



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.

5 = 20 mm²**21****Other designs in series 21**

The following other designs can be found from page:

- | | |
|---------------------------|--------|
| ▶ Brass / Steel | P. 30 |
| ▶ Stainless Steel | P. 192 |
| ▶ Thermoplastic | P. 232 |
| ▶ Medical Technology (MD) | P. 256 |
| ▶ Safety | P. 270 |

Technical Description

Coded industrial coupling system developed on the basis of series 21 with above-average flow rate for liquid and gaseous media.

Coupling system with single-hand operation. The mechanical coding of the coupling and plug offers a guarantee for avoiding mix-ups between media when coupling, which is complemented by the color coding of the anodised sleeves.

Double shut-off version available on request.

Working Temperature*

-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

**Working Pressure****

35 bar

** maximum static working pressure with safety factor 4 to 1.

Material

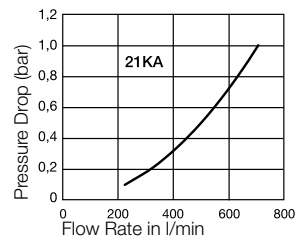
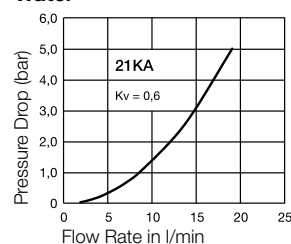
Coupling: Brass

Plug: Brass or Brass nickel plated

Seals: NBR

Interchangeability

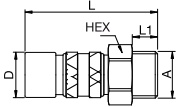
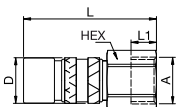
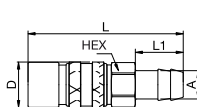
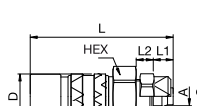
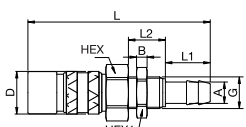
- Rectus Design

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





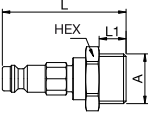
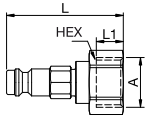
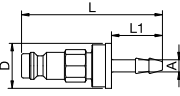
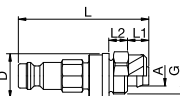
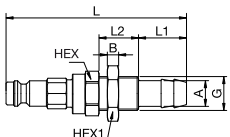


