



Pneumatic Catalogue

Quick Coupling Systems for
Pneumatic and Fluid Handling

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



ENGINEERING YOUR SUCCESS.

7 = 38 mm²

48

**Other designs in series 48**

The following other designs can be found from page:

► Medical Technology (BT-Serie) P. 268

Technische Informationen






Coupling series made of POM and PVDF has been developed for use in the medical, chemical, food handling, pharmaceutical and laboratory technology industries. The system is also available in a solid plastic design (RectuChem+). Here the metal springs are replaced by springs made of PEEK, an extremely resistant synthetic material.

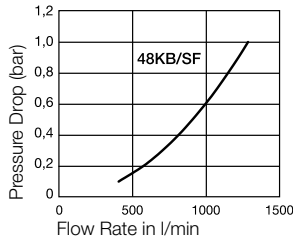
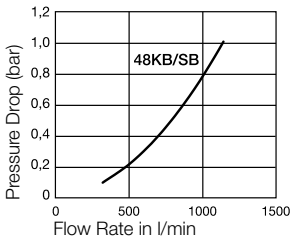
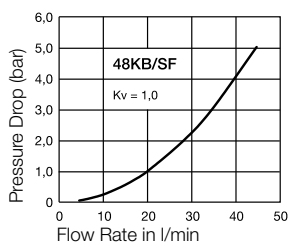
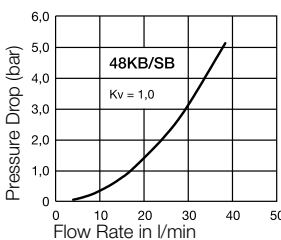
Coupling system with single-hand operation. The color coding of the coupling and plug offers a guarantee for avoiding mix-ups between media when coupling. The coupling is also available with no valve for a straight-through system.

Working Temperature

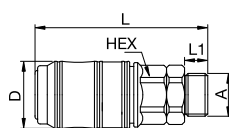
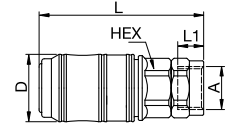
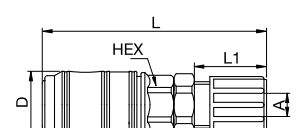
-20°C up to +80°C (POM)
-20°C up to +120°C (PVDF)
depending on the medium.

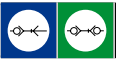
Other seal variants are available on request (FKM, EPDM, FFKM).

RectuPOM	RectuChem	RectuChem+
Working Pressure**		
0-10 bar (POM, at 20°C) ** maximum static working pressure with safety factor 4 to 1.	0-8 bar (PVDF, with metal springs)	1-8 bar (PVDF, with PEEK-spring)
Material		
Coupling: POM black Plug: POM black Seals: NBR	Coupling: PVDF white Plug: PVDF white Seals: FKM	Coupling: PVDF white, PEEK-spring Plug: PVDF white, PEEK-spring Seals: FKM
Valve types		
 single shut-off	 single shut-off	
 double shut-off	 double shut-off	 double shut-off

