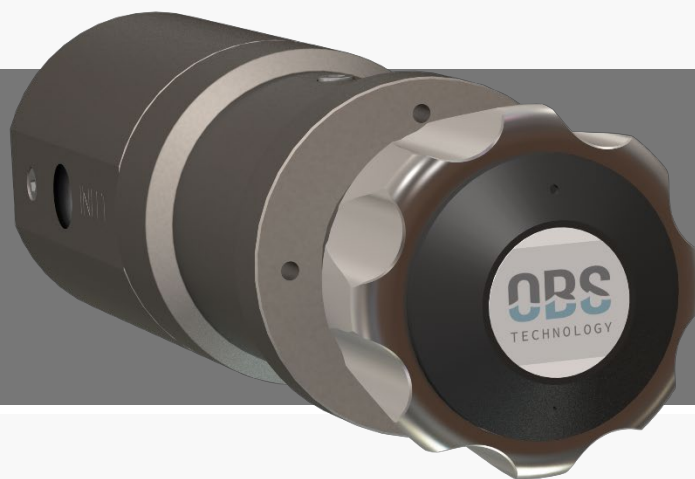


RPL-B17

Back Pressure Regulator



RPL-B17 is a high-performance spring type BP- regulator with a unique flexible volume to control an adjustable set pressure in the system upstream the regulator.

Features

- Patented, unique pressure sensing technology using a flexible volume
- Several pressure-ranges available
- Excellent repeatability of set pressure
- Manually operated or remotely controlled with electrical torque actuator, SXX-A01
- Low maintenance and life-cycle cost
- Zero pressure setup for safe drainage available
- ATEX certification II 2 G c IIC T6

Applications

- Pump discharge pressure control
- Precise opening and closing to control pressure set point

Product Option Codes

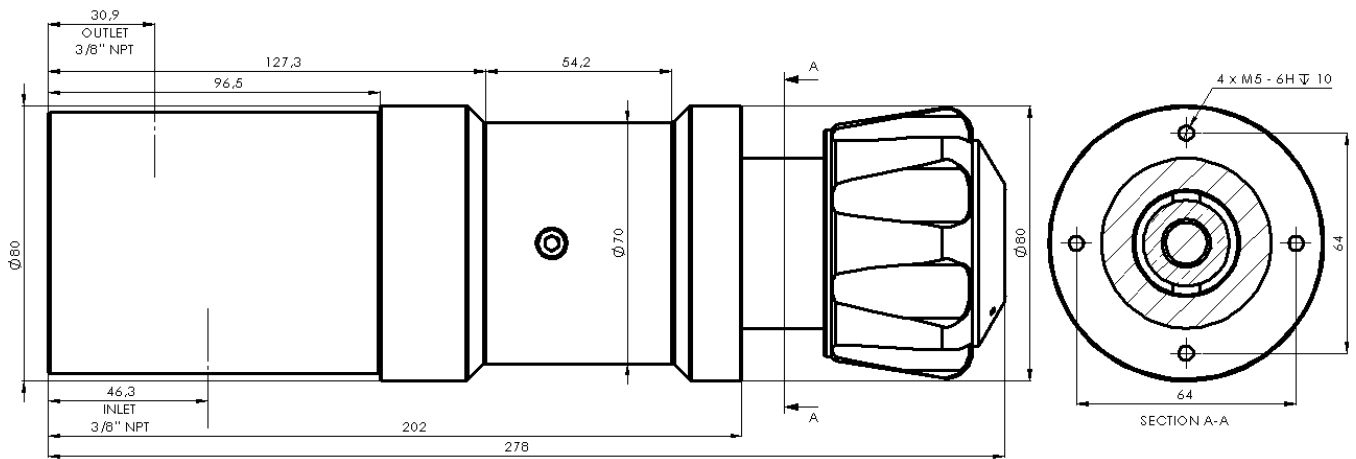
To ease customer specification, a valid code is for example: RPL-B17-M-D-K-P300-F200-F-N2

Product key for:	Operation	Material housing	Pressure rating housing	Max Set Pressure [bar]	Max Flow [l/h]	Gaskets	Connectors
RPL-B17-	M = Manual A = Actuator	D = Duplex T = Titan S = 316L	J = 345 bar K = 690 bar *	P20 P50 P80 P150 P300	F200 F800	N = NBR F = FKM/Viton®	N2 = 3/8 NPT S = others on request

*690 bar rating for duplex housing only. Design codes; EN 13448 and ASME VIII div 2.

