



# 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.

Nominal Diameter

**7,5** = 45 mm<sup>2</sup>

Rectus Series

**13****Technical Description**

Robust brass coupling with Japanese industrial profile.  
Coupling system with single-hand operation. Above average flow volumes and structure resistant to the effects of external forces.

**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**

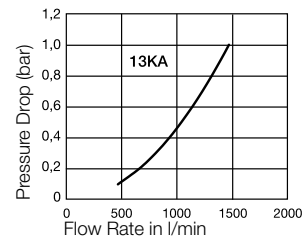
**Coupling:** Brass nickel plated

**Plug:** Steel nickel plated

**Seals:** NBR

**Interchangeability**

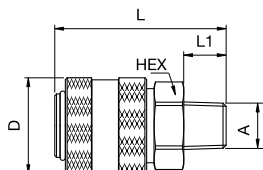
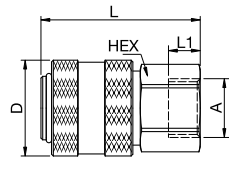
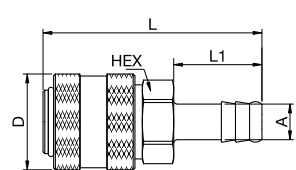
- Nitto-Kohki 200
- Cejn 314
- Cejn 315

**Flow diagrams****Air**



## Coupling – with valve

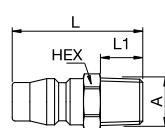
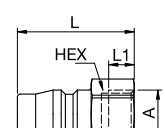
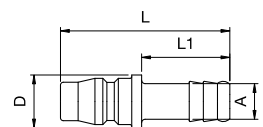
## Series 13KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 <p>Male Thread</p>	R 1/4	22		49	12		27			blank	13KAAK13MPX
	R 1/4	22		49	12		27			nickel plated	13KAAK13MPN
	R 3/8	22		49	12		27			blank	13KAAK17MPX
	R 3/8	22		49	12		27			nickel plated	13KAAK17MPN
	R 1/2	22		53	17		27			blank	13KAAK21MPX
	R 1/2	22		53	17		27			nickel plated	13KAAK21MPN
 <p>Female Thread</p>	G 1/4	22		45	9		27			blank	13KAIW13MPX
	G 1/4	22		45	9		27			nickel plated	13KAIW13MPN
	G 3/8	22		45	9		27			blank	13KAIW17MPX
	G 3/8	22		45	9		27			nickel plated	13KAIW17MPN
	G 1/2	24		48	12		27			blank	13KAIW21MPX
	G 1/2	24		48	12		27			nickel plated	13KAIW21MPN
 <p>Hose Barb</p>	6 mm	21		62	25		27			blank	13KATF06MPX
	6 mm	21		62	25		27			nickel plated	13KATF06MPN
	8 mm	21		62	25		27			blank	13KATF08MPX
	8 mm	21		62	25		27			nickel plated	13KATF08MPN
	10 mm	21		62	25		27			blank	13KATF10MPX
	10 mm	21		62	25		27			nickel plated	13KATF10MPN
	13 mm	21		62	25		27			blank	13KATF13MPX
	13 mm	21		62	25		27			nickel plated	13KATF13MPN



