



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

Rectus Series

1727**Other designs in series 1727**

The following other designs can be found from page:

- ▶ Stainless Steel P. 216
- ▶ Safety Self-Venting P. 290

Technical Description

Rectus Tema premium industrial coupling 1/2" with standard European profile. Suitable for compressed air applications with greater than average air consumption. Above-average flow values compared with standard market products. Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. Extremely robust and ergonomically shaped, 2-component plastic sleeve.

**Working Pressure****

35 bar

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

Material

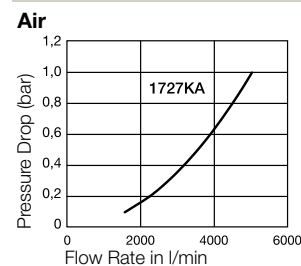
Coupling: Brass nickel plated, Steel QPQ treated, PA6+TPE

Plug: Steel nickel plated

Seals: NBR

Interchangeability

- Rectus 27
- Rectus 1700
- Cejn 410

Flow diagrams

Dust Protections  (P. 319)
for Coupling Part.-No. SK27S
for Plug Part.-No. SK16S

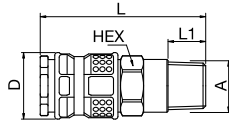
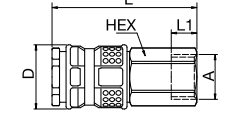
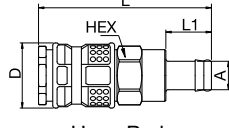
Working Temperature*
-20°C up to +40°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +40°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.



Couplings – with valve

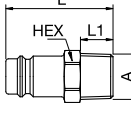
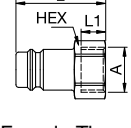
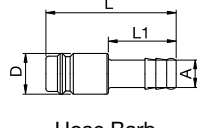
Series 1727KA

	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 3/8	24		70	12		30				1727KAAK17SPN
	R 1/2	24		75	17		30				1727KAAK21SPN
	R 3/4	27		64	17		30				1727KAAK26SPN
 <p>Female Thread</p>	G 3/8	24		64,5	10		30				1727KAIW17SPN
	G 1/2	24		68	12		30				1727KAIW21SPN
	G 3/4	32		69	14		30				1727KAIW26SPN
 <p>Hose Barb</p>	10 mm	24		80	21		30				1727KATF10SPN
	13 mm	24		80	21		30				1727KATF13SPN
	16 mm	24		80	21		30				1727KATF16SPN



Plugs – without valve

Series 27SF

	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	17		40	12						27SFAK13SXN
	R 3/8	17		40	12						27SFAK17SXN
	R 1/2	22		45	17						27SFAK21SXN
	R 3/4	27		48	19						27SFAK26SXN
 <p>Female Thread</p>	G 1/4	17		33	9						27SFIW13SXN
	G 3/8	19		33	12						27SFIW17SXN
	G 1/2	24		37	12						27SFIW21SXN
	G 3/4	32		42	16						27SFIW26SXN
 <p>Hose Barb</p>	6 mm			48	25		15				27SFTF06SXN
	8 mm			48	25		15				27SFTF08SXN
	9 mm			48	25		15				27SFTF09SXN
	10 mm			48	25		15				27SFTF10SXN
	13 mm			48	25		15				27SFTF13SXN
	16 mm			48	25		18				27SFTF16SXN
	19 mm			48	25		21				27SFTF19SXN

