January 2022

Type SR8 Sanitary Backpressure Regulator

WARNING

Failure to follow these instructions or to properly install and maintain this equipment could result in an explosion, fire and/or chemical contamination causing property damage and personal injury or death.

Fisher™ backpressure regulators must be installed, operated and maintained in accordance with federal, state and local codes, rules and regulations and Emerson Process Management Regulator Technologies, Inc. instructions.

If a leak develops or if the outlet continually vents liquid, service to the unit may be required. Failure to correct trouble could result in a hazardous condition. Only a qualified person must install or service the unit.

Installation, operation and maintenance procedures performed by unqualified personnel may result in improper adjustment and unsafe operation. Either condition may result in equipment damage or personal injury. Use qualified personnel when installing, operating and maintaining the Type SR8 Sanitary backpressure regulator.



Figure 1. Type SR8

Introduction

Type SR8 self-contained backpressure regulators are suitable for pressure control of steam, liquid or gaseous service. Typical set points range from 2 to 125 psi / 0.2 to 8.6 bar. The regulator is designed to meet sanitary application and material requirements.

Scope of the Manual

This manual provides installation, startup, maintenance and parts ordering information for the Type SR8 Sanitary Backpressure Regulator.



Specifications

The Specifications section on this page provides the ratings and other specifications for the Type SR8. The following information is stamped on the nameplate fastened on the regulator at the factory: type; body size; maximum inlet, outlet and differential pressure; maximum pressure above setpoint; maximum temperature; spring range; cage type; trim and diaphragm material.

Body Size, Inlet and Outlet Connection Style

1/2, 3/4, 1, 1-1/2, 2 and 3 in. / 15, 20, 25, 40, 50 and 80 mm

End Connection(4)

Tri-Clamp® Sanitary connections

Body Pressure/Temperature Ratings(1)

MAXIMUM TEMPERATURE			M INLET SURE	MAXIMUM OUTLET PRESSURE		
°F	°C	psig bar		psig	bar	
150	65	210	14.5	210	14.5	
275	135	180	12.4	180	12.4	
400	204	160	11	160	11	

Maximum Operating Pressures(1)(3)

See Table 1

Set Pressure Ranges

See Table 2

Maximum Differential Pressures(1)

See Table 3

Regulator Temperature Capabilities⁽¹⁾

See Table 4

Pressure Registration

Internal

Service Media

Steam, Gas and Liquid

Options

Vacuum protection
Pressure loaded spring case
T-handle adjusting screw

Pressure Loaded Spring Case Option Maximum Loading Pressure

1/2 through 1-1/2 in. / 15 through 40 mm body: 125 psig / 8.62 bar 2 and 3 in. / 50 and 80 mm body: 60 psig / 4.14 bar

1/4 NPT tapped vent connection

Vacuum Protection Option Maximum Vacuum Pressure

14 psig / 0.96 bar (vacuum)

Certifications Available upon Request

FDA approved elastomers/plastics Material and Functional Test Certificates USP Class VI approved elastomers/plastics⁽²⁾ ADI free compliant elastomers/plastics⁽²⁾

Table 1. Maximum Operating Pressures

BODY SIZE		MAXIMUM TEMPERATURE		MAXIMUM INL	ET PRESSURE	MAXIMUM OUTLET PRESSURE	
In.	mm	°F	°C	psig	bar	psig	bar
4/0.0/4.4	15, 20, 25 and 40	150	65	210	14.5	210	14.5
1/2, 3/4, 1 and 1-1/2		275	135	180	12.4	180	12.4
		400	204	160	11	160	11
		150	65	150	10.3	150	10.3
2 and 3	50 and 80	275	135	125	8.62	125	8.62
		400	204	110	7.58	110	7.58

Principle of Operation

Pressure in the controlled system (regulator inlet pressure) registers beneath the diaphragm of the regulator and opposes the force provided by the predetermined spring compression. When regulator

spring force exceeds diaphragm force exerted by the inlet pressure, the spring will keep the valve plug closed to prevent flow to the downstream system. As inlet pressure increases above setpoint, this increase registers on the diaphragm and the valve plug opens to allow flow to the downstream system.

^{1.} The pressure/temperature limits in this Instruction Manual and any applicable standard or code limitation should not be exceeded.

^{2.} Contact your local Sales Office for details on available constructions

Maximum pressure to prevent damage to internal parts and leakage to atmosphere.

^{4.} End connection clamps and gaskets to be supplied by the user.

