

ASME Compliant Safety Valves

**PRESSURE RELIEF VALVES
FOR CLEAN SERVICE
SERIES SRX**



Biotechnic

SANITARY PROCESS COMPONENTS

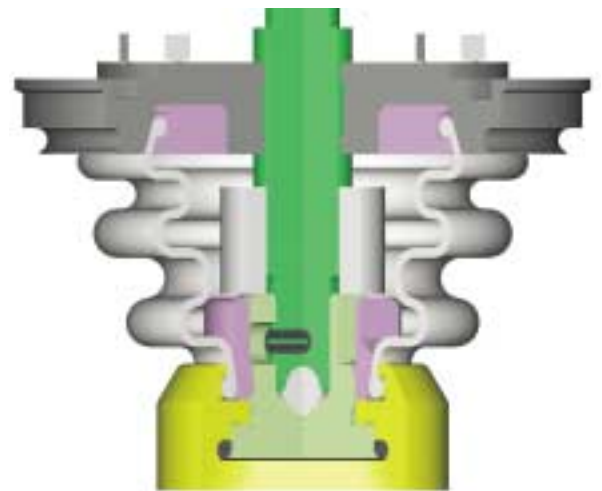
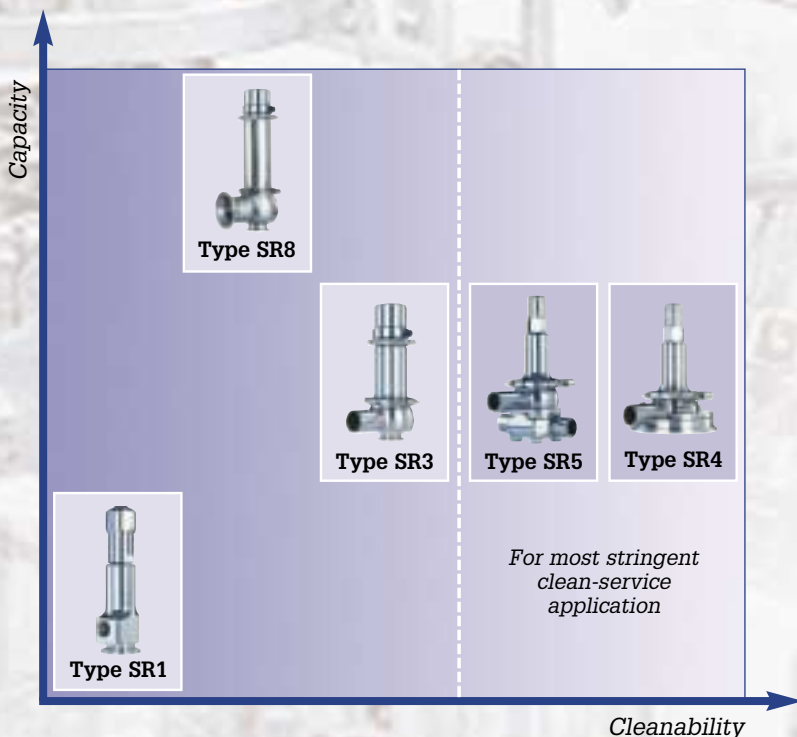
Series SRX

Pressure Relief Valves

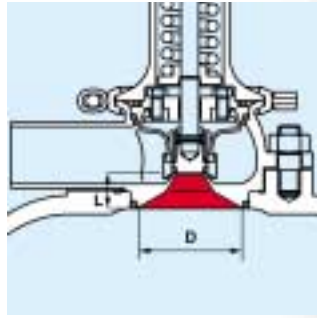
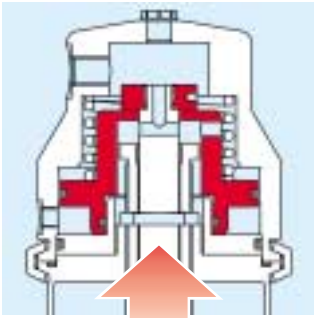
TYPE SR4
available with
vessel welding
pad mount



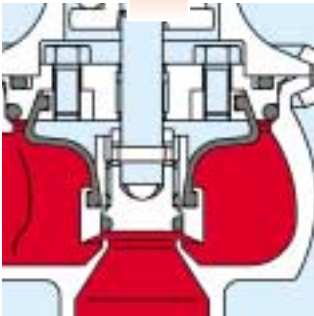
The SRX Series Pressure Relief Valves offer the ultimate in safety and sanitary design for clean service applications. These valves are designed to the stringent standards of ASME-CODE Sec. VIII, Div. 1 and BPE – 1997 Bioprocessing Equipment.



