



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

10 = 80 mm²



Tema Series

1800



Technical Description

Series 1800 is used mainly for applications in the area of compressed air and liquids. The coupling system stands out for its robust, compact design, high flow and high corrosion resistance due to the Ultra HighFlow valve.

Dust Protections  (P. 319)
for Coupling Part.-No. 5026-QC
for Plug Part.-No. 2526-QC

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.

Other designs in series 1800
The following other designs can be found from page:

- Stainless Steel P. 220



Working Pressure**

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

50 bar

Features

- | | |
|--|--|
| <ul style="list-style-type: none"> • Single-hand operation • Particularly suited to medium-sized to large pneumatic systems and compressed air tools | <ul style="list-style-type: none"> • Two-hand operation • Special disc shape of the main seal in the coupling extends the durability • Particularly suited to applications in the area of liquids, which require a coupling that is simple and easy to handle |
|--|--|

Material

Coupling: Brass nickel plated and chrome plated
Plug: Steel hardened, zinc plated
Seals: NBR

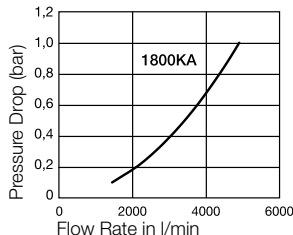
Coupling: Brass nickel plated and chrome plated
Plug: Brass nickel plated and chrome plated
Seals: NBR

Interchangeability

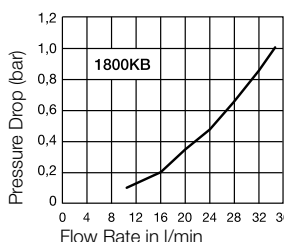
- Rectus 32
- Cejn 408

Flow diagrams

Air



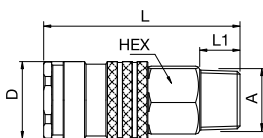
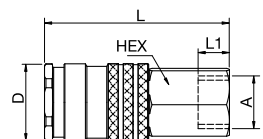
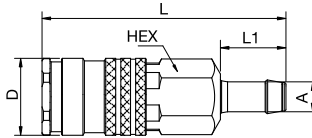
Water





Couplings – with valve

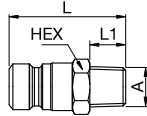
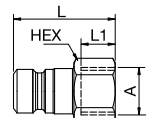
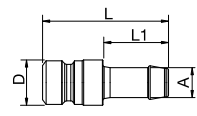
Series 1800KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 3/8	23		69	11		27				1800KAAK17MPN
	R 1/2	23		69	13		27				1800KAAK21MPN
	R 3/4	27		73	15		27				1800KAAK26MPN
 Female Thread	G 3/8	23		65	10		27				1800KAIW17MPN
	G 1/2	25		65	10		27				1800KAIW21MPN
	G 3/4	30		67	11		27				1800KAIW26MPN
 Hose Barb	10 mm	23		82	23		27				1800KATF10MPN
	13 mm	23		82	24		27				1800KATF13MPN
	16 mm	23		82	24		27				1800KATF16MPN
	19 mm	23		82	24		27				1800KATF19MPN



Plugs – without valve

Series 1800KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	17		36	10						1800SFAK10SXZ
	R 1/4	17		39	12						1800SFAK13SXZ
	G 1/4	17		35	9						1800SFAW13SXZ
	R 3/8	17		38	12						1800SFAK17SXZ
	G 3/8	22		36	10						1800SFAW17SXZ
	R 1/2	22		40	14						1800SFAK21SXZ
	R 3/4	27		43	16						1800SFAK26SXZ
 Female Thread	G 1/4	17		36	10						1800SFIW13SXZ
	G 3/8	22		36	10						1800SFIW17SXZ
	G 1/2	27		39	12						1800SFIW21SXZ
 Hose Barb	6 mm			44	23		16				1800SFTF06SXZ
	8 mm			44	23		16				1800SFTF08SXZ
	10 mm			44	23		16				1800SFTF10SXZ
	13 mm			45	24		16				1800SFTF12SXZ
	16 mm			47	24		18				1800SFTF16SXZ
	19 mm			47	24		23				1800SFTF19SXZ



Couplings – with valve

Series 1800KB

	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 1/2	22		54	10		27				1800KBAK21MPN
<p>Female Thread</p>	G 3/8	22		54	9		27				1800KBIW17MPN
	G 1/2	25		55	9		27				1800KBIW21MPN
	G 3/4	30		57	11		27				1800KBIW26MPN



Plugs – with valve

Series 1800KB



	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>	G 1/2	22		47	19						1800SBAK21MPC
<p>Female Thread</p>	G 3/8	22		49	10						1800SBIW17MPC
	G 3/4	30		54	12						1800SBIW26MPC

Protective Sleeve



Series 1800KB

	Description	L mm	D mm	Version	Color	Part Number
	for Couplings 1800KB	78	38	EBA	blue	1800-351

