

The BelGAS^{CP} P5300/P5301 is a Back Pressure Regulator with an integrally mounted pilot. Except where liquid or very low gas pressure is involved, upstream gas is used to operate this unit.

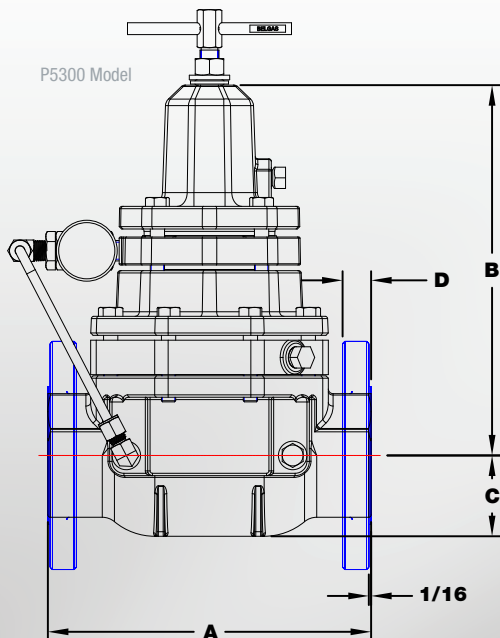
Applications

- Separators
- Heater Treaters
- Compressor Stations
- Gas Gathering Systems

Standard Design Features

- 2" & 3" FNPT or Class 150 RF, available
- Reduced & Full Port, available
- Class VI Bubble Tight Shut-off
- Design Pressure 300 PSIG
- Temperature Range -20° to +400° F *
- Intermittent Vent/Non-Bleed
- Internal Parts/Fittings Stainless Steel
- NACE MR0175 Construction Standard
- Non-Vent available
- Pressure Range: 5-125 or 15-285 PSI

Dimensional Data



Specifications and Dimensional Data

Size	Connection	A (in.)	B (in.)	C (in.)	D (in.)	Weight (lb)
2"	NPT	8 1/2	13 3/8 Max	2 1/8	-	36
	150RF	9			3/4	45
3"	NPT	12 1/16	14 1/2 Max	3 1/8	-	74
	150RF	12 3/16			15/16	85



Part Number Matrix - How to Order

Style

- 0 = Back Pressure Regulator
- 1 = Back Pressure Regulator, Non-Vent

Body Size

- 16 = 2"
- 20 = 3"

End Connection

- S = Female NPT
- F = 150RF Flange

Seat Size

- D = Full Port
- R = Reduced Port

Body Style

- T = Globe

Working Medium

- 0 = Gas/Air
- L = Liquid

Elastomers (Diaphragm - Seat/Seal)

- 0 = Buna N/Polyurethane - Buna N (2" Only)
- 2 = Fluorocarbon - Fluorocarbon
- 5 = HSN - HSN (2" Only)
- 6 = Aflas
- 7 = Buna N/Polyurethane - HSN (3" Only)