Couplings – with valve

Series 21KA

| | Connection A | HEX mm | HEX1 mm | L mm | L1 mm | L2 mm | D mm | B mm | G mm | Version | ● Part Number | ▲ Part Number | ● Part Number | ● Part Number |
|---|--------------|--------|---------|------|-------|-------|------|------|-------|---------------|---------------|---------------|---------------|---------------|
|  <p>Male Thread</p> | G 1/8 | 14 | | 47 | 7 | | 16 | | | blank | 21KAAW10MPX0 | 21KAAW10MPX3 | 21KAAW10MPX6 | 21KAAW10MPX8 |
| | G 1/8 | 14 | | 47 | 7 | | 16 | | | nickel plated | 21KAAW10MPN0 | 21KAAW10MPN3 | 21KAAW10MPN6 | 21KAAW10MPN8 |
| | G 1/4 | 17 | | 47 | 9 | | 16 | | | blank | 21KAAW13MPX0 | 21KAAW13MPX3 | 21KAAW13MPX6 | 21KAAW13MPX8 |
| | G 1/4 | 17 | | 47 | 9 | | 16 | | | nickel plated | 21KAAW13MPN0 | 21KAAW13MPN3 | 21KAAW13MPN6 | 21KAAW13MPN8 |
|  <p>Female Thread</p> | G 1/8 | 14 | | 47 | 7 | | 16 | | | blank | 21KAIW10MPX0 | 21KAIW10MPX3 | 21KAIW10MPX6 | 21KAIW10MPX8 |
| | G 1/8 | 14 | | 47 | 7 | | 16 | | | nickel plated | 21KAIW10MPN0 | 21KAIW10MPN3 | 21KAIW10MPN6 | 21KAIW10MPN8 |
| | G 1/4 | 17 | | 47 | 9 | | 16 | | | blank | 21KAIW13MPX0 | 21KAIW13MPX3 | 21KAIW13MPX6 | 21KAIW13MPX8 |
| | G 1/4 | 17 | | 47 | 9 | | 16 | | | nickel plated | 21KAIW13MPN0 | 21KAIW13MPN3 | 21KAIW13MPN6 | 21KAIW13MPN8 |
|  <p>Hose Barb</p> | 4 mm | 14 | | 69 | 17 | | 16 | | | blank | 21KATF04MPX0 | 21KATF04MPX3 | 21KATF04MPX6 | 21KATF04MPX8 |
| | 4 mm | 14 | | 69 | 17 | | 16 | | | nickel plated | 21KATF04MPN0 | 21KATF04MPN3 | 21KATF04MPN6 | 21KATF04MPN8 |
| | 6 mm | 14 | | 69 | 17 | | 16 | | | blank | 21KATF06MPX0 | 21KATF06MPX3 | 21KATF06MPX6 | 21KATF06MPX8 |
| | 6 mm | 14 | | 69 | 17 | | 16 | | | nickel plated | 21KATF06MPN0 | 21KATF06MPN3 | 21KATF06MPN6 | 21KATF06MPN8 |
| | 8 mm | 14 | | 69 | 17 | | 16 | | | blank | 21KATF08MPX0 | 21KATF08MPX3 | 21KATF08MPX6 | 21KATF08MPX8 |
| | 8 mm | 14 | | 69 | 17 | | 16 | | | nickel plated | 21KATF08MPN0 | 21KATF08MPN3 | 21KATF08MPN6 | 21KATF08MPN8 |
|  <p>with Plastic Hose Connection</p> | 4 x 6 mm | 14 | | 51 | 7 | 6 | 16 | | M10x1 | blank | 21KAKO06MPX0 | 21KAKO06MPX3 | 21KAKO06MPX6 | 21KAKO06MPX8 |
| | 4 x 6 mm | 14 | | 51 | 7 | 6 | 16 | | M10x1 | nickel plated | 21KAKO06MPN0 | 21KAKO06MPN3 | 21KAKO06MPN6 | 21KAKO06MPN8 |
| | 6 x 8 mm | 14 | | 51 | 7 | 6 | 16 | | M12x1 | blank | 21KAKO08MPX0 | 21KAKO08MPX3 | 21KAKO08MPX6 | 21KAKO08MPX8 |
| | 6 x 8 mm | 14 | | 51 | 7 | 6 | 16 | | M12x1 | nickel plated | 21KAKO08MPN0 | 21KAKO08MPN3 | 21KAKO08MPN6 | 21KAKO08MPN8 |
|  <p>Panel Mount with Hose Barb</p> | 4 mm | 14 | 14 | 69 | 14 | 17 | 16 | 4 | M10x1 | blank | 21KATS04MPX0 | 21KATS04MPX3 | 21KATS04MPX6 | 21KATS04MPX8 |
| | 4 mm | 14 | 14 | 69 | 14 | 17 | 16 | 4 | M10x1 | nickel plated | 21KATS04MPN0 | 21KATS04MPN3 | 21KATS04MPN6 | 21KATS04MPN8 |
| | 6 mm | 14 | 17 | 69 | 14 | 17 | 16 | 4 | M12x1 | blank | 21KATS06MPX0 | 21KATS06MPX3 | 21KATS06MPX6 | 21KATS06MPX8 |
| | 6 mm | 14 | 17 | 69 | 14 | 17 | 16 | 4 | M12x1 | nickel plated | 21KATS06MPN0 | 21KATS06MPN3 | 21KATS06MPN6 | 21KATS06MPN8 |
| | 8 mm | 14 | 17 | 69 | 14 | 17 | 16 | 4 | M12x1 | blank | 21KATS08MPX0 | 21KATS08MPX3 | 21KATS08MPX6 | 21KATS08MPX8 |

