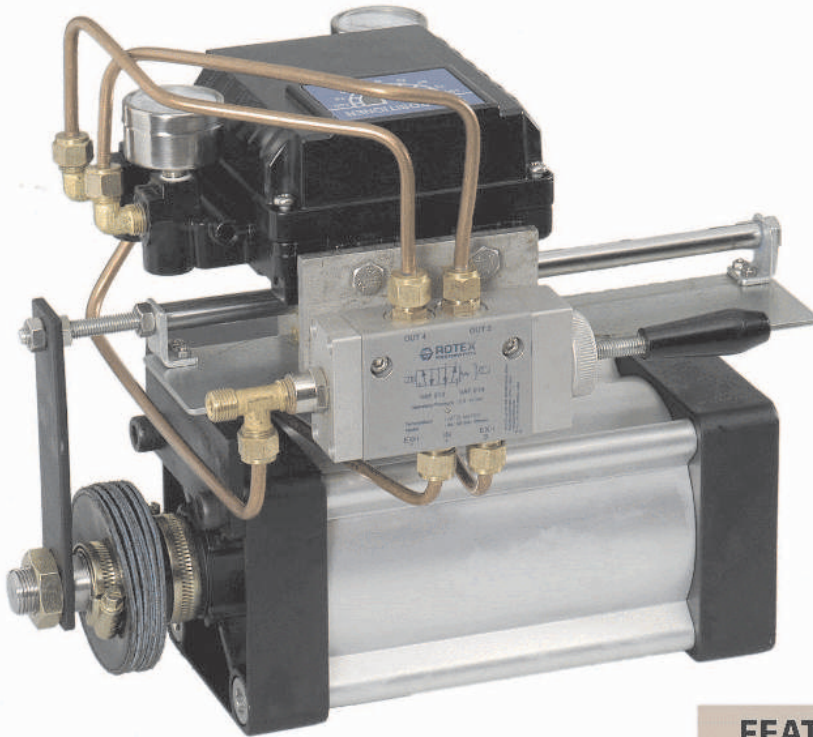




Engineering For The Future

PNEUMATIC POWER CYLINDER - PNEUMATIC REGULATING



FEATURE

Precision linear pneumatic positioner is fitted with reversible cam which acts as a position feed back. The linear positioner which is mounted on a subbase, converts an ON OFF linear cylinder to regulating. The power cylinder can be integrated with standard mountings and various accessories. The positioner is high quality, flapper nozzle type.

PNEUMATIC CYLINDER

Standard	ISO 6431 (UPTO ϕ 160 mm)
Cylinder bore	ϕ 32 to ϕ 1100
Stroke	50mm to 1800mm
Max. pressure	10 bar

SPECIFICATIONS

- Accuracy $\pm 1\%$
- Repeatability $\pm 0.5\%$
- Hysteresis $\pm 0.2\%$
- Dead band $\pm 0.1\%$

all specifications are related to full scale

FORK 'S'



RODEND 'W'



FLEXIBLE COUPLING 'F'



FOOT 'MS1'





Engineering For The Future

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EXTRA OPTIONS



JUNCTION BOX

- Provides 2 x 1/2" NPT input connection.
- 6-way connector strip for connection.
- Switches are pre wired with cable glands.
- Housing, Pressure diecast, Epoxy powder coated.
- SS316/C & 8M on request.

