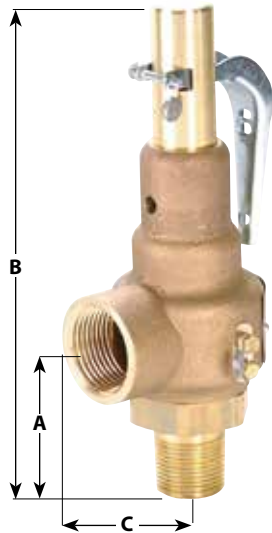


# COMMERCIAL PRODUCTS CATALOG

## ASME Section I & VIII Safety Valves

### 19 SERIES



### BRONZE SAFETY VALVES FOR STEAM, AIR & GAS SERVICE

National Board capacity certified, high capacity, ideal for use with steam boilers, sterilizers, pressure vessels, compressors, and pressure piping systems.

#### FEATURES

- Pressures: 15 through 300 psig steam, air, gas
- Max. temp. 406°F with stainless steel trim
- 13 Sizes, 1/2" through 2-1/2" NPT
- Stainless steel springs
- Optional 316 stainless steel wetted trim (Specify 19L or 19S Series)
- Available in metal and soft seat designs
- Metal to metal seat lapped to optical flatness (19M)
- PFA Teflon® soft seat easily replaced (19K)
- Double ring, full bore, high capacity design
- Tapped body drain facilitates piping of condensate away from equipment
- Registered in all Canadian Provinces and Territories, CRN #0G8547.5C
- Wide wrenching hex for easier, faster installations
- Dual ASME/CE European Pressure Equipment Directive Compliant option

| Series Number | Orifice Designation | Inlet Size (in.) | Dimensions (in.) |       |      | Wt./100 (lbs.) |
|---------------|---------------------|------------------|------------------|-------|------|----------------|
|               |                     |                  | A                | B     | C    |                |
| 19KDC         | D                   | 1/2 x 3/4        | 2.21             | 6.52  | 1.37 | 1.6            |
| 19KDD         | D                   | 3/4 x 3/4        | 2.21             | 6.52  | 1.37 | 1.6            |
| 19KED         | E                   | 3/4 x 1          | 2.50             | 7.16  | 1.75 | 2.0            |
| 19KEE         | E                   | 1 x 1            | 2.64             | 7.30  | 1.75 | 2.2            |
| 19KFE         | F                   | 1 x 1-1/4        | 2.95             | 9.34  | 2.00 | 4.1            |
| 19KFF         | F                   | 1-1/4 x 1-1/4    | 2.95             | 9.34  | 2.00 | 4.3            |
| 19KGF         | G                   | 1-1/4 x 1-1/2    | 3.38             | 11.01 | 2.37 | 7.4            |
| 19KGG         | G                   | 1-1/2 x 1-1/2    | 3.38             | 11.01 | 2.37 | 7.6            |
| 19KHG         | H                   | 1-1/2 x 2        | 3.63             | 11.96 | 2.75 | 11.5           |
| 19KHH         | H                   | 2 x 2            | 3.63             | 11.96 | 2.75 | 11.6           |
| 19KJG         | J                   | 1-1/2 F X 2-1/2  | 3.80             | 14.00 | 3.50 | 20.0           |
| 19KJH         | J                   | 2 x 2-1/2        | 4.06             | 14.25 | 3.50 | 19.9           |
| 19KJJ         | J                   | 2-1/2 x 2-1/2    | 4.50             | 14.68 | 3.50 | 20.8           |

### CERTIFIED CAPACITIES

| Set Pressure psig       | Orifice |       |       |       |        |        |
|-------------------------|---------|-------|-------|-------|--------|--------|
|                         | D       | E     | F     | G     | H      | J      |
| 15                      | 174     | 310   | 484   | 794   | 1,240  | 2,035  |
| 25                      | 229     | 408   | 637   | 1,045 | 1,631  | 2,677  |
| 40                      | 311     | 555   | 866   | 1,421 | 2,217  | 3,641  |
| 50                      | 366     | 653   | 1,019 | 1,672 | 2,608  | 4,283  |
| 100                     | 646     | 1,152 | 1,798 | 2,950 | 4,602  | 7,557  |
| 125                     | 787     | 1,404 | 2,191 | 3,595 | 5,609  | 9,210  |
| 150                     | 929     | 1,656 | 2,585 | 4,240 | 6,616  | 10,864 |
| 165                     | 1,014   | 1,807 | 2,821 | 4,628 | 7,220  | 11,856 |
| 200                     | 1,211   | 2,160 | 3,371 | 5,531 | 8,630  | 14,170 |
| 250                     | 1,494   | 2,664 | 4,158 | 6,822 | 10,644 | 17,477 |
| 300*                    | 1,777   | 3,168 | 4,945 | 8,112 | 12,658 | 20,784 |
| Approx 1 psi increments | 5.7     | 10.1  | 15.7  | 25.8  | 40.3   | 66.1   |

#### ASME Section I Steam

Power Boiler - "V" steam lbs./hr. steam @ 3% accumulation

\*Specify Model 19S with stainless steel wetted trim for steam settings beyond 250 psig.

