



Body Size

**1/4" and 3/8"**

700 bar

**3000-Series****Technical Description**

High pressure coupler up to 700 bar. Screw locking mechanism.

**Advantages**

- Screw type locking mechanism - high resistance to mechanical and hydraulic strengths.
- Ball or poppet valving configurations can be connected together with reduced impact on the flow capacities.

**Applications**

- Portable hydraulic rams
- Hydraulic jacks, rams and clamping devices
- Clamping hand tools
- Rescue equipment

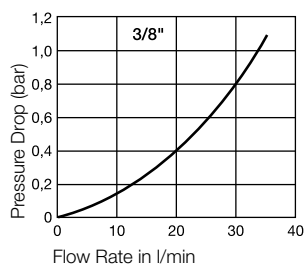
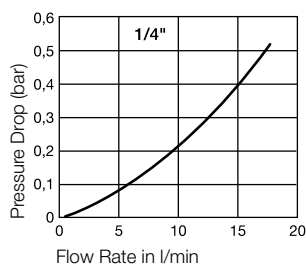
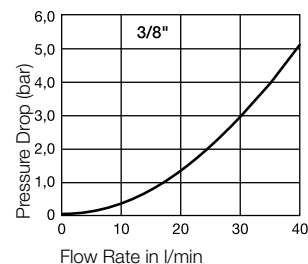
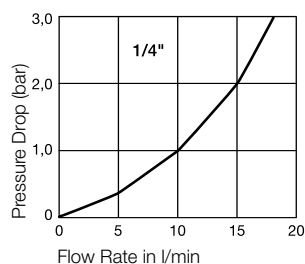
**Working Temperature**

-30°C up to +110°C (NBR)  
-30°C up to +80°C (Polyurethane)  
depending on the medium.  
Special seals are available on request (see page 6).

**Working Pressure**

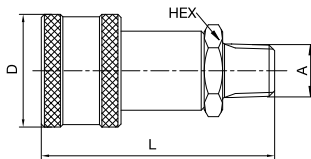
Body Size	Max. Operating Pressure Connected
1/4"	700 bar
3/8"	700 bar

Material Coupling	Standard
Coupling Body	Steel
Sleeve	Steel
Valve	Steel
Springs	Steel
Seals 1/4"	NBR
Seals 3/8"	Polyurethane
Thread Body	Steel
Material Plug	Standard
Plug Body	Steel
Valve	Steel
Seals 1/4"	NBR
Seals 3/8"	Polyurethane
Seals	NBR
Valve Holder	Steel

**Flow Capacity with Oil with Viscosity of 43cSt at 38°C as per ISO 7241/2-2000****Ball Valving****Poppet Valving**

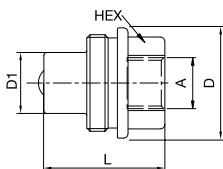
## Couplings

## 3000-Series

	Body Size	Connection A	Hex	L mm	D mm	D1 mm	Valving	Weight gr.	Part Number
 <p>Male NPTF Thread</p>	1/4"	1/4"	22 mm	60,5	28,5		Ball	115	3050-2
	1/4"	1/4"	22 mm	60,5	29		Poppet	121	3050-2P
	3/8"	3/8"	24 mm	72	35		Ball	220	3050-3
	3/8"	3/8"	1"	73	35		Poppet	225	3050-3P


## Plugs

## 3000-Series

	Body Size	Connection A	Hex mm	L mm	D mm	D1 mm	Valving	Weight gr.	Part Number
 <p>Female NPTF Thread</p>	1/4"	1/4"	19	32	28	15,8	Ball	70	3010-2
	1/4"	1/4"	27	32	31	15,8	Poppet	85	3010-2P
	3/8"	3/8"	32	38	35	19,0	Ball	115	3010-3
	3/8"	3/8"	32	35	36,8	19,0	Poppet	110	3010-3P


## Dust Protection

## 3000-Series

	Body Size	Version	Part Number
	1/4"	for coupling	3005-2
	3/8"	for coupling	3005-3
	1/4"	for plug	3009-2
	3/8"	for plug	3009-3

## Seal-Kit

## 3000-Series

	Body Size	Material	Part Number
	1/4"	NBR	JT020114N0552
	3/8"	Polyurethane	JT01U28-18.72QE



Body Size

1/8"

720 bar

## 703-Series

**Technical Description**

Quick Coupling System with coaxial function to connect two independent lines (pressure line and return line). Available as Twin-Hose solution and Hose-in-Hose solution.