Flow diagrams**Air****Air****Water****Water**



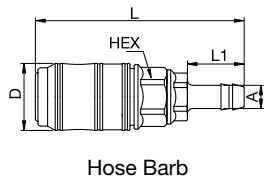
Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+	
G 1/4	21	70,5	9	26	Standard	48KBAW13DPX	48KBAW13FVX	48KBAW13FVP	
G 1/4	21	70,5	9	26	blue	48KBAW13DPXB	48KBAW13FVXB		
G 1/4	21	70,5	9	26	green	48KBAW13DPXG	48KBAW13FVXG		
G 1/4	21	70,5	9	26	red	48KBAW13DPXR	48KBAW13FVXR		
G 1/4	21	70,5	9	26	yellow	48KBAW13DPXY	48KBAW13FVXY		
G 3/8	21	67	9	26	Standard	48KBAW17DPX	48KBAW17FVX	48KBAW17FVP	
G 3/8	21	67	9	26	blue	48KBAW17DPXB	48KBAW17FVXB	48KBAW17FVPB	
G 3/8	21	67	9	26	green	48KBAW17DPXG	48KBAW17FVXG	48KBAW17FVPG	
G 3/8	21	67	9	26	red	48KBAW17DPXR	48KBAW17FVXR	48KBAW17FVPR	
G 3/8	21	67	9	26	yellow	48KBAW17DPXY	48KBAW17FVXY	48KBAW17FVPY	
G 1/2	21	73,5	12	26	Standard	48KBAW21DPX	48KBAW21FVX	48KBAW21FVP	
G 1/2	21	73,5	12	26	blue	48KBAW21DPXB	48KBAW21FVXB		
G 1/2	21	73,5	12	26	green	48KBAW21DPXG	48KBAW21FVXG		
G 1/2	21	73,5	12	26	red	48KBAW21DPXR	48KBAW21FVXR		
G 1/2	21	73,5	12	26	yellow	48KBAW21DPXY	48KBAW21FVXY		
 <p>Male Thread</p>									
G 1/4	21	63,5	10	26	Standard	48KBIW13DPX	48KBIW13FVX	48KBIW13FVP	
G 1/4	21	63,5	10	26	blue	48KBIW13DPXB	48KBIW13FVXB	48KBIW13FVPB	
G 1/4	21	63,5	10	26	green	48KBIW13DPXG	48KBIW13FVXG	48KBIW13FVPG	
G 1/4	21	63,5	10	26	red	48KBIW13DPXR	48KBIW13FVXR	48KBIW13FVPR	
G 1/4	21	63,5	10	26	yellow	48KBIW13DPXY	48KBIW13FVXY	48KBIW13FVPY	
G 3/8	21	63,5	13	26	Standard	48KBIW17DPX	48KBIW17FVX	48KBIW17FVP	
G 3/8	21	63,5	13	26	blue	48KBIW17DPXB	48KBIW17FVXB		
G 3/8	21	63,5	13	26	green	48KBIW17DPXG	48KBIW17FVXG		
G 3/8	21	63,5	13	26	red	48KBIW17DPXR	48KBIW17FVXR		
G 3/8	21	63,5	13	26	yellow	48KBIW17DPXY	48KBIW17FVXY		
G 1/2	21	74,5	13	26	Standard	48KBIW21DPX	48KBIW21FVX	48KBIW21FVP	
G 1/2	21	74,5	13	26	blue	48KBIW21DPXB	48KBIW21FVXB		
G 1/2	21	74,5	13	26	green	48KBIW21DPXG	48KBIW21FVXG		
G 1/2	21	74,5	13	26	red	48KBIW21DPXR	48KBIW21FVXR		
G 1/2	21	74,5	13	26	yellow	48KBIW21DPXY	48KBIW21FVXY		
 <p>Female Thread</p>									
6 x 8 mm	21	80	21	26	Standard		48KBKP08FVX	48KBKP08FVP	
9 x 12 mm	21	87	28	26	Standard		48KBKP12FVX	48KBKP12FVP	
10 x 12 mm	21	87	28	26	Standard		48KBKP12FVXS	48KBKP12FVPS	
 <p>for PVDF- and PE-Hoses</p>									



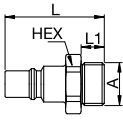
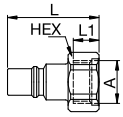
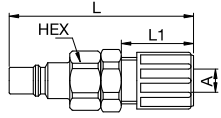
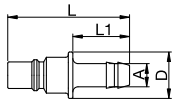
Couplings – with valve

Series 48KB

Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
6 mm	21	81	22	26	Standard	48KBTF06DPX	48KBTF06FVX	48KBTF06FVP
6 mm	21	81	22	26	blue	48KBTF06DPXB	48KBTF06FVXB	48KBTF06FVPB
6 mm	21	81	22	26	green	48KBTF06DPXG	48KBTF06FVXG	48KBTF06FVPG
6 mm	21	81	22	26	red	48KBTF06DPXR	48KBTF06FVXR	48KBTF06FVPR
6 mm	21	81	22	26	yellow	48KBTF06DPXY	48KBTF06FVXY	48KBTF06FVPY
9 mm	21	81	22	26	Standard	48KBTF09DPX	48KBTF09FVX	48KBTF09FVP
9 mm	21	81	22	26	blue	48KBTF09DPXB	48KBTF09FVXB	48KBTF09FVPB
9 mm	21	81	22	26	green	48KBTF09DPXG	48KBTF09FVXG	48KBTF09FVPG
9 mm	21	81	22	26	red	48KBTF09DPXR	48KBTF09FVXR	48KBTF09FVPR
9 mm	21	81	22	26	yellow	48KBTF09DPXY	48KBTF09FVXY	48KBTF09FVPY
13 mm	21	84	25	26	Standard	48KBTF13DPX	48KBTF13FVX	48KBTF13FVP
13 mm	21	84	25	26	blue	48KBTF13DPXB	48KBTF13FVXB	
13 mm	21	84	25	26	green	48KBTF13DPXG	48KBTF13FVXG	
13 mm	21	84	25	26	red	48KBTF13DPXR	48KBTF13FVXR	
13 mm	21	84	25	26	yellow	48KBTF13DPXY	48KBTF13FVXY	