Plugs – without valve **Series 21KA**

| | Connection A | HEX mm | HEX1 mm | L mm | L1 mm | L2 mm | D mm | B mm | G mm | Version |  Part Number |  Part Number |  Part Number |  Part Number |
|---|--------------|--------|---------|------|-------|-------|------|------|-------|---------------|---|---|---|---|
|  <p>Male Thread</p> | G 1/8 | 17 | | 39,5 | 7 | | | | | blank | 21SFAW10MXX0 | 21SFAW10MXX3 | 21SFAW10MXX6 | 21SFAW10MXX8 |
| | G 1/8 | 17 | | 39,5 | 7 | | | | | nickel plated | 21SFAW10MXN0 | 21SFAW10MXN3 | 21SFAW10MXN6 | 21SFAW10MXN8 |
| | G 1/4 | 17 | | 41,5 | 9 | | | | | blank | 21SFAW13MXX0 | 21SFAW13MXX3 | 21SFAW13MXX6 | 21SFAW13MXX8 |
| | G 1/4 | 17 | | 41,5 | 9 | | | | | nickel plated | 21SFAW13MXN0 | 21SFAW13MXN3 | 21SFAW13MXN6 | 21SFAW13MXN8 |
|  <p>Female Thread</p> | G 1/8 | 17 | | 38,5 | 5 | | | | | blank | 21SFIW10MXX0 | 21SFIW10MXX3 | 21SFIW10MXX6 | 21SFIW10MXX8 |
| | G 1/8 | 17 | | 38,5 | 5 | | | | | nickel plated | 21SFIW10MXN0 | 21SFIW10MXN3 | 21SFIW10MXN6 | 21SFIW10MXN8 |
| | G 1/4 | 17 | | 39 | 7 | | | | | blank | 21SFIW13MXX0 | 21SFIW13MXX3 | 21SFIW13MXX6 | 21SFIW13MXX8 |
| | G 1/4 | 17 | | 39 | 7 | | | | | nickel plated | 21SFIW13MXN0 | 21SFIW13MXN3 | 21SFIW13MXN6 | 21SFIW13MXN8 |
|  <p>Hose Barb</p> | 4 mm | | | 47 | 17 | | 15 | | | blank | 21SFTF04MXX0 | 21SFTF04MXX3 | 21SFTF04MXX6 | 21SFTF04MXX8 |
| | 4 mm | | | 47 | 17 | | 15 | | | nickel plated | 21SFTF04MXN0 | 21SFTF04MXN3 | 21SFTF04MXN6 | 21SFTF04MXN8 |
| | 6 mm | | | 47 | 17 | | 15 | | | blank | 21SFTF06MXX0 | 21SFTF06MXX3 | 21SFTF06MXX6 | 21SFTF06MXX8 |
| | 6 mm | | | 47 | 17 | | 15 | | | nickel plated | 21SFTF06MXN0 | 21SFTF06MXN3 | 21SFTF06MXN6 | 21SFTF06MXN8 |
|  <p>with Plastic Hose Connection</p> | 4 x 6 mm | | | 43 | 7 | 6 | 15 | | M10x1 | blank | 21SFKO06MXX0 | 21SFKO06MXX3 | 21SFKO06MXX6 | 21SFKO06MXX8 |
| | 4 x 6 mm | | | 43 | 7 | 6 | 15 | | M10x1 | nickel plated | 21SFKO06MXN0 | 21SFKO06MXN3 | 21SFKO06MXN6 | 21SFKO06MXN8 |
| | 6 x 8 mm | | | 43,5 | 7 | 6 | 15 | | M12x1 | blank | 21SFKO08MXX0 | 21SFKO08MXX3 | 21SFKO08MXX6 | 21SFKO08MXX8 |
| | 6 x 8 mm | | | 43,5 | 7 | 6 | 15 | | M12x1 | nickel plated | 21SFKO08MXN0 | 21SFKO08MXN3 | 21SFKO08MXN6 | 21SFKO08MXN8 |
|  <p>Panel Mount with Hose Barb</p> | 4 mm | 17 | 14 | 63 | 17 | 14 | | 4 | M10x1 | blank | 21SFTS04MXX0 | 21SFTS04MXX3 | 21SFTS04MXX6 | 21SFTS04MXX8 |
| | 4 mm | 17 | 14 | 63 | 17 | 14 | | 4 | M10x1 | nickel plated | 21SFTS04MXN0 | 21SFTS04MXN3 | 21SFTS04MXN6 | 21SFTS04MXN8 |
| | 6 mm | 17 | 17 | 63 | 17 | 14 | | 4 | M12x1 | blank | 21SFTS06MXX0 | 21SFTS06MXX3 | 21SFTS06MXX6 | 21SFTS06MXX8 |
| | 6 mm | 17 | 17 | 63 | 17 | 14 | | 4 | M12x1 | nickel plated | 21SFTS06MXN0 | 21SFTS06MXN3 | 21SFTS06MXN6 | 21SFTS06MXN8 |

