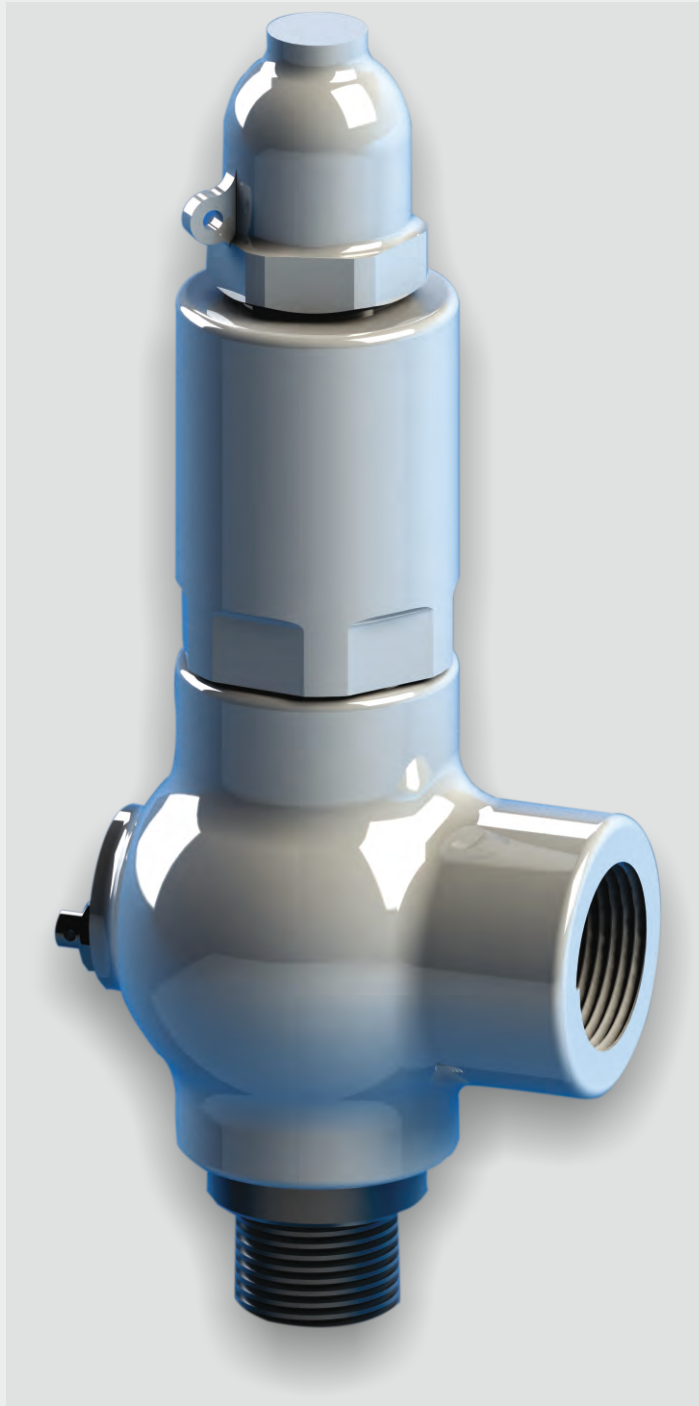


**SR-08 API 520/527**  
Safety Relief Valve

**SECURAMAX<sup>®</sup>**  
*Nirmal Safety Valve Division*



*Nirmal*  <sup>TM</sup>

**INDUSTRIAL CONTROLS PVT. LTD.**

*Expertise that delivers*

**FULL LIFT AND FULL/MODIFIED NOZZLE GAS, LIQUID and CRYOGENIC SERVICE**  
**SCREWED: 1/2" TO 1.1/2" FLANGED: ANSI 150 TO 2500 SET PRESSURE: UPTO 420 Barg**



**SR-08 Safety Relief Valve Screwed**

### DESIGN FEATURE

- End connection screwed (BSP or NPT) or Flanged
- Adjusting ring
- Inlet connection screwed male or female
- Screwed full nozzle
- Flanges according to ANSI B 16.5
- ISO PN Flanges (On Request)
- Suitable for thermal relief application
- Nozzle and Disc Stellite
- Metal to Metal or Soft Seat

