

HP2500 - THE CONVINCING NEW ARRIVAL IN OUR HP-SERIES

High Pressure



Parker Tema HP-Series - the complete range from 1000 to 2500 bar

The Parker Tema product spectrum in the high-pressure range is rounded off with the HP2500 series for operating pressure up to 2500 bar. The HP-Series is available in three versions for different operating pressures: HP1000 for operating pressure up to 1000 bar, HP1500 up to 1500 bar, and the new HP2500 is suitable for operating pressure up to 2500 bar.



Optimised safety

With a design factor of 2,3 up to 3, the HP-Series is impressive with respect to safety issues. With the special valve design, the HP-Series guarantees full operating pressure even when disconnected.



Dust caps included

With the Parker Tema HP-Series, blue PVC dust caps are included. The dust caps protect both the coupling and the plug from dust and dirt when disconnected.



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Edition: November 2015 1./LEAF/3800-HP-Serie/UK

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ENGINEERING YOUR SUCCESS.

HP-Series High-pressure couplings

for the pressure range up to 2.500 bar



ENGINEERING YOUR SUCCESS.

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

THE RIGHT HIGH-PRESSURE COUPLING FOR YOUR APPLICATION

The complete Parker product spectrum for applications in the high-pressure range with specific product features and the corresponding applications can be found here at a glance. In sizes from 1/8" to 1/2" and in the pressure range up to 3000

bar, whether in steel, stainless steel or high-pressure stainless steel: Parker has the right high-pressure coupling for your application.

Series	Size	Pressure range	Material	Specific product features	Applications
73-Series (Snap-tite)	1/4"	up to 3000 bar	Stainless steel	<ul style="list-style-type: none"> Sleeve with screw lock prevents accidental disconnection 	<ul style="list-style-type: none"> Waterjet cutting Pressure washer for industry Drilling platforms Testing stands
77-Series (Snap-tite)	1/4"	up to 2482 bar (Steel) up to 1379 bar (Stainless steel)	Steel Stainless steel	<ul style="list-style-type: none"> Drybreak Dog lock mechanism prevents ball brinelling 	<ul style="list-style-type: none"> Hydraulic test stands Water pressure testing Controlling the underwater peripherals
71-Series (Snap-tite)	1/8" to 1/2"	up to 690 bar	Steel Stainless steel High-pressure stainless steel	<ul style="list-style-type: none"> Available in 3 different materials Minimal leakage 	<ul style="list-style-type: none"> Chemical plants Test stands High-pressure pumps
FF2500	1/4"	up to 800 bar	Steel	<ul style="list-style-type: none"> FlatFace design Available with pressure eliminator High flow - 30 l/min. at pressure drop 3 bar 	<ul style="list-style-type: none"> Tools with extremely high torque
3000-Series	1/4" and 3/8"	up to 700 bar	Steel	<ul style="list-style-type: none"> Screw lock optimal for use with high mechanical and hydraulic load Available with either ball or cone valve 	<ul style="list-style-type: none"> Mobile hydraulic pumps Hydraulic winches and hoists Hydraulic presses Rescue equipment
SK-Series	1/4" and 3/8"	SK10: up to 750 bar SK06: up to 1100 bar	Stainless steel	<ul style="list-style-type: none"> High-pressure stainless steel coupling for corrosive environments Screw coupling - can be connected under residual pressure 	<ul style="list-style-type: none"> Offshore Oil & gas
HP1000-Series	1/4"	up to 1000 bar	Steel	<ul style="list-style-type: none"> Interchangeable with Cejn 115 Full working pressure even when disconnected 	<ul style="list-style-type: none"> Hydraulic high-pressure pumps Hydraulic rescue equipment Hydraulic tools
HP1500-Series	1/4"	up to 1500 bar	Steel	<ul style="list-style-type: none"> Interchangeable with Cejn 116 Full working pressure even when disconnected 	<ul style="list-style-type: none"> Hydraulic high-pressure pumps Hydraulic rescue equipment Hydraulic tools
HP2500-Series	1/4"	up to 2500 bar	Steel	<ul style="list-style-type: none"> Interchangeable with Cejn 125 Full working pressure even when disconnected 	<ul style="list-style-type: none"> Hydraulic high-pressure pumps Bolt tensioning devices Torque wrenches



Size
1/4"



1000 / 1500 / 2500 bar
HP-Series



Technical Description
The Parker Tema high pressure couplings were specially developed for use in industrial machinery, test equipment, rescue equipment, bolt tensioning, torque wrenches etc.
The couplings of HP1000 and HP1500 can be supplied either with or without additional safety lock.

Advantages

- High flow as a result of optimised valve design.
- 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.
- Parker Tema high pressure couplings are supplied with dust caps inclusive (see Hydraulic Catalogue).

Seals HP1000
Coupling: bonded seal washer
Plug: bonded seal or innercone

Seals HP1500/HP2500
Metal sealing cone threaded adapters/metal sealing cone adapters.

