Proportional Directly Operated SR1P2-A2 Pressure Relief Valve

3/4-16 UNF • pmax 350 bar (5076 PSI) • Qmax 1,5 L/min (0.396 GPM)


## Functional Description

The valve is designed for continuous regulation of pressure in the circuit. The valve consists of the seat (1), poppet (3), return spring (2), main spring (4), spring support ring (5) and control proportional solenoid (6).

In the basic position (with the coil deenergized) the port $P$ is fully open to port T. Proportional increase of DC current at solenoid (6) increase force to valve poppet (3) through preload spring (4).

This blocks flow in direction P - T until sufficient pressure is pre-sent to offset electrically induced solenoid force.

The minimum value of the cracking pressure can be adjusted using the screw (7), position of which is secured with the nut (8). The adjusting screw (7) can also be used as the emergency control. Screw (9)
is used to air bleed the solenoid control system. To ensure self-bleeding of the valve it is recommended to install it in a vertical position with the solenoid facing downwards. Bleeding process is necessary for the proper functioning of the valve.

The valve can be used alone or as a built-in, pilot operated pressure relief valve SR4P2-B2 (datasheet No. HC 5117), or as a control valve of a built-in indirectly controlled pilot operated pressure reducing valve SP4P2-B3 (datasheet No. HA 5123).

The valve body and the adjustment screw are zinc coated.



## Technical Data


$p=f(I), Q=0,2 L / I m i n(0.053 G P M)$


## Attention:

The proportional pressure relief valve is not mechanically protected and it does not perform the relief valve function.

| 3 | Pressure range 35 |
| :--- | :--- |
| 2 | Pressure range 21 |
| 1 | Pressure range 12 |

Current I [mA]

## Type of the Solenoid Coil

## Note:

Example of most frequent coil types.
For complete range valve coils with technical informatik about voltage, enclosure type, terminal box please afer to coil data sheet HA 8007.




| Spare Parts |  |  |  |
| :---: | :---: | :---: | :---: |
| Solenoid coil | Type of the coil |  |  |
|  | E2 | E4 | E13 |
| Nominal voltage coil | Ordering number |  |  |
| 12 V DC | 28145600 | 28145800 | 29867600 |
| 24 V DC | 27824300 | 27824400 | 29868600 |
| Seal kit | Dimensions, quantity |  | Ordering number |
|  | Dualseal - PU | O-ring |  |
|  | $10,3 \times 12,7 \times 3,1(1 \mathrm{pc})$ | 17,17 $\times 1,78$ (1pc) | 17014300 |

## Caution!

- The packing foil is recyclable.
- The technical information regarding the product presented in this catalogue is for descriptive purposes only. It should not be construed in any case as a guaranteed representation of the product properties in the sense of the law.

ARGO-HYTOS s.r.o. CZ-543 15 Vrchlabí
tel.: +420-499-403 111
e-mail: info.cz@argo-hytos.com
www.argo-hytos.com

