

### SRV18/25/38 ASME Soft Seat Safety Valve

Applications: Small Air Compressors with High Flow Requirements



- Pressure Range: 25 to 450 psi
- Set Pressure Tolerances:  $\pm$  3% of Set Pressure
- Temperature Range: -65 F to 400 F
- Construction: Seat Cap and Piston C360 Brass (ASTM B-16), 7-7 Stainless Steel Spring and Silicone Seal
- Bubble Tight to Within 5 psig for Set pressure 50 psig or Less, Bubble Tight to Within 10% for Set Pressures Greater than 50 psig. 100% Testing or 2.5 AQL Sample Testing, Conforming to AP1 527
- Stamped with the UV and NB Symbols
- Sealant Standard
- BSPT Threads Available

Part No.	NPT	Height	Hex	Wt. (lbs.)
SRV18	1/8"	1.75"	11/16"	0.150
SRV25	1/4"	1.75 "	11/16"	0.150
SRV38	3/8"	1.75 "	11/16"	0.150

### SRV187 ASME Soft Seat Safety Valve

Applications: Compact Size Low Flow



- Stock Pressure Range: **75, 125, 145, 150, 165, 200, 225** Other Pressures Available Up to 250 psi
- Set Pressure Tolerances:  $\pm$  3% of Set Pressure
- Temperature Range: -65 F to 400 F
- Construction: Seat Cap and Piston C360 Brass (ASTM B-16), 17-7 Stainless Steel Spring and Silicone Seal
- Bubble Tight to Within 5 psig for Set pressure 50 psig or Less, Bubble Tight to Within 10% for Set Pressures Greater than 50 psig. 100% Testing or 2.5 AQL Sample Testing, Conforming to AP1 527
- Stamped with the UV and NB Symbols
- Sealant Standard
- BSPT Threads Available

Part No.	NPT	Height	Hex	Wt. (lbs.)
SRV187-18	1/8"	1.70"	9/16"	0.064
SRV187-25	1/4"	1.70"	9/16"	0.064

### SRV390 ASME Soft Seat Safety Valve

Applications: Standard Flow Capacities



- Pressure Range: 25 to 300 psi
- Set Pressure Tolerances: 3% of Set Pressure
- Temperature Range: -65 F to 400 F
- Construction: Seat Cap and Piston C360 Brass (ASTM B-16), 17-7 Stainless Steel Spring and Silicone Seal
- Bubble Tight to Within 5 psig for Set pressure 50 psig or Less, Bubble Tight to Within 10% for Set Pressures Greater than 50 psig. 100% Testing or 2.5 AQL Sample Testing, Conforming to AP1 527
- Stamped with the UV and NB Symbols
- Sealant Standard
- BSPT Threads Available

Part No.	NPT	Height	Hex	Wt. (lbs.)
SRV390	1/2"	2.69"	7/8"	.281

### SRV530 ASME Soft Seat Safety Valve

Applications: High Flow Requirements



- Pressure Range: 25 to 300 psi
- Set Pressure Tolerances:  $\pm 3\%$  of Set Pressure
- Temperature Range: -65 F to 400 F
- Construction: Seat Cap and Piston C360 Brass (ASTM B-16), 17-7 Stainless Steel Spring and Silicone Seal
- Bubble Tight to Within 5 psig for Set pressure 50 psig or Less, Bubble Tight to Within 10% for Set Pressures Greater than 50 psig
- Stamped with the UV and NB Symbols
- BSPT Threads Available

Part No.	NPT	Height	Hex	Wt. (lbs.)
SRV530-50	1/2"	3.66"	1-1/16"	.608
SRV530-75	3/4"	3.69"	1-1/16"	.608