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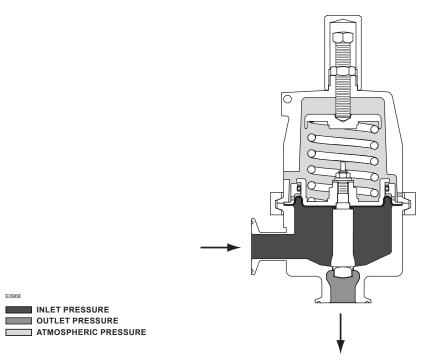


Figure 2. Operational Schematic

Table 2. Set Pressure Ranges and Control Spring Data

BODY SIZE		SET PRESSURE RANGE		COLOR	WIRE DI	WIRE DIAMETER		.ENGTH	PART NUMBER
ln.	mm	psig	bar	COLOR	In.	mm	In.	mm	PART NUMBER
	İ	2 to 8	0.2 to 0.5 ⁽¹⁾	Blue	0.138	3.51	2.75	69.9	GE06780X012
		5 to 25	0.4 to 1.7	Silver	0.177	4.50	2.75	69.9	GE06781X012
	[10 to 50	0.7 to 3.4	Green	0.192	4.88	2.75	69.9	GE06782X012
1/2, 3/4	15, 20	35 to 100	2.4 to 6.9	Red	0.225	5.72	2.75	69.9	GE06783X012
		75 to 125	5.2 to 8.6	Red Yellow	0.225 0.148	5.72 3.76	2.75 2.75	69.9 69.9	GE06783X012 GE06784X012
	25, 40	2 to 8	0.2 to 0.5 ⁽¹⁾	Blue	0.225	5.72	3.25	82.6	GE02763X012
full port		5 to 25	0.4 to 1.7	Silver	0.282	7.16	3.25	82.6	GE02764X012
		15 to 70	1.0 to 4.8	Green	0.331	8.41	3.25	82.6	GE02765X012
		25 to 90	1.7 to 6.2	Red	0.362	9.19	3.25	82.6	GE02766X012
	full port 40 x 25	35 to 100	2.4 to 6.9	Green Yellow	0.331 0.250	8.41 6.35	3.2 3.25	82.6 82.6	GE02765X012 GE06090X012
			75 to 125	5.2 to 8.6	Red Yellow	0.362 0.250	9.19 6.35	3.25 3.25	82.6 82.6
2 and 3		10 to 25	0.7 to 1.7	Silver	0.562	14.3	6	152.4	GE14003X012
	50 and 80	15 to 50	1.0 to 3.4	Green	0.625	15.9	6	152.4	GE14004X012
		25 to 60	1.7 to 4.1	Red	0.625	15.9	6	152.4	GE14005X012
1. The 2 to 8 p	osig / 0.14 to 0.5	5 bar spring is not a	available with the me	al diaphragm.					

Table 3. Maximum Differential Pressures

BODY	/ SIZE	OUTLET PRES	SSURE RANGE	COLOR	MAXIMUM DIFFE	RENTIAL PRESSURE
In.	mm	psig	bar	COLOR	psid	bar d
		2 to 8	0.2 to 0.5	Blue	15	1.0
		5 to 25	0.4 to 1.7	Silver	40	2.7
1/2, 3/4	15, 20	10 to 50	0.7 to 3.4	Green	100	6.9
		35 to 100	2.4 to 6.9	Red	140	9.6
		75 to 125	5.2 to 8.6	Red/Yellow	160	11
	25, 40 full port 40 x 25	2 to 8	0.2 to 0.5	Blue	15	1.0
		5 to 25	0.4 to 1.7	Silver	40	2.7
1, 1-1/2 full port 1-1/2 x 1		15 to 70	1.0 to 4.8	Green	100	6.9
		25 to 90	1.7 to 6.2	Red	125	8.6
		35 to 100	2.4 to 6.9	Green/Yellow	140	9.6
		75 to 125	5.2 to 8.6	Red/Yellow	160	11
		10 to 25	0.7 to 1.7	Silver	50	3.4
2 and 3	50 and 80	15 to 50	1.0 to 3.4	Green	75	5.2
		25 to 60	1.7 to 4.1	Red	75	5.2

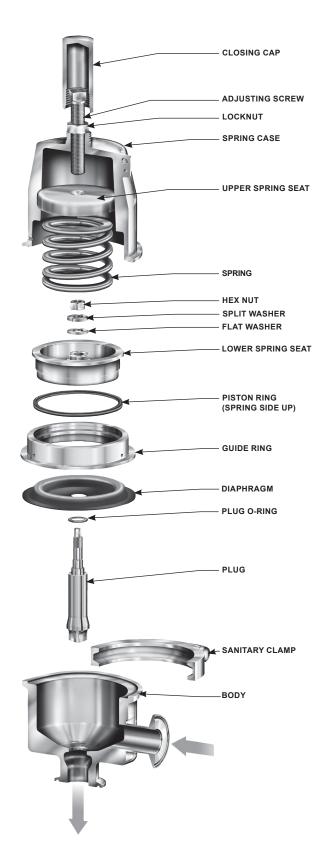


Figure 3. Type SR8 Exploded View

WARNING

Regulators should be installed, operated and maintained in accordance with federal, state and local codes, rules and regulations and Fisher™ instructions.