### TECHNICAL SPECIFICATION

#### Body Materials

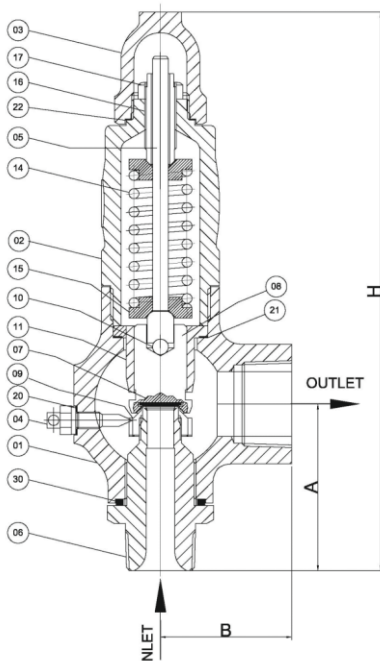
- Carbon Steel
- Stainless Steel
- Cr Mo Steel
- Low temperature Steel
- Nickel Copper Alloy
- Alloy 20



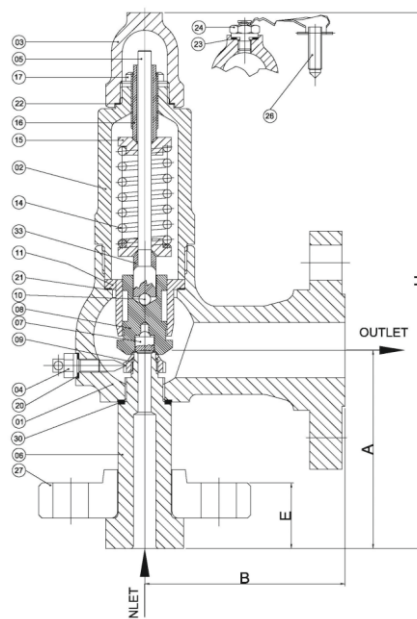
**SR-08 Safety Relief Valve Flanged**

### ACCESSORIES

- Test Gag
- Lifting Lever



**08 Series Valve:**  
**Screwed End Connection**



**08 Series Valve:**  
**Flanged End Connection**

**SR-08 VALVE SELECTION GUIDE**

MODEL NAME	
Series SR08	<input type="checkbox"/>

INLET SIZE	
½"	<input type="checkbox"/>
¾"	<input type="checkbox"/>
1"	<input type="checkbox"/>
1½"	<input type="checkbox"/>

OUTLET SIZE	
½"	<input type="checkbox"/>
¾"	<input type="checkbox"/>
1"	<input type="checkbox"/>
1½"	<input type="checkbox"/>

INLET END RATING	
150#	<input type="checkbox"/>
300#	<input type="checkbox"/>
600#	<input type="checkbox"/>
900#	<input type="checkbox"/>
1500#	<input type="checkbox"/>
2500#	<input type="checkbox"/>
Screwed-NPT(M)	<input type="checkbox"/>
Screwed-NPT(F)	<input type="checkbox"/>
Screwed-BSP(M)	<input type="checkbox"/>
Screwed-BSP(F)	<input type="checkbox"/>
Table - F	<input type="checkbox"/>
EN / ISO	<input type="checkbox"/>

OUTLET END RATING	
150#	<input type="checkbox"/>
300#	<input type="checkbox"/>
600#	<input type="checkbox"/>
900#	<input type="checkbox"/>
1500#	<input type="checkbox"/>
2500#	<input type="checkbox"/>
Screwed-NPT(M)	<input type="checkbox"/>
Screwed-NPT(F)	<input type="checkbox"/>
Screwed-BSP(M)	<input type="checkbox"/>
Screwed-BSP(F)	<input type="checkbox"/>
Table - F	<input type="checkbox"/>
EN / ISO	<input type="checkbox"/>

ORIFICE	
B	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>
F	<input type="checkbox"/>
G	<input type="checkbox"/>

SPECIAL REQUIREMENT - 1	
Conventional	<input type="checkbox"/>
Open Bonnet	<input type="checkbox"/>
Others	<input type="checkbox"/>

SPECIAL REQUIREMENT - 2	
Lever	<input type="checkbox"/>
Test Gag	<input type="checkbox"/>
Stelliting	<input type="checkbox"/>
Lever + Test Gag	<input type="checkbox"/>
Lever + Stelliting	<input type="checkbox"/>
Lever + Test Gag + Stelliting	<input type="checkbox"/>
Test Gag + Stelliting	<input type="checkbox"/>
Any Special	<input type="checkbox"/>
Without Accessories	<input type="checkbox"/>
Weather Hood	<input type="checkbox"/>