### SRV765 ASME Soft Seat Safety Valve

Applications: High Flow Requirements



- Pressure Range: 25 to 300 psi
- Set Pressure Tolerances:  $\pm 3\%$  of Set Pressure
- Temperature Range: -65 F to 400 F
- Construction: Seat Cap and Piston C360 Brass (ASTM B-16), 17-7 Stainless Steel Spring and Silicone Seal
- Bubble Tight to Within 5 psig for Set pressure 50 psig or Less, Bubble Tight to Within 10% for Set Pressures Greater than 50 psig
- Stamped with the UV and NB Symbols
- BSPT Threads Available

Part No.	NPT	Height	Hex	Wt. (lbs.)
SRV765-10	1"	4.47"	1-5/8"	1.412
SRV765-12	1-1/4"	4.47"	1-11/16"	1.412

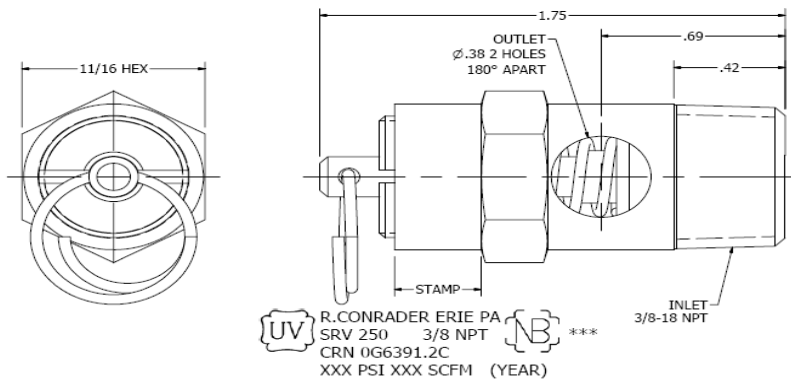
**Conrader Soft Seat Safety Valve Capacity Chart**

PSIG	SRV 18/25/38	SRV187	SRV390	SRV530	SRV765	PSIG	SRV 18/25/38	SRV187	SRV390	SRV530	SRV765
25	31	17	66	143	304	205	177	98	372	804	1713
30	35	19	73	159	340	210	181	100	380	823	1752
35	39	21	82	178	379	215	185	102	389	841	1791
40	43	24	90	196	418	220	189	105	397	859	1831
45	47	26	99	215	457	225	194	107	406	878	1870
50	51	28	108	233	497	230	198	109	414	896	1909
55	55	30	116	251	536	235	202	112	423	915	1948
60	59	33	125	270	575	240	206	114	431	933	1987
65	63	35	133	288	614	245	210	116	440	952	2027
70	67	37	142	307	654	250	214	118	449	970	2066
75	71	39	150	325	693	255	218	—	457	988	2105
80	75	42	159	344	732	260	222	—	466	1007	2144
85	80	44	167	362	771	265	226	—	474	1025	2184
90	84	46	176	380	811	270	230	—	483	1044	2223
95	88	48	184	399	850	275	234	—	491	1062	2262
100	92	51	193	417	889	280	238	—	500	1081	2301
105	96	53	201	436	928	285	242	—	508	1099	2341
110	100	55	210	454	967	290	246	—	517	1117	2380
115	104	57	218	473	1007	295	251	—	525	1136	2419
120	108	60	227	491	1046	300	255	—	534	1154	2458
125	112	62	235	509	1085	305	259	—	—	—	—
130	116	64	244	528	1124	310	263	—	—	—	—
135	120	66	252	546	1164	315	267	—	—	—	—
140	124	69	261	565	1203	320	271	—	—	—	—
145	128	71	270	583	1242	325	275	—	—	—	—
150	132	73	278	601	1281	330	279	—	—	—	—
155	137	75	287	620	1321	335	283	—	—	—	—
160	141	78	295	638	1360	340	287	—	—	—	—
165	145	80	304	657	1399	345	291	—	—	—	—
170	149	82	312	675	1438	350	295	—	—	—	—
175	153	84	321	694	1477	360	303	—	—	—	—
180	157	87	329	712	1517	370	312	—	—	—	—
185	161	89	338	730	1556	380	320	—	—	—	—
190	165	91	346	749	1595	390	328	—	—	—	—
195	169	93	355	767	1634	400	336	—	—	—	—
200	173	96	363	786	1674	410	344	—	—	—	—
—	—	—	—	—	—	420	352	—	—	—	—
—	—	—	—	—	—	430	360	—	—	—	—
—	—	—	—	—	—	440	369	—	—	—	—
—	—	—	—	—	—	450	377	—	—	—	—