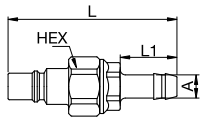
	Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
 <p>Male Thread</p>	G 1/4	17	38,5	9		Standard	48SFAW13DXX	48SFAW13FXX	
	G 3/8	21	38,5	9		Standard	48SFAW17DXX	48SFAW17FXX	
	G 3/8	21	38,5	9		blue		48SFAW17FVXB	
	G 3/8	21	38,5	9		green		48SFAW17FVXG	
	G 3/8	21	38,5	9		red		48SFAW17FVXR	
	G 3/8	21	38,5	9		yellow		48SFAW17FVXY	
	G 1/2	21	41,5	12		Standard	48SFAW21DXX	48SFAW21FXX	
 <p>Female Thread</p>	G 1/4	17	35,5	9		Standard	48SFIW13DXX	48SFIW13FXX	
	G 1/4	17	35,5	9		blue	48SFIW13DPXB		
	G 1/4	17	35,5	9		green	48SFIW13DPXG		
	G 1/4	17	35,5	9		red	48SFIW13DPXR		
	G 1/4	17	35,5	9		yellow	48SFIW13DPXY		
	G 3/8	21	35,5	10		Standard	48SFIW17DXX	48SFIW17FXX	
	G 3/8	21	35,5	10		blue	48SFIW17DXXB	48SFIW17FXXB	
	G 3/8	21	35,5	10		green	48SFIW17DXXG	48SFIW17FXXG	
	G 3/8	21	35,5	10		red	48SFIW17DXXR	48SFIW17FXXR	
	G 3/8	21	35,5	10		yellow	48SFIW17DXXY	48SFIW17FXXY	
G 1/2	24	59	13		Standard	48SFIW21DXX	48SFIW21FXX		
 <p>for PVDF- and PE-Hoses</p>	6 x 8 mm	21	64,5	21		Standard		48SFKP08FVX	
	9 x 12 mm	21	71,5	28		Standard		48SFKP12FVX	
	10 x 12 mm	21	71,5	28		Standard		48SFKP12FVXS	
 <p>Hose Barb</p>	6 mm		47	22	18	Standard	48SFTF06DXX	48SFTF06FXX	
	6 mm		47	22	18	blue		48SFTF06FVXB	
	6 mm		47	22	18	green		48SFTF06FVXG	
	6 mm		47	22	18	red		48SFTF06FVXR	
	6 mm		47	22	18	yellow		48SFTF06FVXY	
	9 mm		47	22	18	Standard	48SFTF09DXX	48SFTF09FXX	
	9 mm		47	22	18	blue	48SFTF09DPXB	48SFTF09FVXB	
	9 mm		47	22	18	green	48SFTF09DPXG	48SFTF09FVXG	
	9 mm		47	22	18	red	48SFTF09DPXR	48SFTF09FVXR	
	9 mm		47	22	18	yellow	48SFTF09DPXY	48SFTF09FVXY	
	13 mm		50	25	18	Standard	48SFTF13DXX	48SFTF13FXX	