The Parker „Coaxial Hose Package“ is completely assembled with a Hose-in-Hose coupling and plug, and pre-filled with hydraulic oil.

TÜV approval according to NFPA 1936:2010 and DIN EN 13204:2012.

Patent pending.

**Advantages**

- With Safety locking sleeve
- Dry-break solution with extremely low dead space volume
- Easy to handle - no connecting against remaining pressure
- Sealed sleeve protects against dust and dirt
- Coupling and plug assembled with dust caps (POM black) and stainless steel wire

**Applications**

- Hydraulic cutter and spreader
- Hydraulic saw
- Rerail systems
- Rescue equipment

**Working Temperature**

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

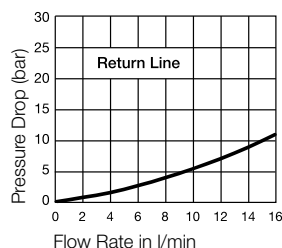
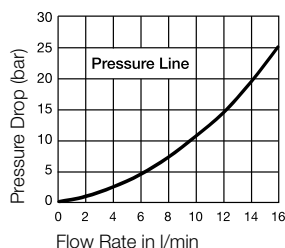
**Safety Note**

A reliable functioning for the hose-in-hose solution can only be guaranteed in conjunction with original Parker Coaxial-Hose.

**Working Pressure**

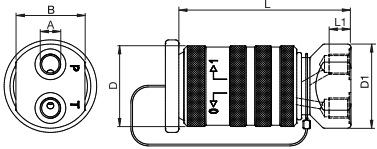
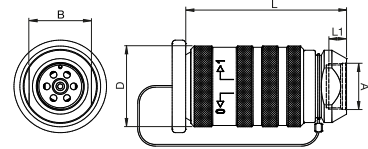
	Max. Working Pressure Connected bar
Pressure Line	720 bar
Return Line	35 bar

Material Coupling	Standard
Coupling Body	Steel zinc plated
Back Body	High-strength Aluminium
Sleeve	Aluminium
Seals	NBR
Material Plug	Standard
Plug Body	Steel chemical-nickel plated with PTFE-coating
Back body	High-strength Aluminium
Seals	NBR

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

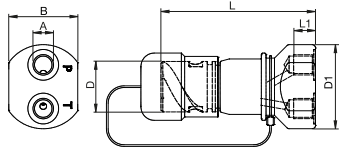
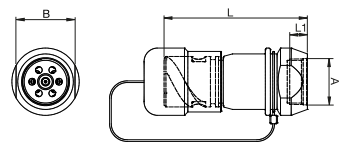
## Coupling

## 703-Series

	Connection A	L mm	L1 mm	D mm	D1 mm	B mm	Weight gr.	Part Number
 <p>Twin-Hose</p>	M 12 x 1,5	102	13	48	50	41	475	703KBIM12SPZR
 <p>Hose-in-Hose</p>	M 27 x 1,5	95	10,5	48		37	425	703KBIM27SPZR

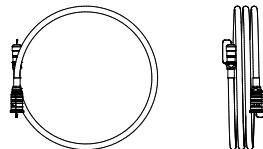
## Plug

## 703-Series

	Connection A	L mm	L1 mm	D mm	D1 mm	B mm	Weight gr.	Part Number
 <p>Twin-Hose</p>	M 12 x 1,5	92	13	30	50	41	308	703SBIM12SPZR
 <p>Hose-in-Hose</p>	M 27 x 1,5	85	10,5	30	40	35	245	703SBIM27SPZR

## Hose Package - Completely assembled

## 703-Series

	Inside Hose (Pressure Line) Inside x Outside ø mm	Outside Hose (Return Line) Inside x Outside ø mm	Working Length m	Part Number
 <p>with 703KBIM27SPZR and 703SBIM27SPZR</p>	4,8 x 10,7	16,8 x 23,2	5	703SET5R
	4,8 x 10,7	16,8 x 23,2	10	703SET10R
	4,8 x 10,7	16,8 x 23,2	15	703SET15R



Body Size

**1/4" and 3/8"**

750 / 1100 bar

**SK-Series****Technical Description**

Coupling for off-shore. Stainless Steel for high working pressure in corrosive environment.

**Advantages**

- Corrosion resistant
- Double-shut-off valve – no leakage
- Screw-to-connect - connectable under pressure
- Dust caps for coupling and plug.