If a leak develops in the system, it indicates service is required. Failure to take the regulator out of service immediately may create a hazardous condition.

Installation

Clean out all pipelines before installation of the regulator and check to be sure the regulator has not been damaged or collected foreign material during shipping. The regulator may be installed in any position desired. However, to ensure self-draining (from inlet to outlet) the regulator should be installed with the spring case in the upright vertical position. The arrow on the body indicates flow direction.

The piping flange to regulator end connection flange clamps and gaskets are supplied by the user. Clamp gaskets must be compatible with the system requirements. Install and tighten clamps to manufacturer's specifications.

Note

It is important that the regulator be installed so that the vent hole in the spring case is unobstructed at all times.

Pressure Loaded Construction

The spring case can be pressure loaded to adjust set pressure. An optional tapped spring case, guide ring seal and sealing washer on the adjusting screw must be used for these applications. The loading pressure is connected to the 1/4 NPT connection in the spring case allowing registration on the spring side of the diaphragm. Adjusting loading pressure will proportionally change the pressure setting of the regulator. A small amount of mechanical spring load, in addition to the pressure load, is recommended. Regulator set pressure achieved from the combination of spring load and pressure load should not exceed the set pressure ranges listed in Table 2.

SEAT TYPE	DIAPHRAGM MATERIAL	O DINC MATERIAL	TEMPERATURE RANGE		
SEALITPE	DIAPHRAGM MATERIAL	O-RING MATERIAL °F		°C	
	Ethylene Propylene Diene (EPDM)	EPDM	-20 to 275	-28 to 135	
Metal (Stainless steel)	Stainless steel	PTFE/Fluorocarbon (FKM) ⁽¹⁾	20 to 400	-6 to 204	
(======================================	PTFE/Fluorocarbon (FKM)	PTFE/Fluorocarbon (FKM)	20 to 400	-6 to 204	
Soft (Polytetrafluoroethylene (PTFE)/	EPDM	EPDM	-20 to 150	-28 to 65	
	Stainless steel	PTFE/Fluorocarbon (FKM) ⁽¹⁾	20 to 150	-6 to 65	
Stainless steel)	PTFE/Fluorocarbon (FKM)	` '	20 to 150	-6 to 65	
Soft	EPDM	EPDM	-20 to 275	-28 to 135	
(Polyether Ether Ketone (PEEK)/	Stainless steel	PTFE/Fluorocarbon (FKM) ⁽¹⁾	20 to 400	-6 to 204	
Stainless steel)	PTFE/Fluorocarbon (FKM)	PTFE/Fluorocarbon (FKM)	20 to 400	-6 to 204	

Table 4. Temperature Capabilities

WARNING

1. O-ring material is PTFE for the 1/2 and 3/4 in. / 15 and 20 mm sizes. Temperature range is the same

Over pressuring any portion of this equipment may result in equipment damage, leaks in the valve or personal injury due to bursting of pressurecontaining parts. The system should be inspected after any overpressure condition.

Startup

The regulator is factory set to the midpoint of the spring range. Please refer to the Adjustment section for directions on changing the setpoint. With proper installation completed, slowly open the upstream and downstream shutoff valves.

Note

When the pressure load option is used, always open block valves on main line before applying loading pressure to the spring case to avoid diaphragm damage.

Adjustment

The setting of the regulator can be varied within the pressure range stamped on the nameplate. Setpoint is defined as the point the regulator starts to open. Build up above setpoint is required to achieve maximum capacity. To change the setpoint, loosen the locknut (key 17, Figure 4) or locking lever (key 22, Figure 4) and turn the adjusting screw (key 18, Figure 4) clockwise to increase the setpoint or counterclockwise to decrease it. Monitor the inlet pressure with a test gauge during the adjustment. Tighten the locknut or locking lever to maintain the desired setting. Available set pressure ranges, recommended maximum allowable differential pressures and spring data are shown in Tables 2 and 3.

Shutdown

Close the upstream shutoff valve. Close downstream shutoff valve. Open the applicable bleed valves to exhaust the system.

Note

When the pressure loaded option is used, bleed all pressure from the spring case before bleeding pressure under the diaphragm to avoid internal part damage.

Maintenance



Before disassembling the regulator, isolate it from the pressure system and release all pressure from the regulator as specified in the Shutdown section. Relieve all spring compression and isolate regulator from the pressurized system prior to removing the clamp (key 15).

Due to normal wear that may occur, parts must be periodically inspected and replaced if necessary. The frequency of inspection depends on the severity of service conditions. A preventative maintenance schedule should be implemented that checks regulator setpoint and lockup and that evaluates regulator performance to the system requirements. Regulator performance outside the system requirements will require either adjustment, part maintenance or regulator replacement to meet system requirements.

This section includes instructions for disassembly and replacement of parts. All key numbers refer to Figure 4 or 5.

