

ACCESSORIES FOR PNEUMATIC ACTUATORS



Limit Switch Box



Positioner



Pneumatic accessories

MAIN FEATURES

- SAFI offers a wide range of accessories for its ¼ turn pneumatic actuators, including :
 - Limit Switch Boxes
 - Positioners
 - Filter Regulators
 - Solenoid Valves, Electro distributors
 - Silencers / Speed Regulators

Contact us, for any other requirement.

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ALUMINIUM OR STAINLESS STEEL LIMIT SWITCH BOX FOR 1/4 TURN PNEUMATIC ACTUATOR



MAIN FEATURES

- **“Quick Set” Cams**

The operating position of the switches can be easily changed by adjusting the high resolution spline cams manually and independently without the need for additional tools. The cams are spring backed and will not be affected by normal vibration.

- **Compact Design**

The BE45 is a very compact limit switch box, thereby allowing maintenance of a smaller valve envelope size.

- **Easy Wiring**

The BE45 is equipped as standard with two conduit entries M20x1.5 (1/2" NPT on request) and one terminal strip with 8 point, angled to allow for easy wiring.

- **High Visibility Indicator**

The BE45 comes standard with a high visibility beacon, offering a clear view of the current valve position.

- **Captive Cover bolts**

The switchbox also comes standard with stainless steel captive cover bolts.

- **Mounting Bracket**

NAMUR 80x30 H30 stainless steel bracket supplied as standard with stainless steel fastening hardware for ease in mounting the switch box onto the actuator. BE45 can be mounted on NAMUR H 20 actuators thru a techno polymer coupling.

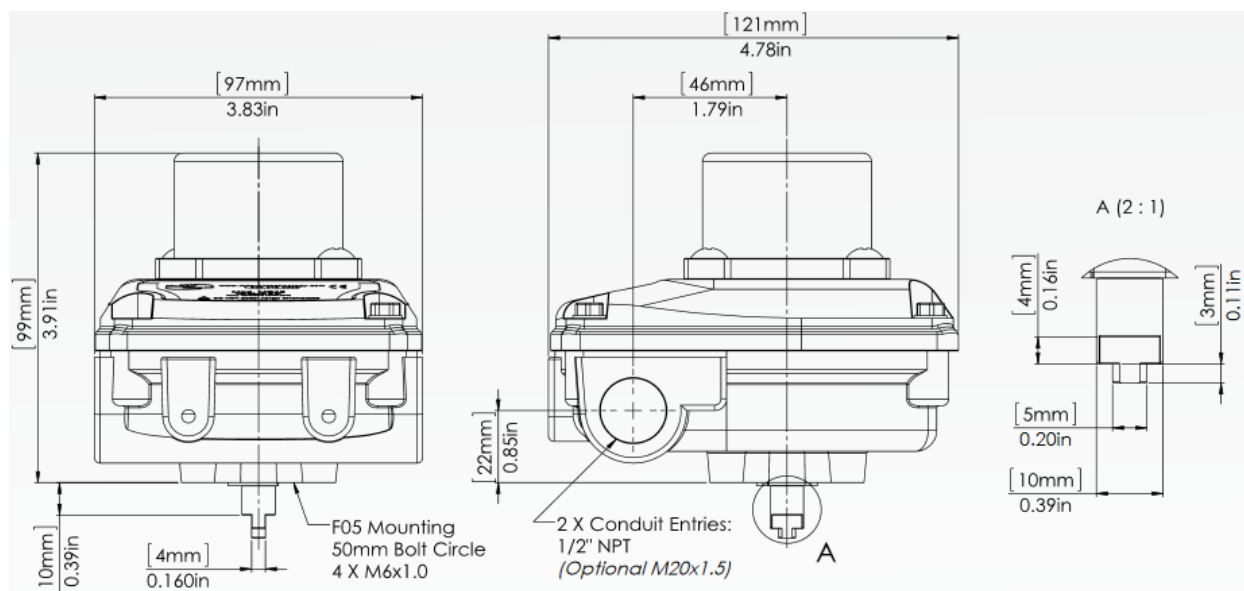
- **Enclosure protection IP67/NEMA4/4X**

