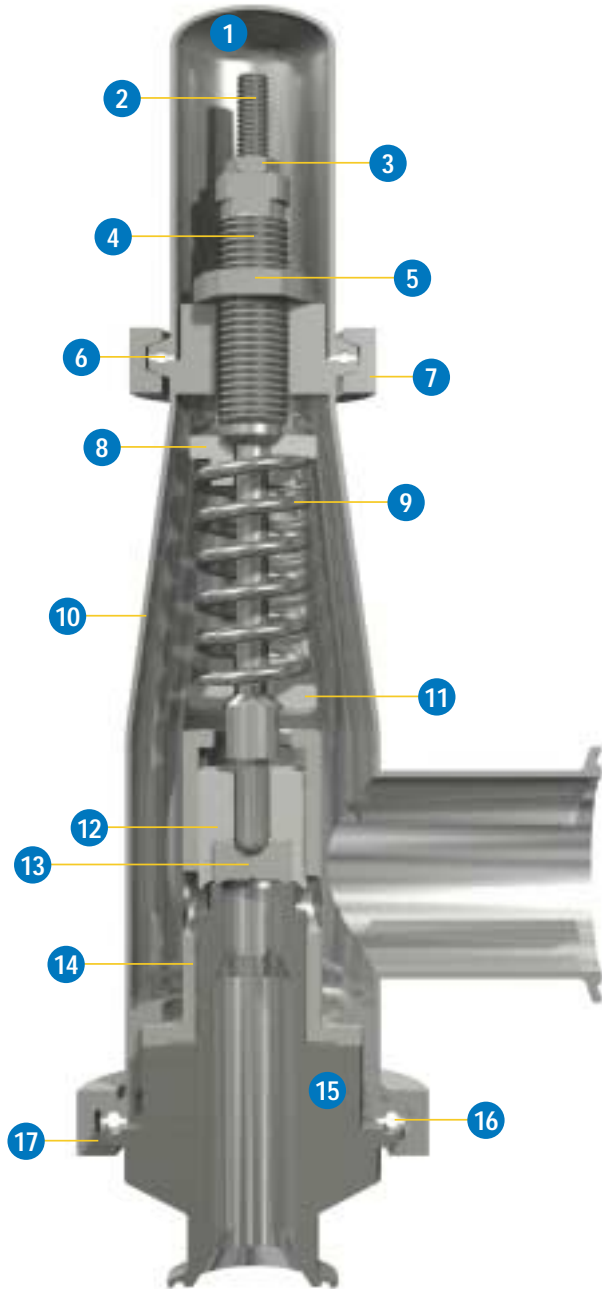


Materials

The 19000PF is designed for overpressure protection of systems containing clean steam, air or water. The stainless steel materials of the metal components provide superior corrosion resistance. [Extremely fine surface finishes on non-wetted components and electro-polished finishes on the base and disc wetted surfaces produces an easy to clean and contamination resistant design. For ease of cleaning and to resist contamination, surfaces of the non wetted parts are 30RA or finer finish and the wetted surfaces of the base and disc have a 15RA electropolished finish.]



Part	Material	
1	Cap	316L Stainless Steel
2	Spindle	316 Stainless Steel
3	Set Retainer Locknut	316 SS Teflon Inserted
4	Adjusting Screw	316 Stainless Steel
5	Adjusting Screw Locknut	316 Stainless Steel
6	Cap Sanitary Gasket	See Table Below
7	Sanitary Clamp	
	To 250°F - Hinged	304 Stainless Steel
	251°F to 400°F - Bolted	304 Stainless Steel
8	Spring Washer	316 Stainless Steel
9	Spring	316 Stainless Steel
10	Bonnet	316L Stainless Steel
11	Spring Washer	316 Stainless Steel
12	Disc Holder	316 Stainless Steel
13	Disc	
	Design Temp to 400°F	316L Stainless Steel
	Steam Service (Operating Temperature 251°F & Above)	Inconel X750
14	Guide	316L Stainless Steel
15	Base	316L Stainless Steel
16	Bonnet Sanitary Gasket	See Table Below
17	Sanitary Clamp	
	To 250°F - Hinged	304 Stainless Steel
	251°F to 400°F - Bolted	304 Stainless Steel
18	Packed Cap	316L Stainless Steel
19	Release Locknut	316 Stainless Steel
20	Release Nut	316 Stainless Steel
21	O-Ring	Teflon
22	Cam Shaft	316 Stainless Steel
23	Drive Pin	316L Stainless Steel
24	Washer	Teflon
25	Bushing	316 Stainless Steel
26	Lever	316 Stainless Steel
*27	Nameplate	Stainless Steel
*28	Nameplate Screws	Stainless Steel