- If damage to the diaphragm or seating surface is suspected or to inspect other internal parts, loosen the locknut (key 17) or locking lever (key 22) and turn the adjusting screw (key 18) counterclockwise to remove all spring compression.
- 2. Loosen the sanitary clamp (key 15) to remove the spring case (key 14). Remove the upper spring seat (key 11) and the regulator spring (keys 12 and 13, when applicable).
- 3. Remove the diaphragm assembly and plug from the body (key 1). Inspect parts for damage.

Note

When disassembling a unit with a metal diaphragm, replace both diaphragm gaskets (key 6) to ensure a good seal at the diaphragm flange.

Replace the piston ring (key 5), if it has been removed from the guide ring (key 9). Take care not to damage the piston ring during replacement.

- 4. If parts require replacement, loosen the nut (key 16) while holding wrench flats on plug (key 3) and remove the lock washer (key 24) and flat washer (key 23). The lower spring seat (key 8), guide ring (key 9), diaphragm (key 7) and plug O-ring (key 3) can now be removed from the plug (key 2). An optional lower diaphragm plate (key 10) and O-ring (key 4) are included for the constructions offering protection against vacuum conditions.
- 5. Replace any damaged parts. Refer to the section titled Soft Seat Maintenance when the seat needs to be replaced.
- Reassemble in the reverse order of the above procedure. The order is listed below or refer to Figure 3.
 - a. Plug (key 2)
 - b. Plug O-ring (key 3)
 - c. Diaphragm plate (key 10) (vacuum protection construction only)
 - d. Diaphragm plate O-ring (key 4) (vacuum protection construction only)
 - e. Diaphragm gasket (key 6) (Metal diaphragms only)
 - f. Diaphragm (key 7)
 - g. Diaphragm gasket (key 6) (Metal diaphragms only)
 - h. Guide ring assembly (keys 9 and 5)
 - i. Lower spring seat (key 8)
 - j . Flat Washer (key 23)
 - k. Lock Washer (key 24)
 - I. Hex Nut (key 16)

- 7. Hold wrench flats on plug (key 2), then torque hex nut (key 16) to 6 to 8 in-lbs / 0.7 to 0.9 N•m for the 1/2 and 3/4 in. / 15 and 20 mm, 5 to 7 ft-lbs / 7 to 9 N•m for the 1 and 1-1/2 in. / 25 and 40 mm and 28 to 30 ft-lbs / 38 to 41 N•m for 2 and 3 in. / 50 and 80 mm. After tightening the hex nut, apply threadlocker medium/high strength sealant or equivalent to the nut/thread interface.
- 8. Position diaphragm assembly in body (key 1). Replace regulator spring (keys 12 and 13, when applicable) and upper spring seat (key 11). Replace the spring case (key 14) and sanitary clamp (key 15). Torque clamp nuts to 20 to 22 ft-lbs / 27 to 30 N•m for the 1/2 through 1-1/2 in. / 15 mm through 40 and 38 to 40 ft-lbs / 52 to 54 N•m for the 2 and 3 in. / 50 and 80 mm.

Note

Lubricate the adjusting screw (key 18) threads and the sanitary clamp bolt threads (key 15) to reduce galling of Stainless steel. Factory recommends anti-seize lubricant.

Keep even spacing between clamp halves when tightening clamp nuts. This will ensure even loading of the diaphragm. If clamp halves touch, please contact factory for a replacement clamp.

9. Follow Startup and Adjustment procedures.

Soft Seat Maintenance

Take care not to damage the internal/wetted surface finish when performing Soft Seat Maintenance.

- 1. Disassemble the regulator as stated in the prior section.
- 2. To access soft seat (key 28), unscrew the lower plug (key 27) from the upper plug (key 26). If damaged, replace with new part. Apply Loctite 246 or equivalent to external thread before tightening. Proper torque for the assembly is 6 to 8 in-lbs / 0.7 to 0.9 N•m for the 1/2 and 3/4 in. / 15 and 20 mm; 8 to 10 in-lbs / 0.9 to 1.1 N•m for the 1 and 1-1/2 x 1 in. / 25 and 40 x 25 mm; and 5 to 7 ft-lbs / 7 to 9 N•m for the 1-1/2 in. / 40 mm. Torque for 2 and 3 in. / 50 and 80 mm is 23 to 25 ft-lbs / 31 to 34 N•m.
- 3. Reassemble as stated in the prior section.

Part Number

Parts Ordering

When corresponding with your local Sales Office or sales representative about this equipment, always reference the equipment serial number and FS number that can be found on the nameplate.

When ordering replacement parts, reference the key number of each needed part as found in the following parts list. Separate kits containing all recommended spare parts are available.