- **Certifications & Test Protocols**

- CE
- ATEX II 3 D
- ATEX II 2 G D EEx ia IIC T6 (Gold-plated contacts or EExia rated switches only)
- SIL-2 Rating
- CSA C22.2 No 14-13
- ANSI/UL 508 (17th Ed)
- CSA C22.2 No 94.1-07 / ANSI/UL 50 (12th Ed)
- CSA C22.2 No 94.2-07 / ANSI/UL 50E



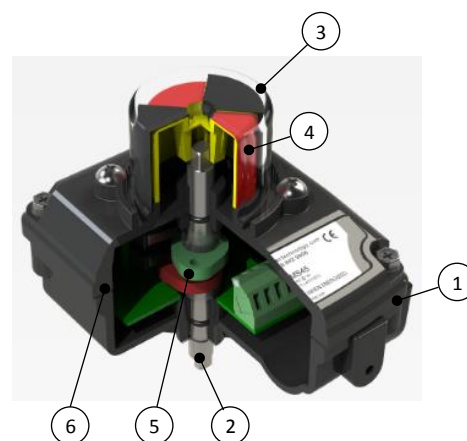
DIMENSIONS



PARTS LIST

N°	Description	Material
1	Housing	Aluminium + Epoxy*
2	Shaft	SS 304*
3	Indicator Protection	Polycarbonate
4	Indicator (OPEN/CLOSED)	ABS
5	Cams	ABS
6	O-Ring	NBR
7	Bracket	SS 304*

* Stainless Steel 316 in the SS Version



PRODUCT CODE

PRODUCT CODE	TYPE	DESCRIPTION
2007-73Z0	BE45-220M03	2 mechanical contacts SPDT 3A@250 V AC - 4A @ 30 V DC
2007-74CB	BS45-220MB3	2 inductive contacts 10-36 VDC NO PNP IFM mod IS5001 (3 cables)
2007-74DD	BS45-220MD3	2 inductive contacts 5-36 VDC IFM mod IS5026 (2 fils)
2007-74EF	BS45-220MF3	2 inductive contacts P&F EExia mod NJ2-V3-N ATEX II 2 G D

ALUMINIUM OR STAINLESS STEEL LIMIT SWITCH BOX (IP67) EXPLOSION PROOF EEXD IIC T6 FOR ¼ TURN PNEUMATIC ACTUATOR



MAIN FEATURES

- **Explosion Proof**

Limit Switch Boxes series "48" are Explosion proof approved, ATEX II 2 G Ex d IIC T6 Gb & II 2D Ex t IIIC T* °C Db, the highest level of safety, making this series the perfect choice for installations in hazardous environments, even with Hydrogen and Acetylene. The series is also weather proof IP67

- **"Quick Set" Cams**

The operating position of the switches can be easily changed by adjusting the high resolution spline cams manually and independently without the need for additional tools. The cams are spring backed and will not be affected by normal vibration.

- **Easy Wiring**

The series « 48 » is equipped as standard with two conduit entries M20x1.5 (1/2" NPT on request) and one terminal strip with 10 point, angled to allow for easy wiring.

- **High Visibility Indicator**

The series « 48 » comes standard with a high visibility beacon, offering a clear view of the current position of the valve.

- **Captive Cover bolts**

The switchbox also comes standard with stainless steel captive cover bolts.

- **Mounting Bracket**

NAMUR 80x30 H30 stainless steel bracket supplied as standard with stainless steel fastening hardware for ease in mounting the switchbox onto the actuator, Available on request a universal stainless steel bracket suitable for NAMUR 80x30 H20 and 80x130 H50.