Max flows are defined for pressure build-up through the entire flow range less than 10% of max set pressure.

GA drawing:

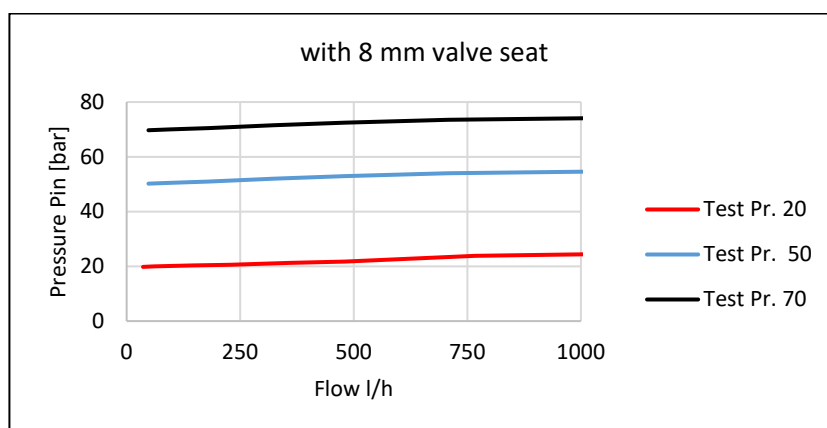
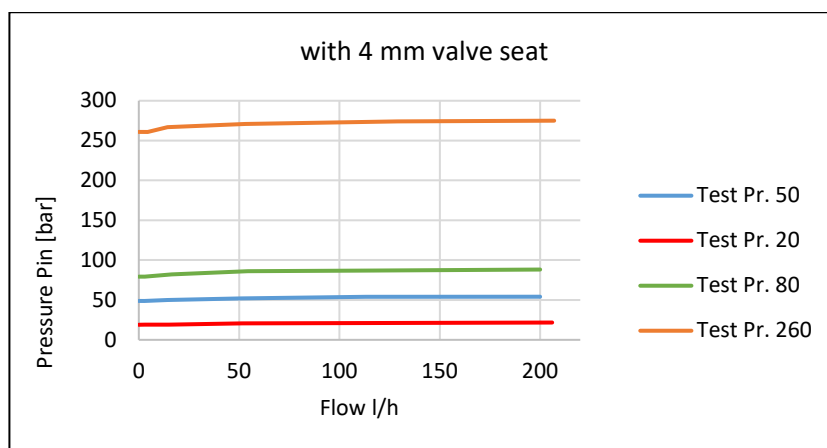


Weight, dry: 8,1 kg

Main Dimensions: L x D = 278 x $\varnothing 80$ mm Inlet & outlet ports: 3/8 NPT

Flow charts

Pressure variation within over defined flow ranges: $\varnothing 4$: 3-200 l/h and $\varnothing 8$: 10-800 l/h



Flow coefficients

K_v values [$m^3/h \cdot bar^{0.5}$] depends on valve opening for the selected springs and set pressure. For maximum flows, the K_v values are based on test results for the given set pressures. (Note; $C_v = 0,865 K_v$)

Valve seat diameter	20 bar	50 bar	80 bar	150 bar	260 bar	330 bar
4 mm at 200 l/h	$K_v = 0,049$	$K_v = 0,029$	$K_v = 0,023$	$K_v = 0,017$	$K_v = 0,013$	$K_v = 0,011$
8 mm at 800 l/h	$K_v \sim 0,4$ over intended range due to modified valve geometry/flow characteristic					