

500 Series

ASME Section VIII Safety Relief Valve

SUBMITTAL SHEET

"Apollo" Valves



Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO#:	
Rep:	
Wholesale Dist.:	

DESCRIPTION

ASME Section VIII capacity certified safety relief valve for overpressure protection of steam, air/gas and liquid systems, pressure vessels, piping and similar equipment.

FEATURES

- ASME Section VIII Certified Capacities
- 5 - 1200 psig Set Pressures @ 800° F max*
- 1/2" - 2" Inlet Connections
- Bronze, Carbon or Stainless Steel Construction
- Lapped Metal Seats; O-ring and PCTFE Seats Optional
- Screwed Cap or Packed Lift Lever Configuration
- Made in the USA

APPROVALS

- ASME Section VIII Div 1 Pressure Vessels for Steam, Air/Gas and Liquids
- Canadian Registration Number 0G8547.5C
- Directive 2011/65/CE (RoHS) Compliant (530-540)
- Pressure Equipment Directive 2014/68/EU (PED)

*Set pressures and temperatures vary by model. Refer to catalog for sizing and selection information

STANDARD MATERIALS LIST

BODY	ASTM B584 Bronze ASTM A216 Carbon Steel ASTM A351 Stainless Steel
NOZZLE	ASTM B16 Brass ASTM A479 Stainless Steel
SPRING	Stainless Steel
SEAT	Stainless Steel

CAPACITY, SCFM (Nm³/HR)

NATIONAL BOARD CAPACITY CERTIFIED, SECTION VIII AIR

SET PRESSURE PSIG (bar)	D ORIFICE	E ORIFICE	F ORIFICE
15 (1.03)	67 (107)	118 (189)	185 (298)
100 (6.90)	255 (409)	449 (721)	706 (1135)
500 (34.48)	1153 (1853)	2032 (3267)	3197 (5138)

SET PRESSURE PSIG (bar)	G ORIFICE	H ORIFICE	J ORIFICE
15 (1.03)	304 (488)	474 (762)	776 (1247)
100 (6.90)	1158 (1862)	1808 (2907)	2959 (4756)
500 (34.48)	5246 (8433)	8189 (13164)	13399 (21538)

AVAILABLE CONFIGURATIONS

MODEL NUMBER	ORIFICE	SIZE	INSTALLED HEIGHT in. (mm)
5xxDCB	D	1/2M x 1F	6.97 (177)
5xxDCD*		1/2M x 3/4F	6.97 (177)
5xxDDB		3/4M x 1F	6.97 (177)
5xxDDD*		3/4M x 3/4F	6.97 (177)
5xxED	E	3/4M x 1-1/4F	8.45 (215)
5xxEE		1M x 1-1/4F	8.45 (215)
5xxFE	F	1M x 1-1/2F	9.64 (245)
5xxFF		1-1/4M x 1-1/2F	9.64 (245)
5xxGF	G	1-1/4M x 2F	12.62 (321)
5xxGG		1-1/2M x 2F	12.62 (321)
5xxHG	H	1-1/2M x 2-1/2F	14.42 (367)
5xxHH		2M x 2-1/2F	14.42 (367)
5xxJH	J	2M x 3F	16.50 (419)

*Bronze Body Only

PART NUMBER MATRIX

52	3	J	H	B	K	M	AA	0425	Q	
SERIES BODY/TRIM MATERIAL	CAP	ORIFICE LETTER	INLET SIZE	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 Letters/Numbers for Special Options or Features	Set Pressure, PSIG (4 digits)	Q = Performance (Calibration) Test Reports	
52 = Bronze/Stainless	2 = Screwed + Gag	E	D = 3/4"	D = 3/4 Outlet (Model 510 & 520 D Orifice Only)	K = Sec VIII Air/Gas	B = BUNA-N		Vacuum "HG"		
53 = Carbon/Stainless	3 = Packed Lever	F	E = 1"		L = Sec VIII Steam	E = EPR				Prefix + 2 digits
54 = All Stainless	4 = Packed + Gag	G	F = 1-1/4"		M = Non Code Liquid	K = PCTFE				
		H	G = 1-1/2"		N = Non Code Air	N = Neoprene	"AA" = Default Setting			
		J	H = 2"	P = Non Code Steam	P = Non Code Steam	Z = Kalrez®	"CE" = CE/PED			
				Q = Vacuum	Q = Vacuum	S = Silicone	"HT" = High Temp Spring			
						V = Viton	"OX" = Cleaned for Oxygen			

*Not all configurations available together

Customer Service (704) 841-6000
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