Plugs – with valve

Series 48SB

Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
G 1/4	21	55	9		Standard	48SBAW13DPX	48SBAW13FVX	48SBAW13FVP
G 1/4	21	55	9		blue	48SBAW13DPXB	48SBAW13FVXB	48SBAW13FVPB
G 1/4	21	55	9		green	48SBAW13DPXG	48SBAW13FVXG	48SBAW13FVPG
G 1/4	21	55	9		red	48SBAW13DPXR	48SBAW13FVXR	48SBAW13FVPR
G 1/4	21	55	9		yellow	48SBAW13DPXY	48SBAW13FVXY	48SBAW13FVPY
G 3/8	21	51,5	9		Standard	48SBAW17DPX	48SBAW17FVX	48SBAW17FVP
G 3/8	21	51,5	9		blue	48SBAW17DPXB	48SBAW17FVXB	48SBAW17FVPB
G 3/8	21	51,5	9		green	48SBAW17DPXG	48SBAW17FVXG	48SBAW17FVPG
G 3/8	21	51,5	9		red	48SBAW17DPXR	48SBAW17FVXR	48SBAW17FVPR
G 3/8	21	51,5	9		yellow	48SBAW17DPXY	48SBAW17FVXY	48SBAW17FVPY
G 1/2	21	58	12		Standard	48SBAW21DPX	48SBAW21FVX	48SBAW21FVP
G 1/2	21	58	12		blue	48SBAW21DPXB	48SBAW21FVXB	
G 1/2	21	58	12		green	48SBAW21DPXG	48SBAW21FVXG	
G 1/2	21	58	12		red	48SBAW21DPXR	48SBAW21FVXR	
G 1/2	21	58	12		yellow	48SBAW21DPXY	48SBAW21FVXY	
<p>Male Thread</p>								
G 1/4	21	48	10		Standard	48SBIW13DPX	48SBIW13FVX	48SBIW13FVP
G 1/4	21	48	10		blue	48SBIW13DPXB		
G 1/4	21	48	10		green	48SBIW13DPXG		
G 1/4	21	48	10		red	48SBIW13DPXR		
G 1/4	21	48	10		yellow	48SBIW13DPXY		
G 3/8	21	48	10		Standard	48SBIW17DPX	48SBIW17FVX	48SBIW17FVP
G 3/8	21	48	10		blue	48SBIW17DPXB	48SBIW17FVXB	
G 3/8	21	48	10		green	48SBIW17DPXG	48SBIW17FVXG	
G 3/8	21	48	10		red	48SBIW17DPXR	48SBIW17FVXR	
G 3/8	21	48	10		yellow	48SBIW17DPXY	48SBIW17FVXY	
G 1/2	21	59	13		Standard	48SBIW21DPX	48SBIW21FVX	48SBIW21FVP
G 1/2	21	59	13		blue	48SBIW21DPXB	48SBIW21FVXB	
G 1/2	21	59	13		green	48SBIW21DPXG	48SBIW21FVXG	
G 1/2	21	59	13		red	48SBIW21DPXR	48SBIW21FVXR	
G 1/2	21	59	13		yellow	48SBIW21DPXY	48SBIW21FVXY	
<p>Female Thread</p>								
6 x 8 mm	21	64,5	21		Standard		48SBKP08FVX	48SBKP08FVP
9 x 12 mm	21	71,5	28		Standard		48SBKP12FVX	48SBKP12FVP
10 x 12 mm	21	71,5	28		Standard		48SBKP12FVXS	48SBKP12FVPS
<p>for PVDF- and PE-Hoses</p>								