The sanitary O-ring disc is the heart of the SRX valves.
O-ring materials:
EPDM or Platinum-cured silicone.



Optimized L/D for best cleanability



CIP/SIP possible with manual or pneumatic lifting devices

APPLICATIONS

- Fermentor
- Bioreactors
- Pressure Vessel
- Fillers
- Storage Tanks

FEATURES

- Sanitary O-Ring Disc
- Flush Mounted
- Crevice Free
- Self Draining
- Manual or Pneumatic Lift Devices
- Single Trim for Steam, Gas and Liquid

BENEFITS

- No Dead Leg
- No Bacteria Traps
- CIP/SIP or COP
- Improved Leak Rate – Repeatably leak tightness for reseating after opening



TYPE SR5
standard sanitary clamp connections or inline welded with tee branch discharge



TYPE SR3
shown with optional pneumatic lift device for CIP/SIP



TYPE SR1
shown with optional manual lift device for CIP/SIP

SRX Pressure Relief Valves

PRODUCT DATA

BODY AND TRIM MATERIAL

ASME 316L standard.

Other materials upon request.

ELASTOMER MATERIAL

EPDM standard.

Platinum cured silicone.

USP Class VI and FDA compliant.

Other materials upon request.

SET PRESSURE RANGE

3.0–986 PSI

INLET SIZE

1" – 4" O.D.

CONNECTIONS

Inlet: SR1, SR3, SR5, SR8 available with standard sanitary clamp. *Other connections available upon request.*

SR4 available with vessel welding pad mount.

Outlet: Standard sanitary clamp. *Other connections available upon request.*

FINISH, PRODUCT CONTACT SURFACE

Meets BPE-1997 SFV6 surface requirements for mechanically polished and electropolished (MP/EP) valves, 20 u-in / 0.8 u-m Ra.



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Type	Size	Flow Diameter [mm]	Rated Slope		
			Gas SCFM/PSIA	Steam lb/hr / PSIA	Liquid GPM/ \sqrt{PSID}
SR1	1"	10	0.904	2.55	1.49
SR3	1"	13	1.96	5.52	4.96
SR3	1-1/2"	25	4.96	13.97	7.46
SR4	1"	13	1.96	5.52	4.96
SR4	1-1/2"	25	4.96	13.97	7.46
SR5	1"	13	1.96	5.52	4.96
SR5	1-1/2", 2"	25	4.96	13.97	7.46

Type	Size	Flow Diameter [mm]	Rated Coefficient of Discharge K	
			Gas + Steam	Liquid
SR8	1"	23	0.721 for p ≥ 30 psig*	0.472
SR8	1-1/2"	37		
SR8	2"	46		
SR8	2-1/2"	60		
SR8	3"	74		
SR8	4"	92		

PSIA: set pressure in psi absolute

PSID: set pressure in psig

*: 0.691 for 20 psig ≤ p < 30 psig

Type	Size (Tube O.D.)	Set Pressure Range		Aseptic Properties	
		(bar)	(psig)	Inlet	Outlet
SR1	1"	0.2...68	3.0...986	Minimized dead leg, crevice free	Free discharge
SR3	1", 1-1/2"	0.2...16	3.0...232	Minimized dead leg, crevice free	Free discharge, crevice free, fully drainable
SR8	1"...4"	0.2...16	3.0...232	Reduced dead leg, crevice free	Free discharge, crevice free, fully drainable
SR4	1", 1-1/2"	0.2...16	3.0...232	No dead leg, crevice free	Free discharge, crevice free, fully drainable
SR5	1", 1-1/2", 2"	0.2...16	3.0...232	No dead leg, crevice free	Free discharge, crevice free, fully drainable

In the interests of development and improvement of the product, we reserve the right to change the specifications.