

The BelGAS^{CP} P7200 series valve is a pneumatically operated open yoke control valve that is designed to control the flow of a variety of fluids at pressures up to 4000 PSIG. The control valve has a NACE compliant optional construction to withstand severely corrosive mediums associated with the oil and gas industry. A wide variety of trim size, material, and flow characteristics are available to handle different mediums and applications.

Applications

- Dumping liquids accumulated in production vessels
- Control pressure or flow of gas or liquid with the use of a pilot

Features

- **Open Yoke Design:** The open yoke allows for the position of the stem to be visible during use from any angle. An I/P or electro-pneumatic positioner can be mounted to the actuator.
- **Field Reversible Actuator:** The actuator is capable of withstanding up to 45 PSIG and can be switched between "Fail Close" and "Fail Open" with no additional parts. Range of springs to accommodate lower supply pressure.
- **Trim Variety:** Nominal (Linear), Quick Opening (On/Off), and Equal Percentage trim options are available for a range of applications. The trim is available in Steel, Hardened Stainless Steel, or Tungsten Carbide.
- **Sour Gas Service:** NACE MR0175 compliant materials are available to ensure functionality in sour gas applications.



Specifications

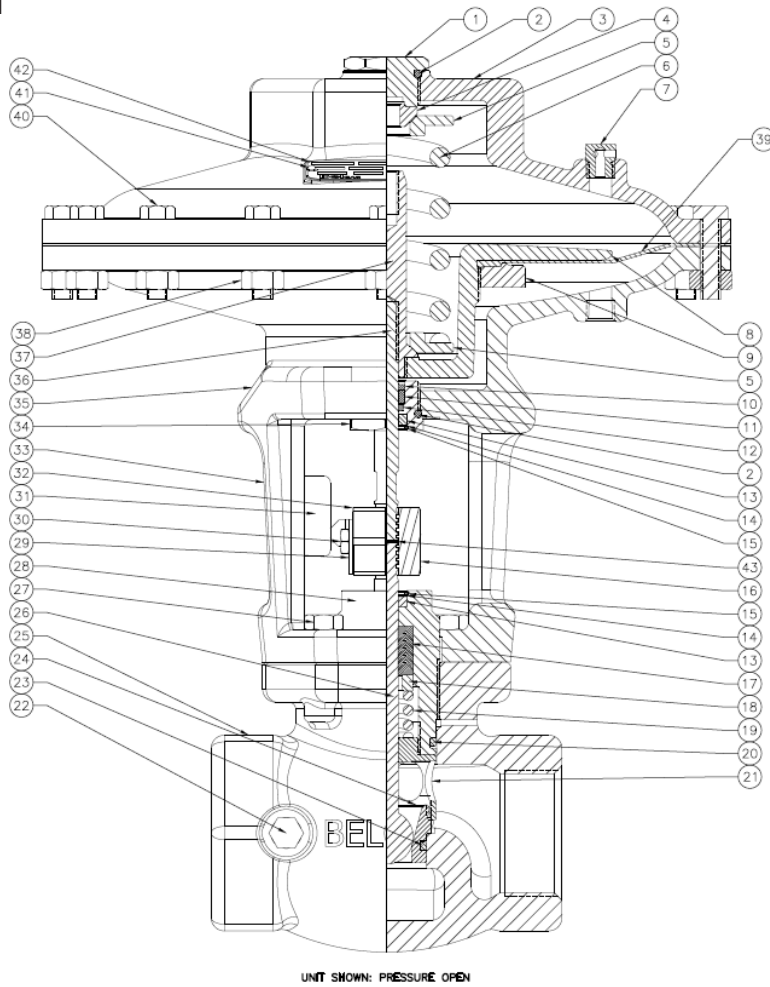
Body Pressure Rating	4000 PSI
Buna-N Elastomer Material Temperature Range	-40°F to 250°F (°C)
Fluorocarbon Elastomer Material Temperature Range	-15°F to 400°F (°C)
Shutoff Classification	ANSI Class IV
Actuator Air Pressure	45 PSIG Max

