

# SPRINGLOADED BACKPRESSURE REGULATOR BS(H)4

GASES • WATER • ACIDS • OIL



## MAIN FEATURES

- ss 316L
- diaphragm (0-28 bar) or piston sensing (0-360 bar)
- 9 set pressure ranges
- bubble tight shut-off
- choice of o-ring materials
- shell design according to EN 12516
- delivery according to PED

## CHARACTERISTICS

Max. pressure	: 70 bar, 400 bar
Set pressure range	: 0 – 360 bar
Seat diameter:	: 5 mm : range 80-360 bar : 10 mm: range 0-80 bar
Cv (Kv):	: 5 mm : 0.49 (0.42) : 10 mm: 1.95 (1.66)

### Materials:

- Body & Trim : ss 316L
- Spring housing : ss 316L
- Seat : pctfe, peek
- Seals, diaphragm : elastomer
- Connections : 1/2" bspp, npt  
flanges to DIN / ANSI B16.5

Gauge port	: 1/4" npt
Weight	: 3,5 kg (without flanges)
Temperature range	: -20°C to + 80 °C *

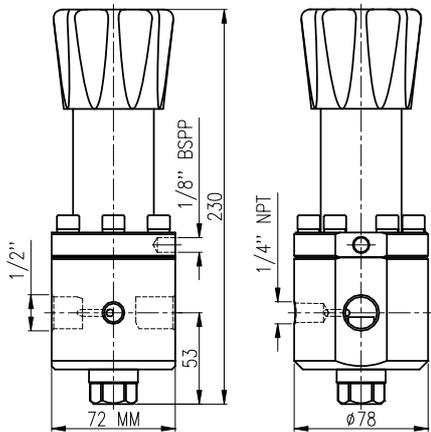
## CLEANING

This regulator is ultrasonically cleaned and degreased. Oxygen cleaning based on ASTM-G93 Level C / CGA 4.1 is optional.

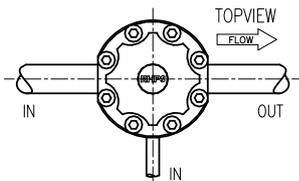
**Do not use teflon tape or anaerobic sealing compounds on the bspp threads.**

**This is not a safety valve!**

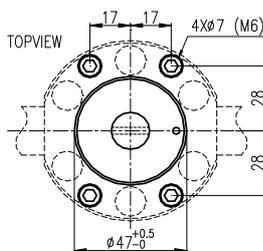
\* Actual range depends on choice of seat- and seal material.



## PORTING STYLE



## PANELMOUNTING



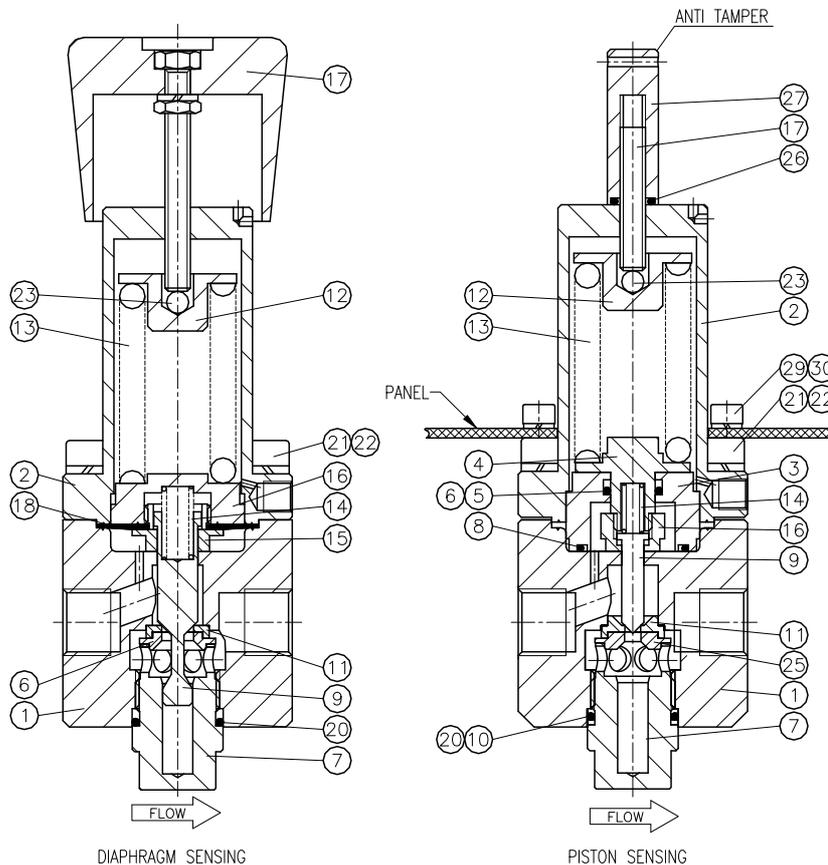
Swagelok regulators are not "Safety Accessories" as defined in the Pressure Equipment Directive 97/23/EC:



Do not use the regulator as a shut off device.

**RHPS Series**

**Swagelok**



**GAUGEPORT(S)**

standard:

options:



**GN2**  
(not in combination with flanges)



**GN1**



**GN5**  
(not in combination with flanges)

**ORDERING INFORMATION**

example: **BSHB4-02-5-NNK-A**

BSH	B4		- 02	- 5	- N	N	K	- A
series/inlet	connection	flange facing*	material	set pressure range	o-rings	diaphragm	seat	options
<b>BS</b> = 70 bar <b>BSH</b> = 400 bar	<b>B4</b> = 1/2" bspp <b>N4</b> = 1/2" npt  <b>ansi flanges</b> <b>FA4A</b> = 1/2" class 150 <b>FA4B</b> = 1/2" class 300 <b>FA4C</b> = 1/2" class 600 <b>FA4E</b> = 1/2" class 1500 <b>FA4F</b> = 1/2" class 2500  <b>din flanges</b> <b>FD4M</b> = DN15 PN16 <b>FD4N</b> = DN15 PN40 <b>FD4P</b> = DN15 PN64 <b>FD4R</b> = DN15 PN250 <b>FD4S</b> = DN15 PN400	(if flanges are ordered) 1 = raised face smooth 3 = RTJ	<b>02 = ss316L</b>	<b>RS:</b> <i>diaphragm sensing:</i> 1 = 0 - 3 bar 2 = 0 - 7 bar 3 = 0 - 14 bar 4 = 0 - 28 bar <i>piston sensing:</i> 5 = 0 - 40 bar  <b>RSH:</b> <i>diaphragm sensing:</i> 1 = 0 - 3 bar 2 = 0 - 7 bar 3 = 0 - 14 bar 4 = 0 - 28 bar <i>piston sensing:</i> <b>5 = 0 - 40 bar</b> 6 = 0 - 80 bar 7 = 0 - 150 bar 9 = 0 - 280 bar 11 = 0 - 360 bar	<b>N</b> = nitrile <b>E</b> = epdm <b>V</b> = viton	<b>N</b> = nitrile <b>E</b> = epdm <b>V</b> = viton  <i>Piston o-rings</i> <b>N</b> = nitrile <b>E</b> = epdm <b>V</b> = viton	<b>K</b> = pctfe <b>P</b> = peek	<b>A</b> = anti-tamper <b>G*</b> = gauge port  *see gauge port options

Red text identifies an example ordering number

**Safe Product Selection**

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

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