Construction

- N = NACE

Pressure Range

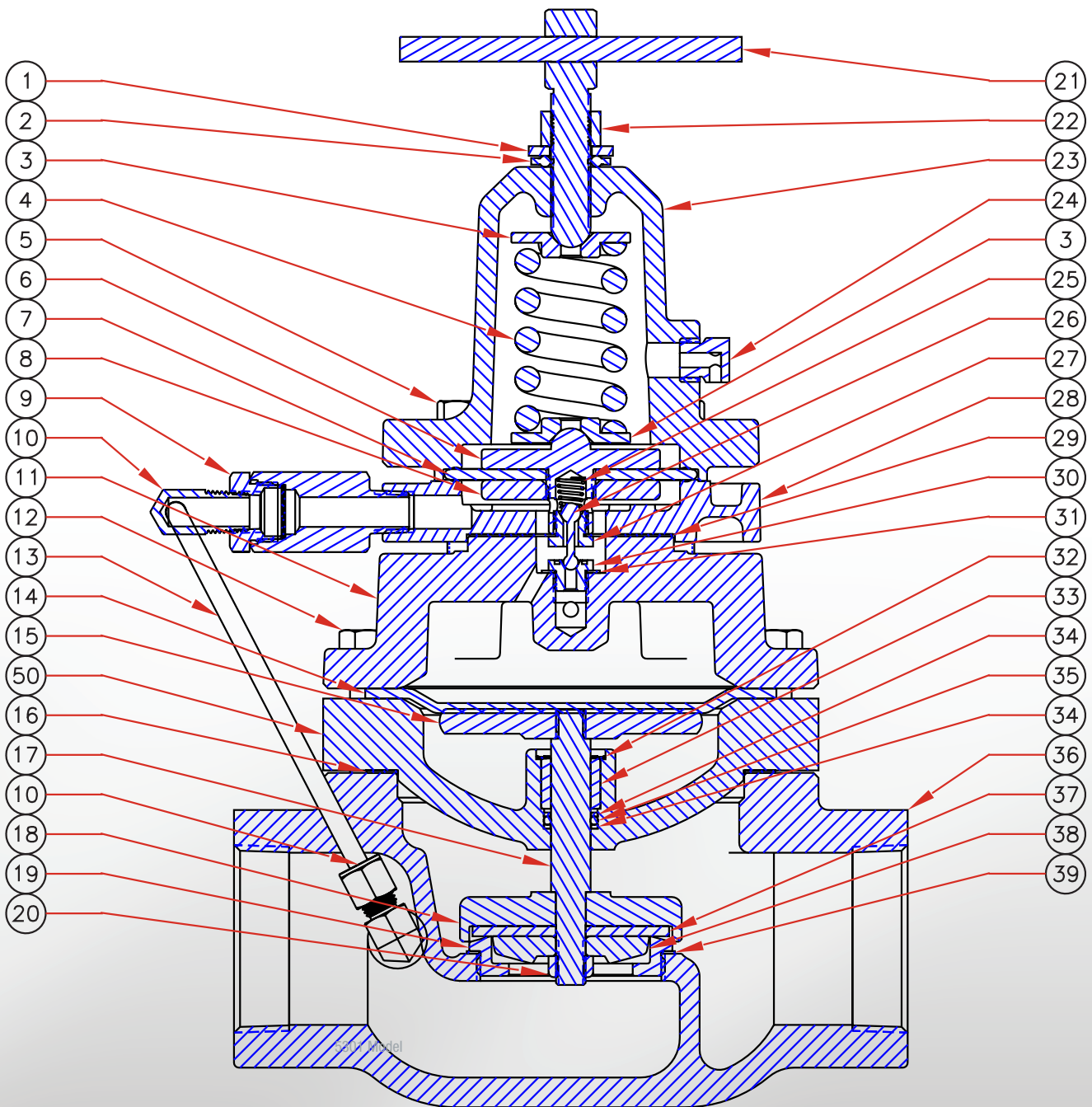
- 12 = 5-125 PSI
- 30 = 15-285 PSI

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Base#

Options

P5300 Model



P5300/P5301 Parts List

Item	Description	Part Number		Qty
		2" Model	3" Model	
1	Washer	662-236-003		1
2	Sealing Washer	662-245-000		1
3	Spring Plate, 5-125 PSI	638-119-000		2
	Spring Plate, 12-285 PSI	638-095-000		2
4	Main Spring, 5-125 PSI (Orange)	655-815-000		1
	Main Spring, 15-285 PSI (Green)	655-797-000		1
5	Bonnet Build Screw	648-467-012		4
6	Upper Diaphragm Plate	638-094-000		1
7*	Upper Diaphragm, Polyurethane	618-115-000		1
	Upper Diaphragm, Fluorocarbon	618-115-001		1
	Upper Diaphragm, HSN	618-115-003		1
8	Upper Diaphragm Nut	634-219-000		1
9*	Filter Subassembly, Buna-N	836-018-000		1
	Filter Subassembly, Fluorocarbon	836-018-001		1
	Filter Subassembly, HSN	836-018-003		1
10	Elbow Compression Fitting	622-079-001		3
11	Middle Housing	629-262-000	629-262-001	1
12	Body Build Screw	648-467-012 (8)	648-467-017 (10)	-
13	Supply Tubing	660-236-000	660-236-004	1
14*	Main (Lower) Diaphragm, Buna-N	600-520-000	618-135-002	1
	Main (Lower) Diaphragm, Fluorocarbon	600-520-001	618-135-001	1
	Main (Lower) Diaphragm, HSN	600-520-003	618-135-000	1
15	Lower Diaphragm Plate	638-096-000	638-150-000	1
16*	Body Gasket	624-116-000	624-116-001	1
17	Stem	651-113-000	651-113-001	1
18	Seat Holder	650-206-000	650-206-001	1
19	Orifice	688-078-000U	688-078-001U	1
20*	Stem Nut	634-220-000	634-511-000	1
21	T Handle Adjustment Screw	803-077-000		1
22	Lock Nut	634-185-001		1
23	Bonnet	604-278-000		1
24*	Breather Plug	639-144-000		1