Parts List

Key	Description	Part Number

Parts Kits

2

Diaphragm Kits (includes keys 3, 5 and 7. Stainless steel kits include key 6, quantity 2). Does not include all applicable parts for changing between elastomer and metal diaphragm constructions. See parts list for differences.

1/2 and 3/4 in. / 15 and 20 mm bodies

RSR58X00E12		EPDM
RSR58X00S12		PTFE/Fluorocarbo
		EPDM
RSR58X00V12		PTFE/Fluorocarbo
DODEOVOCEOO	5	Piston Ring
K3K30AUUE22		1/2 and 3/4 in. / 15
RSR58X00S22		1 and 1-1/2 in. / 25
. 10. 100, 100022	6	2 and 3 in. / 50 and Diaphragm Gasket,
RSR58X00V22	U	316L Stainless stee
		PTFE (2 required
RSR58X00E32		1/2 and 3/4 in. / 1
DOD50\/00000		1 and 1-1/2 in. / 2
RSR58X00S32		2 and 3 in. / 50 a
	7	Diaphragm
GE06788X012		1/2 and 3/4 in. / 15
		EPDM Stainless steel
		PTFE/Fluorocarbo
GE06797X012		1 and 1-1/2 in. / 25
GE06797X022		EPDM
		Stainless steel
		PTFE/Fluorocarbo
GE00323X022		2 and 3 in. / 50 and
GE06324X012		EPDM
		Stainless steel
	Ω	PTFE/Fluorocarbo
GE14009X012	O	1/2 and 3/4 in. / 15
GE14009X022		Without Vacuum F
		1, 1-1/2 and 1-1/2 x
GE07951X012		25, 40 and 40 x 25
GE07952X012		Without Vacuum
GE07949X012		With Vacuum Pro
		2 and 3 in. / 50 and
		Without Vacuum F With Vacuum Prot
	q	Guide Ring
GE 13909AU12	0	1/2 and 3/4 in. / 15
GF06786X012		1 and 1-1/2 in. / 25
GE06795X012		2 and 3 in. / 50 and
		For EPDM/ Stainle
GE06039X012		For PTFE/Fluoroc
GE06191X012		
GE14007X012		
	RSR58X00S12 RSR58X00V12 RSR58X00E22 RSR58X00E22 RSR58X00S22 RSR58X00V22 RSR58X00E32 RSR58X00E32 RSR58X00E32 GE06788X012 GE06788X022 GE06797X012 GE06797X022 GE06323X012 GE06323X012 GE06324X012 GE06324X012 GE14009X012 GE14009X012 GE14009X012 GE07952X012 GE07952X012 GE07950X012 GE07950X012 GE07776X012 GE13988X012 GE13989X012 GE06786X012 GE06786X012 GE06795X012	RSR58X00S12 RSR58X00V12 RSR58X00E22 RSR58X00E22 RSR58X00S22 RSR58X00V22 RSR58X00S32 RSR58X00S32 7 GE06788X012 GE06797X012 GE06323X012 GE06323X012 GE06323X022 GE06324X012 GE06324X012 GE06324X012 GE07952X012 GE07952X012 GE07952X012 GE07952X012 GE07950X012 GE0795X012 GE0795X012 GE0795X012 GE06795X012 GE06795X012 GE06795X012 GE06795X012 GE06795X012 GE06795X012

