

SRH18/25/38 ASME Hard Seat Safety Valve

Applications: Higher Temperature i.e. After Coolers & Intercoolers



- Pressure Range: 50 to 350 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), 302 Stainless Steel Spring and 440 Stainless Steel Ball
- No Audible Leak at 45% Set Pressure at 25-74 psig, No Audible Leak at 90% Set Pressure Above 74 psig
- Stamped with the UV and NB Symbols
- Sealant Standard
- BSPT Threads Available

Part No.	NPT	Height	Hex	Wt. (lbs.)
SRH18	1/8"	1.99"	11/16"	.123
SRH25	1/4"	1.99"	11/16"	.123
SRH38	3/8"	1.99"	11/16"	.123

SRH375 ASME Hard Seat Safety Valve

Applications: Higher Temperature i.e. After Coolers & Intercoolers



- Pressure Range: 50 to 350 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), 302 Stainless Steel Spring and 440 Stainless Steel Ball
- No Audible Leak at 45% Set Pressure at 25-74 psig, No Audible Leak at 90% Set Pressure Above 74 psig
- Stamped with the UV and NB Symbols
- Sealant Standard
- BSPT Threads Available

Part No.	NPT	Height	Hex	Wt. (lbs.)
SRH375	1/2"	3.41"	7/8"	.405

SRH580 ASME Hard Seat Safety Valve

Applications: Higher Temperature i.e. After Coolers & Intercoolers



- 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), 302 Stainless Steel Spring and 440 Stainless Steel Ball
- No Audible Leak at 45% Set Pressure at 25-74 psig, No Audible Leak at 90% Set Pressure Above 74 psig
- Stamped with the UV and NB Symbols
- BSPT Threads Available

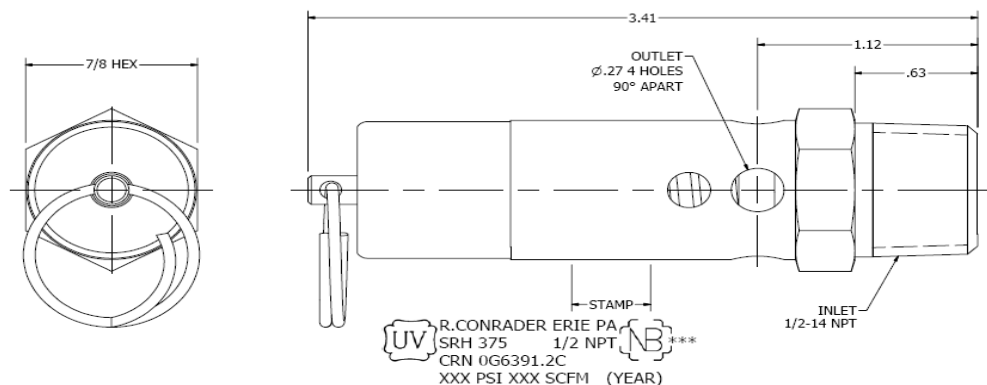
Part No.	NPT	Height	Hex	Wt. (lbs.)
SRH580-75	3/4"	5.04"	1-3/16"	.717
SRH580-10	1"	5.35"	1-3/8"	.717

Conrader Hard Safety Valve Capacity Chart

PSIG	SRH18/25/38	SRH375	SRH580	PSIG	SRH18/25/38	SRH375	SRH580
25	—	—	142	205	172	401	799
30	—	—	158	210	176	410	818
35	—	—	177	215	180	419	836
40	—	—	195	220	184	428	854
45	—	—	213	225	188	437	873
50	50	116	232	230	192	447	891
55	54	125	250	235	196	456	909
60	58	134	268	240	200	465	928
65	62	143	287	245	204	474	946
70	66	153	305	250	208	483	964
75	69	162	323	255	212	492	983
80	73	171	341	260	216	502	1001
85	77	180	360	265	220	511	1019
90	81	189	378	270	224	520	1037
95	85	199	396	275	228	529	1056
100	89	208	415	280	232	538	1074
105	93	217	433	285	236	548	1092
110	97	226	451	290	240	557	1111
115	101	235	470	295	244	566	1129
120	105	244	488	300	248	575	1147
125	109	254	506	305	252	584	—
130	113	263	525	310	256	594	—
135	117	272	543	315	260	603	—
140	121	281	561	320	264	612	—
145	125	290	580	325	267	621	—
150	129	300	598	330	271	630	—
155	133	309	616	335	275	639	—
160	137	318	635	340	279	649	—
165	141	327	653	345	283	658	—
170	145	336	671	350	287	667	—
175	149	346	689	—	—	—	—
180	153	355	708	—	—	—	—
185	157	364	726	—	—	—	—
190	161	373	744	—	—	—	—
195	165	382	763	—	—	—	—
200	168	391	781	—	—	—	—

PRODUCT TECHNICAL DATA

SRH375 1/2" Hard Seat Safety Valve					
VALVE MODEL #:	SRH375	ISSUE DATE:	02/24/06	REVISION #:	0000
		REVISION DATE	08/10/10	REVISED BY:	JPC
SET PRESSURE RANGE		MINIMUM	50 PSIG	MAXIMUM	350 PSIG
SET PRESSURE TOLERANCE		MINIMUM	-3%	MAXIMUM	+3%
SEAT LEAKAGE		No Audible Leak at 45% Set Pressure at 25-74 psig No Audible Leak at 90% Set Pressure Above 74 psig			
OPERATING TEMPERATURE		MINIMUM	-65F	MAXIMUM	400F
FLOW FACTOR (SLOPE METHOD)				SLOPE	1.67
PRODUCT WEIGHT				Lbs.	0.405
MATERIALS OF CONSTRUCTION		Seat Cap & Piston	C360 Brass (ASTM B-16)		
		Spring	302 Stainless Steel		
		Seal	440C Stainless Steel Ball		
PROCESS CONNECTIONS		Inlet	1/2 NPT, 1/2 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.