



STRÁNSKÝ A PETRŽÍK

Distributor:

Stránský a Petržík, Pneumatické válce spol. s r.o.

544 72 Bílá Třemešná 388, Czech Republic

<http://www.stranskyapetrzik.cz>

TWO HAND SAFETY VALVE

ORDER CODE 2899 0029 9040 0004

(formerly 08.156.4)

OPERATING INSTRUCTION

This valve is used as central element of a two-hand safety system to pilot high-flow directional control valves connected to machines which have a high risk of injuries to the hands.

The machine operator must simultaneously operate, in a safe area, two three-way manual valves for correct operation. The safety valve will ignore a single depression of one of the manual valves. To repeat the cycle both pilot signals must be exhausted and the manual valves simultaneously actuated again.

VALVE INSTALLATION AND CONNECTION

- Connect a 3/2 NC valve to the Signal elaborator at the ports numbered with "1". The port numbers are marked on the bottom of the Signal elaborator near the corresponding threaded ports. With these 3/2 valves the operator gives to the Signal elaborator two simultaneous signals.
- Connect to the port numbered with "2" the high-flow device which should be operated by the two-hand safety system.
- A silencer or an exhaust collecting device can be connected to port "3".
- Mount the Signal elaborator using the two fixing holes. The air hoses must not be bent or constricted, and the normal air flow must not be obstructed.

VALVE OPERATION

- Respect the minimum operating pressure (3 bar). The Signal elaborator will not operate at lower pressures.
- Find, with reference to the graphic "reaction time related to pressure", printed on the back of this page, the Δt (delay between the two pilot signals) within which the Signal elaborator will operate. If the supply pressure increases the Δt decreases.
- Manually and simultaneously operate both 3/2 NC valves. The Signal elaborator receives both pilot signals and, if the delay Δt is respected, operates the high-flow device to which it is connected.

WARNING

- In case of anomalous operation please refer to the manufacturer. Do not try to repair the Signal elaborator by yourself. The label will break if the valve is disassembled. In case of broken label the guarantee immediately expires.
- The Signal elaborator does not allow to repeat the operation without exhausting both 3/2 NC valves connected to it. It is impossible to block one of them in the actuated position to operate only the other one. To repeat the operation, both pilot signals must be exhausted and the manual valves simultaneously actuated again.
- Fluids carrying particles of solvent or fluids not compatible with NBR are not allowed to operate with the Two-hand safety valve.

TECHNICAL DATA

Delay between two actuating signals: $\Delta t < 0.5$ s

Working pressure range: 3 bar ... 8 bar

Temperature range: -10°C ... +60°C

Maximum flow rate: 100 NI/min

Fluid: 50 μ filtered, lubricated or non lubricated air

Materials

Body: aluminium 11S

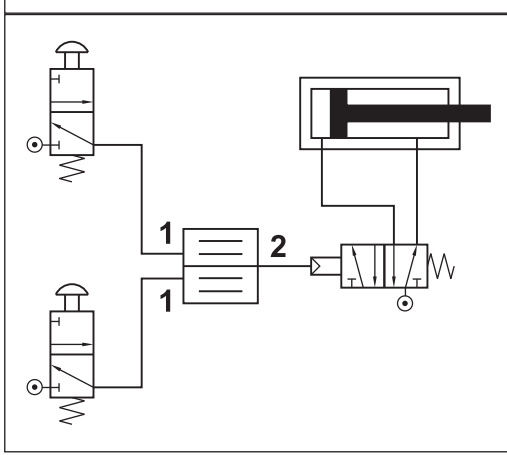
Springs: stainless steel

Seals: NBR

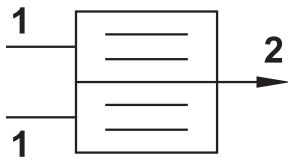
Internal parts: brass OT58



application sketch



logic symbol



CE APPROVAL DECLARATION

The manufacturer

AZ PNEUMATICA s.r.l.
Via Marco Biagi, 6
20020 MISINTO
ITALY

Tel. +39-0296691100
Fax +39-02966911240

<http://www.azpneumatica.com>
e-mail: azpneu@tin.it

declares, under his own responsibility, that the device SIGNAL ELABORATOR, code 08.156.4, complies to the Machinery Directives 2006/42/EC and to Norm UNI EN 574-1:2008 and EN 574:1996 + A1:2008 type 3AE. For this device we have got the CE-certification

nr. MAC 188 AT 434

on 30.12.2009 from ANCCP s.r.l., company entitled by the Italian Industry Ministry and the EEC with number 0302.

RISPOSTA TEMPO-PRESSIONE reaction time related to pressure