3	Plug O-ring 1/2 and 3/4 in. / 15 and 20 mm bodies Elastomer diaphragms	
	EPDM PTFE/Fluorocarbon (FKM)	1H2919X0022 1P8453X0042
	Stainless steel diaphragms PTFE EPDM 1 and 1-1/2 in. / 25 and 40 mm bodies	GE10788X012 14B1935X032
	Elastomer diaphragms EPDM PTFE/Fluorocarbon (FKM)	1D2888X0042 1C7822X0142
	Stainless steel diaphragms PTFE/Fluorocarbon (FKM) EPDM	16A6903X022 14A1968X042
	2 and 3 in. / 50 and 80 mm bodies Elastomer diaphragms EPDM PTFE/Fluorocarbon (FKM)	1B8855X0112 12A0006X022
	Stainless steel diaphragms PTFE/Fluorocarbon (FKM) EPDM	12A0006X022 1B8855X0112
4	Diaphragm Plate O-ring 1 and 1-1/2 in. / 25 and 40 mm bodies EPDM PTFE/Fluorocarbon (FKM) 2 and 3 in. / 50 and 80 mm bodies	1V3234X0042 1V3234X0052
-	EPDM PTFE/Fluorocarbon (FKM)	1V3303X0082 1V3303X0092
5	Piston Ring 1/2 and 3/4 in. / 15 and 20 mm bodies 1 and 1-1/2 in. / 25 and 40 mm bodies 2 and 3 in. / 50 and 80 mm bodies	GE09274X012 GE09273X012 GE14027X012
3	Diaphragm Gasket, for use with 316L Stainless steel diaphragm only, PTFE (2 required)	
	1/2 and 3/4 in. / 15 and 20 mm bodies 1 and 1-1/2 in. / 25 and 40 mm bodies 2 and 3 in. / 50 and 80 mm bodies	GE06772X012 GE06076X012 GE13995X012
7	Diaphragm 1/2 and 3/4 in. / 15 and 20 mm bodies EPDM Stainless steel PTFE/Fluorocarbon (FKM)	GE06778X012 GE06777X012 GE06779X012
	1 and 1-1/2 in. / 25 and 40 mm bodies EPDM Stainless steel PTFE/Fluorocarbon (FKM)	GE02299X012 GE02643X012 GE06086X012
•	2 and 3 in. / 50 and 80 mm bodies EPDM Stainless steel PTFE/Fluorocarbon (FKM)	GE14001X012 GE14000X012 GE14002X012
3	Lower Spring Seat 1/2 and 3/4 in. / 15 and 20 mm bodies Without Vacuum Protection 1, 1-1/2 and 1-1/2 x 1 in. /	GE06774X012
	25, 40 and 40 x 25 mm bodies Without Vacuum Protection With Vacuum Protection 2 and 3 in. / 50 and 80 mm bodies	GE06330X012 GE02638X012
9	Without Vacuum Protection With Vacuum Protection Guide Ring	GE13997X012 GE13998X012
-	1/2 and 3/4 in. / 15 and 20 mm bodies 1 and 1-1/2 in. / 25 and 40 mm bodies 2 and 3 in. / 50 and 80 mm bodies	GE06770X012 GE02637X012
	For EPDM/ Stainless steel Diaphragm For PTFE/Fluorocarbon (FKM) Diaphragm	GE13994X012 GE29277X012