Working Pressure
HP1000 - 1000 bar
HP1500 - 1500 bar
HP2500 - 2500 bar

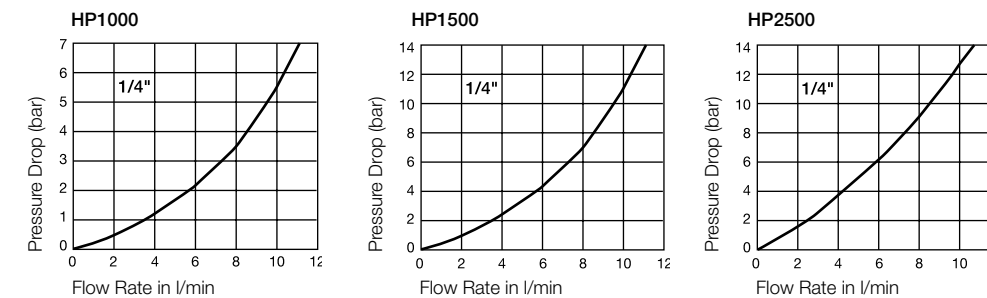
Working Temperature
-30°C up to +100°C (NBR) depending on the medium.
Special seals are available on request.

Available Valves:



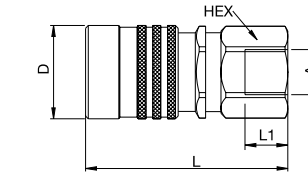
Material Coupling	HP1000	HP1500	HP2500
Coupling Body	Steel, zinc plated, passivated, sealed	Steel, zinc-nickel plated, black passivated, sealed	Steel, zinc plated, passivated
Back Body		Steel, zinc-nickel plated, black passivated, sealed	Steel, nitro carburized
Sleeve	Steel, hardened, zinc plated, passivated, sealed	Steel, hardened, zinc-iron plated, black passivated, sealed	
Valve	Steel, zinc plated, passivated, sealed	Steel, zinc plated, passivated, sealed	
Springs	AISI 302	AISI 302	AISI 302
Locking Balls	AISI 420 C	AISI 420 C	AISI 420 C
Seals	NBR	NBR	NBR
Inner Sleeve	POM	POM	POM
Material Plug	HP1000	HP1500	HP2500
Plug Body	Steel, hardened, zinc plated, passivated, sealed	Steel, hardened, zinc-nickel plated, black passivated, sealed	
Valve	Steel, zinc plated, passivated, sealed	Steel, zinc plated, passivated, sealed	
Springs	AISI 302	AISI 302	AISI 302
Seals	NBR	NBR	NBR
Valve Retainer		Steel, zinc plated, passivated	

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

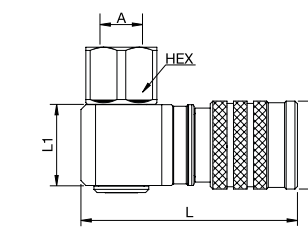


Couplings HP1000/1500/2500-Series

Connection A	Hex mm	L mm	L1 mm	D mm	Safety Locking	Working Pressure connected bar	Working Pressure disconnected bar	Bursting Pressure connected 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
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
3/8"-18 NPTF	24	59	13	27	without	1500	1500	>3500	HP1510 5171
3/8"-18 NPTF	24	59	13	27	with	1500	1500	>3500	HP1510 5172
G 1/4	24	64	12	30	without	2500	2500	>6000	HP2510 4131
G 1/4	22	67	45	27,2	with	1500	1500	>3500	HP1510 4131S90



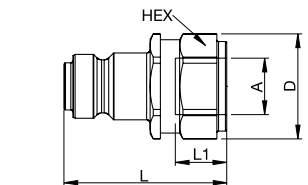
Female Thread



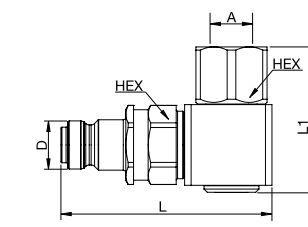
Female Thread 90°

Plugs HP1000/1500/2500-Series

Connection A	Hex mm	L mm	L1 mm	D mm	Safety Locking	Working Pressure connected bar	Working Pressure disconnected bar	Bursting Pressure connected bar	Part Number
G 1/4	22	37	12	25		1000	1000	>3000	HP1020 413
1/4"-18 NPTF	22	37	12	25		1000	1000	>3000	HP1020 513
G 3/8	24	37	12	25		1000	1000	>3000	HP1020 417
3/8"-18 NPTF	24	37	13	25		1000	1000	>3000	HP1020 517
G 1/4	22	38	12	25		1500	1500	>3500	HP1520 413
1/4"-18 NPTF	22	38	12	25		1500	1500	>3500	HP1520 513
G 1/4	22	38	12	25		2500	2500	>6000	HP2520 413
G 1/4	22	65	45	14,9		1500	1500	>3500	HP1520 413S90



Female Thread



Female Thread 90°