CONRADER TECHNICAL DATA

**PRODUCT TECHNICAL DATA**

SRV38 3/8" Soft Seat Safety Valve					
VALVE MODEL #:	SRV250-38	ISSUE DATE:	02/24/06	REVISION #:	0000
		REVISION DATE	08/01/10	REVISED BY:	NRP
SET PRESSURE RANGE		MINIMUM	25 PSIG	MAXIMUM	450 PSIG
SET PRESSURE TOLERANCE		MINIMUM	-3%	MAXIMUM	+3%
SEAT LEAKAGE	Bubble Tight Within 5 psig for Set Pressure 50 psig Or Less Bubble Tight Within 10% for Set Pressure Greater Than 50 psig 100% Testing or 2.5 AQL Sample Testing, Conforming to API 527				
OPERATING TEMPERATURE		MINIMUM	-65F	MAXIMUM	400F
FLOW FACTOR (SLOPE METHOD)				SLOPE	0.74
PRODUCT WEIGHT				Lbs.	0.15
MATERIALS OF CONSTRUCTION	Seat Cap & Piston		C360 Brass (ASTM B-16 )		
	Spring		17-7 Stainless Steel		
	Seal		Silicone		
PROCESS CONNECTIONS	Inlet		3/8 NPT, 3/8 BSPT		
CERTIFICATIONS	ASME Boiler & Pressure Vessel Code Section VIII Division I CSA B51-03 Boiler, Pressure, Vessel, and Pressure Piping Code				



## Operation Guidelines for Safety Valves

### Safety Relief Valve Pointers

- ASME Codes require that valves for air, steam and water service over 140 °F (60 °C) have test levers or pull rings.
- The safety valve is designed to protect equipment from overpressure. The valve should be handled with care, not subjected to heavy shock loads and protected from contamination. It should be installed as instructed below and correctly as to ASME Boiler and Pressure Code requirements. **FAILURE TO THIS CAN RESULT IN DAMAGE TO PROPERTY OR SERIOUS BODILY INJURY**
- Safety relief valves should be installed vertically with the drain holes open. Horizontal mounting could affect the alignment of the moving parts and hinder the operation of the valve. The valve should be installed in a location that will not direct the discharge air at nearby personnel. Mount the valve in a location that will subject it to the least amount of vibration. Vibration can cause the valve disc or piston to move against the seat which could possibly damage the valve and cause it to leak.
- When installing the valve care should be taken not to damage or distort the valve. Use only the wrench flats closest to the bottom of the valve during installation and use the proper size wrench to avoid damage to the surface of the valve and to prevent distortion which can interfere with the valve operation or may change the set pressure. Do not over tighten.
- ASME certified valves are factory sealed and are required to be used with ASME certified pressure vessels or systems. ASME certified valves can also be used in non certified or non-code systems.

### Maintenance

- Develop a regular program of visual inspection, looking for clogged drains and discharge, dirt build-up in and around the valve seat and broken or missing parts or seals.
- Test the valve every six to twelve months (depending on the plant's age and condition) by operating the pull ring.
- Do not paint, oil or otherwise cover any exterior, interior or working parts of any safety valve. They do not require any lubrication or protective coating to work properly.
- When safety/relief valves require repair, service adjustments, or set pressure changes, work must be accomplished by the manufacturer or holders of "UV" Stamp.