## Plugs – without valve

## Series 13KA

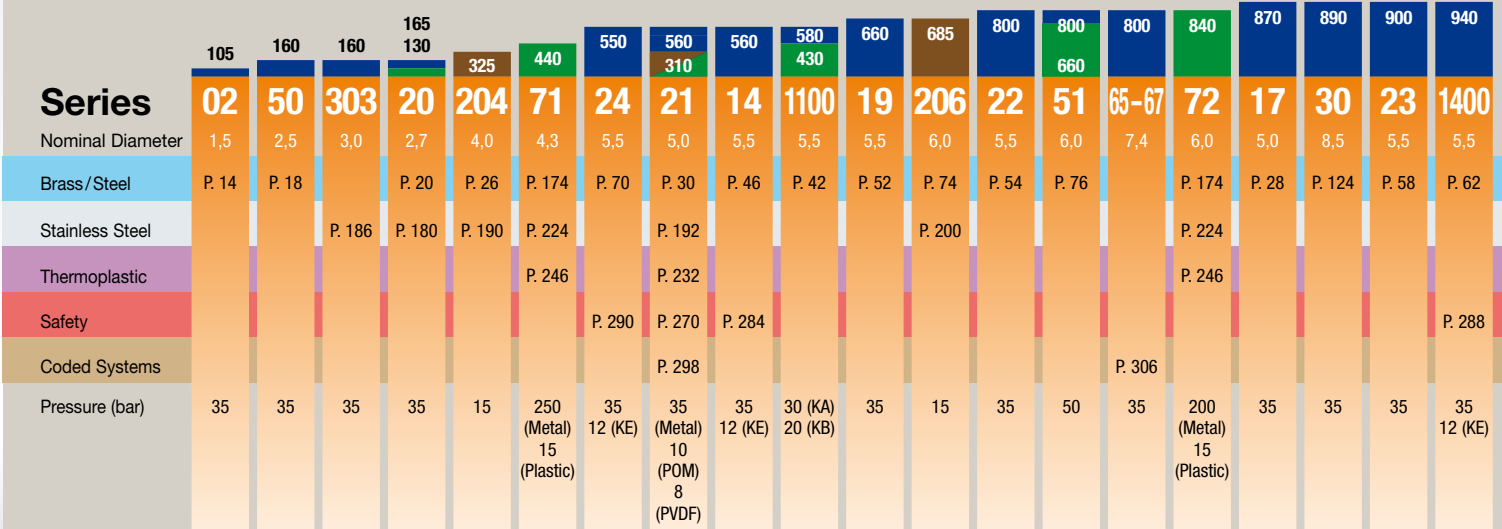
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 <p>Male Thread</p>	R 1/4	14		37	12						13SFAK13SXN
	R 3/8	17		37	12						13SFAK17SXN
	R 1/2	22		44	17						13SFAK21SXN
 <p>Female Thread</p>	G 1/4	17		34	9						13SFIW13SXN
	G 3/8	19		34	9						13SFIW17SXN
 <p>Hose Barb</p>	6 mm			48	25		15				13SFTF06SXN
	8 mm			48	25		15				13SFTF08SXN
	10 mm			48	25		15				13SFTF10SXN
	13 mm			48	25		15				13SFTF13SXN

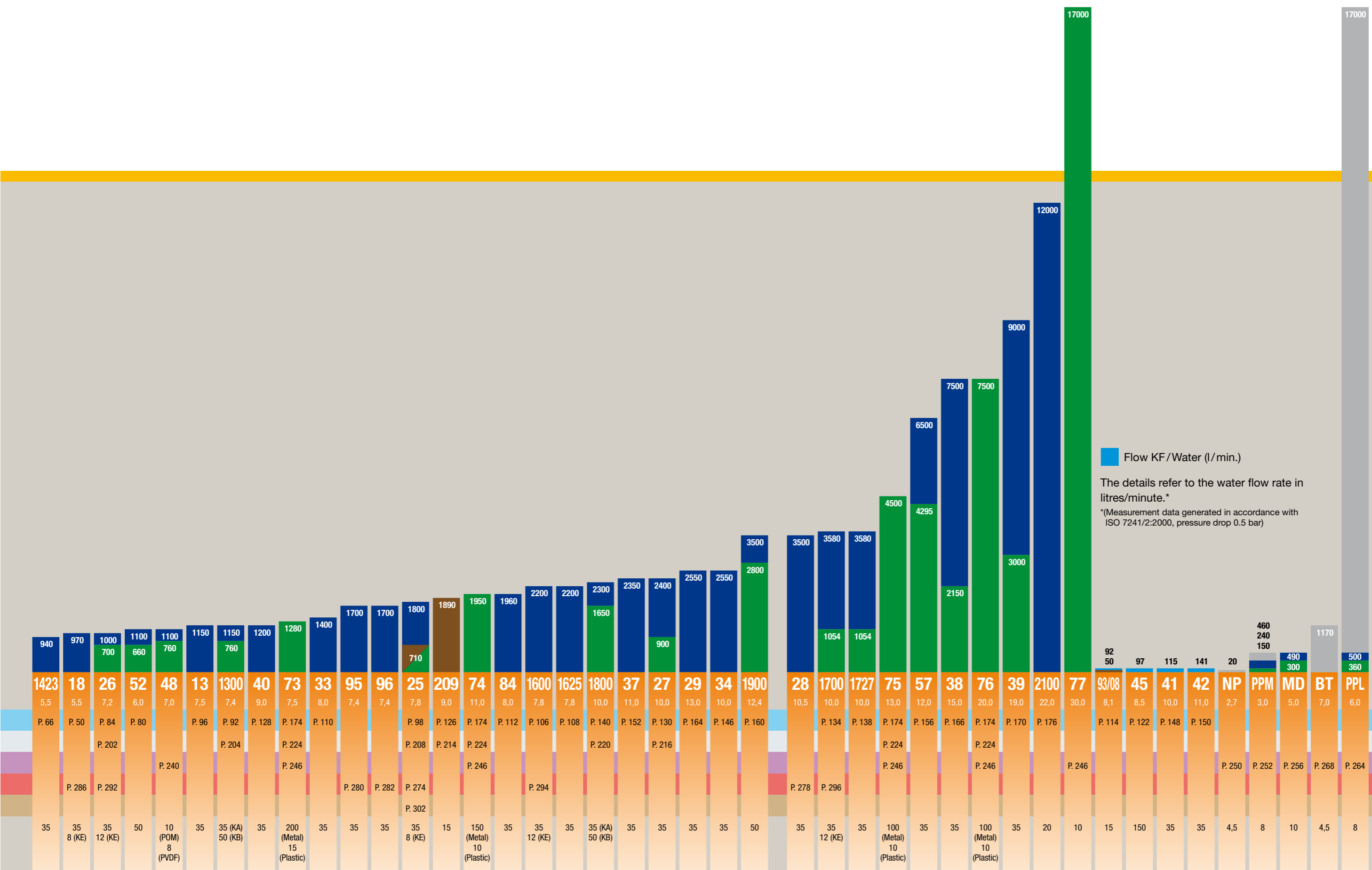
# ALL OUR PERFORMANCE CAPACITY AT A GLANCE.

