

data sheet

76F series

stainless steel full port ball valve



description

The "Apollo"® 76F model ball valve ¼" to 3" features female NPT thread, 1000 CWP (psig). Cold non-shock with 150 psi saturated steam and vacuum service to 29 inches Hg. MSS SP-110 compliant.

size range

- ¼" - 3"

connections

- NPT

configurations

- 76F series - standard

approvals

- MSS SP-110 ball valves
- CSA CGA 3.16-M88
- IAPMO/ANSI Z1157 ball valves
- Buy American Act (BAA)
- Build America Buy America (BABA) Act
- American Iron and Steel Act (AIS)



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Aalberts integrated piping systems

10715 Sikes Place / suite 200 / Charlotte / NC / 28277

aalberts-ips.us

features

- investment cast components
- reinforced seats
- blowout-proof stem design
- adjustable packing gland
- stainless steel lever and nut
- fire safe to API 607 (requires -24 suffix)
- meets NACE MR0175 (2000) & MR0103 (2012)
- CSA CGA 3.16-M88 (requires "GS" suffix)
- NSF/ANSI/CAN 61 Section 8, Annex G (¼" to 2")
- NSF/ANSI 372 - drinking water system components - lead content
- 100% factory tested
- manufactured in the USA - AIS, ARRA, BABA and BAA compliant (requires -UA suffix)

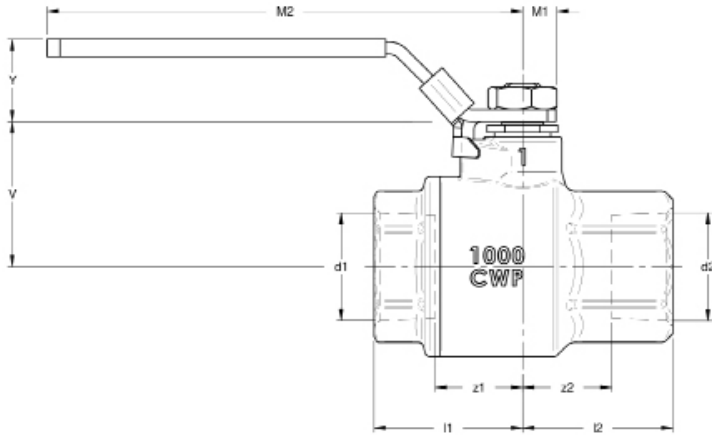
| component | material |
|----------------|---|
| body | A351-CF8M stainless steel |
| retainer | A276-316 stainless steel (¼" - ¾") A351-CF8M stainless steel (½" - 3") |
| ball | A276-316 stainless steel (¼" - 1" and 1 ½" - 2") A351-CF8M stainless steel (¼" and 3") |
| seat (2) | RPTFE (2" and smaller) RTFM (3") |
| stem | A276-316 stainless steel |
| gland | A276-316 stainless steel |
| stem packing | MPTFE |
| stem bearing | RPTFE |
| lever and grip | 304 stainless steel with vinyl |
| body seal | RPTFE (½" - 3") |
| lever nut | 304 stainless steel |

performance rating

| CWP | SWP | temperature | vacuum service |
|-----------|--------------------|-----------------------------|----------------|
| 1000 psig | 150 psig (maximum) | 500°F (maximum temperature) | 29 in. Hg |

| | |
|-----------------|--|
| job name | |
| job location | |
| engineer | |
| contractor | |
| tag | |
| PO# | |
| rep | |
| wholesaler dist | |

