SPRINGLOADED LOW PRESSURE REGULATOR LPRS SERIES

HIGH ACCURACY VERSION OF RS4, RS6 & RS8





Typical 2-stage reduction

PORTING STYLE



MAIN FEATURES

- ss 316L
- balanced valve
- Cv 1.95
- large diaphragm higher accuracy
- leak tight shut-off
- suction tube reduces droop
- ideal as second stage regulator
- elastomer seat insert
- choice of o-ring materials
- shell design according to EN 12516
- delivery according to PED

CHARACTERISTICS

Inlet pressure	: 16 bar		
Outlet range	: 0,1 – 3 bar (16 bar design)		
Seat diameter	: 10 mm		
Cv (Kv):	: 1.95 (1.66)		
Materials:			
 Body & Trim 	: ss 316L		
 Springhousing 	: ss 316L		
 Seat insert 	: elastomer		
 Seals & Diaphragm 	: elastomer		
Connections:			
• LPRS4	: ½" bspp, npt		
• LPRS6	: ¾" bspp, npt		
• LPRS8	: 1" bspp		
All models	: flanges to DIN / ANSI B16.5		
 Gauge port 	: ¼" npt		
Weight without flanges	: LPRS4 5 kg		
	: LPRS6/8 5,5 kg		
Weight with flanges	: LPRSF4 6,5 kg		
	: LPRSF6 7,8 kg		
	: LPRSF8 8,3 kg		
I emperature range	: −20 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 seatand 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.

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DIMENSIONS - 1/2" model- DN15



DIMENSIONS - 3/4" model - DN20



DIMENSIONS - 1" model- DN25



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FLOWTABLE 1/2" DN15, 3/4" DN20, 1" DN25 model

P1	P2	Spring range	Flow
(bar)	(bar)	(bar)	(Nm ³ /hr)
1	0.1	0.1 – 1	22
	0.3	0.1 – 1	30
3	0.1	0.1 - 1	22
	0.3	0.1 - 1	40
	0.8	0.1 - 1	60
	2.0	0.3 - 3	80 *
5	0.1	0.1 – 1	22
	0.3	0.1 – 1	40
	0.8	0.1 – 1	60
	2.0	0.3 – 3	130 *
10	0.1	0.1 - 1	X +
	0.3	0.1 - 1	40
	0.8	0.1 - 1	60
	2.0	0.3 - 3	130 *
16	0.1	0.1 - 1	X +
	0.3	0.1 - 1	40
	0.8	0.1 - 1	60
	2.0	0.3 - 3	130 *

+ inlet pressure too high. Do not exceed 6 bar.

Droop

Due to the working of the suction tube, LPRS shows little or no droop. Where flow is marked with * droop is some 15%.

Flow

Do not exceed the flows given in the table. If you do, P2 may rise above the original setting.

GAUGES

Due to the size of the diaphragm enclosure it is not possible to fit a gauge without an adaptor, unless a gauge with dial \emptyset 40 and centric back connection is used.

RHPS GAUGE ADAPTOR



Gauge casing Ø40 centric back-connection (G)



Gauge casing Ø63 or larger back-connection or bottom connection (GA)

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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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