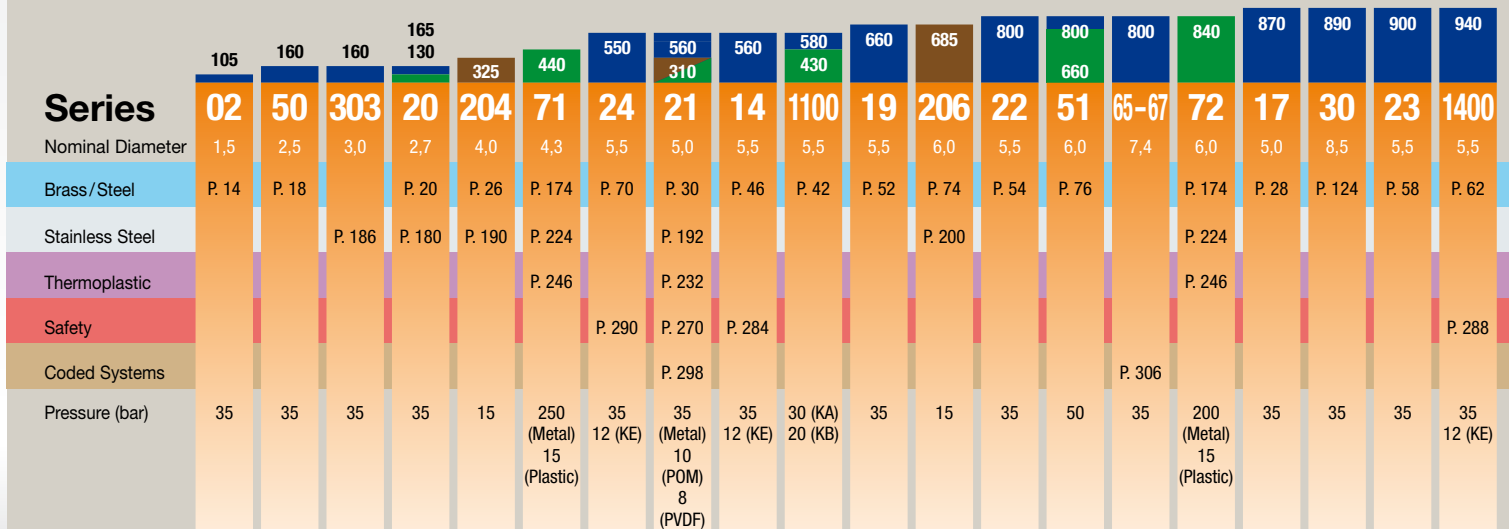
ALL OUR PERFORMANCE CAPACITY AT A GLANCE.

