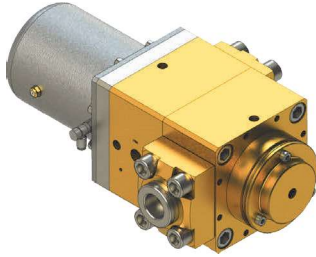


HPG 12 NC / NO

2/2 way valve (pneumatically operated)



- ♦ Medium : inert gases / rare gases / O₂ / CO₂ / air, other media on request
- ♦ Function NC (normally closed) or NO (normally open)
- ♦ This valve is pressure-balanced and suitable for high-pressure oxygen service
- ♦ Approval : CTE 600 bar test
- ♦ Connections for pressure indicator available

As market leader for high-pressure valves and systems for the gas filling industry we developed the new valve series HPG for 450 bar filling technology. These valves are designed for a service pressure of 600 bar. The valves type HPG 12 NC (normally closed) and HPG 12 NO (normally open) are 2/2 way valves, which are pneumatically operated. By the use of pilot media, the valves open and close against the spring load (depending on the type of valve).

Technical data

♦ Pressure range	PN 600
♦ Standard connections	SW 1/2"
♦ Nominal diameter	DN 12
♦ Actuation	3/2 way pilot valve
♦ Pilot pressure	7 bar
♦ Pilot connections	4 mm
♦ Media temperature	from - 20 °C bis + 65 °C
♦ Ambient temperature	from - 20 °C bis + 60 °C
♦ Leak rate	10 ⁻⁶ mbar l/s
♦ Actuation time / opening	Type NC 600 - 9000 ms (adjustable with nozzle) / type NO 2700 ms
♦ Actuation time / closing	Type NC 600 ms / type NO 400 - 4000 ms (adjustable with nozzle)
♦ Flow direction	A → B B → A
♦ Kv-value	4,5 m ³ /h 4,3 m ³ /h
♦ Weight	16,5 kg (including connection adapter)

Version April 2016

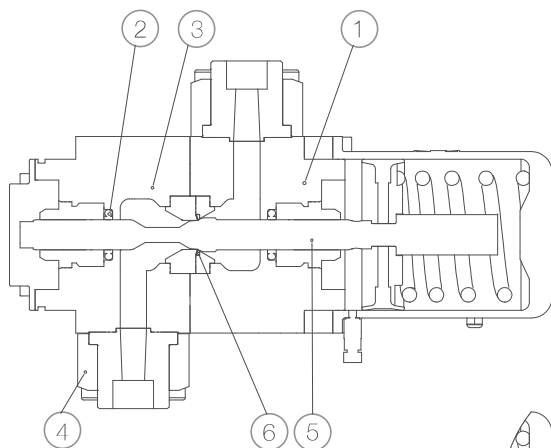
Function



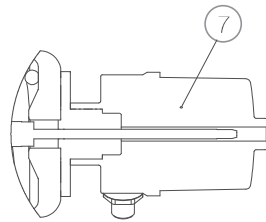
Options with this valve type

- ◆ Connections
 - Threaded female socket (stainless steel) : G 3/8
 - Weld-on end (stainless steel, Monel) : socket welding SW 1/2", 14mm
- ◆ Different types of limit switches available
- ◆ Assembly in compact manifolds (possibility to join up to 7 valves on 1 module)
- ◆ Sensor ports for pressure registration / measuring NPT 1/4
- ◆ Other options on request

Material specification



Position	Description	Material
1	Upper valve body	Brass
2	Spindle seal	Turcon®
3	Lower valve body	Brass
4	Connection piece	Monel, stainless steel
5	Valve spindle	Monel
6	Valve seat	Tecasint
7	Position feedback	PPS



Detailed illustration with stroke measuring system

Dimensions

Illustration NC