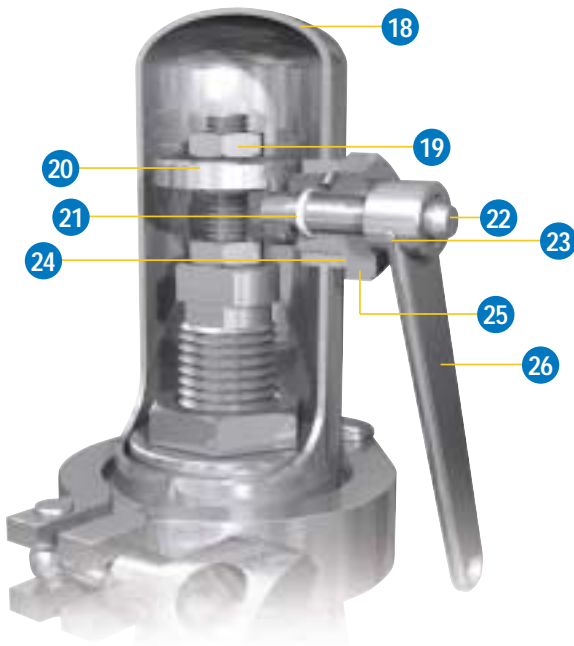
*not shown

Sanitary Gasket Material Selections:

- Silicone
- Ethylene-propylene-diene rubber
- Steam Resistant Fluoroelastomer
- Nitrile

Consult factory for other options.

Materials



Optional Packed Cap with Lever

Optional Sanitary Clamps Inlet and Outlet Connections



Hinged Clamp
Temperature to 250°F



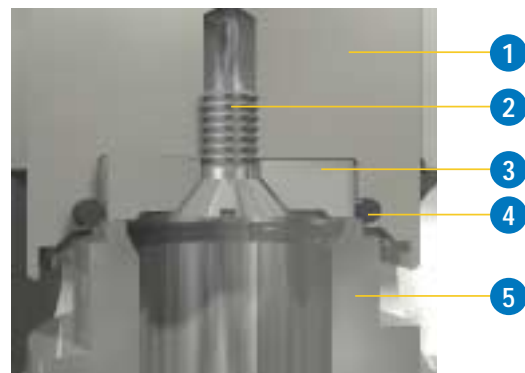
Bolted Clamp
Temperature from 251°F to 400°F

Design

With the **Consolidated** O-Ring seat seal design, the spring seat load is absorbed by metal-to-metal contact outside of the O-Ring contact surface. Tightness is obtained by using an O-Ring as a resilient seal.

O-Ring Materials

- Nitrile
- Ethylene Propylene
- Fluorocarbon (Viton)
- Neoprene
- Silicone
- Teflon
- Kalrez
- Chemraz



Part	Material
1	O-Ring Disc Holder 316 Stainless Steel
2	Retainer Lock Screw 316 Stainless Steel w/Nylon Locking Feature
3	O-Ring Retainer 316 Stainless Steel
4	O-Ring Seat Seal See Selection 5, SRV-Catalog for Selection Guidelines
5	O-Ring Base 316 Stainless Steel

NOTE: ASME Section VIII requires lifting levers for steam, air and water applications over 140°F.

**RECOMMENDED SPARE PARTS - SAFETY RELIEF VALVES
19000PF**

SRV/SPRL - 1/02
Effective June, 2002
Supercedes SRV / SPRL - 1/01
Dated April, 2001
Section 6, Page 2