Cross-Reference-List

Connection	Thread	Rectus Part Number old	Tema Part Number old	Part Number new	Page
 Couplings – with valve					
Male Thread	R 3/8		1800 ED	1800KAAK17MPN	141
	R 1/2	32KAAK21MPN	1800 EA	1800KAAK21MPN	141
	R 3/4		1800 EF	1800KAAK26MPN	141
Female Thread	G 3/8	32KAIW17MPN	1800 E	1800KAIW17MPN	141
	G 1/2	32KAIW21MPN	1800 EB	1800KAIW21MPN	141
	G 3/4		1800 EC	1800KAIW26MPN	141
Hose Barb	10 mm	32KATF10MPN	1800 EK10	1800KATF10MPN	141
	13 mm	32KATF13MPN	1800 EK12	1800KATF13MPN	141
	16 mm	32KATF16MPN	1800 EK16	1800KATF16MPN	141
	19 mm	32KATF19MPN	1800 EK19	1800KATF19MPN	141
 Plugs – without valve					
Male Thread	R 1/8		18105	1800SFAK10SXZ	141
	R 1/4	32SFAK13SXZ	18110 A	1800SFAK13SXZ	141
	G 1/4		18110	1800SFAW13SXZ	141
	R 3/8	32SFAK17SXZ	18210 A	1800SFAK17SXZ	141
	G 3/8		18210	1800SFAW17SXZ	141
	R 1/2	32SFAK21SXZ	18220	1800SFAK21SXZ	141
	G 1/2		18230	1800SFAK26SXZ	141
Female Thread	G 1/4	32SFIW13SXZ	18405	1800SFIW13SXZ	141
	G 3/8	32SFIW17SXZ	18410	1800SFIW17SXZ	141
	G 1/2	32SFIW21SXZ	18420	1800SFIW21SXZ	141
Hose Barb	6 mm	32SFTF06SXZ	18006	1800SFTF06SXZ	141
	8 mm	32SFTF08SXZ	18008	1800SFTF08SXZ	141
	10 mm	32SFTF10SXZ	18010	1800SFTF10SXZ	141
	12 mm		18012	1800SFTF12SXZ	141
	16 mm	32SFTF16SXZ	18016	1800SFTF16SXZ	141
	19 mm	32SFTF19SXZ	18019	1800SFTF19SXZ	141

Cross-Reference-List

Connection	Thread	Rectus Part Number old	Tema Part Number old	Part Number new	Page
 Couplings – with valve					
Male Thread	R 1/2		1800 NA	1800KBAK21MPN	142
Female Thread	G 3/8		1800 N	1800KBIW17MPN	142
	G 1/2		1800 NB	1800KBIW21MPN	142
	G 3/4		1800 NC	1800KBIW26MPN	142
 Plugs – with valve					
Male Thread	G 1/2		18420 MN	1800SBAK21MPC	142
Female Thread	G 3/8		18410 MN	1800SBIW17MPC	142
	G 3/4		18430 MN	1800SBIW26MPC	142

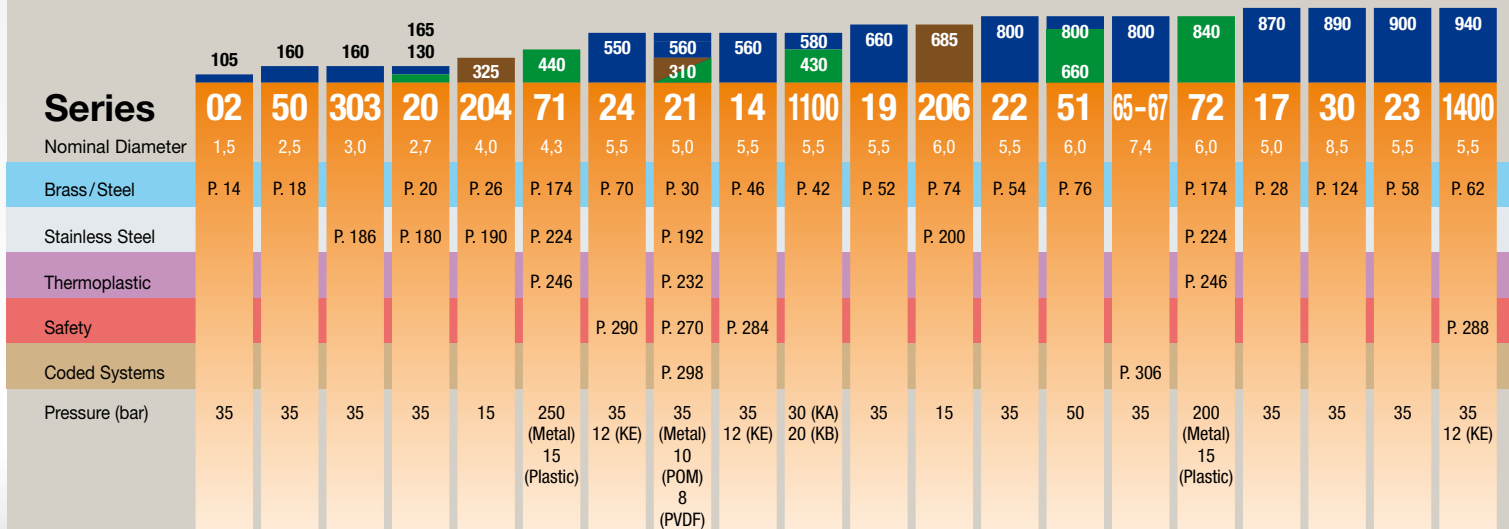
ALL OUR PERFORMANCE CAPACITY AT A GLANCE.