POSITIONER

MODEL

Feed back
Control
Signal

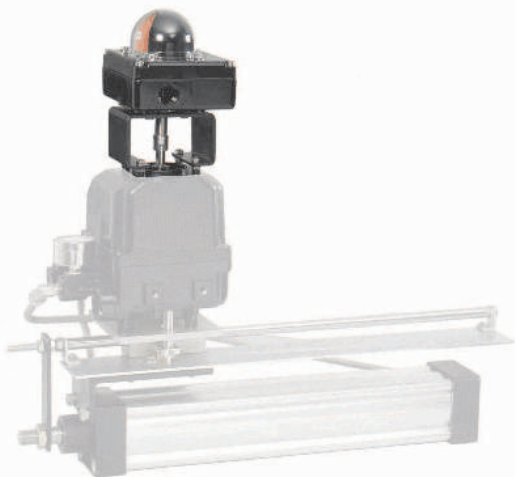
Nominal flow
Consumed flow
Sensitivity
Weight
Op.Temp

PR120

Spring
Pneumatic
0,2-1 bar
or 3-15 psi
600 NI/min
< 15NI/min
< 0.005 bar
1.0 kg
-10°C ~70°C

PR121

Spring
Electronic
4-20 mA
or 0-10 V
600 NI/min
< 15NI/min
< 0.1 mA
1.0 kg
-10°C ~70°C

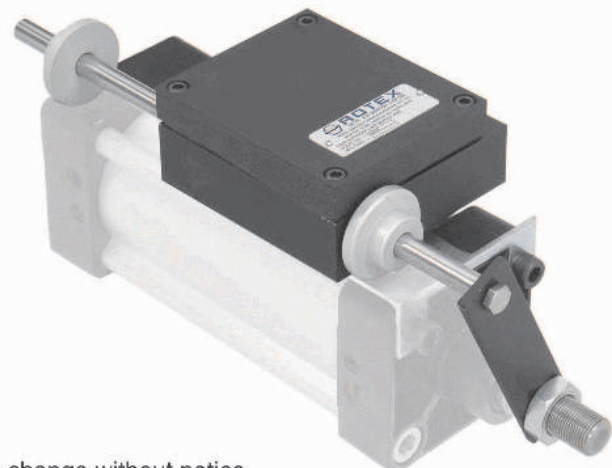


POSITION TRANSMITTER

- 2 Wire system
- 24 V DC Max. 29 V DC
- Intrinsically safe, IP65
- Linearity 0.5% of FS
- Repeatability 0.5% of FS
- Zero and span can be adjusted
- SMART transmitter available, Profi & Devicenet
- Life > 1 million cycle

LIMIT SWITCH

- IP65, Aluminium die cast body
- 3/4" ET, 1/2" NPT twin cable entry
- Switching element
 - Microswitch : Honeywell, Cherry Max. 10 Amp.
 - Proximity : P & F, Namur, (Intrinsic safe)
- Easy to set cam. Cover need not be opened to set cams
- Independent to stroke of power cylinder
- Terminal strip for easy cabling
- Explosion proof and IP67 available