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)





**Flow KF/Water (l/min.)**

The details refer to the water flow rate in litres/minute.\*

\*(Measurement data generated in accordance with ISO 7241/2:2000, 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 8 (KE)
P. 84	7,2	Brass/Steel	35 12 (KE)
P. 80	6,0	Brass/Steel	50
P. 240	7,0	Stainless 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	Stainless 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 8 (KE)
P. 214	9,0	Brass/Steel	15
P. 174	11,0	Stainless Steel	150 (Metal) 10 (Plastic)
P. 112	8,0	Brass/Steel	35
P. 106	7,8	Brass/Steel	35 12 (KE)
P. 108	7,8	Brass/Steel	35
P. 140	10,0	Stainless Steel	35 (KA) 50 (KB)
P. 152	11,0	Brass/Steel	35
P. 130	10,0	Stainless Steel	35
P. 216	10,0	Stainless Steel	35
P. 164	13,0	Brass/Steel	35
P. 146	10,0	Brass/Steel	35
P. 160	12,4	Stainless Steel	50
P. 278	10,5	Brass/Steel	35
P. 134	10,0	Brass/Steel	35 12 (KE)
P. 138	10,0	Brass/Steel	35
P. 174	13,0	Stainless Steel	100 (Metal) 10 (Plastic)
P. 156	12,0	Stainless Steel	35
P. 166	15,0	Brass/Steel	35
P. 174	20,0	Stainless Steel	100 (Metal) 10 (Plastic)
P. 170	19,0	Stainless Steel	35
P. 176	22,0	Brass/Steel	20
P. 246	30,0	Stainless Steel	10
P. 114	8,1	Brass/Steel	15
P. 122	8,5	Brass/Steel	150
P. 148	10,0	Brass/Steel	35
P. 150	11,0	Brass/Steel	35
NP	2,7	Brass/Steel	4,5
P. 250	3,0	Brass/Steel	8
PPM	3,0	Brass/Steel	8
P. 252	3,0	Brass/Steel	8
P. 256	5,0	Brass/Steel	10
P. 268	7,0	Brass/Steel	4,5
P. 264	6,0	Brass/Steel	8

Series	Nominal Diameter	Material	Pressure (bar)
93/08	8,1	Brass/Steel	15
45	8,5	Brass/Steel	150
41	10,0	Brass/Steel	35
42	11,0	Brass/Steel	35
20	2,7	Brass/Steel	4,5
460	3,0	Brass/Steel	8
240	3,0	Brass/Steel	8
150	3,0	Brass/Steel	8
490	5,0	Brass/Steel	10
300	5,0	Brass/Steel	10
1170	7,0	Brass/Steel	4,5
500	6,0	Brass/Steel	8
360	6,0	Brass/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
- CO<sub>2</sub> 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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