Item	Description	Part Number		Qty
		2" Model	3" Model	
25*	Pilot Spring, (P530 only)	655-786-001		1
	Pilot Spring, Non-Vent (P5301 only)	655-868-000		1
26*	Pilot	813-053-001		1
27*	Pilot Seat	650-197-000		1
28	Upper Housing	629-261-000		1
29*	Middle Diaphragm, Buna-N	618-114-000		1
	Middle Diaphragm, Fluorocarbon	618-114-001		1
	Middle Diaphragm, HSN	618-114-003		1
30*	Pilot Bleed Orifice	688-077-001U		1
31*	Pilot Gasket	624-115-000		1
32	Stem Bushing Retainer	693-036-000	610-122-000	1
33	Stem Bushing	608-091-000	608-091-001	1
34*	Backup Ring	649-347-000	649-439-000	2
35*	Stem O Ring, Buna-N	649-000-150	-	1
	Stem O Ring, Fluorocarbon	649-000-338	010-380-000	1
	Stem O Ring, HSN	649-437-002	649-437-000	1
36	Body	664-590-000	664-676-000	1
37*	Seat, Buna-N	649-346-000	-	1
	Seat, Fluorocarbon	649-346-001	650-247-001	1
	Seat, HSN	649-346-003	650-247-000	1
38	Ratio Plug	643-227-000	643-227-001	1
39*	Orifice Gasket	624-117-000	624-117-001	1
40	Pressure Gauge (Not Shown)	GG15300C8SSM-001		1
41	Body Plug (P5300 Only) (Not Shown)	639-099-001		1
42	Nameplate (Not Shown)	632-589-000		1
43	Drive Screws (Not Shown)	648-464-000		4
44	Exhaust Tubing (P5301 Only)	660-236-010	660-236-008	1
45	Tee Fitting (P5301 Only)	622-113-000		1
46	Outlet Tubing (P5301 Only)	660-236-011	660-236-009	1
47	Straight Fitting (P5301 Only)	622-105-001		1
50	Lower Housing	629-263-000	629-263-002	1

*Parts included in repair kit

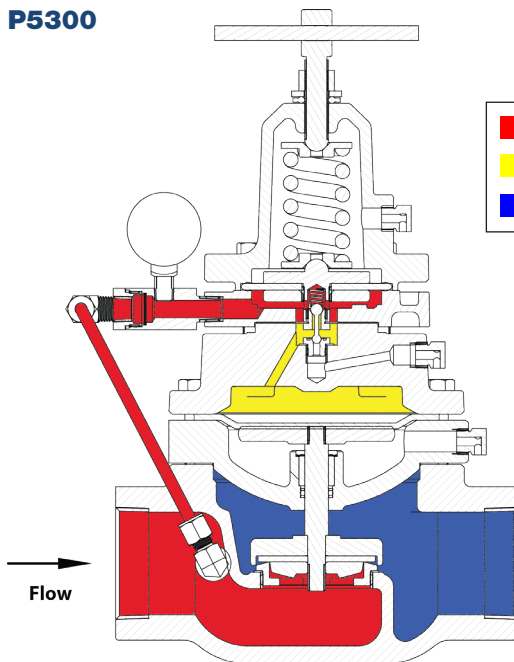
Elastomer Repair Kits - How to Order

- 0 = 2" Nitrile
- 1 = 2" Fluorocarbon
- 3 = 2" HSN
- 6 = 2" Buna N - HSN*
- 4 = 3" Fluorocarbon
- 5 = 3" HSN
- 7 = 3" Buna N - HSN*

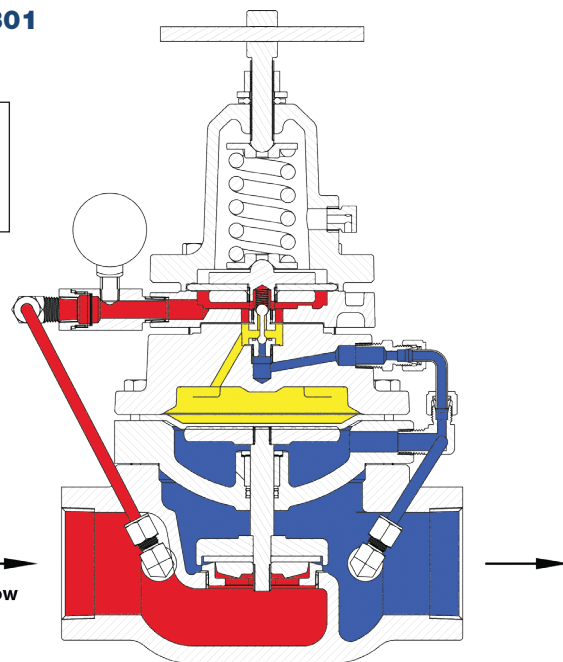
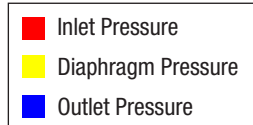
971P5300 X
Base Number

