ACCESSORIES

for pneumatic actuator

- Solenoid valve monostable SV61
- Solenoid valve bistable SV62
- Limit switch box with free potential contact BE 41
- Proximity limit switch box





INSTRUCTIONS MANUAL



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ACCESSORIES

for pneumatic actuator

08-04-2014 913 N

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Precautions

Fitting, connections, initial start-up and maintenance operations must be done by trained technicians. All European and local rules for pneumatic devices and systems must be respected.

Solenoid valves SV61 and SV62

Application 1.

Command the air distribution useful for move the valve under the pneumatic actuator.

The solenoid valves are delivery with:

- Adhesive label "3/2"
- Solenoid valve 5/2
- Small bag: 2 washers, 2 small screws
- 2x screws
- 3/2 plate
- 4x O ring

2. Pneumatic actuator connection

2.1. Caution

The solenoid valves can be used on all types of pneumatic actuators, rotary or linear with a NAMUR connection.

Be careful to feed the solenoid valve with the correct electric voltage.

Check that the actuator, single or double acting, need the 3/2 plate.

Feed in compressed air by the hole 1.

2.2. Assembly (According to Fig. A)

For the single acting actuator:

- Put the 3/2 plate between actuator and solenoid valve
- Stick the adhesive label on the pneumatic diagram on solenoid valve
- Screw the solenoid valve and the plate on the actuator
- Feed the solenoid valve with the voltage wrote on his housing

For the double acting actuator:

- Screw the solenoid valve on the actuator
- Feed the solenoid valve with the voltage wrote on his housing



3. **Technical features**

Monostable (SV61 type): 3/2 or 5/2 ways Bistable (SV62 type): 3/2 or 5/2 ways Voltage: 24 V AC/DC

220 V AC Power: 3 W / 4,5 VA Electric connection: DIN 1/2" Protection: IP 65

Pneumatic connection: 1/4" G

Max use frequency: 600 per minute

Duty rate: 100% 10.5 Kv:

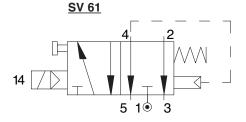
Air pressure: 2 bar min / 8 bar max

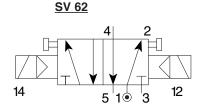
> (According to characteristics of the pneumatic actuated ball valve)

-20°C...+70°C Weight: 0.360 kg (SV61) 0.450 kg (SV62)

NAMUR VDI/VDE 3845 and ISO 5211 Agreements:

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MESURES

3.1. Manual Override of the solenoid valve

EV61...



First position:

Push turn the knob to move manually the solenoid valve.



Second position:

Move the knob in this position to use electrically the solenoid valve.

EV62...



First position:

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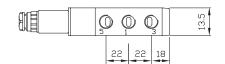
Push turn the knob to move manually the solenoid valve.

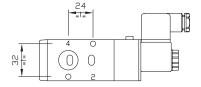


Second position:

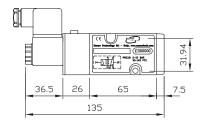
Move the knob in this position to use electrically the solenoid valve.

4. Dimensions SV61



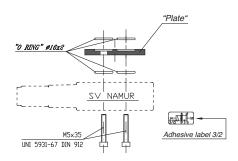




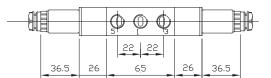


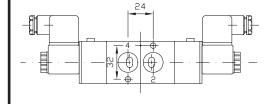


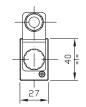
Standard Kit

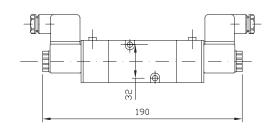


5. Dimensions SV62











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Limit switch box BE41

Application: This limit switch box with two free potential contacts are use to know the extreme positions of the valves.

3. Pneumatic actuator connection

3.1. Caution

- Before removing the cover and proceeding with any operations, it is essential that the limit switch box is not energized.
- The conduit caps supplied with the limit switch box are for transit purpose only and do not guarantee the IP65 protection. Therefore, it's necessary to replace them with connectors suitable for the required protection rating.

