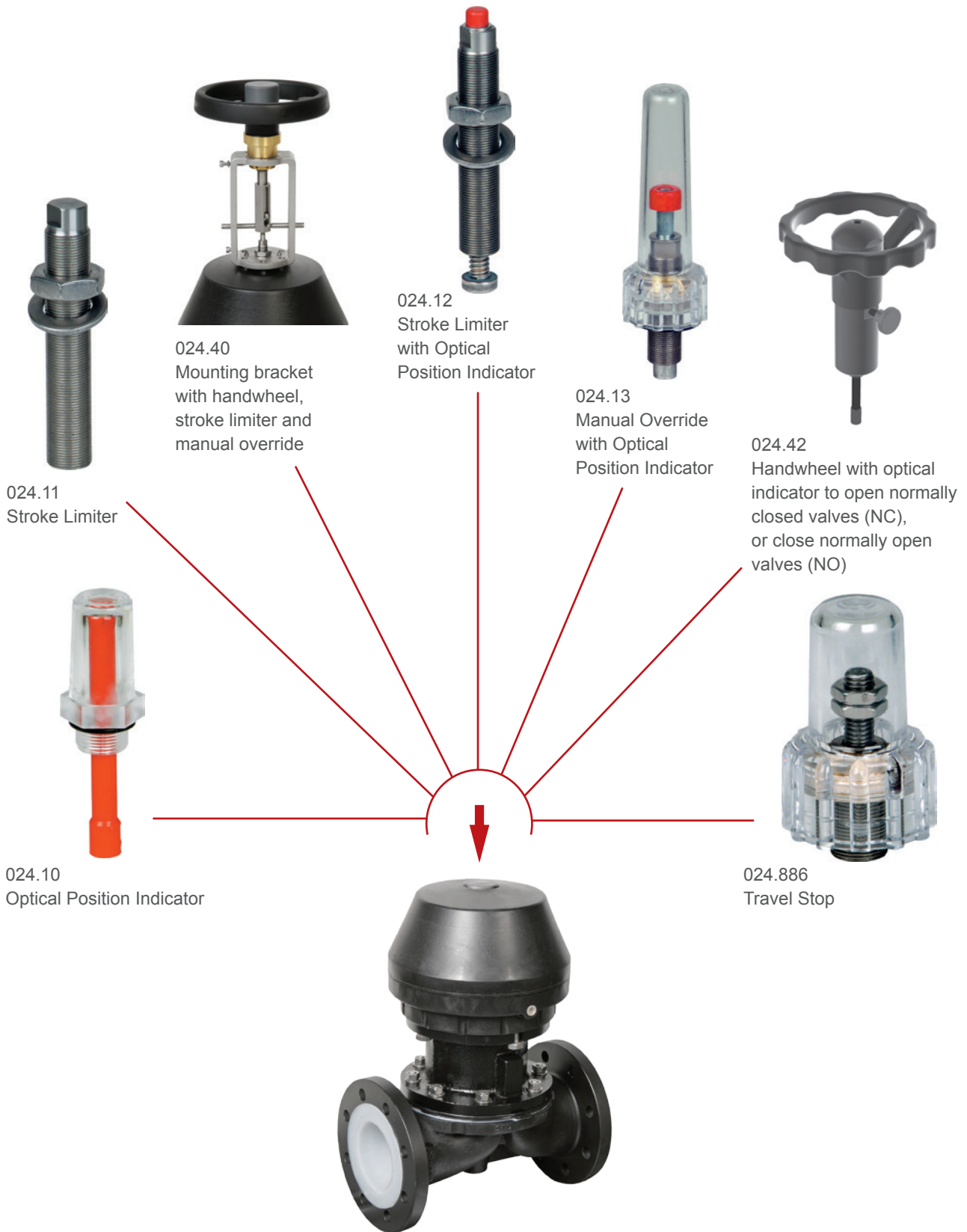


System Components and Process Automation

Manual Adjustment - Optical Indication



Upon request combinations of Manual Adjustments with Switch Boxes are available

System Components and Process Automation

Electrical Switch Boxes



024.85 - 87
Electrical Position Indicator



024.50
Contact - Free Limit Switch
Optional: ATEX approved Version /
Stainless Steel Version



024.90
Limit Switch open position



024.91 - 93
Electrical Position Indicator
(For sizes bigger DN25 it is
preferred to mount indicators
024.63 - 65 and 024.85 - 87 for
more convenient assembly.)