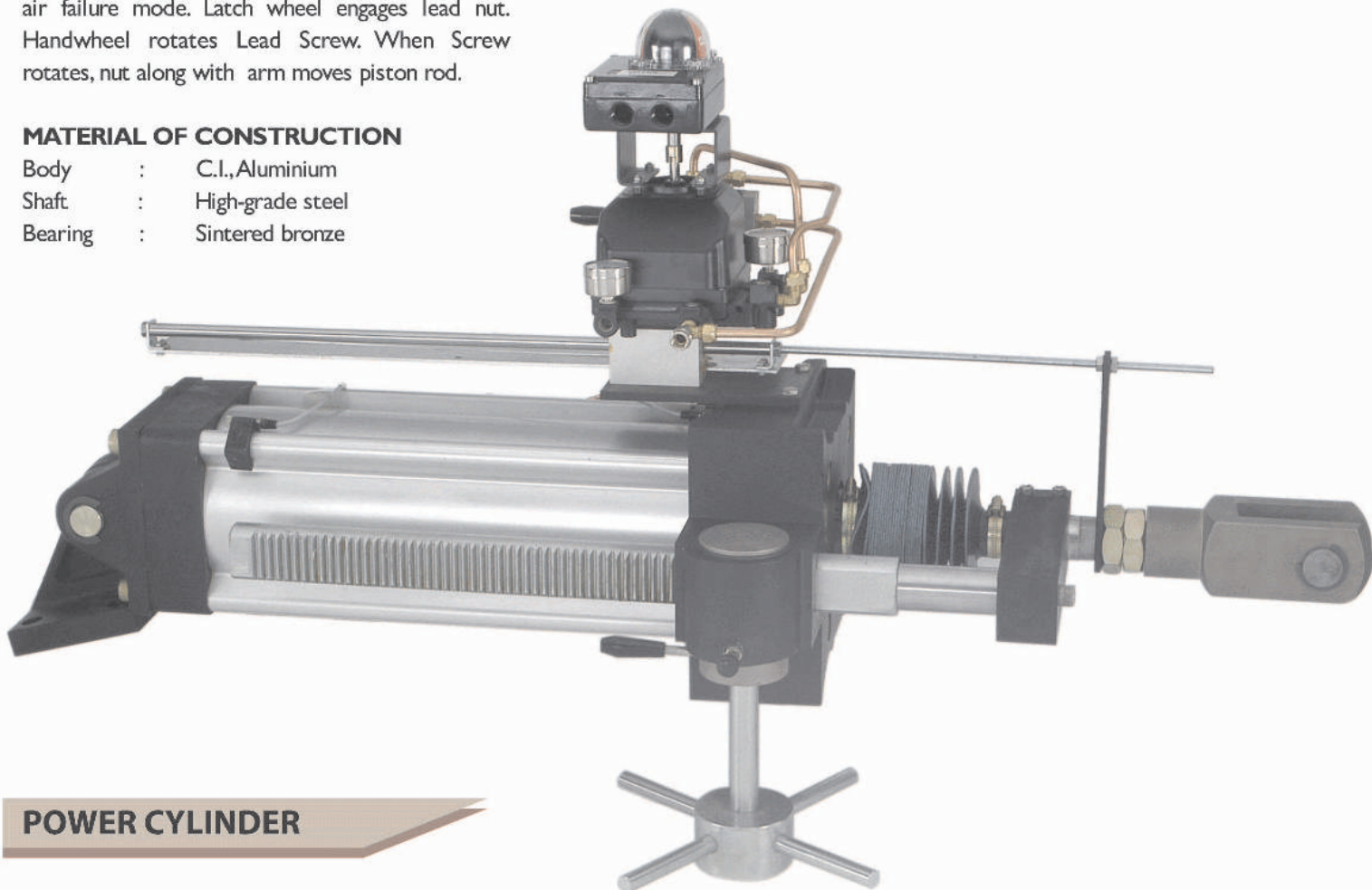
ROTEX HIGH PERFORMANCE POWER CYLINDER AND EXCELLENT DESIGN FEATURES

MANUAL OVERRIDE

Manual Override is used to operate cylinder in an air failure mode. Latch wheel engages lead nut. Handwheel rotates Lead Screw. When Screw rotates, nut along with arm moves piston rod.

MATERIAL OF CONSTRUCTION

Body	:	C.I., Aluminium
Shaft	:	High-grade steel
Bearing	:	Sintered bronze



POWER CYLINDER

Rotex power cylinder can be installed in various corrosive environments by selecting suitable material.

Bellows and guards can be provided for physical protection.

MATERIAL OF CONSTRUCTION

Cover	:	Aluminium, C.S. SS304
Tube	:	Aluminium, C.S. SS304
Piston seal	:	NBR, Viton
Rod seal	:	Polyurathane/PE
Cushioning	:	Optional
Bellows	:	Neoprene/Leather
Cylinder Mountings as per ISO 6431 and ISO 6432.		
All accessories can be Installed or dismantled without removing cylinder covers.		

LIMIT SWITCH

Rotex limit switches can be installed on cylinder directly. Switching elements can be microswitch or proximity switch.