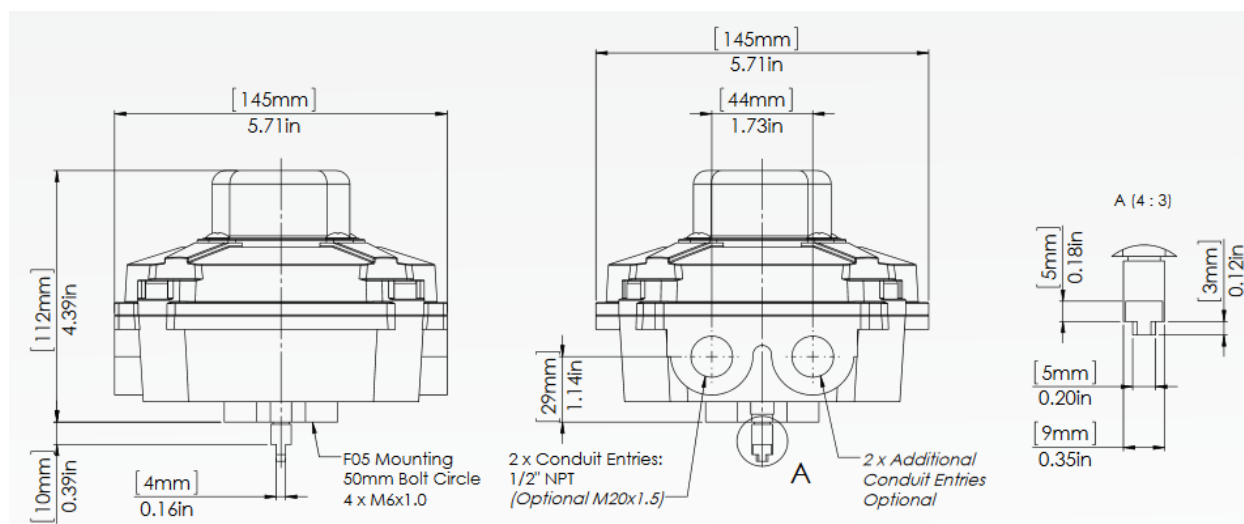
- **Enclosure Protection IP67/NEMA4/4X**

- **Certifications & Test Protocols**

- | | |
|---|--|
| <ul style="list-style-type: none"> - CE - ATEX II 3 D - ATEX II 2 G Ex d IIC T6 Gb - ATEX II 2 D Ex t IIIC T* - SIL-2 Rating - Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F and G; Class III; Temp Code T4A - Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III; Temperature Code T4A - Ex d IIB T5 Gb; Ex tb IIIC T108°C Db - Ex nA IIC T5 Gc; Ex tb IIIC T108°C Db | <ul style="list-style-type: none"> - Class I Zone 1, AExd IIB T5 Gb; - Class II, Zone 21 AEx tb IIIC T108°C Db - Class I, Zone 2 AEx nA IIC T5Gc; - Class II, Zone 21, AEx tb IIIC T108°C DbSIL-2 Rating - CSA C22.2 No 14-13 - ANSI/UL 508 (17th Ed) - CSA C22.2 No 94.1-07 / ANSI/UL 50 (12th Ed) - CSA C22.2 No 94.2-07 / ANSI/UL 50E |
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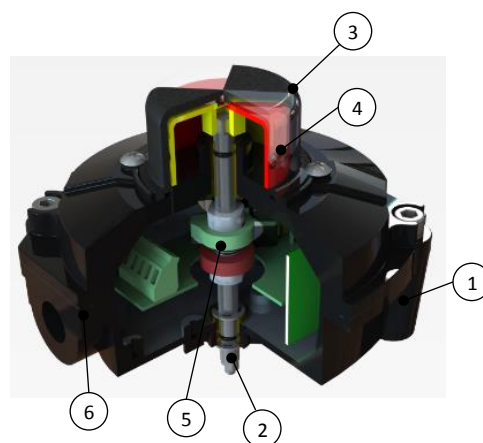
DIMENSIONS



PARTS LIST

N°	Description	Material
1	Housing	Aluminium + Epoxy*
2	Shaft	SS 304*
3	Indicator Protection	Polycarbonate
4	Indicator (OPEN/CLOSED)	ABS
5	Cams	ABS
6	O-Ring	NBR
7	Bracket	SS 304*

* Stainless Steel 316 in the SS Version



PRODUCT CODE

PRODUCT CODE	TYPE	DESCRIPTION
2007-74W0	BE48-220M03	2 mechanical contacts SPDT 3A@250 VAC - 4A @ 30 VDC
2007-74MB	BS48-220MB3	2 inductive contacts 10-36 VDC NO PNP IFM mod IS5001 (3 cables)
2007-74RD	BS48-220MD3	2 inductive contacts 5-36 VDC IFM mod IS5026 (2 cables)
2007-76DF	BS48-220MF3	2 inductive contacts P&F EExia mod NJ2-V3-N ATEX II 2 G D

Other Limit Switch Boxes Available, Contact us.