024.63-024.65
Control Head Switch for
open and close with optical
indicator catches the eye
024.89
AS-Interface Control Head
Switch for open and close
position with optical indicator
catches the eye



Upon request combinations of Manual Adjustments with Switch Boxes are available

System Components and Process Automation

Pilot Valves



602
3/2 Way Pilot Solenoid Valve
Direct mounting
Qn 60 l/min



607
5/2, 5/3 Way Pilot Solenoid Valve
Qn 1300 l/min



600
3/2 Way Pilot Solenoid Valve
Direct Mounting
Qn 200 l/min



603
3/2 Way Pilot Solenoid Valve
Manifold mounting
Qn 60 l/min



605
3/2 Way Pilot Solenoid Valve
Manifold mounting
Qn 200 l/min

System Components and Process Automation

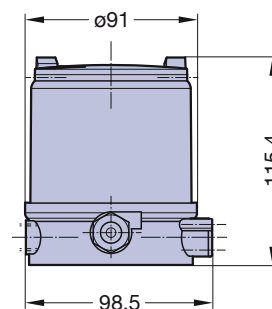
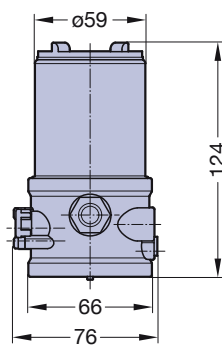
Electropneumatic Positioners

ECOCENT 024.16.7
for central mounting on
the top of the process
control valves

Main Features

- Compact stainless steel, high performance plastic design
- Contact- free continuous sensor measuring of the valve spindle position
- Easy start up
- Pneumatic positioning for single acting actuators
- High air flow rate for type 024.16.720
- Close tight function

Type	024.16.710	024.16.720
Recommended for valve size	DN 8 - 50	DN 50 - 100



Pictures shows valve assembled with Positioner 024.16.710

Body; Cocer; Sealing	PPS/stainless steel; PC transparent; EPDM	PPS/stainless steel; PC transparent; EPDM
Ambient temperature	0 - 55°C	0 - 55°C
Control medium	Neutral gases, air according DIN ISO 8573-1	Neutral gases, air according DIN ISO 8573-1
Pilot air ports	G 1/8	G 1/8
Supply pressure; Air flow rate	1 - 7 bar ¹ ; 7 NI/min	3 - 7 bar ¹ ; 130 NI/min
Intrinsic air consumption	0 l/min	0 l/min
Power supply	24 V DC +/- 10%	24 V DC +/- 10%
Power consumption	< 3,5 W	< 3,5 W
Electrical connection	Multipol M12 (8- pins), stainless steel	Multipol M12 (8- pins), stainless steel
Setpoint setting; Output resistance	4 to 20 mA; 180 Ohm	4 to 20 mA; 180 Ohm
Analogue feedback 4 - 20 mA	Optional	Standard
Stroke range valve spindle	3...28 mm	3 - 45 mm
Binary input	0 - 5 V = log "0", 10 - 30 V = log "1"	0 - 5 V = log "0", 10 - 30 V = log "1"
AS-Interface	NO	optional
Operation	2 Key button	2 Key button
Visualisation	2 LEDs	2 LEDs
Protection class	IP65/67 according to EN 60529 (only if cables plugs and sockets have been connected properly and in compliance with the exhaust air concept in chapter "pneumatic connection of positioner")	
Conformity	subject to CE according EMV2004/108/EG	subject to CE according EMV2004/108/EG
Approval	CSA on request.	CSA on request.
Process controller	NO	Optional

¹ Pressure stated in bar: are access to atmosphere; the supply pressure has to be 0,5 - 1 bar above the minimum required pilot pressure for the valve actuator

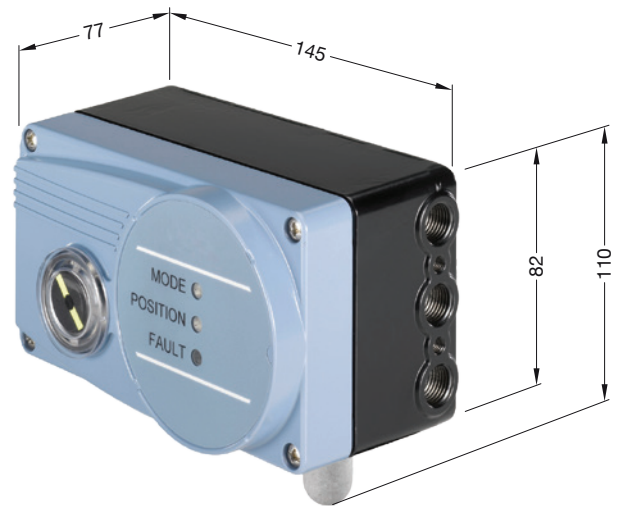
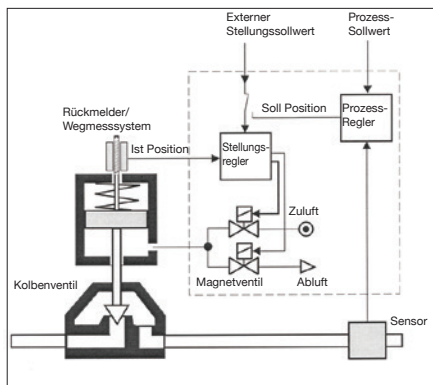
System Components and Process Automation