*Buna-N Seals and Diaphragm, HSN Seat

P5300



P5301



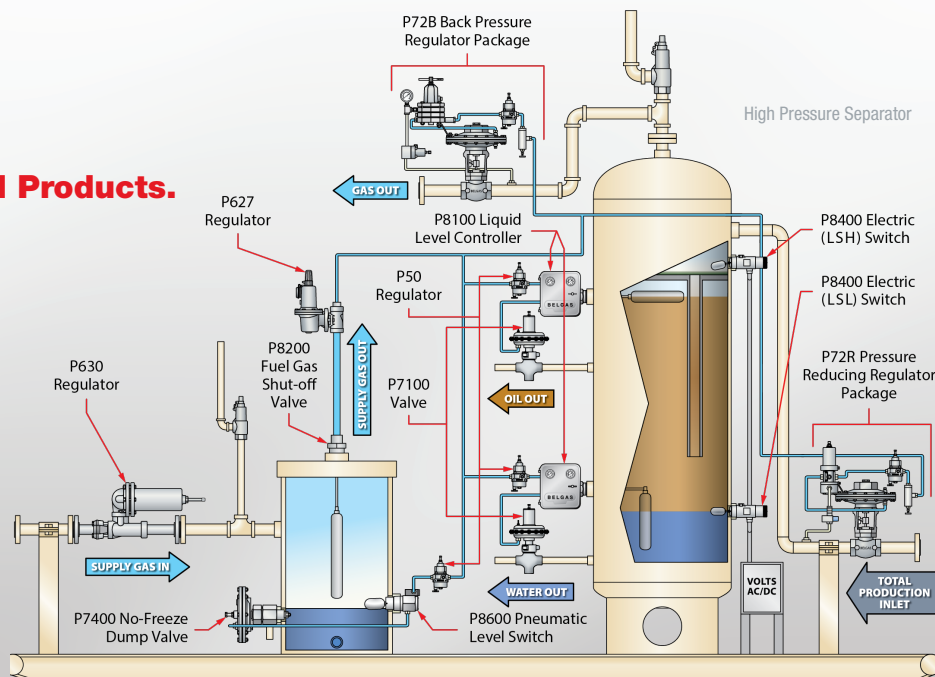
P5300 Back Pressure Regulator

The P5300 regulator maintains a constant back pressure in air and gas applications through its integral pilot. When the upstream pressure is at or below the set point, the pilot will remain open, and the upstream pressure will keep the valve closed. Above setpoint the pilot closes, releasing gas to atmosphere. With no pressure on the diaphragm, upstream pressure lifts the main seat allowing pressure to relieve to downstream.

P5301 Non-Vent Back Pressure Regulator

The P5301 regulator functions in the same way as the P5300 regulator except when the upstream pressure rises above the set point, the pilot will close and release the gas downstream back into the system instead of exhausting to the atmosphere.

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8019 Ohio River Blvd.
Newell, WV 26050
Toll Free: 800-727-5646
cpsales@belgas.net
www.BelGASCP.com

2221 SE 69th Street
Oklahoma City, OK 73149
Toll Free: 800-833-3127
Phone: 405-813-0011

P5350 & P5351 Pressure Reducing Regulator

The BelGAS^{CP} P5350/P5351 is a Pressure Reducing Regulator with an integrally mounted pilot. Except where liquid or very low gas pressure is involved, upstream gas is used to operate this unit.

