

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 OG8547.5C
- 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 | | | | |
| 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 | 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 | | | |

*Not all configurations available together

Customer Service (704) 841-6000
www.apollovalves.com

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