CERTIFICATION TYPE	
3.1 Certification	<input type="checkbox"/>
3.2 Certification	<input type="checkbox"/>
IBR 1950	<input type="checkbox"/>
PESO-CCOE	<input type="checkbox"/>
ASME-UV Stamp	<input type="checkbox"/>
NB Stamp	<input type="checkbox"/>

PAINTING TYPE	
Standard Paint	<input type="checkbox"/>
Customer Specific	<input type="checkbox"/>

BODY MATERIAL	
A216 Gr. WCB	<input type="checkbox"/>
A351 Gr. CF8	<input type="checkbox"/>
A351 Gr. CF8M	<input type="checkbox"/>
A351 Gr. CF3	<input type="checkbox"/>
A351 Gr. CF3M	<input type="checkbox"/>
A352 Gr. LCB	<input type="checkbox"/>
A217 Gr. WC6	<input type="checkbox"/>
A351 Gr. CN7M	<input type="checkbox"/>
Others	<input type="checkbox"/>

NOZZLE MATERIAL	
A351 Gr. CF8	<input type="checkbox"/>
A351 Gr. CF8M	<input type="checkbox"/>
A351 Gr. CF3	<input type="checkbox"/>
A351 Gr. CF3M	<input type="checkbox"/>
A479 Gr. SS304	<input type="checkbox"/>
A479 Gr. SS316	<input type="checkbox"/>
A479 Gr. SS304L	<input type="checkbox"/>
A479 Gr. SS316L	<input type="checkbox"/>
Hastalloy C	<input type="checkbox"/>
Monel	<input type="checkbox"/>
Others	<input type="checkbox"/>

O-RING	
Not Applicable	<input type="checkbox"/>

BODY Testing Requirements	
Radiography	<input type="checkbox"/>
Ultrasonic	<input type="checkbox"/>
MPT	<input type="checkbox"/>
Dye Penetrant	<input type="checkbox"/>
NACE MR 0175/ISO15156	<input type="checkbox"/>
NACE MR 0103	<input type="checkbox"/>
PMI	<input type="checkbox"/>
IGC A	<input type="checkbox"/>
IGC B	<input type="checkbox"/>
IGC E	<input type="checkbox"/>
Not Applicable	<input type="checkbox"/>

SPRING MATERIAL	
Spring Steel	<input type="checkbox"/>
SS 304	<input type="checkbox"/>
SS 316	<input type="checkbox"/>
Stainless Steel	<input type="checkbox"/>
CRV Steel	<input type="checkbox"/>
Inconel	<input type="checkbox"/>
Tungston	<input type="checkbox"/>
Others	<input type="checkbox"/>

DISC MATERIAL	
A479 Gr. 304	<input type="checkbox"/>
A479 Gr. 316	<input type="checkbox"/>
A479 Gr. 304L	<input type="checkbox"/>
A479 Gr. 316L	<input type="checkbox"/>
A479 Gr. 410	<input type="checkbox"/>
Hastelloy	<input type="checkbox"/>
Monel	<input type="checkbox"/>
Nitrile	<input type="checkbox"/>
Neoprene	<input type="checkbox"/>
EPDM	<input type="checkbox"/>
Viton	<input type="checkbox"/>
PTFE	<input type="checkbox"/>
Others	<input type="checkbox"/>

INTERNAL PART Testing Requirements	
Radiography	<input type="checkbox"/>
Ultrasonic	<input type="checkbox"/>
MPT	<input type="checkbox"/>
Dye Penetrant	<input type="checkbox"/>
NACE MR 0175/ISO15156	<input type="checkbox"/>
NACE MR 0103	<input type="checkbox"/>
PMI	<input type="checkbox"/>
IGC A	<input type="checkbox"/>
IGC B	<input type="checkbox"/>
IGC E	<input type="checkbox"/>
Not Applicable	<input type="checkbox"/>