CLASS	PART NAME		QTY PARTS/SAME VALVES IN SERV. (MINIMUM)	QTY PARTS/SAME VALVES IN SERV. (MAXIMUM)	PREDICTED AVAILABILITY
I.	DISC		1 / 3	1 / 1	70%
	O-ring Retainer		1 / 3	1 / 1	
	Retainer Screw		1 / 3	1 / 1	
	O-ring		1 / 1	1 / 1	
	Washer - Teflon		1 / 1	1 / 1	
	O-ring bushing - Teflon		1 / 1	1 / 1	
	Sanitary Gasket		1 SET / 5	1 / 1	
II.	Disc Holder		1 / 10	1 / 5	85%
	Guide		1 / 10	1 / 5	
	Spindle		1 / 10	1 / 5	
III.	Adjusting Ring		1 / 10	1 / 5	95%
	Spring Assembly				
	(1) Spring		NOTE 1	NOTE 1	
	(1) Upper Washer		NOTE 1	NOTE 1	
	(1) Lower Washer		NOTE 1	NOTE 1	
	Adjusting Screw		1 / 3	1 / 1	
	Base		1 / 10	1 / 5	

Note 1: Must be purchased as a mated set

SAFETY RELIEF VALVE SPARE PARTS REFERENCE LIST
19000PF-2 SERIES SRV - Metal Seat

LOW PRESSURE DESIGN .						
PART DESCRIPTION	19096	19110	19126	19226	19357	19567
CLASS I						
1. DISC - Metal Seat						
316 SS (if steam <251F) Limit 400	5066902		5067002	5067102	5067202	5067302
Inconel	5066903		5067003	5067103	5067203	5067303
2. Sanitary Gasket (2)						
a. Temp <= 250F						
Cap Gasket		5038402			5038403	
Bonnet Gasket		5038403			5038405	
b. Temp > 250F						
Cap Gasket		5038420			5038421	
Bonnet Gasket		5038421			5038423	
3. O-ring bushing-packed lever assembly						
Teflon		31015011				
CLASS II						
4. DISC HOLDER						
316 SS	5055101		5055201	5055301	5055401	5055501
5. SPINDLE						
316 SS		5067401		5067501	5067601	
6. GUIDE						
316 SS		5018103		5021603	5022203	5022703
					Call Factory	
CLASS III						
7. SPRING						
SELECT FROM SPRING CHART						
7a. SPRING WASHER						
316ss (qty 2)		4842502		4842602	4842702	
8. ADJUSTING SCREW						
316 SS		5009801			4466202	
9. BASE						
316 SS				5068002	5068102	5068202
1/2 * 1	6013902					
3/4 * 1	6014002	6014202	6014302			
1 * 1	6014202	5068702	5067902			

SAFETY RELIEF VALVE SPARE PARTS REFERENCE LIST
19000PF-2 SERIES SRV (Metal Seat)

LOW PRESSURE DESIGN						
PART DESCRIPTION	19096	19110	19126	19226	19357	19567
CLASS IV						
10. ADJ. SCREW LOCK NUT						
316 SS		0554703			1077105	
11. Set Retaining Locknut		5048001			5048101	
12. CAPS & LEVERS						
12A. CAP-Sanitary						
316SS		6020301			6010701	
12B. CAP-PACKED LEVER ASSEMBLY						
316SS		6020501			6010901	
12B.i. RELEASE NUT-PACKED						
316ss		4810102			4466102	
12B.ii. REL. LOCK NUT - PACKED						
316 SS						
12B.iii. Cam Shaft		385603			385603	
12B.iv. Gasket			3710118			
12B.v. Pin			2110843			
13. Sanitary Clamp						
13A. Cap Clamp - Hinged <251F		5038501			5038502	
13B. Cap Clamp - bolted >250F		5038601			5038602	
13C. Bonnet Clamp - Hinged < 251F		5038502			5038504	
13D. Bonnet Clamp - Hinged > 250F		5038602			5038604	

SAFETY RELIEF VALVE SPARE PARTS REFERENCE LIST

19000PF-2 SERIES SRV - O-Ring Seat

for parts not listed see Metal Seat

LOW PRESSURE DESIGN .						
PART DESCRIPTION	19096	19110	19126	19226	19357	19567
1. Soft Seat						
1a. O ring retainer 316ss	5078002		5078102	5078202	5078302	5078402
1b. Retainer Screw 316ss	5078502			5078504	5078506	
1c. O ring	310XX013		310XX014	310XX017	310XX118	310XX121
CLASS II						
4. DISC HOLDER						
316 SS	4870901		4871001	4871101	4871201	4871301
5. SPINDLE						
316 SS		5047701		5047801	5047901	
9. O'ring seat						
316 SS				5071702	5071802	5071902
1/2 * 1	5071002					
3/4 * 1	5071102	5071302	5071502			
1 * 1	5071202	5071402	5071602			