4-20mA ELECTRO PNEUMATIC POSITIONER



MAIN FEATURES

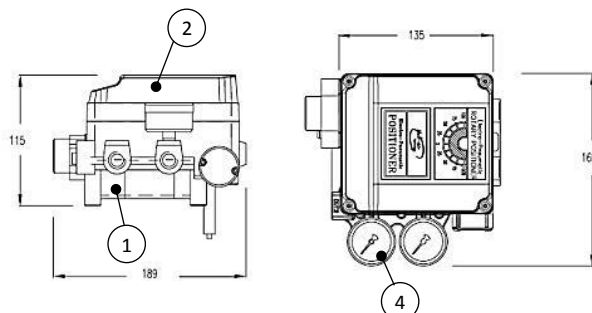
PEY Series Positioners are Double Acting & Spring Return units with 4-20mA input signal for proportional control of rotary actuators. The positioner operates on the force-balance principle by comparing standard signal transmitted from an electronic controller device and the angular rotation of the stem, and conveys a positioning amplified pressure to the valve actuator.

- Same unit for Double Acting and Failsafe Actuators.
- No resonance at 5-200 Hz
- Easy conversion DA/ FS
- Easy and precise calibration with SPAN and ZERO adjustments.
- Vibration resistance design

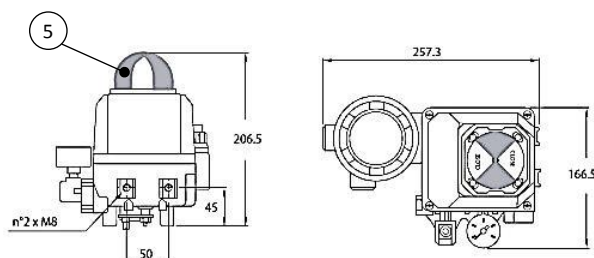
Assembly and Adjustment obligatory in factory. The installation of a pressure regulator filter is recommended.

DIMENSIONS

PEY01



PEY04



PARTS LIST

N°	Description	Material
1	Enclosure	Aluminium + Epoxy
2	Cover	Aluminium + Epoxy
3	Bracket	Steel + Epoxy
4	Gauges	Stainless Steel
5	Visual Indicator	Polycarbonate

PRODUCT CODE

PRODUCT CODE	TYPE	DESCRIPTION
2007-74Q	PEY01	Electro Pneumatic Positioner 4-20 mA
2007-74V	PEY04	Electro Pneumatic Positioner 4-20 mA with 2 mechanical contacts SPDT

Contact us, for other type of Positioners.

FILTER REGULATOR



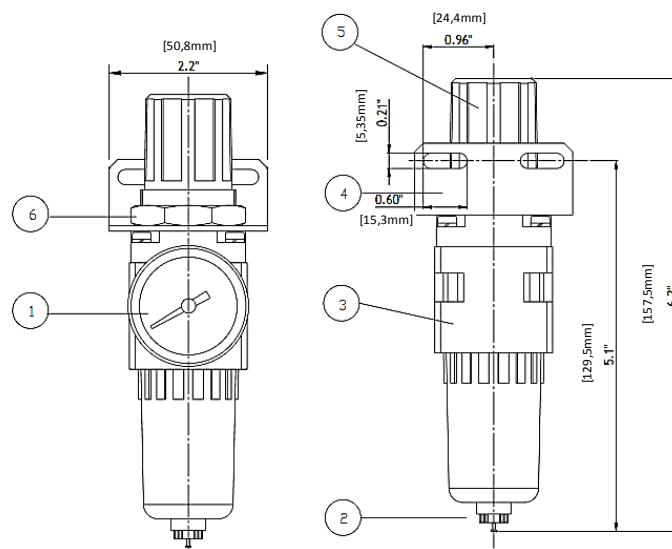
MAIN FEATURES

Diaphragm filter regulators are suitable for the air supply of valves, positioners, cylinders or any other pressure controlled air-consuming equipment.