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dimensions

| part number | size | bore size | d1 | d2 | l1 | l2 | z1 | z2 | M1 | M2 | V | Y | weight | Cv |
|-------------|------|-----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|----------|-----|
| 76F-101-27 | ¼" | 0.37" | 0.54" | 0.54" | 0.95" | 0.96" | 0.55" | 0.56" | 0.38" | 4.15" | 0.97" | 0.89" | 1.41 lbs | 15 |
| 76F-102-27 | ⅜" | 0.37" | 0.68" | 0.68" | 0.95" | 0.96" | 0.52" | 0.56" | 0.38" | 4.15" | 0.95" | 0.89" | 1.41 lbs | 15 |
| 76F-103-27 | ½" | 0.5" | 0.84" | 0.84" | 1.19" | 1.15" | 0.66" | 0.62" | 0.38" | 4.15" | 1.09" | 0.89" | 1.41 lbs | 15 |
| 76F-104-27 | ¾" | 0.81" | 1.05" | 1.05" | 1.37" | 1.39" | 0.76" | 0.78" | 0.38" | 4.15" | 1.31" | 0.89" | 0.65 lbs | 51 |
| 76F-105-27 | 1" | 1" | 1.32" | 1.32" | 1.65" | 1.67" | 0.97" | 0.99" | 0.37" | 5.28" | 1.61" | 0.92" | 1.38 lbs | 68 |
| 76F-106-27 | 1 ¼" | 1.25" | 1.66" | 1.66" | 1.94" | 1.96" | 1.25" | 1.27" | 0.81" | 8.90" | 2.29" | 1.52" | 4.17 lbs | 125 |
| 76F-107-27 | 1 ½" | 1.50" | 1.90" | 1.90" | 2.05" | 2.05" | 1.36" | 1.36" | 0.81" | 8.90" | 2.39" | 1.52" | 4.69 lbs | 177 |
| 76F-108-27 | 2" | 2" | 2.38" | 2.38" | 2.37" | 2.37" | 1.67" | 1.67" | 0.81" | 8.90" | 2.77" | 1.52" | 6.90 lbs | 289 |
| 76F-100-27 | 3" | 3" | 3.50" | 3.50" | 3.70" | 3.70" | 2.49" | 2.49" | 1.06" | 10.06" | 3.94" | 1.49" | -- | -- |

options

| option | component | size |
|----------|--|----------|
| (-P -27) | BSPP (parallel) thread connection | ½" to 2" |
| (-T -27) | BSPT (tapered) thread connection | ½" to 3" |
| (-02) | stem grounded | ½" to 3" |
| (-08) | 90° reversed stem | ½" to 2" |
| (-11) | Therma-Seal™ insulating tee handle | ¼" to 2" |
| (-14) | side vented ball (uni-directional) | ⅜" to 3" |
| (-24) | graphite packing, PTFE body seal, RPTFE bearing (API 607, 6th edition, ISO 10497:2010) | ½" to 3" |
| (-27) | standard configuration, SS latch-lock lever & nut | ⅜" to 3" |
| (-30) | cam-lock and grounded | ½" to 2" |
| (-32) | SS tee handle & nut | ½" to 2" |
| (-35) | PTFE trim | 3" |

| option | component | size |
|--------|---|----------|
| (-39) | SS hi-rise locking wheel handle, SS nut | ½" to 2" |
| (-40) | cyl-loc and grounded | ½" to 2" |
| (-44) | seal welded | all |
| (-45) | less lever & nut | ½" to 3" |
| (-46) | latch lock lever - lock in closed position only | ½" to 2" |
| (-47) | SS latch lock oval handle | ½" to 2" |
| (-48) | SS oval handle (no latch) & nut | ¼" to 2" |
| (-49) | no lubrication. assembled dry. | ½" to 3" |
| (-50) | 2 ¼" CS locking stem extension | ½" to 2" |
| (-56) | multifill seats & packing | ½" to 3" |
| (-57) | oxygen cleaned | all |
| (-60) | static grounded ball & stem | ½" to 3" |
| (-GS) | CSA CGA 3.16 (RTFE seat - all sizes) | all |
| (-UA) | AIS (American Iron & Steel) compliant | all |

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pressure/temperature ratings
engineering data

1000 CWP

(SS) ASTM A351-CF8M

graph 1