Applications

- Compressor Stations
- Gas Gathering Systems

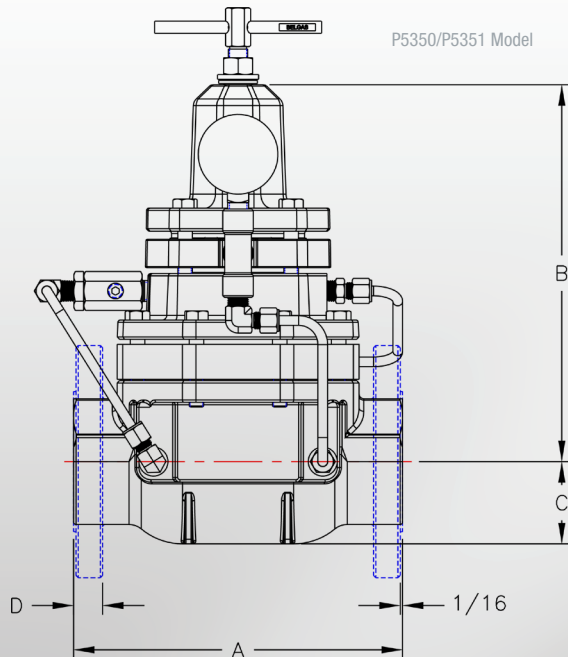
Standard Design Features

- 2" & 3" FNPT or Class 150 RF, available
- Reduced & Full Port, available
- Class VI Bubble Tight Shut-off
- Design Pressure 300 PSIG
- Temperature Range -20° to +400° F *
- Intermittent Vent/Non-Bleed
- Internal Parts/Fittings Stainless Steel
- NACE MR0175 Construction Standard
- Non-Vent available
- Pressure Range: 5-125 or 15-285 PSI



P5350/P5351 Model

Dimensional Data



Specifications and Dimensional Data

Size	Connection	A (in.)	B (in.)	C (in.)	D (in.)	Weight (lb)
2"	NPT	8 1/2	13 3/8 Max	2 1/8	-	36
	150RF	9			3/4	45
3"	NPT	12 1/16	14 1/2 Max	3 1/8	-	74
	150RF	12 3/16			15/16	85

Part Number Matrix - How to Order

Style

- 0 = Pressure Reducing Regulator
- 1 = Pressure Reducing Regulator, Non-Vent

Body Size

- 16 = 2"
- 20 = 3"

End Connection

- S = Female NPT
- F = 150RF Flange

Seat Size

- D = Full Port
- R = Reduced Port

Body Style

- T = Globe

Working Medium

- 0 = Gas/Air
- L = Liquid

Elastomers (Diaphragm - Seat/Seal)

- 0 = Buna N/Polyurethane - Buna N (2" Only)
- 2 = Fluorocarbon - Fluorocarbon
- 5 = HSN - HSN (2" Only)
- 6 = Aflas
- 7 = Buna N/Polyurethane - HSN (3" Only)

