SAFETY & RELIEF VALVES

Multi-Purpose Safety Relief Valves

500 SERIES



Versatile safety relief valve available in bronze, carbon steel or all stainless steel construction, suitable for a wide range of steam, air, gas and liquid applications. High capacity full nozzle design is available with metal to metal, PCTFE or elastomer O-ring seating. Short tuned blowdown and backpressure tight body minimizes fugitive emissions and product losses in the event of valve operation.

ASME Section VIII Air, Steam, and Liquid service

Sizes 1/2" through 2" NPT

Factory set pressure range 5-1200 psig @ 800°F max. (See press. / temp. limit chart below for specific ratings for each model).

APPLICATIONS:

- Pressure Vessels and Pressure Piping Systems
- Pumps, Tanks and Hydraulic Systems
- Thermal Relief of Liquid Filled Vessels
- Chemical, Process and other Industrial Plants.
- Power Plant Auxiliary Systems
- Cryogenic and Industrial Gases
- Air and Gas Compressors and Dryers
- Vacuum Relief

FEATURES:

- Wide Range of Materials and Options
- One Trim Design is Suitable for Steam, Air / Gas and Liquid Service
- High Capacity Full Nozzle Design
- Stainless Steel Springs
- Integral Lift Stop
- Self Aligning Pivoting Disc
- API 527 Seat Tightness, standard for all models
- Tuned Blowdown Short and Adjustable, reduces product losses.
- Backpressure Tight Design Minimizes Fugitive Emissions
- CSA B51 CRN OG8547.5C

OPTIONS:

- Screwed Cap (standard), Packed Lift Lever
- Test gags
- Elastomer or PCTFE Soft Seat for Exceptional Seat Tightness
- High Temperature Alloy Springs for 550°F 800°F Service
- Special Cleaning Available
- European Pressure Equipment Directive compliant option (CE/PED)

corresponds to your required flow rate

1. Determine the orifice letter that

HOW TO SELECT:

- from the capacity charts on pages 46-48.
 Select the inlet x outlet connection options from the list of models available for that orifice from page 45.
- 3. Enter this base model number into the matrix below. Complete by specifying the Code, service and set pressure requirements.

500 SERIES MODEL NUMBERING SYSTEM

52	3	J	Н	В	К	Μ	AA	0425	Q
SERIES BODY/ TRIM MATERIAL	CAP	ORIFICE Letter		CONNECTION	SERVICE	SEAT	SPECIAL OPTIONS	SET PRESSURE	SUFFIX
51 = Bronze/Brass	1 = Screwed Cap	D	C = 1/2	B = MNPT x NPT	J = Sec VIII Liquid	M = Metal	Factory Issued	Set Pressure, PSIG	Q = Performance
52 = Bronze/Stainless	2 = Screwed + Gag	E	D = 3/4	D = 3/4 Outlet	K = Sec VIII Air/Gas	B = BUNA-N	Letters/Numbers for	(4 digits)	(Calibration)
53 = Carbon/Stainless	3 = Packed Lever	F	E = 1	(Model 510 &	L = Sec VIII Steam	E = EPR	Special Options or		Test Reports
54 = All Stainless	4 = Packed + Gag	G	F = 1 - 1/4	520 D Orifice Only)	M = Non Code Liquid	K = PCTFE	Features	Vacuum "HG"	
		H	G = 1 - 1/2		N = Non Code Air	N = Neoprene	"AA" = Default Setting	Prefix + 2 digits	
		J	H = 2		P = Non Code Steam	Z = Kalrez®	"CE" = CE/PED		
					Q = Vacuum	S = Silicone	"HT" = High Temp Spring		
						V = Viton	"OX" = Cleaned for Oxygen		

Notes:

1. The ASME Code Section VIII requires a lift lever for the following services: air, steam, or hot water over 140°F

2. Maximum back pressure is 50 psig.

3. High temperature stainless steel alloy spring is required above 550°F / 288°C. Specify option "HT"

4. Contact factory for pricing and availability.



For additional information, submittal sheets and manuals, visit www.apollovalves.com



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