

# Reduced Capacity Safety Relief Valves

## Data Sheet

Type: SRH1R, SRH3R, SRH3UR, and SRH4R



## Purpose:

Reduced capacity safety relief valves are conventional, direct spring loaded safety relief valves, designed and constructed to meet the requirements of Section VIII ASME Boiler and Pressure Vessel Code and ANSI/ASHRAE 15 Code requirements and bear the ASME Code Symbol (UV).

These valves are based off of the popular SRH series of safety relief valves and features the same lay in length. The reduced capacity allows for smaller relief piping to be used and provides a more cost effective solution.



## Contact Information:

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## Product Features:

- Suitable for ammonia and halocarbon refrigerants
- ASME Boiler and Pressure Vessel Code, Section VIII, Division 1 compliant
- ANSI/ASHRAE 15 safety standard for refrigeration systems
- All stainless steel internal parts
- Non-stick PTFE seat
- Can be used with the M1 manifold in a dual relief arrangement
- Set pressure tolerance of  $\pm 3\%$
- Unaffected by vibration
- Excellent repeatability



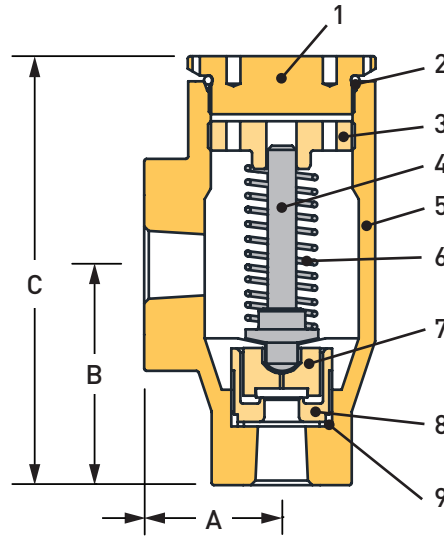
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## Technical Data

- Ambient Temperature:  
-40°C to 150°C (-40°F to 300°F)
- Maximum Rated Pressure:  
28 bar (400 psig)
- Pressure Settings Range:  
10.3 to 27.6 bar (150 to 400 psig)  
±3% set pressure tolerance

### Important:

Recommended sizing guidelines should follow local codes ANSI/ASHRAE 15, IIAR, ASME Section VIII Division 1 and API-520.



No.	Part Description	Material
1	Cap	Steel
2	O-ring, Cap	Neoprene
3	Plate, Spring	Stainless Steel
4	Stem	Stainless Steel
5	Valve Body	Ductile Iron
6	Spring	Stainless Steel
7	Disc/Holder	PTFE/Stainless Steel
8	Seat, Valve	Stainless Steel
9	Gasket, Seat	Non-Asbestos Gylon

**Cross-Section: Reduced Capacity Safety Relief Valve**

Valve Type	Inlet Connection (FPT)	Outlet Connection (FPT)	Orifice Diameter	Dimensions		Pressure Setting	Flow Capacity (air)	
	Inch	Inch	Inch	Inch		psig	Lbs. per min	SCFM
SRH1R	1/2	3/4	0.5	A	1.56	150	31	410
						200	41	535
				B	2.75	250	50	661
						300	60	786
						350	69	911
SRH3R	3/4	1	0.5	A	1.56	150	22	284
						200	28	371
				B	2.75	250	35	458
						300	41	545
						350	48	632
SRH3UR	3/4	1	0.5	A	1.56	150	10	135
						200	13	176
				B	2.75	250	17	217
						300	20	259
						350	23	300
SRH4R	1	1-1/4	0.409	A	2.25	150	27	359
						200	36	469
				B	4.11	250	44	579
						300	52	689
						350	61	799
C	7.40	400	69	909				