Construction

- N = NACE

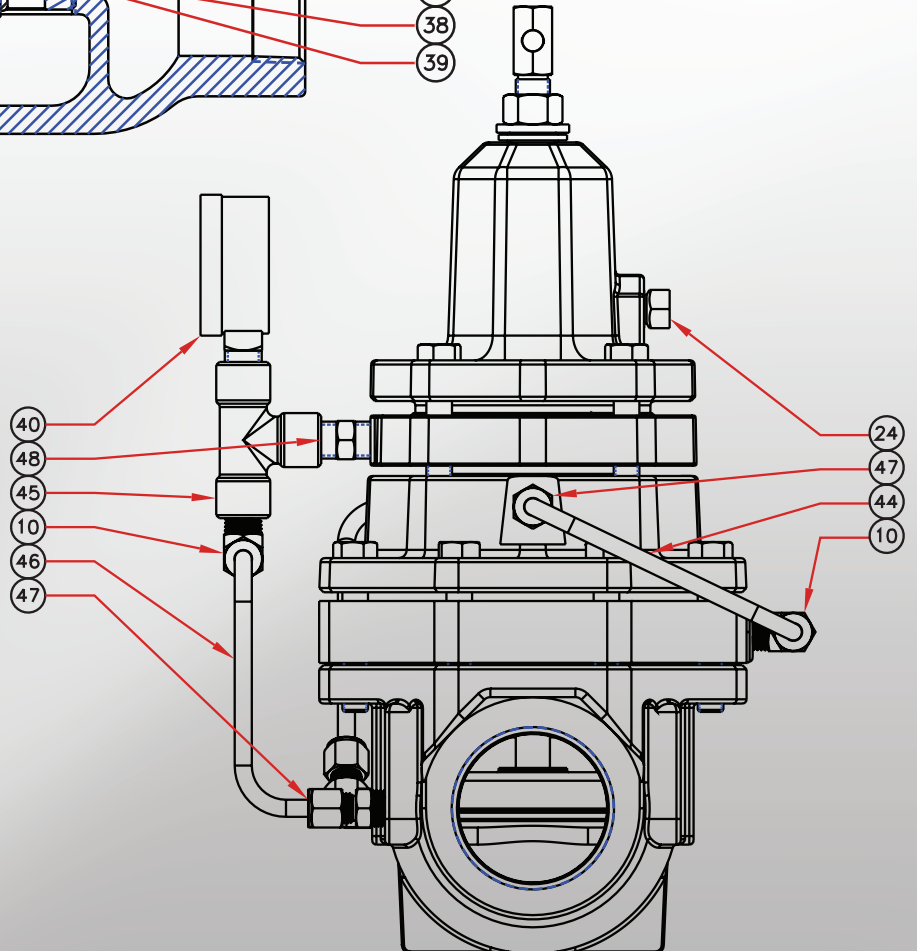
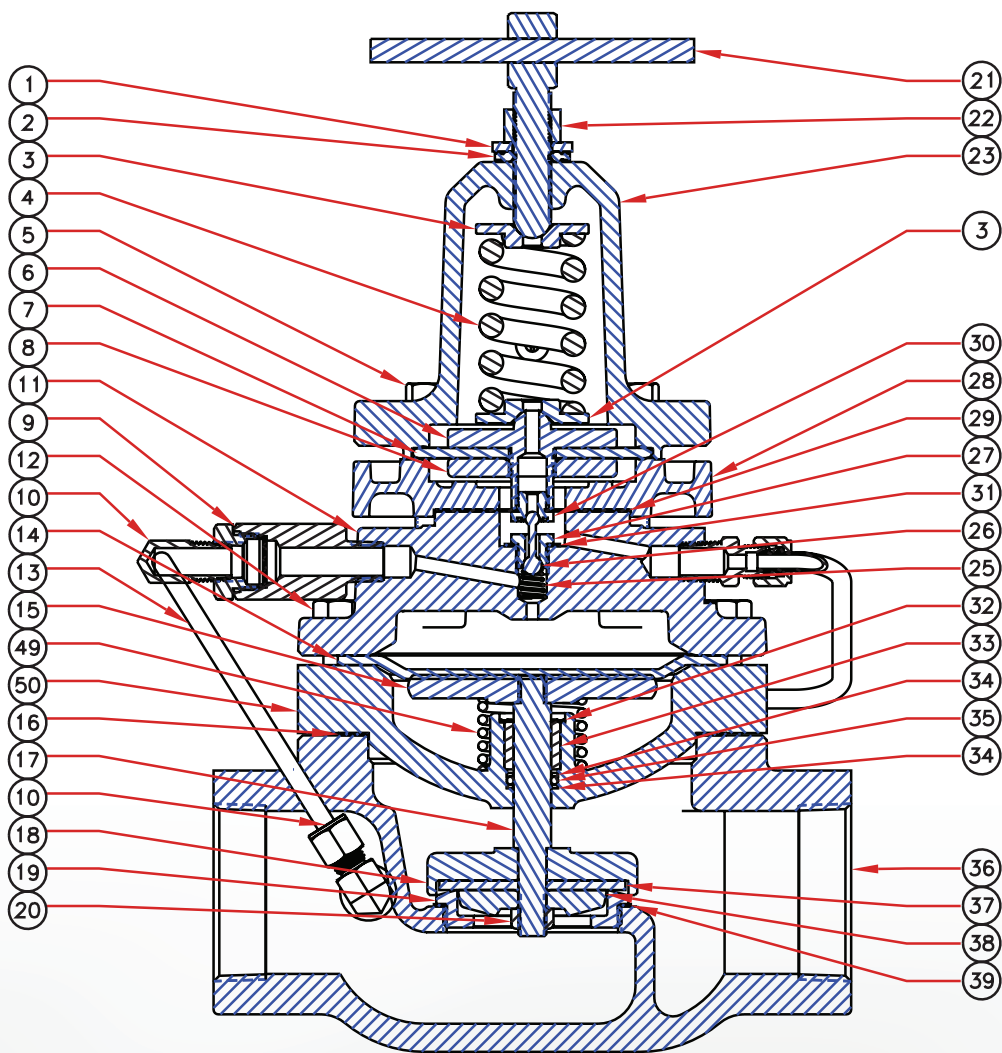
Pressure Range