**Applications**

- Off-Shore

**Working Pressure**

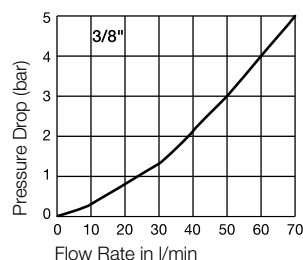
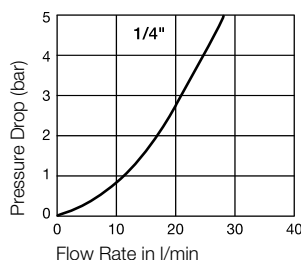
SK10 750 bar  
SK06 1100 bar

**Working Temperature**

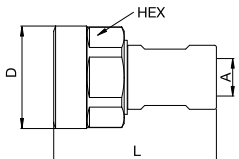
-25°C up to +100°C  
(NBR/FKM)  
depending on the medium.  
Special seals are available  
on request (see page 6).

Material Coupling	SK10 (750bar)	SK06 (1100 bar)
Coupling Body	Wst No 1.4462 / SS 2377	Wst No 1.4462 / SS 2377
Sleeve	AISI 316	Wst No 1.4418 / SS 2387
Valve	AISI 316	AISI 316
Springs	AISI 302	AISI 302
Seals	NBR / FKM	NBR / FKM
Valve Retainer	AISI 316	Brass
Material Plug	SK10 (750bar)	SK06 (1100 bar)
Plug Body	Wst No 1.4462 / SS 2377	Wst No 1.4462 / SS 2377
Valve	AISI 316	AISI 316
Springs	AISI 302	AISI 302
Seals	FKM	NBR / FKM
Valve Retainer	AISI 316	Brass

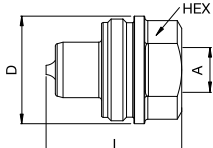
Flow Capacity with Oil with Viscosity of 32cSt at 40°C as per ISO 7241/2-2000



**Couplings****SK-Series**

	Body Size	Connection A	HEX mm	L mm	D mm	Working Pressure	Part Number
 <p>Female Thread</p>	1/4"	ISO-G 1/4 ORB	36	64	40	1100 bar	SK0610 R
	3/8"	ISO-G 3/8 ORB	41	67	45	750 bar	SK1010 R

**Plugs****SK-Series**

	Body Size	Connection A	HEX mm	L mm	D mm	Working Pressure	Part Number
 <p>Female Thread</p>	1/4"	ISO-G 1/4 ORB	27	44	35	1100 bar	SK0620 R
	3/8"	ISO-G 3/8 ORB	26	43	40	750 bar	SK1020 R

**Dust Protection****SK-Series**

	Body Size	Version	Material	Part Number
	1/4"	for coupling	POM	SK0615
	1/4"	for plug	POM	SK0625
	3/8"	for coupling	POM	SK1015
	3/8"	for plug	POM	SK1025



Body Size

1/4"

800 bar

## FF2500-Series

**Technical Description**

The coupling system of the FF series has double shut-off, dry break and single-handed operation. During uncoupling there is no oil loss, and during coupling there is no inclusion of air into the system.

**Advantages**

- Dry break quick connect coupling with minimum pressure drop.
- Single-handed operation.
- No oil loss during uncoupling.
- A safety closing ring prevents unintentional disconnection.
- Twice as safe through double sealing.
- Also available with pressure eliminator, i.e. connection is possible under static/residual pressure up to working pressure.

**Working Pressure**

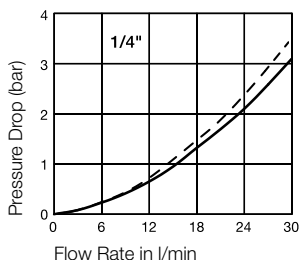
See charts.

**Working Temperature**

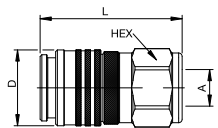
-30°C up to +100°C (NBR) depending on the medium. Special seals are available on request (see page 6).

