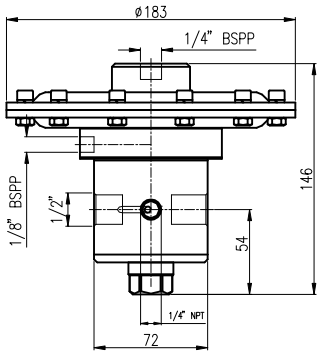
AIRLOADED RATIO PRESSURE REGULATOR

SELF VENTING • REMOTE CONTROL • HIGH PRESSURE

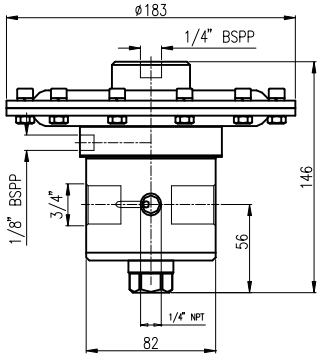
A ratio regulator is a dome loaded pressure regulator. The pilot pressure is usually a 0 - 6 bar signal. Whereas in a true dome loaded regulator the ratio between pilot (=dome) pressure and outlet pressure is 1:1, the ratio in this regulator can be almost anything.

MAIN FEATURES

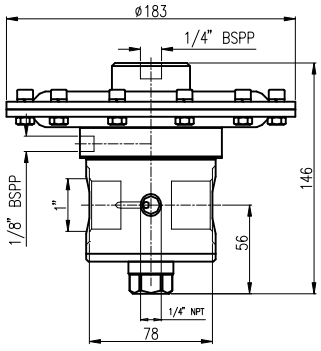
- **ss 316L**
- **balanced valve**
- **Cv 1.95**
- **diaphragm or piston sensing**
- **bubble tight shut-off**
- **self-venting**
- **shell design according to EN 12516**
- **delivery according to PED**



RA4



RA6



RA8

CHARACTERISTICS

Inlet pressure	: 400 bar
Outlet range	: 0 - 400 bar
Pilot pressure	: 0 - 10 bar
Ratios	: 15, 40, 70
Seat diameter	: 10 mm
Relief valve	: 4 mm
Cv (Kv)	: 1.95 (1.66)
Materials:	
• Body & Trim	: ss 316L
• Springhousing	: ss 316L
• Seat insert	: pctfe
• Seals & Diaphragm	: elastomer
Connections:	
• Line	: bspp, npt (RA8 only bspp) flanges to DIN / ANSI B16.5
• Dome	: ¼" bspp
• Vent	: ⅛" bspp
• Gauge port	: ¼" npt
Weight RA4 / RA6	: 5.7 kg / 6,2 kg (without flanges)
Temperature range	: −20 to +80°C *

PNEUMATIC ACTUATION

- By springloaded regulator or proportional regulator.

OPTIONS

- Larger sizes available on request with specific ratio's.

CLEANING

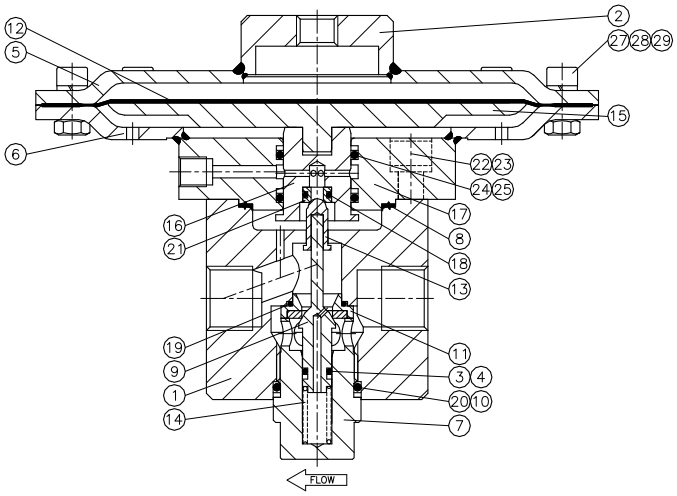
This regulator is ultrasonically cleaned and degreased. Oxygen cleaning based on ASTM-G93 Level C / CGA 4.1 is optional.

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.**



GAUGEPORT(S)

standard:

options:

GN2
(not in combination with flanges)

GN4

GN5
(not in combination with flanges)

ORDERING INFORMATION
example: RAB4-02-NNK-15

RA	B4	1	- 02	- N	N	K	- 15	
series / inlet	**connection**	**flange facing***	**material**	**o-rings**	**diaphragm**	**seat**	**ratio**	**options**
RA = 400 bar	**B4** = ½" bspp **B6** = 3/4" bspp **N4** = ½" npt **N6** = 3/4" npt **ansi flanges** **FA4A** = ½" class 150 **FA4B** = ½" class 300 **FA4C** = ½" class 600 **FA4E** = ½" class 1500 **FA4F** = ½" class 2500 **FA6A** = 3/4" class 150 **FA6B** = 3/4" class 300 **FA6C** = 3/4" class 600 **FA6E** = 3/4" class 1500 **FA6F** = 3/4" class 2500 **FA8A** = 1" class 150 **FA8B** = 1" class 300 **FA8C** = 1" class 600 **FA8E** = 1" class 1500 **FA8F** = 1" class 2500 **din flanges** **FD4M** = DN15 PN16 **FD4N** = DN15 PN40 **FD4P** = DN15 PN64 **FD4R** = DN15 PN250 **FD4S** = DN15 PN400 **FD6M** = DN20 PN16 **FD6N** = DN20 PN40 **FD6P** = DN20 PN64 **FD6R** = DN20 PN250 **FD6S** = DN20 PN400 **FD8M** = DN25 PN16 **FD8N** = DN25 PN40 **FD8P** = DN25 PN64 **FD8R** = DN25 PN250 **FD8S** = DN25 PN400	(if flanges are ordered) **1** = raised face smooth **3** = RTJ	**02** = ss316L	**N** = nitrile **E** = epdm **V** = viton	**N** = nitrile **E** = epdm **V** = viton	**K** = pctfe **P** = peek	**15** = 1:15 **40** = 1:40 **70** = 1:70	**G*** = gauge port *see guage 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.