- Maintains a constant output flow.
- Light and Compact.
- Bowl with drain valve (manual and/or semi-automatic)
- Filtration of 25 micron particulates as standard (5 micron on request)

Characteristics	
Media	Air
PMax Input (Bar)	15
Adjustable P Output (Bar)	0,5 - 8,5
Working Temperature °C	5 – 60°C
Connections	1/4" G
Gauge Thread Connection	1/8" G
Filtration Degree	25µm (5µm on request)
Flow Rate (L/min)	550
Bowl Material	Polycarbonate
Weight (Kg)	0,30
Drain Type	Manual

DIMENSIONS



PARTS LIST

N°	Description	Material
1	Pressure Gauge	Aluminium
2	Drain	Stainless Steel
3	Body	Aluminium
4	Bracket	Steel
5	Adjusting Knob	Polymer
6	Nut	Polymer

PRODUCT CODE

PRODUCT CODE	TYPE	DESCRIPTION
2007-58X	FRL1G14	Filtre regulator 1/4" in polycarbonate

Contact us, for other type of Filter Regulators.

SOLENOID VALVE 3/2 NC IN BRASS WITH COIL AND CONNECTOR



MAIN FEATURES

The 3-way controlled by Normally Closed G 1/8 Solenoid Valves are used in a wide variety of applications with or without pressure differential. Ideally suited for air, liquids and gases, these valves are mainly available with brass or stainless steel body associated to a large range of sealing materials offering vast chemical compatibilities.

Orifice Sizes: Up to 2,5mm

Flow Factor (KV): Up to 0,21 m³/h

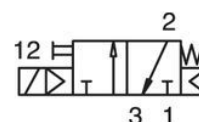
Operating Pressure Differential (MOPD): Up to 150 bar

Media: Air, gas, water and light oil.

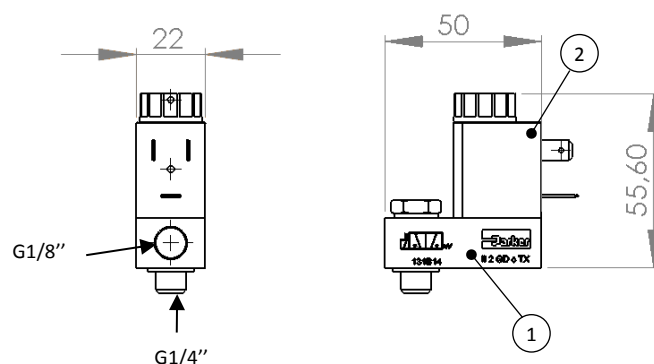
Max Media Temperature: 140°C

Electrical: from 2 Watts up to 14 Watts

Function	
Valve Type	Normally Closed
Port Size	1/8 inch
Voltage	24VDC, 48VDC, 24VAC, 48VAC, 115VAC, 230VAC
Body Material	Anodized Aluminium
Seal Material	NBR
Orifice 1 Size (mm)	1.2
Flow Factor 1 (l/min)	0.8
Power (Watts)	3
Coil Type	Coil for DIN plug connection, double frequency, 22mm
Maximum Pressure Differential (bar)	6
Number of Ports	3
Actuation	Direct Operated
Media	Fluids Oil
Port Type	BSP
Orifice 2 Size (mm)	1.5
Minimum Fluid Temperature (°C)	-10
Maximum Fluid Temperature(°C)	50
Coil Protection Mode	IP65



DIMENSIONS



PARTS LIST

N°	Description	Material
1	Solenoid Valve	Anodized Aluminium
2	Coil + Connector	-

PRODUCT CODE

PRODUCT CODE	TYPE	DESCRIPTION
2007-53AB	131B04-496131C2	With Coil 24VDC
2007-53AC	131B04-496131P0	With Coil 24VAC
2007-53AD	131B04-496131S4	With Coil 48VAC
2007-53AE	131B04-496131P2	With Coil
2007-53AF	131B04-496131P9	With Coil 230VAC
2007-53AG	131B04-496131C4	With Coil 48VDC

Contact us, for other type of Solenoid Valves.

