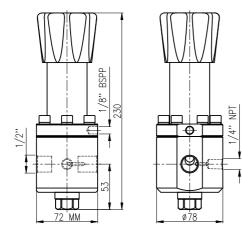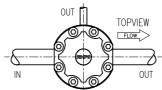# SPRINGLOADED PRESSURE REGULATOR RS(H)4
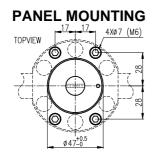
GASES • WATER • ACIDS • OILS

MAIN FEATURES

- **ss 316L**
- **balanced valve**
- **Cv 1.95**
- **leak-tight shut-off**
- **diaphragm or piston sensing**
- **choice of o-ring materials**
- **shell design according to EN 12516**
- **delivery according to PED**

PORTING STYLE

PANEL MOUNTING

CHARACTERISTICS

Inlet pressure	: 70 bar, 400 bar
Outlet ranges:	
• Diaphragm sensing	: 0 – 28 bar
• Piston sensing	: 0 – 400 bar
Seat diameter	: 10 mm
Cv (Kv)	: 1.95 (1.66)
Materials:	
• Body & Trim	: ss 316L
• Springhousing	: ss 316L
• Seat insert	: RS4: elastomer
	: RSH4: pctfe, peek
• Seals	: elastomer
Connections:	
• Line brass	: ½" bspp
• Line ss316L	: ½" bspp, npt flanges to DIN /ANSI B16.5
• Gaugeport	: ¼" 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.

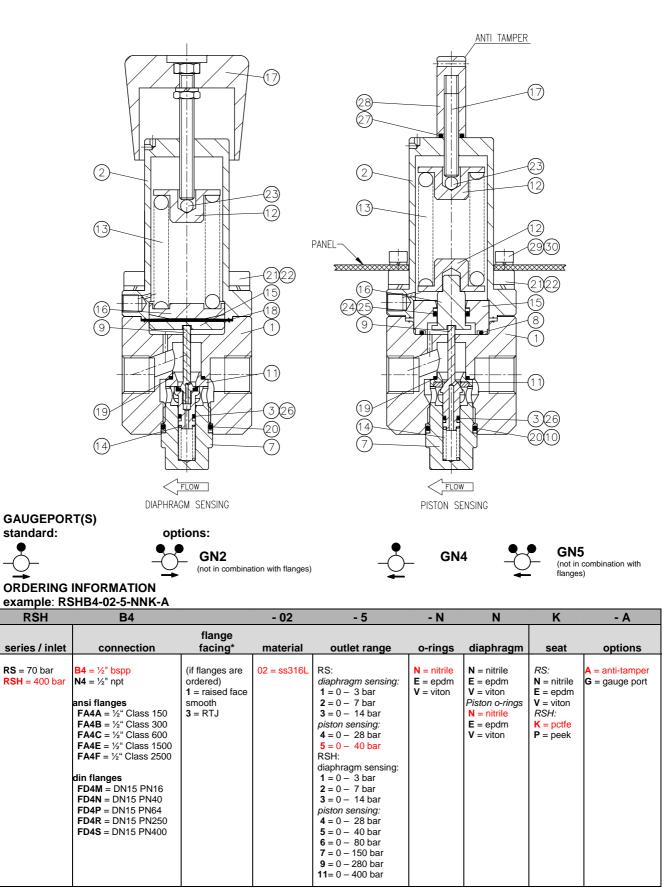∗ Actual range depends on choice of seat- and seal material.

⚠ **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

ANTI TAMPER

DIAPHRAGM SENSING

PISTON SENSING

PANEL

FLOW

FLOW

GAUGEPORT(S)

standard:

options:

GN2
(not in combination with flanges)

GN4

GN5
(not in combination with flanges)

ORDERING INFORMATION
example: RSHB4-02-5-NNK-A

RSH	B4		- 02	- 5	- N	N	K	- A
series / inlet	connection	flange facing*	material	outlet range	o-rings	diaphragm	seat	options
RS = 70 bar **RSH** = 400 bar	**B4** = ½" bspp **N4** = ½" npt **ansi flanges** **FA4A** = ½" Class 150 **FA4B** = ½" Class 300 **FA4C** = ½" Class 600 **FA4E** = ½" Class 1500 **FA4F** = ½" Class 2500 **din flanges** **FD4M** = DN15 PN16 **FD4N** = DN15 PN40 **FD4P** = DN15 PN64 **FD4R** = DN15 PN250 **FD4S** = DN15 PN400	(if flanges are ordered) **1** = raised face smooth **3** = RTJ	**02** = ss316L	RS: *diaphragm sensing:* **1** = 0 – 3 bar **2** = 0 – 7 bar **3** = 0 – 14 bar *piston sensing:* **4** = 0 – 28 bar **5** = 0 – 40 bar RSH: diaphragm sensing: **1** = 0 – 3 bar **2** = 0 – 7 bar **3** = 0 – 14 bar *piston sensing:* **4** = 0 – 28 bar **5** = 0 – 40 bar **6** = 0 – 80 bar **7** = 0 – 150 bar **9** = 0 – 280 bar **11** = 0 – 400 bar	**N** = nitrile **E** = epdm **V** = viton	**N** = nitrile **E** = epdm **V** = viton *Piston o-rings* **N** = nitrile **E** = epdm **V** = viton	*RS:* **N** = nitrile **E** = epdm **V** = viton *RSH:* **K** = pctfe **P** = peek	**A** = anti-tamper **G** = gauge port

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.

RHPS Series

Swagelok®