MATERIAL OF CONSTRUCTION

Body	:	Aluminium Die cast
Cam	:	Aluminium, SS 304
Cam Pin	:	SS 304
Gasket	:	Neoprene
Power	:	220V AC/DC
5 Amps. for Microswitch for proximity switch refer datasheets		

ROTEX POWER CYLINDER IS SUITED IN CRITICAL APPLICATIONS WITH MULTIPLE OPTIONAL DEVICES

PROPORTIONATE POWER CYLINDER

Rotex power cylinder can be installed with Pneumatic or Electropneumatic positioners which are available in reversible or non reversible type.

MATERIAL OF CONSTRUCTION

Body	: Aluminium, SS, 304
Spool	: Aluminium, SS 304
Solenoid	: Epoxy coated IP 67
Fasteners	: SS 304

FAILSAFE SYSTEM CONTROLS

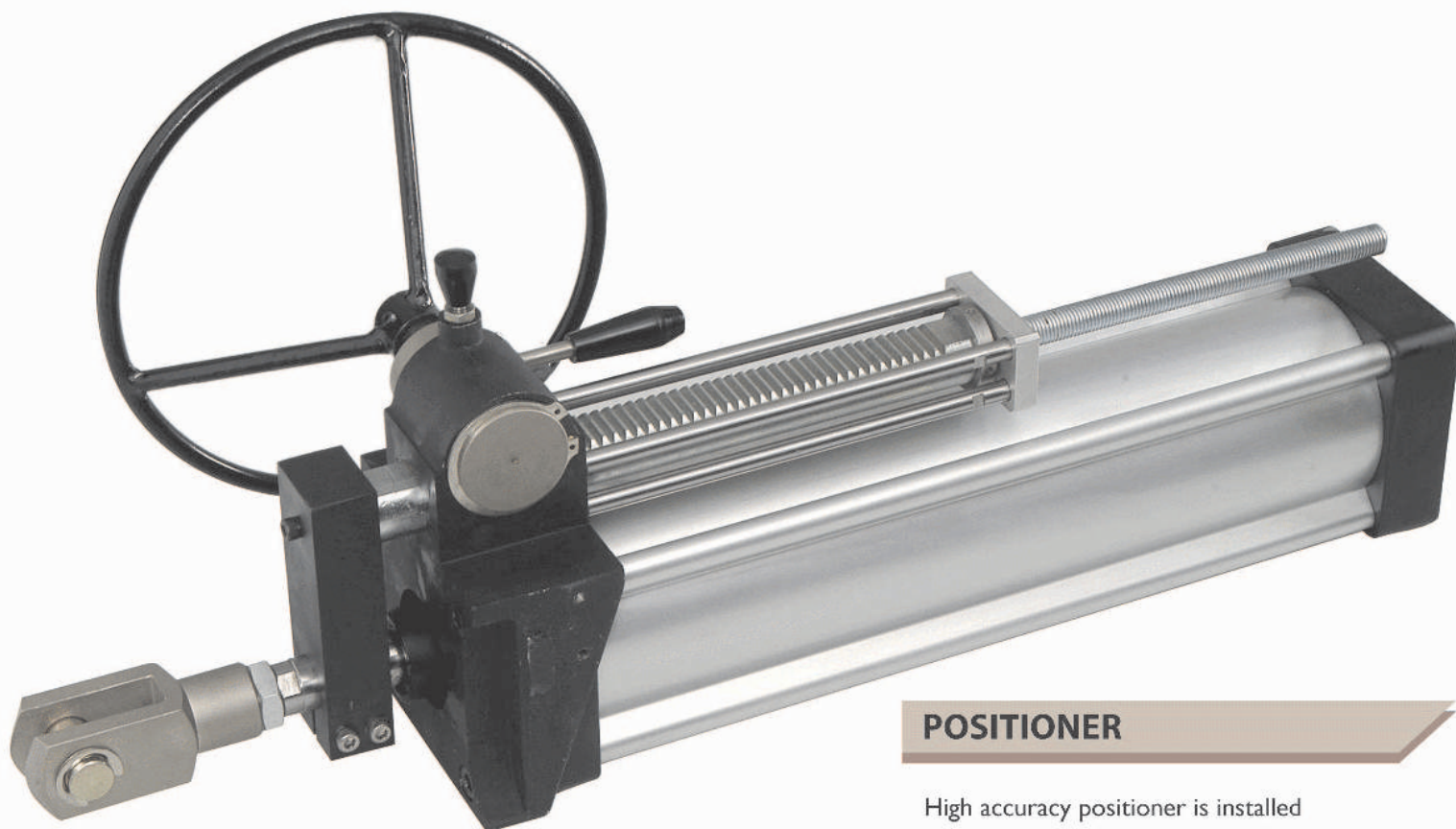
Various combinations of FAILURE SAFETY systems can be created by using airlock relay with various Pneumatic or Electropneumatic elements.