3.2.. Connection on the actuator

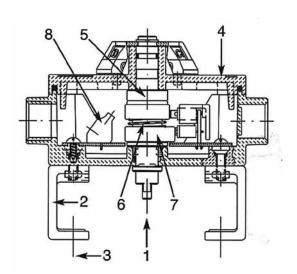
- a) Align the shaft (réf.1) to the actuator pinion and engage with it.
- b) Using the provided screws (réf.3) and washers, tighten the brackets (réf.2) to the actuator.

4. Switches setup

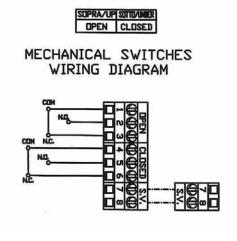
- a) Remove the four screws and remove the cover 4.
- **b)** Turn the actuator until to the open position..
- c) Push the upper cam down 5, cam open, turn until the switch is activated and then release; the spring between the 2 cams 6 will ensure the cam re-engagement onto the shaft. (Note: on the shaft there is a spline and each line adjust 2°).
- d) Turn the actuator until the closed position.
- e) Pull the lower cam up (7), cam closed, turn until the switch is activated and then release; the spring between the 2 cams 6 will ensure the cam re-engagement onto the shaft..
- f) Reassemble the cover (4) and tighten the screws.

5. Electrical connection

- a) Remove the cover 4.
- b) Remove the protection cap(s) and substitute it them with the plug(s) that ensures the desired protection, inserting a wrench onto the flats of each conduit and then tighten. Be careful that the thread of the connector does not protrude inside the box.



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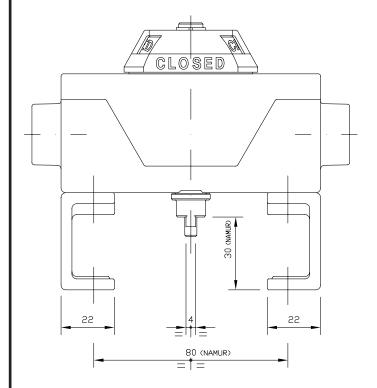


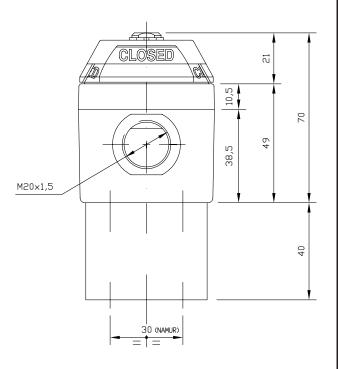
6. Technical features (BE41)

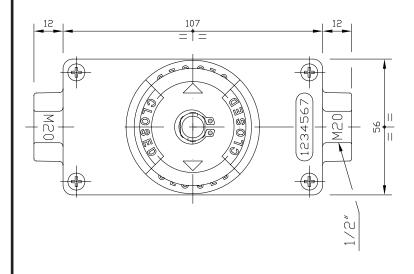
Electric connexion: DIN 1/2" Protection: IP 65

Box: Technopolymer
Cams: Technopolymer
Microswitch: Polyamide
Position indicator: Technopolymer
Terminal strip: Polyamide
Seals: NBR (Nitrile)

Screw: Stainless steel (AISI 304)







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Proximity limit switch box

Application: In industrial condition the proximity switch are very useful.

Actually unlike the free potential contact the proximity limit switch are:

- · Contactless so they don't have mechanical wear
- High commutation frequency
- · Accuracy of commutation
- · Protection against the vibrations, dust and humidity

The 200mA curent can be use for open or close a electric relay.

CAUTION: This proximity limit switch box can't be use without a special axis.

7. Technical features

Electric connection: 3 wires cable, lenght 1 m

 $\begin{array}{lll} \text{Fonction:} & & \text{PNP} \\ \text{Voltage:} & & 10\text{-}30 \text{ V DC} \\ I_{\text{a}:} & & 200 \text{ mA} \end{array}$

8. Wiring