Key Description

Type SR8

10 Diaghragm Plate	Key	Description	Part Number	Key	Description	Part Number
2 And 3 in . / 50 and 80 mm bodies	10	Diaphragm Plate		19	Closing Cap	
2 and 3 in / 50 and 80 mm bodies CE1399X012 Plastic 2082X2012 1/2 and 3/4 in / 15 and 20 mm bodies CE1402X012 2 and 3 in / 50 and 80 mm bodies CE1402X012 2 and 3 in / 50 and 80 mm bodies CE1402X012 2 and 3 in / 50 and 80 mm bodies CE1402X012 2 and 3 in / 50 and 80 mm bodies CE0899X012 2 and 3 in / 50 and 80 mm bodies CE0899X012 2 and 3 in / 50 and 80 mm bodies CE0899X012 2 and 3 in / 50 and 80 mm bodies CE0899X012 2 and 3 in / 50 and 80 mm bodies CE0899X012 2 and 3 in / 50 and 80 mm bodies CE0899X012 2 and 3 in / 50 and 80 mm bodies CE0899X012 2 and 3 in / 50 and 80 mm bodies CE0899X012 2 and 3 in / 50 and 80 mm bodies CE0899X012 2 and 3 in / 50 and 80 mm bodies CE0899X012 2 and 3 in / 50 and 80 mm bodies CE0899X012 2 and 3 in / 50 and 80 mm bodies CE0899X012 2 and 3 in / 50 and 80 mm bodies CE0899X012 2 and 3 in / 50 and 80 mm bodies CE0899X012 2 and 3 in / 50 and 80 mm bodies CE257X012 2 and 3 in / 50 and 80 mm		1, 1-1/2 and 1-1/2 x 1 in. /			1/2, 3/4, 1 and 1-1/2 in. /	
11 Upper Spring Seal 1/2 and 3/4 in. / 15 and 20 mm bodies GE06773X012 22 and 3 in. / 50 and 80 mm bodies GE02639X012 21 Spring GE0428X012 22 and 3 in. / 50 and 80 mm bodies GE02639X012 21 Spring GE0428X012 22 and 3 in. / 50 and 80 mm bodies GE0898X012 22 and 3 in. / 50 and 80 mm bodies GE0898X012 21 Spring GE0898X012 22 and 3 in. / 50 and 80 mm bodies GE0898X012 22 and 3 in. / 50 and 80 mm bodies GE0898X012 22 and 3 in. / 50 and 80 mm bodies GE0898X012 23 and 3 in. / 50 and 80 mm bodies GE0898X012 23 and 3 in. / 50 and 80 mm bodies GE0898X012 24 and 3 in. / 50 and 80 mm bodies GE0		25, 40 and 40 x 25 mm bodies	GE02642X012		15, 20, 25 and 40 mm bodies	
1/2 and 3/4 in. / 15 and 20 mm bodies GE06773X012 2, and 3 in. / 50 and 80 mm bodies GE14028X012 2, and 3 in. / 50 and 80 mm bodies GE06898X012 22 Annaplate Cocking Lever 1/2 and 3/4 in. / 15 and 20 mm bodies GE0898X012 2, and 3 in. / 50 and 80 mm bodies GE0898X012 2,		2 and 3 in. / 50 and 80 mm bodies	GE13999X012		Stainless steel	1E5433X0032
1,1-1/2 and 1-1/2 x 1 in. / 2,5 40 and 40 x 25 mm bodies GE02639X012 21 Nameplate	11	Upper Spring Seat				20B3082X012
25, 40 and 40 x 25 mm bodies GE02639X012 21 Nameplate			GE06773X012			GE14028X012
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T-Handle GE08987X012 PEEK GE14010X022 1 and 1-1/2 in. / 25 and 40 mm bodies 29 Drive Screw (2 required) 1E953028982 Standard GE06080X012 32 Guide Ring Seal T-Handle GE08985X012 1/2 and 3/4 in. / 15 and 20 mm bodies GE18400X012 2 and 3 in. / 50 and 80 mm bodies 1 and 1-1/2 in. / 25 and 40 mm bodies GE18399X012 Standard GE14024X012 2 and 3 in. / 50 and 80 mm bodies GE11039X012			GE08849X012			GF14010X012
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T-Handle GE08985X012 1/2 and 3/4 in. / 15 and 20 mm bodies GE18400X012 2 and 3 in. / 50 and 80 mm bodies GE184024X012 1 and 1-1/2 in. / 25 and 40 mm bodies GE18399X012 Standard GE14024X012 2 and 3 in. / 50 and 80 mm bodies GE11039X012			GE06080X012		` ' '	
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Standard GE14024X012 2 and 3 in. / 50 and 80 mm bodies GE11039X012						
			GE14024X012			
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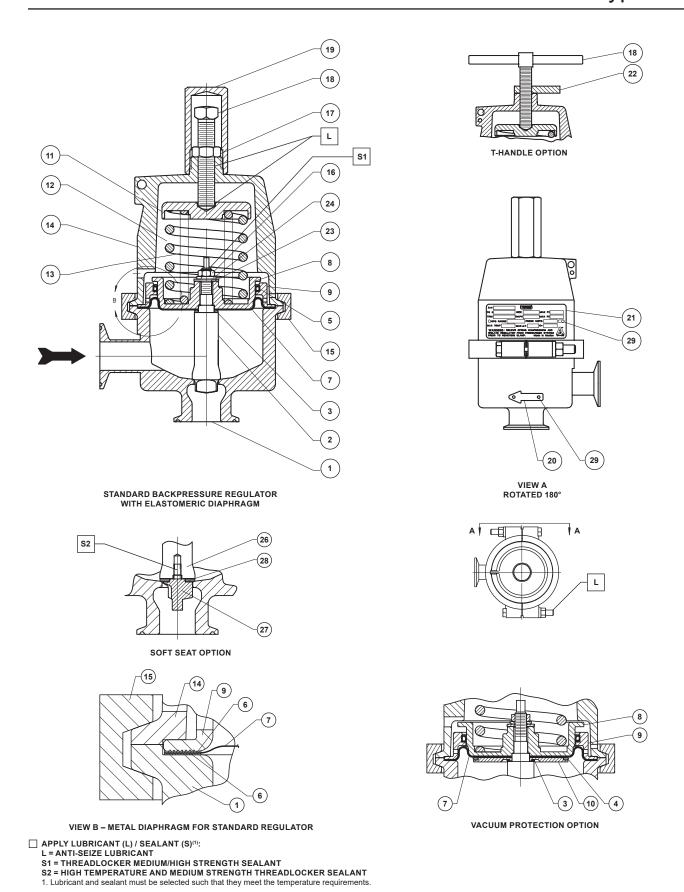
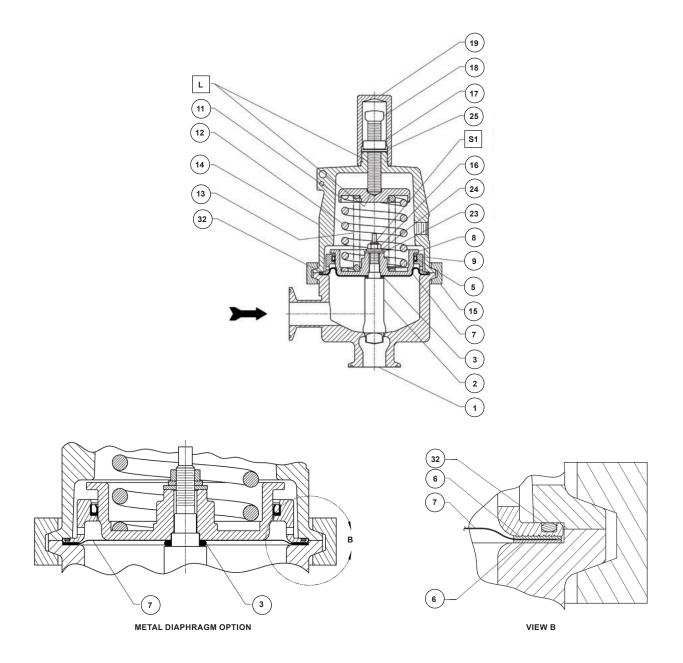
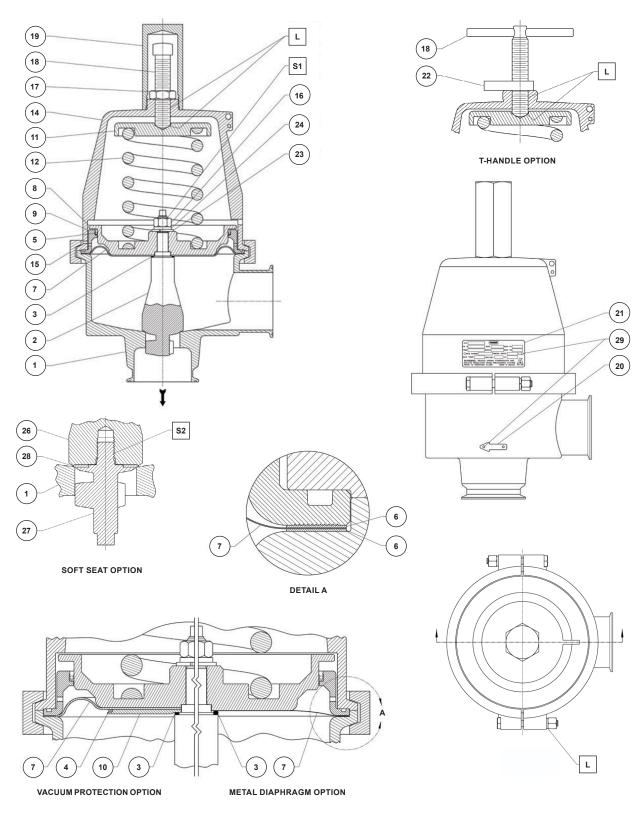