SR001 : Fail Safe Position Piston Rod inside

SR002 : Fail Safe Position Piston Rod outside

SR003 : Fail Safe Stay put

The above can be achieved in conditions of Air Failure or Power Failure or both Power & Air Failure.



POSITIONER

High accuracy positioner is installed with ISO kit on the power cylinder.

MATERIAL OF CONSTRUCTION

Cover	: Aluminium, C.S. SS 304
Body	: Aluminium Diecast
Spool	: SS 304
Diaphragm	: NBR
Gasket	: Neoprene
Spring	: SS 302
Connector	: Brass, Carbon Steel, SS 304

POSITION FEED BACK

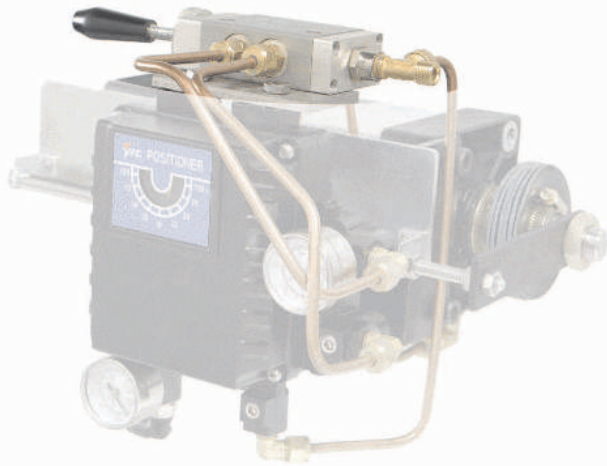
Transmitter is connected directly to the piston rod shaft. 2 wire Transmitter will generate 4-20mA for the feed back.

Specifications are subject to change without notice

MANUAL OVERRIDE

- Latch wheel for auto/manual
- Self locking on external force
- Safety key for excessive load
- Strokes upto 1800 mm
- Shaft made of special wear resistant steel for long life
- Type LO1, LO2, and LO3

OPTIONS



AIRLOCK RELAY

- 5/2 airlock relay
 - Type ALR5F set at 3.5 bar
 - Type ALR5A Adjustable 3-10 bar
 - Type ALR5S for signal failure
- Zero leakage
- Auto release
- Bypass for manual operation
- Can be installed directly on 5/2 and 5/3 single or double solenoid Rotex valves

PROTECTIVE BELLOW

Cylinders working in a dusty environment's needs to protect the rod seal. The Bellow can be from Neoprene or from artificial leather.



ELECTRO PNEUMATIC POWER CYLINDER



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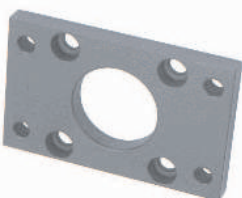
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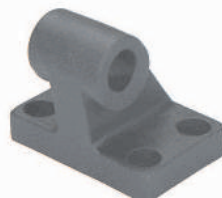
FLANGE 'MF1'



REAR TRUNION 'MP2'



CLEVIS LB2'



TRUNION 'MT5'