# SAFETY & RELIEF VALVES

## ASME Section I & VIII Safety Valves

### 19 SERIES (CONT.)

### BRONZE SAFETY VALVES FOR STEAM, AIR & GAS SERVICE

#### ASME Section VIII Steam

Unfired Pressure Vessels - "UV" steam lbs./hr.  
@ 10% accumulation

*\*Specify Model 19S with stainless steel wetted trim  
for steam settings beyond 250 psig.*

#### CERTIFIED CAPACITIES

| Set Pressure<br>psig       | Orifice |       |       |       |        |        |
|----------------------------|---------|-------|-------|-------|--------|--------|
|                            | D       | E     | F     | G     | H      | J      |
| 15                         | 179     | 320   | 499   | 819   | 1,278  | 2,099  |
| 25                         | 234     | 417   | 652   | 1,070 | 1,669  | 2,741  |
| 40                         | 322     | 574   | 896   | 1,471 | 2,295  | 3,768  |
| 50                         | 382     | 682   | 1,064 | 1,746 | 2,725  | 4,474  |
| 100                        | 684     | 1,220 | 1,904 | 3,124 | 4,875  | 8,005  |
| 125                        | 835     | 1,489 | 2,324 | 3,813 | 5,950  | 9,770  |
| 150                        | 985     | 1,758 | 2,744 | 4,502 | 7,025  | 11,535 |
| 165                        | 1,076   | 1,920 | 2,996 | 4,916 | 7,670  | 12,594 |
| 200                        | 1,287   | 2,296 | 3,584 | 5,881 | 9,175  | 15,066 |
| 250                        | 1,590   | 2,834 | 4,424 | 7,259 | 11,325 | 18,596 |
| 300*                       | 1,892   | 3,373 | 5,265 | 8,639 | 13,479 | 22,132 |
| Approx<br>1 psi increments | 6.0     | 10.8  | 16.8  | 27.6  | 43.0   | 70.6   |

#### CERTIFIED CAPACITIES

| Set Pressure<br>psig       | Orifice |       |       |       |       |       |
|----------------------------|---------|-------|-------|-------|-------|-------|
|                            | D       | E     | F     | G     | H     | J     |
| 15                         | 64      | 114   | 178   | 292   | 455   | 747   |
| 25                         | 83      | 149   | 232   | 381   | 594   | 976   |
| 40                         | 115     | 204   | 319   | 524   | 817   | 1,342 |
| 50                         | 136     | 243   | 379   | 622   | 970   | 1,593 |
| 100                        | 244     | 434   | 678   | 1,112 | 1,736 | 2,849 |
| 125                        | 297     | 530   | 828   | 1,358 | 2,118 | 3,478 |
| 150                        | 351     | 626   | 977   | 1,603 | 2,501 | 4,106 |
| 165                        | 383     | 683   | 1,067 | 1,750 | 2,731 | 4,484 |
| 200                        | 459     | 818   | 1,276 | 2,094 | 3,267 | 5,364 |
| 250                        | 566     | 1,009 | 1,575 | 2,584 | 4,032 | 6,621 |
| 300                        | 673     | 1,201 | 1,874 | 3,075 | 4,798 | 7,878 |
| Approx<br>1 psi increments | 2.2     | 3.8   | 6.0   | 9.8   | 15.3  | 25.1  |

#### ASME Section VIII Air

Unfired Pressure Vessels - "UV" air SCFM @  
10% accumulation

#### 19 SERIES NUMBERING SYSTEM

| 19M                              | D              | C                    | K                     | 165                 | A  |
|----------------------------------|----------------|----------------------|-----------------------|---------------------|--|
| BASE MODEL NUMBER                | ORIFICE LETTER | INLET SIZE (IN.) NPT | ASME CODE AND SERVICE | SET PRESSURE IN PSI | SPECIAL OPTIONS                              |
| 19K = Brass Trim/Teflon Seat     | D              | C = 1/2              | A = Sect. I Steam     |                     | A = Anti-vibration trim                      |
| 19M = Brass Trim/Metal Seat      | E              | D = 3/4              | K = Sect. VIII Air    |                     | CE = CE/PED Compliant                        |
| 19L = Stainless Trim/Teflon Seat | F              | E = 1                | L = Sect. VIII Steam  |                     | Q = Performance<br>(Calibration) test report |
| 19S = Stainless Trim/Metal Seat  | G              | F = 1-1/4            | N = Non-Code Air      |                     | X = Oxygen cleaning                          |
|                                  | H              | G = 1-1/2            | P = Non-Code Steam    |                     | * Other suffixes - factory issued            |
|                                  | J              | H = 2                |                       |                     |  |
|                                  |                | J = 2-1/2            |                       |                     |  |



See Safety & Relief Valve Catalog (SRCA9000) for more detailed information about the products in this section.

Customer Service (704) 841-6000