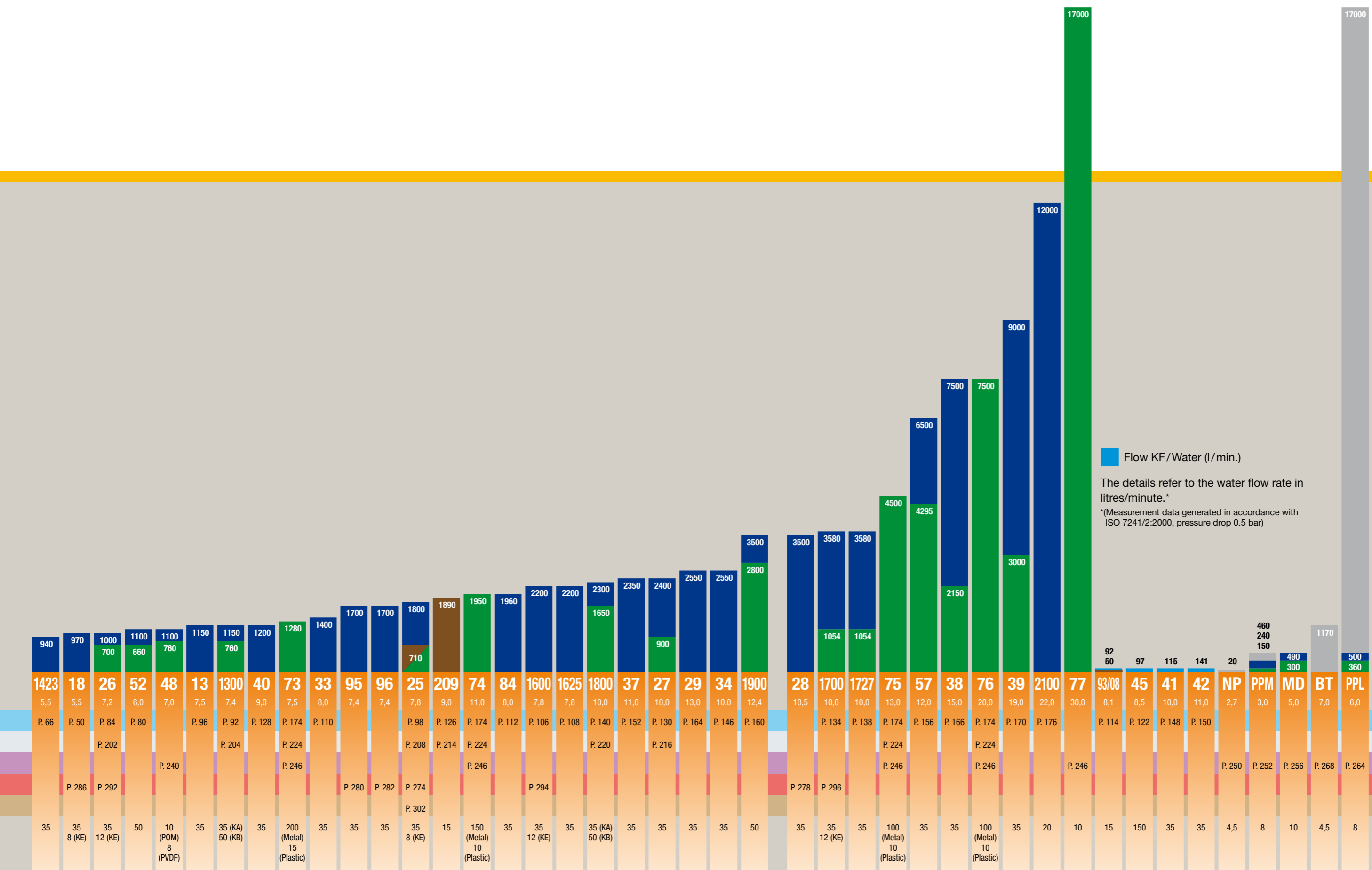
Using this flow rate diagram, you can identify at a glance the coupling series suited to your application and the corresponding operating pressure.

- 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) |
|--------|------------------|-----------------|--------------------------|
| P. 66 | 5,5 | Brass/Steel | 35 |
| P. 50 | 5,5 | Brass/Steel | 35 |
| P. 84 | 7,2 | Brass/Steel | 35 |
| P. 80 | 6,0 | Brass/Steel | 50 |
| P. 240 | 7,0 | Brass/Steel | 10 (POM) 8 (PVDF) |
| P. 96 | 7,5 | Brass/Steel | 35 |
| P. 92 | 7,4 | Brass/Steel | 35 (KA) 50 (KB) |
| P. 128 | 9,0 | Brass/Steel | 35 |
| P. 174 | 7,5 | Brass/Steel | 200 (Metal) 15 (Plastic) |
| P. 110 | 8,0 | Brass/Steel | 35 |
| P. 280 | 7,4 | Brass/Steel | 35 |
| P. 282 | 7,4 | Brass/Steel | 35 |
| P. 98 | 7,8 | Brass/Steel | 35 |
| P. 126 | 9,0 | Brass/Steel | 15 |
| P. 174 | 11,0 | Brass/Steel | 150 (Metal) 10 (Plastic) |
| P. 112 | 8,0 | Brass/Steel | 35 |
| P. 106 | 7,8 | Brass/Steel | 35 |
| P. 108 | 7,8 | Brass/Steel | 35 |
| P. 140 | 10,0 | Brass/Steel | 35 (KA) 50 (KB) |
| P. 152 | 11,0 | Brass/Steel | 35 |
| P. 130 | 10,0 | Brass/Steel | 35 |
| P. 164 | 13,0 | Brass/Steel | 35 |
| P. 146 | 10,0 | Brass/Steel | 35 |
| P. 160 | 12,4 | Brass/Steel | 50 |
| P. 278 | 10,5 | Brass/Steel | 35 |
| P. 134 | 10,0 | Brass/Steel | 35 |
| P. 138 | 10,0 | Brass/Steel | 35 |
| P. 174 | 13,0 | Brass/Steel | 100 (Metal) 10 (Plastic) |
| P. 156 | 12,0 | Brass/Steel | 35 |
| P. 166 | 15,0 | Brass/Steel | 35 |
| P. 174 | 20,0 | Brass/Steel | 100 (Metal) 10 (Plastic) |
| P. 170 | 19,0 | Brass/Steel | 35 |
| P. 176 | 22,0 | Brass/Steel | 20 |
| P. 246 | 30,0 | Brass/Steel | 10 |
| P. 114 | 8,1 | Stainless Steel | 15 |
| P. 122 | 8,5 | Stainless Steel | 150 |
| P. 148 | 10,0 | Stainless Steel | 35 |
| P. 150 | 11,0 | Stainless Steel | 35 |
| P. 250 | 2,7 | Stainless Steel | 4,5 |
| P. 252 | 3,0 | Stainless Steel | 8 |
| P. 256 | 5,0 | Stainless Steel | 10 |
| P. 268 | 7,0 | Stainless Steel | 4,5 |
| P. 264 | 6,0 | Stainless Steel | 8 |