**Available Valves****Applications Area**

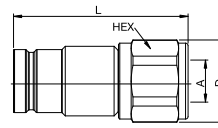
Material Coupling	Standard / Pressure Eliminator
Coupling Body	Steel, nitrocarburizing
Sleeve	Steel hardened, zinc plated, passivated, sealed
Looking Ring	Brass, Zinc-iron coated, black passivated, sealed
Valve	Steel, zinc plated, passivated, sealed
Springs	AISI 301
Locking Balls	AISI 420 C
Seals	NBR/PUR
Valve Holder	Steel, yellow zinc plated, sealed
Thread Body	Steel, zinc plated, passivated, sealed
Material Plug	Standard / Pressure Eliminator
Plug Body	Steel hardened, zinc plated, passivated, sealed
Valve	Steel, nitrocarburizing
Springs	AISI 301
Seals	NBR/PUR
Valve Holder	Brass, hard-drawn
Thread Body	Steel, zinc plated, passivated, sealed

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

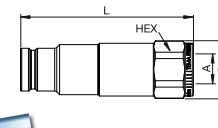
**Couplings****FF2500-Series**

	Body Size	Connection A	Hex mm	L mm	D mm	Working Press. connect. in bar	Version	Seal	Part Number
 Female Thread	1/4"	G 1/4	27	65	30	800	Standard	NBR/PUR	FF2510

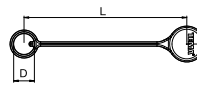
**Plugs****FF2500-Series**

	Body Size	Connection A	Hex mm	L mm	D mm	Working Press. connect. in bar	Version	Seal	Part Number
 Female Thread	1/4"	G 1/4	25	74	28	800	Standard	NBR/PUR	FF2520

**Plugs****FF2500-Series**

	Body Size	Connection A	Hex mm	L mm	D mm	Working Press. connect. in bar	Version	Seal	Part Number
 Female Thread	1/4"	G 1/4	25	99,2	28	800	Press. Eliminator	NBR/PUR	FF2521

**Dust Protection****FF2500-Series**

	Body Size	Version	L mm	D mm	Material	Color	Part Number
	1/4"	for coupling	190	24	PVC	Blue	FF2516
	1/4"	for plug	190	24	PVC	Blue	FF2526

**Seal-Kit****FF2500-Series**

	Body Size	Version	Material	Part Number
	1/4"	for plugs	NBR	FF2500-PSNPU





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**

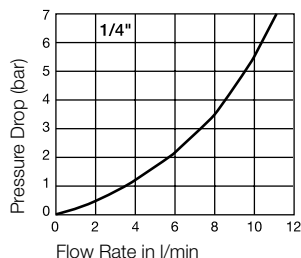
1000 bar

**Working Temperature**

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

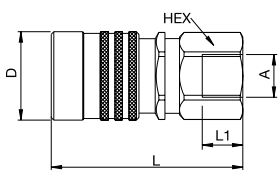
**Available Valves****Applications Area**

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**

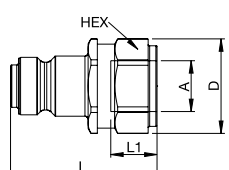
## Couplings

## HP1000-Series

	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	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

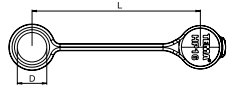
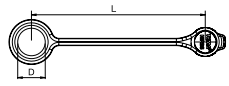
## Plugs

## HP1000-Series

	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	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

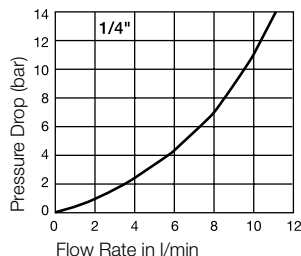


## Applications Area



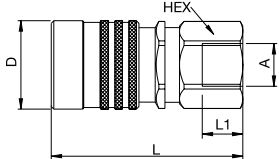
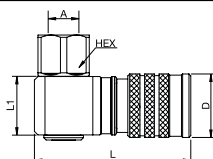
Material Coupling	Standard
Coupling Body	Steel, zinc-nickel coated, black passivated, sealed
Sleeve	Steel, hardened, zinc-iron coated, black passivated, sealed
Valve	Steel, zinc plated, passivated, sealed
Springs	AISI 302
Locking Balls	AISI 420 C
Seals	NBR
Inner Sleeve	POM
Plug	Standard
Plug Body	Steel,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



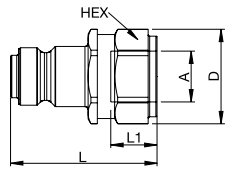
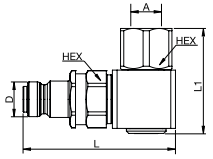
## Couplings

## HP1500-Series

	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
	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
 <p>Female Thread 90°</p>	G 1/4	22	67	45	27,2	with	1500	1500	>3500	HP1510 4131S90

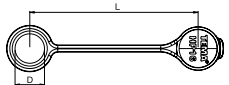
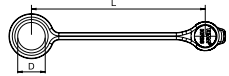
## Plugs

## 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