Hose Barb

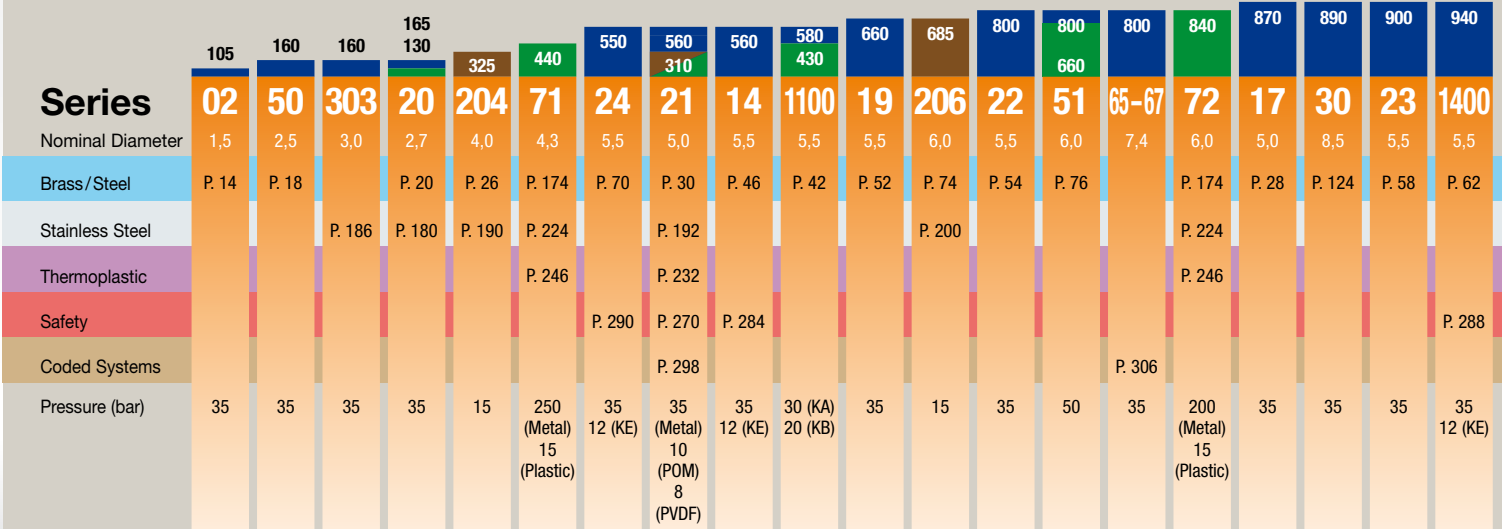
Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
6 mm	21	65,5	22		Standard	48SBTF06DPX	48SBTF06FVX	48SBTF06FVP
6 mm	21	65,5	22		blue		48SBF06FVXB	
6 mm	21	65,5	22		green		48SBTF06FVXG	
6 mm	21	65,5	22		red		48SBTF06FVXR	
6 mm	21	65,5	22		yellow		48SBTF06FVXY	
9 mm	21	65,5	22		Standard	48SBTF09DPX	48SBTF09FVX	48SBTF09FVP
9 mm	21	65,5	22		blue	48SBTF09DPXB	48SBTF09FVXB	
9 mm	21	65,5	22		green	48SBTF09DPXG	48SBTF09FVXG	
9 mm	21	65,5	22		red	48SBTF09DPXR	48SBTF09FVXR	
9 mm	21	65,5	22		yellow	48SBTF09DPXY	48SBTF09FVXY	
13 mm	21	68,5	25		Standard	48SBTF13DPX	48SBTF13FVX	48SBTF13FVP
13 mm	21	68,5	25		blue	48SBTF13DPXB	48SBTF13FVXB	
13 mm	21	68,5	25		green	48SBTF13DPXG	48SBTF13FVXG	
13 mm	21	68,5	25		red	48SBTF13DPXR	48SBTF13FVXR	
13 mm	21	68,5	25		yellow	48SBTF13DPXY	48SBTF13FVXY	