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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Parker Worldwide

AE – UAE, Dubai
Tel: +971 4 8127100
parker.me@parker.com

AR – Argentina, Buenos Aires
Tel: +54 3327 44 4129

AT – Austria, Wiener Neustadt
Tel: +43 (0)2622 23501-0
parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt
Tel: +43 (0)2622 23501 900
parker.easteurope@parker.com

AU – Australia, Castle Hill
Tel: +61 (0)2-9634 7777

AZ – Azerbaijan, Baku
Tel: +994 50 2233 458
parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles
Tel: +32 (0)67 280 900
parker.belgium@parker.com

BR – Brazil, Cachoeirinha RS
Tel: +55 51 3470 9144

BY – Belarus, Minsk
Tel: +375 17 209 9399
parker.belarus@parker.com

CA – Canada, Milton, Ontario
Tel: +1 905 693 3000

CH – Switzerland, Etoy
Tel: +41 (0)21 821 87 00
parker.switzerland@parker.com

CL – Chile, Santiago
Tel: +56 2 623 1216

CN – China, Shanghai
Tel: +86 21 2899 5000

CZ – Czech Republic, Klecany
Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst
Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup
Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid
Tel: +34 902 330 001
parker.spain@parker.com

FI – Finland, Vantaa
Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve
Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Athens
Tel: +30 210 933 6450
parker.greece@parker.com

HK – Hong Kong
Tel: +852 2428 8008

HU – Hungary, Budapest
Tel: +36 1 220 4155
parker.hungary@parker.com

IE – Ireland, Dublin
Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IN – India, Mumbai
Tel: +91 22 6513 7081-85

IT – Italy, Corsico (MI)
Tel: +39 02 45 19 21
parker.italy@parker.com

JP – Japan, Tokyo
Tel: +81 (0)3 6408 3901

KR – South Korea, Seoul
Tel: +82 2 559 0400

KZ – Kazakhstan, Almaty
Tel: +7 7272 505 800
parker.easteurope@parker.com

MX – Mexico, Apodaca
Tel: +52 81 8156 6000

MY – Malaysia, Shah Alam
Tel: +60 3 7849 0800

NL – The Netherlands, Oldenzaal
Tel: +31 (0)541 585 000
parker.nl@parker.com

NO – Norway, Asker
Tel: +47 66 75 34 00
parker.norway@parker.com

NZ – New Zealand, Mt Wellington
Tel: +64 9 574 1744

PL – Poland, Warsaw
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal, Leca da Palmeira
Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest
Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow
Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga
Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SG – Singapore
Tel: +65 6887 6300

SK – Slovakia, Banská Bystrica
Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto
Tel: +386 7 337 6650
parker.slovenia@parker.com

TH – Thailand, Bangkok
Tel: +662 717 8140

TR – Turkey, Istanbul
Tel: +90 216 4997081
parker.turkey@parker.com

TW – Taiwan, Taipei
Tel: +886 2 2298 8987

UA – Ukraine, Kiev
Tel: +380 44 494 2731
parker.ukraine@parker.com

UK – United Kingdom, Warwick
Tel: +44 (0)1926 317 878
parker.uk@parker.com

US – USA, Cleveland
Tel: +1 216 896 3000

VE – Venezuela, Caracas
Tel: +58 212 238 5422

ZA – South Africa, Kempton Park
Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

European Product Information Centre
Free phone: 00 800 27 27 5374
(from AT, BE, CH, CZ, DE, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PT, SE, SK, UK)



**Parker Hannifin Manufacturing
Germany GmbH & Co. KG**
Quick Coupling Division Europe
Daimlerstr. 7
71735 Eberdingen – Germany
Phone +49 7042 100 0
Fax +49 7042 100 147
www.rectus.de