Materials of Construction

Component	Standard	NACE Compliant
Body	LCC Steel	LCC Steel
Actuator	ASTM A395	ASTM A395
Stuffing Box	ASTM A105	316 Stainless Steel
Stem	316 Stainless Steel	316 Stainless Steel
Cage	ASTM A108	316 Stainless Steel
Seat	ASTM A681	17-4PH Stainless Steel

^N-For the unit to be NACE compliant it must have the proper combinations of materials

Figure 1



P7200 Repair Kits

Elastomer Repair Kit

971-P72

5

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Type

5

Elastomer Repair Kit

1

P7200 1"

2

P7200 2"

0

Buna-N

2

Fluorocarbon

(1)-Used in Standard Elastomer Repair Kit

(2)-Used in Standard Trim Repair Kit

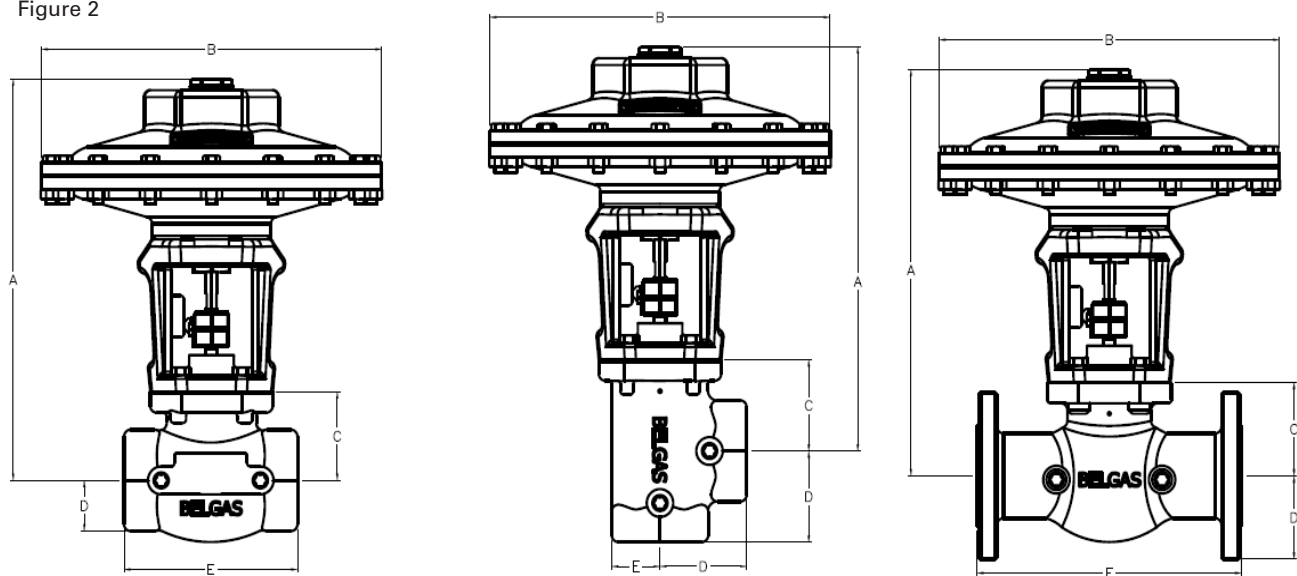
Item	Description	QTY	Part Number 1"	Part Number 2"
1	Upper Adjustment Screw	1	649-597-000	648-609-000
2	Adjustment Screw O-Ring ⁽¹⁾	2	649-000-197 649-000-342	649-309-009 649-384-002
3	Bonnet	1	604-566-000	604-568-000
4	Pivot	1	694-004-000	694-005-000
5	Spring Plate	2	638-107-000	638-118-000
6	Range Spring	1	655-803-000 655-804-000 655-805-000	655-812-000 655-813-000 655-814-000
7	Breather Plug	1	639-144-000	
8	Diaphragm Plate	1	638-106-000	638-117-000
9	Diaphragm Ring	1	634-229-000	634-235-000
10	Lower Adjustment Screw Insert ⁽¹⁾	1	665-228-000	665-231-000
11	Lower Adjustment Screw Bushing ⁽¹⁾	1	608-097-000	608-100-000
12	Lower Adjustment Screw O-Ring ⁽¹⁾	1	649-000-004 649-323-000	649-292-000 649-300-000
13	Felt Wiper ⁽¹⁾	2	662-252-000	662-256-000
14	Felt Wiper Washer ⁽¹⁾	2	662-251-000	662-251-001
15	Retaining Ring ⁽¹⁾	2	693-034-000	693-034-001
16	Stem Clamp Block	1	669-034-000	669-038-000
17	Packing ⁽¹⁾	1	824-004-000 824-004-001	824-005-000 824-225-001
18	Packing Washer	1	662-250-000	662-255-000
19	Stuffing Box Spring	1	655-801-000 655-802-000	655-810-000 655-811-000
20	Stuffing Box O-Ring ⁽¹⁾	1	649-309-013 010-380-008	649-309-005 649-384-003
21	Cage	1	704-022-000 704-022-001	704-023-000 704-023-001