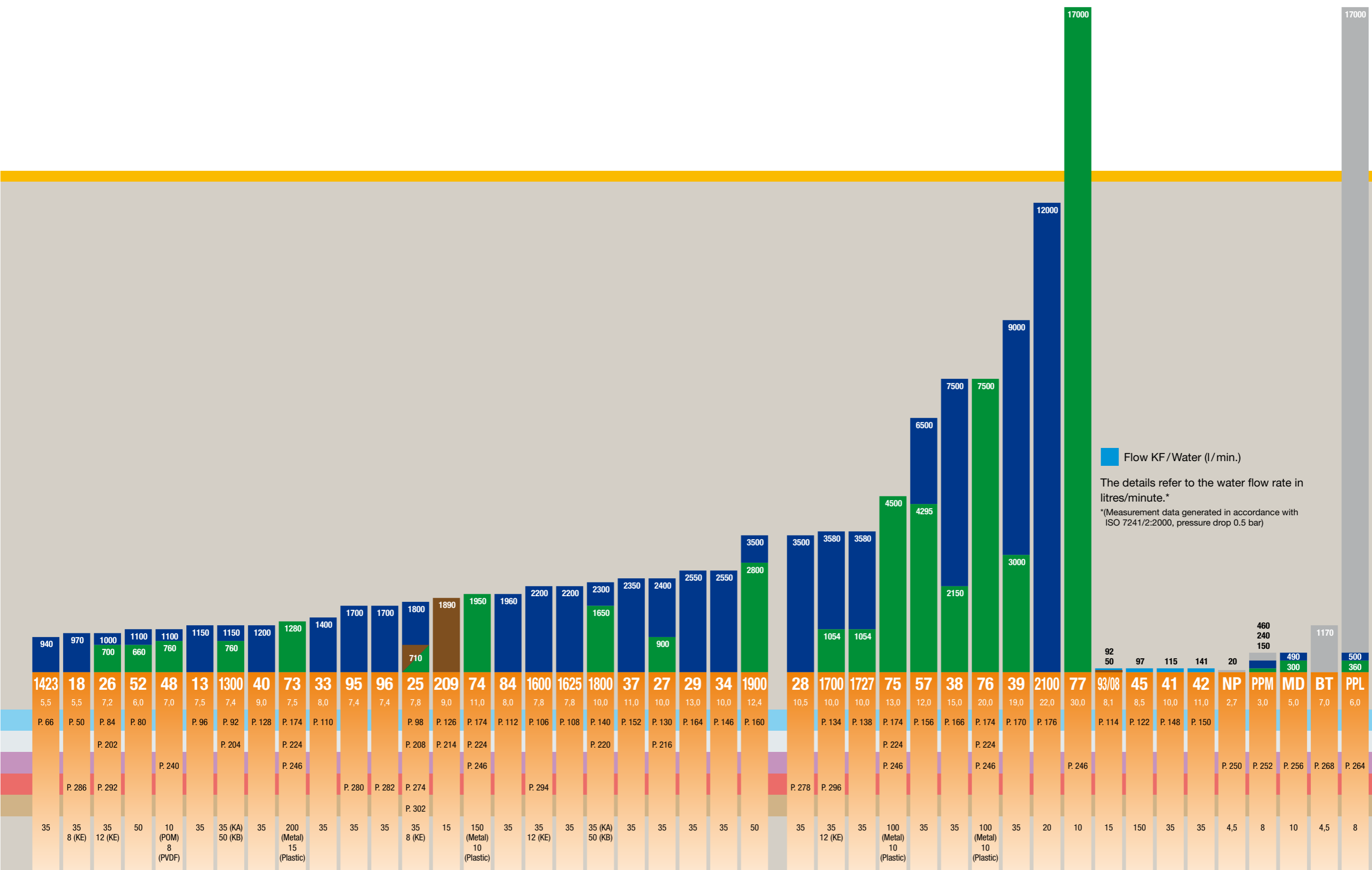
ALL OUR PERFORMANCE CAPACITY AT A GLANCE.

Using this flow rate diagram, you can identify at a glance the coupling series suited to your application and the corresponding operating pressure.

- Flow KL (l/min.) – leak-free coupling systems
- Flow KB (l/min.) – double shut-off coupling systems
- Flow KA (l/min.) – single shut-off coupling systems
- Flow KF (l/min.) – straight-through coupling systems

The details refer to the air flow rate in litres/minute.*
 *(Measurement data generated in accordance with ISO 6358; CCTOP RP50P at input pressure 6 bar, pressure drop 0.5 bar)





Series	Nominal Diameter	Material	Pressure (bar)
Brass/Steel		Brass/Steel	
Stainless Steel		Stainless Steel	
Thermoplastic		Thermoplastic	
Safety		Safety	
Coded Systems		Coded Systems	
Pressure (bar)			



Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 00800 27 27 5374



Aerospace Key Markets

- Aftermarket services
- Commercial transports
- Engines
- General & business aviation
- Helicopters
- Launch vehicles
- Military aircraft
- Missiles
- Power generation
- Regional transports
- Unmanned aerial vehicles

Key Products

- Control systems & actuation products
- Engine systems & components
- Fluid conveyance systems & components
- Fluid metering, delivery & atomization devices
- Fuel systems & components
- Fuel tank inerting systems
- Hydraulic systems & components
- Thermal management
- Wheels & brakes



Climate Control Key Markets

- Agriculture
- Air conditioning
- Construction Machinery
- Food & beverage
- Industrial machinery
- Life sciences
- Oil & gas
- Precision cooling
- Process
- Refrigeration
- Transportation

Key Products

- Accumulators
- Advanced actuators
- CO₂ controls
- Electronic controllers
- Filter driers
- Hand shut-off valves
- Heat exchangers
- Hose & fittings
- Pressure regulating valves
- Refrigerant distributors
- Safety relief valves
- Smart pumps
- Solenoid valves
- Thermostatic expansion valves



Electromechanical Key Markets

- Aerospace
- Factory automation
- Life science & medical
- Machine tools
- Packaging machinery
- Paper machinery
- Plastics machinery & converting
- Primary metals
- Semiconductor & electronics
- Textile
- Wire & cable