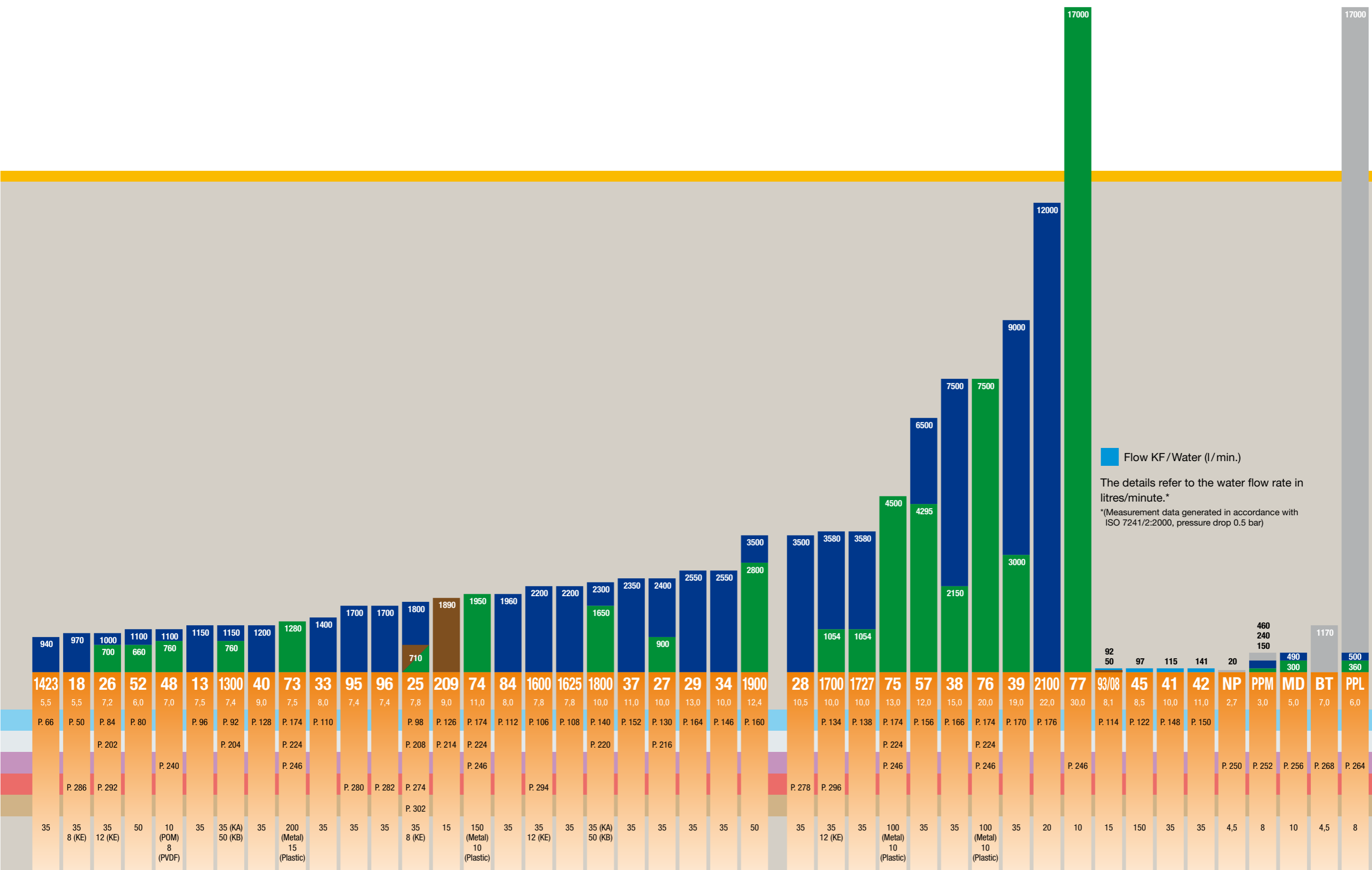
Using this flow rate diagram, you can identify at a glance the coupling series suited to your application and the corresponding operating pressure.

- 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	Pressure (bar)
Brass/Steel		
Stainless Steel		
Thermoplastic		
Safety		
Coded Systems		



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

ENGINEERING YOUR SUCCESS.

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