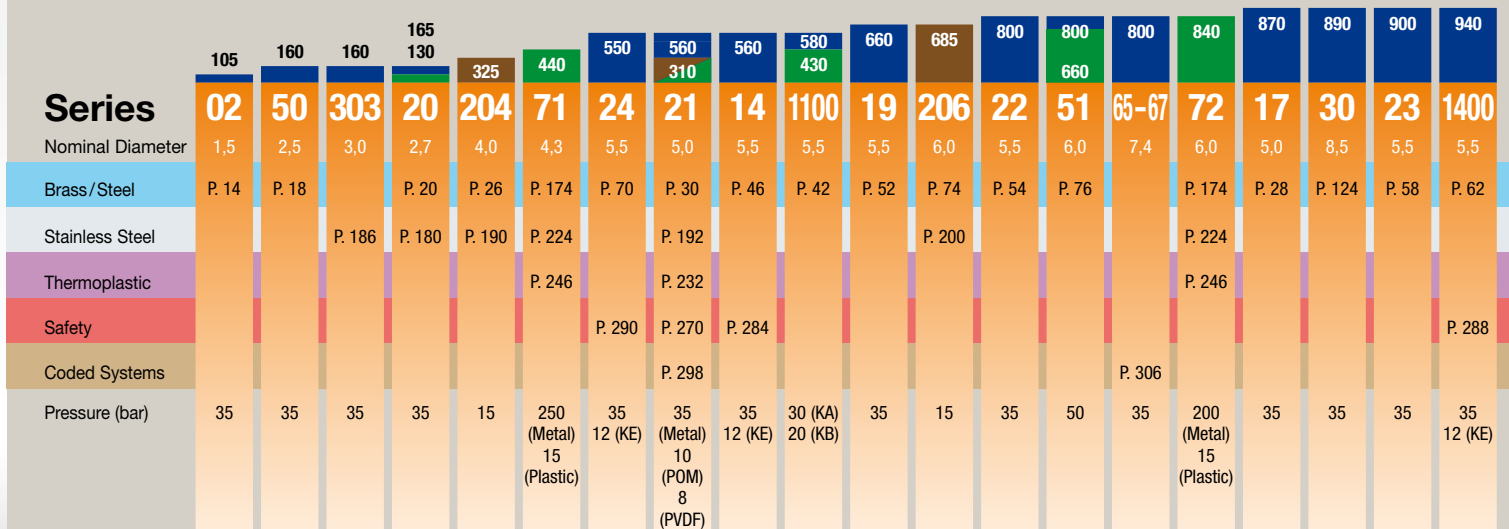
ALL OUR PERFORMANCE CAPACITY AT A GLANCE.

