Series

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



Body Size

1/4"

2500 bar

HP2500-Series



Technical Description

The Tema high pressure coupling was specially developed for use in industrial machinery, salvage devices and testing equipment. The coupling can be supplied with or without safety lock.

Advantages

- High flow as a result of optimised valve design.
- Tema high pressure couplings are supplied with dust caps inclusive!
- Dry break – no oil loss during disconnection and no inclusion of air during connection.
- Plug can withstand static pressure disconnected up to full working pressure.

Working Pressure

2500 bar

Working Temperature

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

Flow Capacity

4.5 l/min @ 4 bar dP

Available Valves

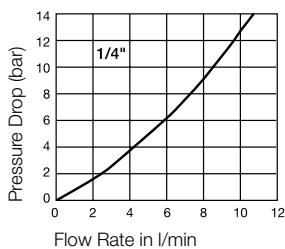


Applications Area



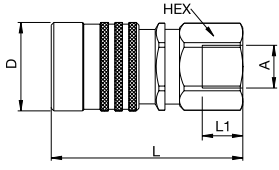
Material Coupling	Standard
Coupling Body	Steel, zinc plated, passivated, sealed
Back Body	Steel, zinc plated, passivated, sealed
Sleeve	Steel, hardened, zinc plated, passivated, sealed
Valve	Steel, zinc plated, passivated, sealed
Springs	AISI 302
Locking Balls	AISI 420 C
Seals	NBR
Inner Sleeve	POM
Plug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

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



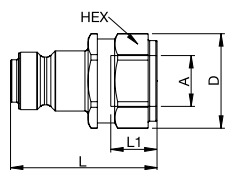
Couplings

HP2500-Series

	Conne- ction 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
 <p>Female Thread</p>	G 1/4	24	64	12	30	without	2500	2500	>5000	HP2510 4131

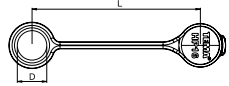
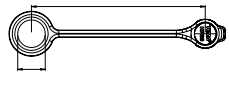
Plugs

HP2500-Series

	Conne- ction 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
 <p>Female Thread</p>	G 1/4	22	38	12	24,5		2500	2500	>5000	HP2520 413

Dust Protection

HP2500-Series

	Version	L mm	D mm	Material	Color	Part Number
	for coupling	120	21	PVC	Blue	HP2516
	for plug	120	19	PVC	Blue	HP2526

Up to 2000 bar

Adapters HP-Series



Technical Description

Range of adapters developed for HP1000 and HP1500 series. To achieve other thread ports then existing in the standard range.

Advantages

The adapters makes the HP series more flexible and easy to connect to different fittings and hose packages.

Seals

See chart.

Working Pressure

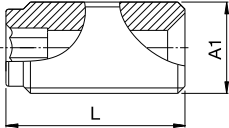
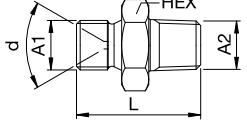
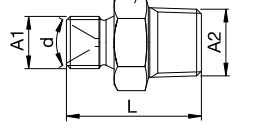
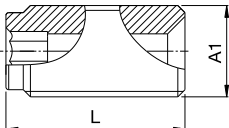
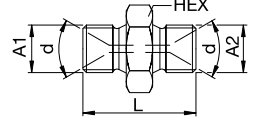
Various - from 1000 to 2000 bar

Working Temperature

-30°C up to +100°C

Material	Standard
Adapters	Steel, Zinc plated and passivated

High Pressure Adapters

	Connec- tion A1	Seal 1	Connection A2	Seal 2	Hex mm	L mm	Working Pressure bar	Part Number
	G 1/4	Rubber / Steel				25	1000	HP13-01
	G 1/4	Rubber / Steel	R 1/4	Inside Thread	21	33	1000	HP13-03
	G 1/4	Rubber / Steel	3/8-18 NPTF	Inside Thread	21	34	1500	HP13-04
	G 1/4	Rubber / Steel				25	1500	HP13-06
	G 1/4	Inner Cone 60°	G 1/4	Inner Cone 60°	21	31,3	2000	HP13-07