Figure 4. Type SR8 Backpressure Sanitary Regulator Assembly Drawing 1/2 through 1-1/2 In. / 15 through 40 mm Sizes



- □ APPLY LUBRICANT (L) / SEALANT (S)⁽¹⁾:
 L = ANTI-SEIZE LUBRICANT
 S1 = THREADLOCKER MEDIUM/HIGH STRENGTH SEALANT
 S2 = HIGH TEMPERATURE AND MEDIUM STRENGTH THREADLOCKER SEALANT
 1. Lubricant and sealant must be selected such that they meet the temperature requirements.

Figure 5. Type SR8 Sanitary Backpressure Regulator Assembly with Pressure Loaded Spring Case 1/2 through 1-1/2 In. / 15 through 40 mm Sizes



- APPLY LUBRICANT (L) / SEALANT (S)(1): L = ANTI-SEIZE LUBRICANT

 - \$1 = THREADLOCKER MEDIUM/HIGH STRENGTH SEALANT
 \$2 = HIGH TEMPERATURE AND MEDIUM STRENGTH THREADLOCKER SEALANT
 1. Lubricant and sealant must be selected such that they meet the temperature requirements.

Figure 6. Type SR8 Backpressure Sanitary Regulator Assembly Drawing 2 and 3 In. / 50 and 80 mm Sizes

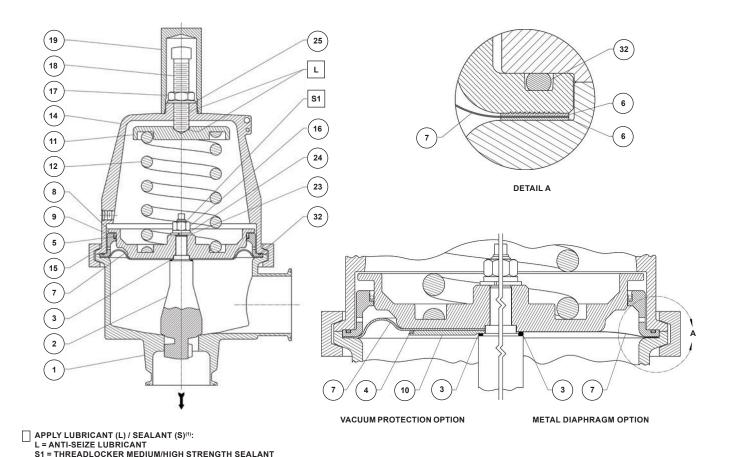


Figure 7. Type SR8 Sanitary Backpressure Regulator Assembly with Pressure Loaded Spring Case 2 and 3 In. / 50 and 80 mm Sizes

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S2 = HIGH TEMPERATURE AND MEDIUM STRENGTH THREADLOCKER SEALANT
1. Lubricant and sealant must be selected such that they meet the temperature requirements.

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