## MATERIAL OPTIONS

PART LIST		CARBON STEEL	STAINLESS STEEL (FOR LOW TEMP AND CORROSIVE SERVICES)
PART NO	DESCRIPTION	TEMP -20°C TO 427°C	TEMP -196°C TO 538°C
01	Body	A216 Gr. WCB	A351 Gr. CF3M
02	Bonnet	A216 Gr. WCB	A351 Gr. CF3M
03	Cap	A216 Gr. WCB	A351 Gr. CF3M
04	Nozzle Ring Pin	SS 316	SS 316L
05	Spindle	SS 316 / SS 304	SS 316L / SS 304
06*	Nozzle	SS 316	SS 316L
07*	Disc	SS 316	SS 316L
08	Piston	SS 316	SS 316L
09	Adjusting Ring	A351 Gr. CF8M	A351 Gr. CF3M
10	Ball	SS 304	SS 304
11	Guide	A351 Gr. CF8M / SS316	A351 Gr. CF3M / SS316L
14*	Spring	SS 304 / Spring Steel	SS 304
15	Spring Washer	CS	SS 304
16	Adjusting Bolt	SS 304	SS 304
17	Adjusting Bolt Lock Nut	SS 304	SS 304
20*	Set Screw Gasket	PTFE	PTFE
21*	Guide Gasket	PTFE	PTFE
22*	Cap Gasket	PTFE	PTFE
23*	Cap Plug Gasket	PTFE	PTFE
24	Cap Plug	CS	SS
26	Test Gas	CS A105	SS 304
27	Name Plate	SS 304	SS 304
30*	Nozzle Gasket	SS 316	SS 316L
31	Inlet Flange	A105	SS 316

\* Recommended Spare Parts

- Other materials available on request

**SIZE: SCREWED TYPE**

Orifice Designation	Eff. Area (cm <sup>2</sup> ) SQ inch	Act Area (cm <sup>2</sup> ) SQ inch	Pressure Class	Inlet Male / Female	Outlet Female	Max. Set Pressure At 38°C Barg	A ±3 mm	B ±3 mm	H±20 mm Std Bonnet	H±20 mm Ext Bonnet	H±20 mm Without Lever	H±20 mm With Lever	Approx Weight
B	(0.28) 0.044	(0.28) 0.044	4	½"	½*	153	51.0	40.0	216.0	232.0	257.0	275.0	3.0
			4	½"	¾*	153	51.0	40.0	216.0	232.0	257.0	275.0	3.0
			4	½"	1"	153	51.0	40.0	216.0	232.0	257.0	275.0	3.0
			4	¾"	¾"	153	51.0	40.0	216.0	232.0	257.0	275.0	3.5
			4	¾"	1"	153	51.0	40.0	216.0	232.0	257.0	275.0	3.5
			4	1"	1"	153	56.0	40.0	216.0	232.0	257.0	275.0	4.0
			6	¾"	1"	420	64.0	85.0	348.0	-	348.0	-	6.0
			6	1"	1"	420	70.0	85.0	348.0	-	348.0	-	6.5
D	(0.74) 0.11	(0.8) 0.124	3	½"	1"	102	64.0	50.0	231.0	248.0	272.0	288.0	3.5
			3	¾"	1"	102	64.0	50.0	231.0	248.0	272.0	288.0	3.5
			3	1"	1"	102	70.0	50.0	231.0	248.0	272.0	288.0	3.5
			5	¾"	1"	255	64.0	85.0	348.0	-	348.0	-	6.0
			5	1"	1"	255	70.0	85.0	348.0	-	348.0	-	7.0
E	(1.26) 0.196	(1.43) 0.222	2	¾"	1"	51	64.0	50.0	231.0	248.0	272.0	288.0	6.0
			2	1"	1"	51	70.0	50.0	231.0	248.0	272.0	288.0	6.0
			2	1"	1½"	51	91.0	60.0	291.0	341.0	344.0	394.0	7.0
			4	¾"	1"	153	64.0	85.0	348.0	-	348.0	-	6.5
			4	1"	1½"	153	91.0	60.0	291.0	341.0	344.0	394.0	7.0
			4	1"	1"	153	70.0	85.0	348.0	-	348.0	-	6.5
F	(1.98) 0.307	(2.27) 0.352	2	1"	1½"	51	91.0	60.0	291.0	341.0	344.0	394.0	6.0
			2	1½"	1½"	51	91.0	60.0	291.0	341.0	344.0	394.0	6.0
G	(3.24) 0.503	(3.664) 0.558	1	1"	1½"	19.6	91.0	60.0	291.0	341.0	344.0	394.0	6.0
			1	1½"	1½"	19.6	91.0	60.0	291.0	341.0	344.0	394.0	6.0