Key Products

- AC/DC drives & systems
- Electric actuators, gantry robots & slides
- Electrohydraulic actuation systems
- Electromechanical actuation systems
- Human machine interface
- Linear motors
- Stepper motors, servo motors, drives & controls
- Structural extrusions



Filtration Key Markets

- Aerospace
- Food & beverage
- Industrial plant & equipment
- Life sciences
- Marine
- Mobile equipment
- Oil & gas
- Power generation & renewable energy
- Process
- Transportation
- Water Purification

Key Products

- Analytical gas generators
- Compressed air filters & dryers
- Engine air, coolant, fuel & oil filtration systems
- Fluid condition monitoring systems
- Hydraulic & lubrication filters
- Hydrogen, nitrogen & zero air generators
- Instrumentation filters
- Membrane & fiber filters
- Microfiltration
- Sterile air filtration
- Water desalination & purification filters & systems



Fluid & Gas Handling

Key Markets

- Aerial lift
- Agriculture
- Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery
- Industrial machinery
- Life sciences
- Marine
- Mining
- Mobile
- Oil & gas
- Renewable energy
- Transportation

Key Products

- Check valves
- Connectors for low pressure fluid conveyance
- Deep sea umbilicals
- Diagnostic equipment
- Hose couplings
- Industrial hose
- Mooring systems & power cables
- PTFE hose & tubing
- Quick couplings
- Rubber & thermoplastic hose
- Tube fittings & adapters
- Tubing & plastic fittings



Hydraulics

Key Markets

- Aerial lift
- Agriculture
- Alternative energy
- Construction machinery
- Forestry
- Industrial machinery
- Machine tools
- Marine
- Material handling
- Mining
- Oil & gas
- Power generation
- Refuse vehicles
- Renewable energy
- Truck hydraulics
- Turf equipment

Key Products

- Accumulators
- Cartridge valves
- Electrohydraulic actuators
- Human machine interfaces
- Hybrid drives
- Hydraulic cylinders
- Hydraulic motors & pumps
- Hydraulic systems
- Hydraulic valves & controls
- Hydrostatic steering
- Integrated hydraulic circuits
- Power take-offs
- Power units
- Rotary actuators
- Sensors



Pneumatics

Key Markets

- Aerospace
- Conveyor & material handling
- Factory automation
- Life science & medical
- Machine tools
- Packaging machinery
- Transportation & automotive

Key Products

- Air preparation
- Brass fittings & valves
- Manifolds
- Pneumatic accessories
- Pneumatic actuators & grippers
- Pneumatic valves & controls
- Quick disconnects
- Rotary actuators
- Rubber & thermoplastic hose & couplings
- Structural extrusions
- Thermoplastic tubing & fittings
- Vacuum generators, cups & sensors



Process Control

Key Markets

- Alternative fuels
- Biopharmaceuticals
- Chemical & refining
- Food & beverage
- Marine & shipbuilding
- Medical & dental
- Microelectronics
- Nuclear Power
- Offshore oil exploration
- Oil & gas
- Pharmaceuticals
- Power generation
- Pulp & paper
- Steel
- Water/wastewater

Key Products

- Analytical Instruments
- Analytical sample conditioning products & systems
- Chemical injection fittings & valves
- Fluoropolymer chemical delivery fittings, valves & pumps
- High purity gas delivery fittings, valves, regulators & digital flow controllers
- Industrial mass flow meters/controllers
- Permanent no-weld tube fittings
- Precision industrial regulators & flow controllers
- Process control double block & bleeds
- Process control fittings, valves, regulators & manifold valves



Sealing & Shielding

Key Markets

- Aerospace
- Chemical processing
- Consumer
- Fluid power
- General industrial
- Information technology
- Life sciences
- Microelectronics
- Military
- Oil & gas
- Power generation
- Renewable energy
- Telecommunications
- Transportation

Key Products

- Dynamic seals
- Elastomeric o-rings
- Electro-medical instrument design & assembly
- EMI shielding
- Extruded & precision-cut, fabricated elastomeric seals
- High temperature metal seals
- Homogeneous & inserted elastomeric shapes
- Medical device fabrication & assembly
- Metal & plastic retained composite seals
- Shielded optical windows
- Silicone tubing & extrusions
- Thermal management
- Vibration dampening

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