ELECTRO DISTRIBUTOR 3/2 NC – 5/2 NAMUR WITH COIL AND CONNECTOR



MAIN FEATURES

The 5-Way Spring Return G1/4 Solenoid Valves are used in a wide variety of applications with or without pressures differential. Ideally suited for air, liquids and gases, these valves are mainly available with brass or stainless steel body associated to a large range of sealing materials offering vast mechanical compatibilities.

Orifice Sizes: Up to 14mm

Flow Factor (KV): Up to 1, 2 m³/h

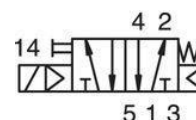
Operating Pressure Differential (MOPD): Up to 40 bar

Media: Air, gas, water and light oil.

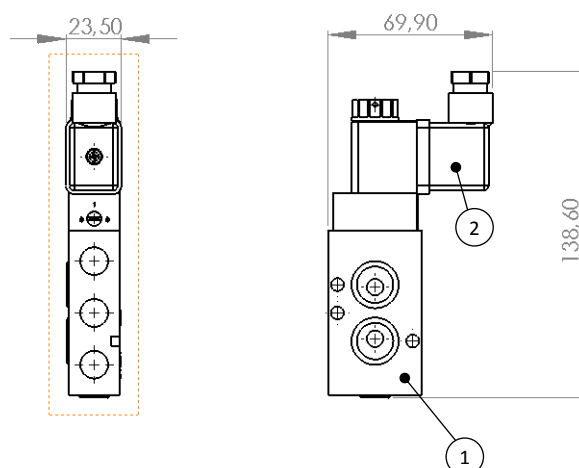
Max Media Temperature: 50°C

Electrical: from 0, 3 Watts up to 12 Watts

Function	
Valve Type	5-Way
Function	Spring Return
Port Size	1/4 inch
Voltage	24VDC, 48VDC, 24VAC, 48VAC, 115VAC, 230VAC
Body Material	Anodized Aluminium
Seal Material	NBR
Orifice 1 Size (mm)	7
Flow Factor 1 (l/min)	18,8
Power (Watts)	3
Coil Type	Coil for DIN plug connection, double frequency, 22 mm
Maximum Pressure Differential (bar)	10
Minimum Pressure Differential (bar)	2,5
Number of Ports	5
Actuation	Pilot Operated
Media	Fluids Air
Port Type	NAMUR
Coil Protection Mode	IP65



DIMENSIONS



PARTS LIST

N°	Description	Material
1	Solenoid Valve	Anodized Aluminium
2	Coil + Connector	-

PRODUCT CODE

PRODUCT CODE	TYPE	DESCRIPTION
2007-53XB	341N05-496131C2	With Coil 24VDC
2007-53XC	341N05-496131P0	With Coil 24VAC
2007-53XD	341N05-496131S4	With Coil 48VAC
2007-53XE	341N05-496131P2	With Coil 115VAC
2007-53XF	341N05-496131P9	With Coil 230VAC
2007-53XG	341N05-496131C4	With Coil 48VDC

Contact us, for other type of Solenoid Valves.

SILENCER/ SPEED REGULATOR



Silencer



Limitor

PRODUCT CODE

Silencer

PRODUCT CODE	TYPE	DESCRIPTION
2007-58S	MV110014	1/4" brass silenceur for electrodistributor
2007-58R	MV110018	1/8" brass silenceur for electrodistributor

Speed Regulator

PRODUCT CODE	TYPE	DESCRIPTION
2007-53U	MV11VE0014	1/4" brass silenceur + speed regulator for electrodistributor
2007-58W	MV11VE0018	1/8" brass silenceur + speed regulator for electrodistributor

Contact us, for other type of Silencers and Speed Regulators.