Item	Description	QTY	Part Number 1"	Part Number 2"
22	High Pressure Plug	2	639-150-001	639-150-001
23	Seat O-Ring ^{(1) (2)}	1	649-000-016 010-380-000	649-327-000 649-328-000
24	Seat ⁽²⁾	1	See Repair Kits	See Repair Kits
25	Body	1	664-612-000 664-682-001 664-682-002 664-682-003 664-677-000	664-623-000 664-682-001 664-682-002 664-682-003 664-674-000
26	Plug Stem Assembly ⁽²⁾	1	See Repair Kits	See Repair Kits
27	Body Screws	4	648-463-012	648-467-016
28	Stuffing Box	1	639-156-000 639-156-001	639-168-000 639-168-001
29	Travel Indicator	1	711-002-000	711-004-000
30	Stem Clamp Screws	1	648-429-000	648-429-016
31	Travel Indicator Scale	1	711-003-000	711-005-000
32	Stem Clamp Block	1	669-033-000	669-037-000
33	Travel Indicator Screws	2	648-000-378	
34	Lower Adjustment Screw	1	648-596-000	648-608-000
35	Yoke	1	629-272-000	629-279-000
36	Upper Stem	1	689-030-000	689-036-000
37	Diaphragm Stem	1	689-031-000	689-037-000
38	Actuator Nuts	10/16	634-216-000 ⁽¹⁰⁾	634-216-000 ⁽¹⁶⁾
39	Diaphragm	1	618-121-000 618-121-001	618-138-000 618-138-001
40	Actuator Screws	10/16	634-216-000 ⁽¹⁰⁾	648-466-011 ⁽¹⁶⁾
41	Nameplate Drive Screw	2	648-573-000	
42	Nameplate	1	632-571-000	
43	Stem Clamp Block Spring Pin	1	635-098-000	

Trim Repair Kits & Dimensions

VALVE	FLOW CHARACTERISTIC	MATERIAL	INNER VALVE SIZE								
			1/8"	1/4"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"
1"	Equal Percentage	17-4PH	971P72012	971P72013			971P72014				
		Tool Steel	971P72015	971P72016			971P72017				
	Linear	17-4PH		971P72000	971P72001		971P72002				
		Tool Steel		971P72003	971P72004		971P72005				
	Quick Opening	Carbide		971P72006	971P72007		971P72008				
2"	Equal Percentage	17-4PH		971P72018		971P72020		971P72022		971P72024	
		Tool Steel		971P72019		971P72021		971P72023		971P72025	
	Linear	17-4PH		971P72030	971P72031		971P72032		971P72033		971P72028
		Tool Steel		971P72034	971P72035		971P72036		971P72040		971P72029
	Quick Opening	Carbide		971P72037	971P72026		971P72027		971P72038		971P72039

Figure 2



	1" GLOBE	1" ANGLE	2" GLOBE	2" ANGLE	2" 150#RF	2" 300#RF	2" 600#RF
A	10.386	10.325	14.468	14.561	14.645	14.645	14.645
B	9.000	9.000	12.875	12.875	12.875	12.875	12.875
C	2.000	1.938	3.188	3.281	3.365	3.365	3.365
D	1.219	2.031	1.825	3.281	3.000	3.250	3.250
E	4.500	2.031	6.563	3.281	10.000	10.500	11.250

Contact your BelGASCP representative or go to www.BelGASCP.com to learn more about our products.



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