P289RC Exhaust Booster

The P289RC is designed as a high capacity exhaust booster and used in applications utilizing large pneumatic actuators and valve controls where a rapid response is required. Ideally suited in applications with surge valves or recycle valves on compressor stations where the operation is sped up to accommodate compressor surges and sudden pressure changes from the out devices.

The 1/4" spring case port is connected to the controlling instrument such as an I/P, Controller or Positioner, and the 1" supply/relief port is connected to the actuator. It is required for proper operation that a bypass valve connect the inlet and outlet of the P289RC wherever is convenient.

The greater the differential pressure develops across the bypass valve the further the exhaust booster opens. The factory set opening of the P289RC is approximately 1.5 PSIG and is not adjustable in the field. As the differential pressure decreases between the controlling instrument and the actuator, the booster exhaust valve closes.



	P289RC 1" & 3/4" x 1"			
Body, Bonnet	Aluminum			
Diaphragm	Nitrile or Fluoroelastomer			
Gaskets	Composite			
0-rings	Nitrile or Fluoroelastomer			
O-ring Piston and Spacer	Aluminum			
Stem	Aluminum			
Spring	Zinc-plated steel			
Diaphragm Piston	Zinc-plated steel			

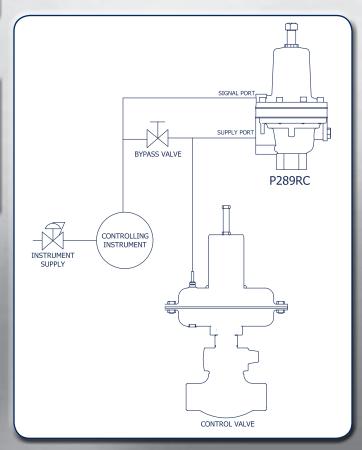
P289RC 1" Part Matrix

P289RC			000000	
	A	A	A	Body Size
	07			3/4" x 1" NPT
	08			1" NPT
	Diaphragm Material		Diaphragm Material	
		0		Nitrile
		1		Fluoroelastomer



Specifications

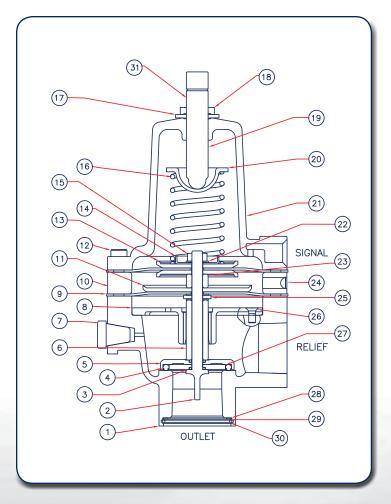
	P289RC 1" & 3/4" x 1"				
Port Size	1 NPT				
Maximum Relief Inlet Pressure	125 PSIG	8.6 BAR			
Temperature Range	-20–150 °F with Nitrile and Neoprene				
	0–300 °F with Fluoroelastomer				
Approximate Weight	3 lbs.	1.36 kg			
Exhaust Max Rate	C _v = 22	107,988 scfh			



belgas.net 253

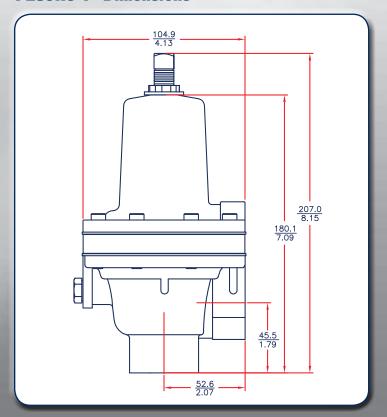
P289RC 1" Parts

Item	Description		Qty.	Part Number
4	D. I. Ali.	1" NPT	4	664-295-000
1 Body, Aluminum	3/4" x 1" NPT	1	664-386-000	
2	Stem, Aluminum			689-022-000
0	0 :	Nitrile	_	649-000-003
3	O-ring	Fluorocarbon	2	649-000-343
4	Ouina	Nitrile	1	649-293-000
4	O-ring	Fluorocarbon	' '	649-293-001
5	O-Ring Piston, Alumin	O-Ring Piston, Aluminum		
6	Spacer Tube, Stainle	ss Steel	2	654-194-000
7	Pipe Plug, Plated Steel			639-099-000
8	Stem Guide Assembl	У	1	814-019-000
9	Dianhraam	Nitrile	2	600-497-000
9	Diaphragm	Fluorocarbon		600-497-001
10	Spacer Ring, Aluminu	ım	1	654-195-000
11	Large Piston, Plated	1	637-306-000	
12	Machine Screw		7	648-466-010
13	Small Piston, Plated	2	637-319-000	
14	Lower Spring Retains	er, Zinc Plated Steel	1	643-191-000
15	Hex Nut, Plated Stee		1	634-162-000
16	Spring, Stainless Ste	el	1	655-790-000
17	Screw Seal, Nitrile	1	662-245-000	
18	Hex Nut, Plated Steel			634-154-000
19	Adjusting Screw, Plated Steel			648-585-000
20	Spring Guide, Plated Steel			626-079-000
21	Bonnet, Aluminum			604-237-000
22	Gasket, Composite			624-062-000
23	Spacer, Stainless Ste		1	654-196-000
24	Screen, Stainless Ste	eel	1	647-029-000
25	Washer, Steel			662-204-000
26	Machine Screw, Stainless Steel			648-488-000
27	O-Ring Spacer, Aluminum			654-177-000
28	Gasket, Neoprene			624-063-000
29	Screen, Stainless Steel			647-018-000
30	Retaining Ring, Plated Steel			664-051-000
31	Adjustment Scew			648-584-000



P289RC 1" Dimensions





254 belgas.net