- 12 = 5-125 PSI
- 30 = 15-285 PSI

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Base#

Options



P5350/P5351 Parts List

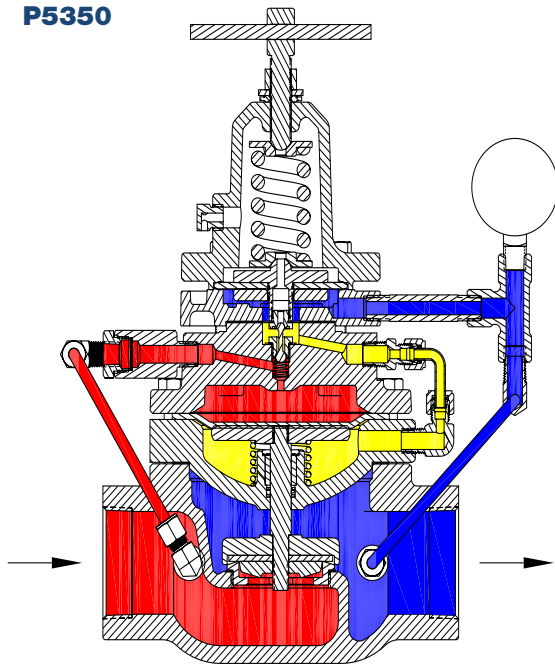
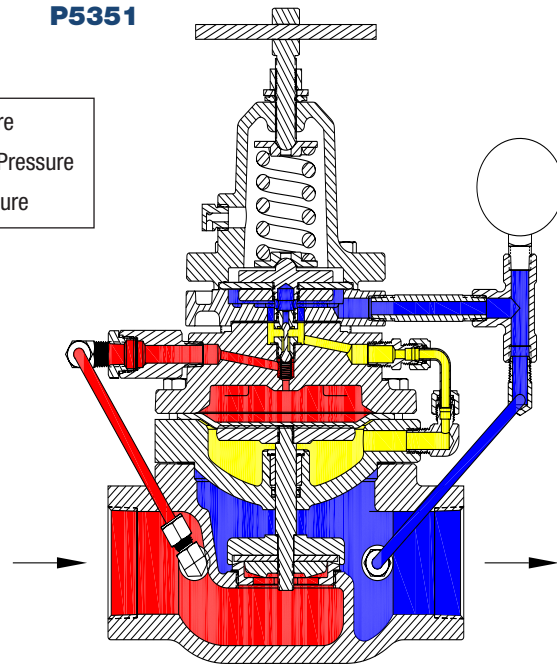
Item	Description	Part Number		Qty
		2" Model	3" Model	
1	Washer	662-236-003		1
2	Sealing Washer	662-245-000		1
3	Spring Plate, 5-125 PSI	638-119-000		2
	Spring Plate, 12-285 PSI	638-095-000		2
4	Main Spring, 5-125 PSI (Orange)	655-815-000		1
	Main Spring, 12-285 PSI (Green)	655-797-000		1
5	Bonnet Build Screw	648-467-012		4
6	Upper Diaphragm Plate (P5350)	638-120-000		1
	Upper Diaphragm Plate (P5351)	638-094-000		1
7*	Upper Diaphragm, Polyurethane	618-115-000		1
	Upper Diaphragm, Fluorocarbon	618-115-001		1
	Upper Diaphragm, HSN	618-115-003		1
8	Upper Diaphragm Nut	634-219-000		1
9*	Filter Subassembly, Buna-N	836-018-000		1
	Filter Subassembly, Fluorocarbon	836-018-001		1
	Filter Subassembly, HSN	836-018-003		1
10	Elbow Compression Fitting	622-079-001		4
11	Middle Housing	629-262-002	629-262-003	1
12	Body Build Screw	648-467-012 (8)	648-467-017 (10)	-
13	Supply Tubing	660-236-000	660-236-007	1
14*	Main (Lower) Diaphragm, Buna-N	600-520-000	618-135-002	1
	Main (Lower) Diaphragm, Fluorocarbon	600-520-001	618-135-001	1
	Main (Lower) Diaphragm, HSN	600-520-003	618-135-000	1
15	Lower Diaphragm Plate	638-096-000	638-150-000	1
16*	Body Gasket	624-116-000	624-116-001	1
17	Stem	651-113-000	651-113-001	1
18	Seat Holder	650-206-000	650-206-001	1
19	Orifice	688-078-000U	688-078-001U	1
20*	Stem Nut	634-220-000	634-511-000	1
21	T Handle Adjustment Screw	803-077-000		1
22	Lock Nut	634-185-001		1
23	Bonnet	604-278-000		1
24*	Breather Plug	639-144-000		1
25*	Pilot Spring (5350)	655-786-001		1
	Pilot Spring (5351)	655-868-000		1
26*	Pilot	813-053-001		1
27*	Pilot Seat	650-197-000		1
28	Upper Housing	629-261-000		1
29*	Middle Diaphragm, Buna-N	618-114-000		1
	Middle Diaphragm, Fluorocarbon	618-114-001		1
	Middle Diaphragm, HSN	618-114-003		1
30*	Pilot Bleed Orifice	688-077-001U		1
31*	Pilot Gasket	624-115-000		1
32	Stem Retainer	693-036-000	610-122-000	1
33	Stem Bushing	608-091-000	608-091-001	1
34*	Backup Ring	649-347-000	649-439-000	2
35*	Stem O Ring, Buna-N	649-000-150	-	1
	Stem O Ring, Fluorocarbon	649-000-338	010-380-000	1
	Stem O Ring, HSN	649-437-002	649-437-000	1
36	Body	664-590-000	664-676-000	1
37*	Seat, Buna-N	649-346-000	-	1
	Seat, Fluorocarbon	649-346-001	650-247-001	1
	Seat, HSN	649-346-003	650-247-000	1
38	Ratio Plug	643-227-000	643-227-001	1
39*	Orifice Gasket	624-117-000	624-117-001	1
40	Pressure Gauge	GG20300L4SSM-001		1
41	Filter Plug (Not Shown)	639-074-000		1
42	Nameplate (Not Shown)	632-589-000		1
43	Drive Screws (Not Shown)	648-464-000		4
44	Loading Tubing	660-236-002	660-236-005	1
45	Tee Fitting	622-108-000		1
46	Outlet Tubing	660-236-003	660-236-006	1
47	Straight Fitting	622-105-001		2
48	Hex Nipple	622-058-000	622-058-001	1
49	Diaphragm Spring (P5350 Only)	655-843-000	655-843-001	1
50	Lower Housing	629-263-000	629-263-002	1