\* ON Request

**SIZE: FLANGED TYPE**

Orifice Designation	Eff. Area (cm <sup>2</sup> ) SQ inch	Act Area (cm <sup>2</sup> ) SQ inch	Pressure Class	Inlet Male / Female	Outlet Female	Max. Set Pressure At 38°C Barg	A ±3 mm	B ±3 mm	H±20 mm Std Bonnet	H±20 mm Ext Bonnet	H±20 mm Without Lever	H±20 mm With Lever	Approx Weight
B	(0.28) 0.044	(0.28) 0.044	4	½"	1"	153	98.0	85.0	263.0	280.0	304.0	320	4.0
			4	¾"	1"	153	98.0	85.0	263.0	280.0	304.0	320	4.0
			4	1"	1"	153	98/118	85/90	263.0	280.0	304.0	320	4.5
			6	¾"	1"	420	118.0	120.0	400.0	-	400.0	-	6.0
			6	1"	1"	420	118.0	120.0	400.0	-	400.0	-	7.0
D	(0.74) 0.11	(0.8) 0.124	3	½"	1"	102	98.0	85.0	263.0	280.0	304.0	320	5.0
			3	¾"	1"	102	98.0	85.0	263.0	280.0	304.0	320	5.0
			3	1"	1"	102	98.0	85.0	263.0	280.0	304.0	320	5.0
			5	¾"	1"	255	118.0	120.0	400.0	-	400.0	-	6.0
			5	1"	1"	255	118.0	120.0	400.0	-	400.0	-	7.0
E	(1.26) 0.196	(1.43) 0.222	2	¾"	1"	51	98.0	85.0	263.0	280.0	304.0	320	5.0
			2	1"	1"	51	98.0	85.0	263.0	280.0	304.0	320	6.0
			2	1"	1½"	51	118.0	100.0	318.0	368.0	371.0	421.0	8.0
			4	¾"	1"	153	118.0	120.0	400.0	-	400.0	-	6.5
			4	1"	1"	153	118.0	120.0	400.0	-	400.0	-	7.0
			4	1"	1½"	153	118.0	100.0	318.0	368.0	371.0	421.0	8.0
F	(1.98) 0.307	(2.27) 0.352	2	1"	1½"	51	118.0	100.0	318.0	368.0	371.0	421.0	8.0
			2	1½"	1½"	51	118.0	100.0	318.0	368.0	371.0	421.0	8.5
G	(3.24) 0.503	(3.664) 0.558	1	1"	1½"	19.6	118.0	100.0	318.0	368.0	371.0	421.0	7.1
			1	1½"	1½"	19.6	118.0	100.0	318.0	368.0	371.0	421.0	7.8

- Not Applicable

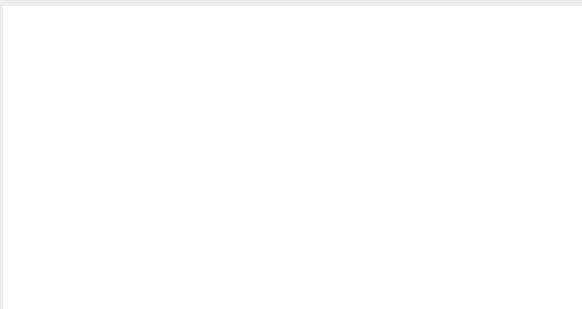
## ORDERING INFORMATION

For proper and timely processing of your order, the following information should be given:

- 1) Quantity
- 2) Inlet and outlet size
- 3) Nirmal Make series Number
- 4) Inlet and outlet flange rating and facing (if different from standard)
- 5) Material of construction if different from standard
- 6) Soft seat material requirement
- 7) Set pressure
- 8) Maximum inlet pressure
- 9) Maximum allowable working pressure
- 10) Temperature
- 11) Service
- 12) Back pressure (constant or variable) and value
- 13) Required capacity
- 14) Code requirements
- 15) Accessories : if any

Please send all communication to [prv@securamax.in](mailto:prv@securamax.in)

Represented by



**SECURAMAX<sup>®</sup>**  
*Nirmal Safety Valve Division*

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