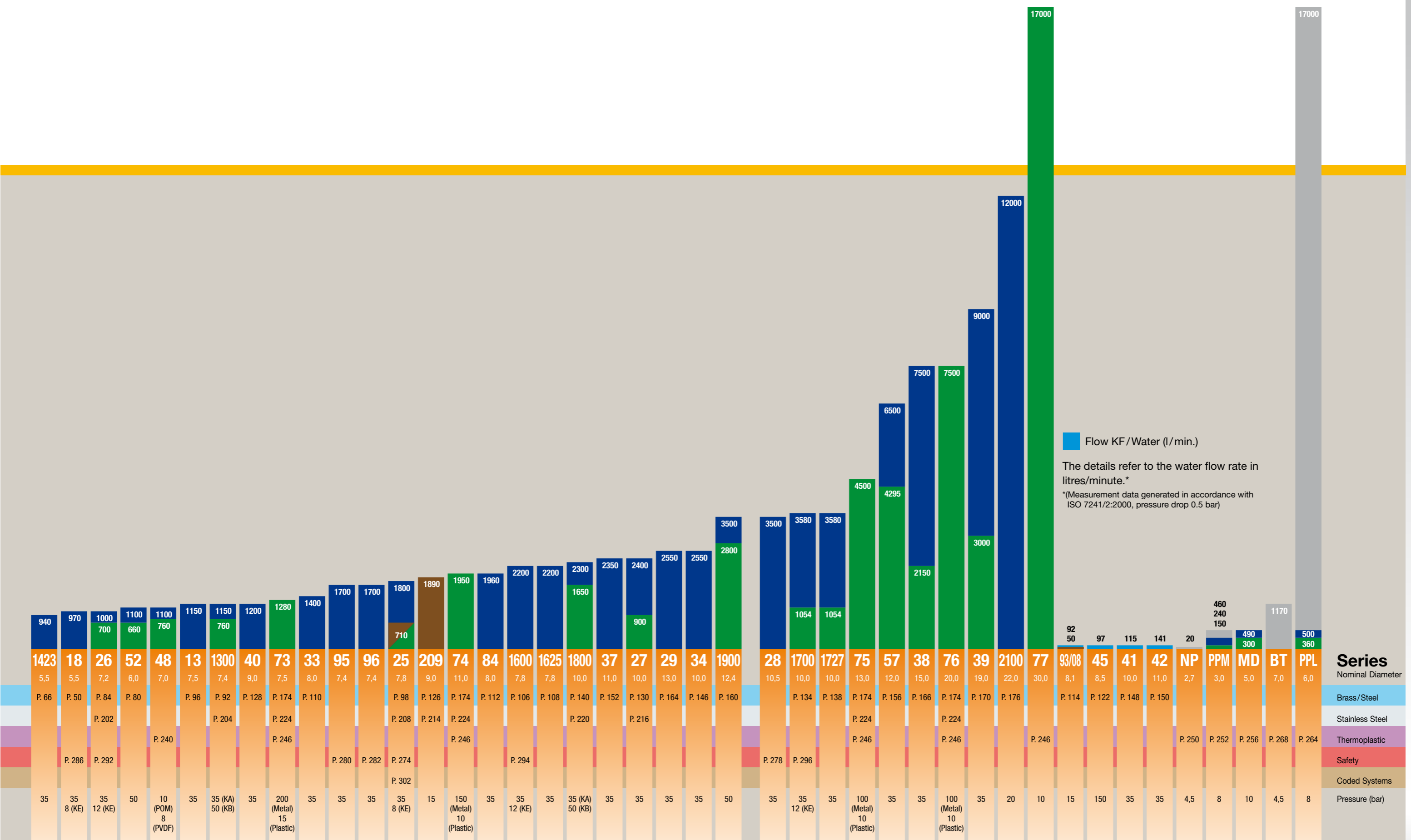
Using this flow rate diagram, you can identify at a glance the coupling series suited to your application and the corresponding operating pressure.

- 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	Flow KF/Water (l/min.)	Pressure (bar)
P. 66	5,5	1423	35
P. 50	5,5	18	35 (KE)
P. 84	7,2	26	35 (KE)
P. 80	6,0	52	50
P. 96	7,5	13	35
P. 92	7,4	1300	35 (KA) 50 (KB)
P. 128	9,0	40	35
P. 174	7,5	73	200 (Metal) 15 (Plastic)
P. 110	8,0	33	35
P. 106	7,4	95	35
P. 108	7,4	96	35
P. 126	7,8	25	35 (KE)
P. 214	9,0	209	15
P. 174	11,0	74	150 (Metal) 10 (Plastic)
P. 112	8,0	84	35
P. 106	7,8	1600	35 (KE)
P. 108	7,8	1625	35
P. 140	10,0	1800	35 (KA) 50 (KB)
P. 152	11,0	37	35
P. 130	10,0	27	35
P. 164	13,0	29	35
P. 146	10,0	34	35
P. 160	12,4	1900	50
P. 134	10,5	28	35
P. 138	10,0	1727	35
P. 174	13,0	75	100 (Metal) 10 (Plastic)
P. 156	12,0	57	35
P. 166	15,0	38	35
P. 174	20,0	76	100 (Metal) 10 (Plastic)
P. 170	19,0	39	35
P. 176	22,0	2100	20
P. 246	30,0	77	10
P. 114	8,1	93/08	15
P. 122	8,5	45	150
P. 148	10,0	41	35
P. 150	11,0	42	35
P. 250	2,7	NP	4,5
P. 252	3,0	PPM	8
P. 256	5,0	MD	10
P. 268	7,0	BT	4,5
P. 264	6,0	PPL	8

Series

Nominal Diameter

Brass/Steel

Stainless Steel

Thermoplastic

Safety

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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