*Parts included in repair kit

Elastomer Repair Kits - How to Order

0 = 2" Nitrile
1 = 2" Fluorocarbon
3 = 2" HSN
6 = 2" Buna N - HSN*
4 = 3" Fluorocarbon
5 = 3" HSN
7 = 3" Buna N - HSN*
971P5350 X Base Number

*Buna-N Seals and Diaphragm, HSN Seat

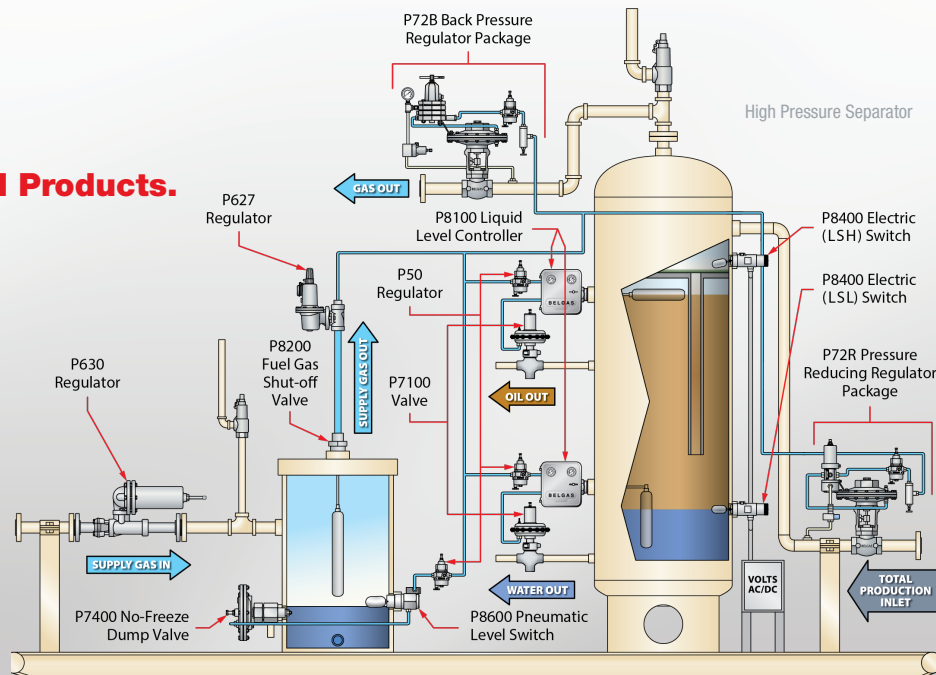
P5350**P5351****P5350 Pressure Reducing Regulator**

The P5350 regulator maintains a constant downstream pressure in air and gas applications through its integral pilot. When downstream pressure is below set-point, the pilot plug will allow upstream pressure to flow beneath the diaphragm, lifting the seat. Above set-point, the actuation pressure will vent to atmosphere, allowing the valve to close.

P5351 Non-Vent Pressure Reducing Regulator

The P5351 regulator functions in the same way as the P5350 regulator, however the actuation pressure is piped downstream, rather than vented to atmosphere.

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8019 Ohio River Blvd.
Newell, WV 26050
Toll Free: 800-727-5646
cpsales@belgas.net
www.BelGASCP.com

2221 SE 69th Street
Oklahoma City, OK 73149
Toll Free: 800-833-3127
Phone: 405-813-0011