Electropneumatic Positioners

ECOSIDE 024.16.420 for process valves big stroke range and with remote control installation

Main Features

- Compact metal housing
- Contact- free continuous sensor measuring of the valve spindle position
- Simple start up using tune function
- Pneumatic positioning for single and double-acting actuators
- High air capacity
- Standardized for assembly according IEC 534-6 / VDI VDE 3845
- Available as remote version with position sensor
- Close tight function
- ATEX-Version available



Type	024.16.420
Recommended for valve size	DN25 - 200
Body; Sealing	Aluminum plastic coated; EPDM
Ambient temperature	0 - 60°C
Control medium	Neutral gases, air according DIN ISO 8573-1
Pilot air ports	G 1/4
Supply pressure	1,4 - 7 bar ¹⁾
Air flow rate	Single and double-acting up to 150 NI/min (Q_{Nn} = 100 NI/min acc. Definition with decrease in pressure from 7 to 6 bar absolute)
Intrinsic air consumption	0 l/min
Power supply	24 V DC +/- 10%
Power consumption	< 3,5 W
Electrical connection	M12 (8 Pins)
Cable gland	2 x M20 x 1,5 (cable Ø 10 mm) on screw terminal
Remote version	1 x M12 x 1,5 (cable Ø3 to 6,5 mm)
Setting point; input resistance	5 to 20 mA / 180 Ohm (0 - 20 mA adjustable with configuration software)
Binary Input	0 - 5 V = log "0", 10 - 30 V = log "1"
Stroke range valve spindle	Min. 30° on the rotary shaft, depending on lever
Operation	2 Key button
Visualisation	2 LEDs
Protection class	IP65/67 acc. EN 60529
Type of ignition protection	II 3 G nA II B T4 II 3 D tD A22 T135°
Conformity	EMV2004/108/EG
Approval	CSA
Optional	Process controller Analogue feedback 4 - 20 mA AS-Interface

¹⁾ Pressure stated in bar: are access to atmosphere;
the supply pressure has to be 0,5 - 1 bar above the minimum required pilot pressure for the valve actuator

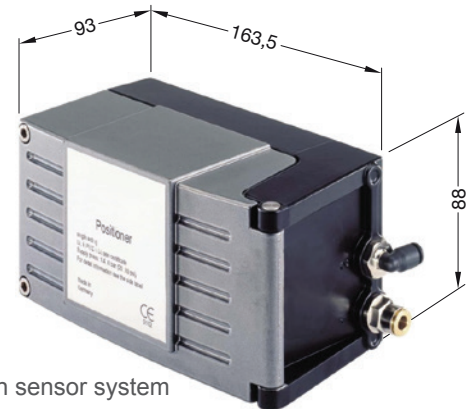
System Components and Process Automation

Electropneumatic Positioners

ECOSIDE 024.16.402 for process valves big stroke range and with remote control installation

Main Features

- Compact and robust metal housing
- Simple start up using tune function
- Pneumatic positioning for single and double-acting actuators
- High air capacity
- Close tight function
- ATEX approval II 2 (1) G Ex ia IIC T6 Gb



Assembly exclusively with position sensor system

Type	024.16.402
Body; Sealing	Aluminium, hard anodized and plastic coated
Ambient temperature	-25 ... +60 °C ¹⁾
Control medium	neutral gases, air according DIN ISO 8573-1
Pilot air ports	G 1/4
Supply pressure	1.4 - 6 bar ³⁾
Air flow rate	55 l/min at 1.4 bar ³⁾ 170 l/min at 6 bar ³⁾ for pressurizing and venting
Intrinsic air consumption	0 l/min
Power supply	via setpoint input 4-20mA
Burden voltage	< 12 VDC
Burden resistance	590 Ω at 20mA and 11.8 VDC
Electrical connection	2 x M20 x 1.5-bushing Clamping range 6 ... 12 mm Screw terminals for 0.14 ... 1.5 mm ²⁾
Remote version	available (only with the approved sensor)
Setting point; input resistance	4 ... 20 mA; 590 Ω
Binary Input	mechanical NC/ NO contact
Positioning range	Linear actuator: 3... 130 mm Part-turn actuator: 0... 120 °
Operation	3 operating keys
Visualisation	Plain-text display (internal)
Protection class	IP65 acc. to EN 60529
Type of ignition protection	II 2 (1) G Ex ia IIC T6 Gb acc. to EN 60079-0:2012 and EN 60079-11:2012
Conformity	EMC 2004/108/EC
Approvals	ATEX EEx ia II C T6
Certification	PTB 04 ATEX 2027 / IECEx PTB 04.0016
Optional	Analogue feedback 4 - 20 mA Process value input (4... 20mA) Use in the Ex area (Zone 1)
Assembly	Assembly set required

¹⁾ Up to +65 °C temperature class T4/T5 or without EEx i approval.

²⁾ May be adapted to actuator size with throttle screw.

³⁾ Pressure data in bar; overpressure to ambient.