

data sheet

70-100 series

NPT bronze ball valve



features

- premium materials and heavy duty construction
- adjustable stem packing gland
- two-piece body
- blowout-proof stem design
- upgraded RPTFE seats and MPTFE stem packing rings
- chromium plated ball
- 100% factory tested
- wide range of options
- manufactured in the USA – BABA and BAA compliant

description

The Apollo® 70 series is the most widely used general purpose bronze ball valve on the market today. The 70-100 model is a 2-piece standard port ball valve featuring female NPT connections. Cast and machined in our South Carolina manufacturing plants, these valves provide trusted performance and a wide range of options.

size range

- 1/4" - 4"

connections

- threaded

configurations

- 70-100 series - standard
- 70LF-100 series - lead-free option
- 70-100-HC series - FNPT x hose cap
- 70-140 series - 316 ss ball & stem

approvals

- MSS SP-110
- CSA B51 CRN: OC10908.5C
- Buy American Act (BAA)
- Build America Buy America (BABA) Act



this specification is provided for reference only. we reserve the right to change any portion of this specification without notice and without incurring obligation to make such changes to Aalberts integrated piping systems products previously or subsequently sold.

Aalberts integrated piping systems

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

aalberts-ips.us

job name

job location

engineer

contractor

tag

PO#

rep

wholesaler dist

component

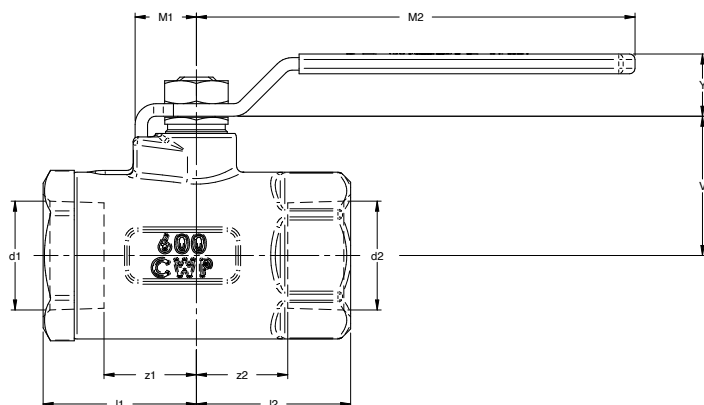
material

body	bronze, ASTM B584-C84400
retainer	brass ASTM B16 or B283, C37700 (1/4" to 1") bronze ASTM B584-C84400 (1-1/4" to 4")
ball	brass ASTM B16, C36000 brass B283, C37700 chrome plated
seat (2)	RPTFE
stem	brass, ASTM B16, C36000
gland nut	brass, ASTM B16, C36000
stem packing	MPTFE
lever and grip	steel, zinc plated w/ vinyl grip
lever nut	steel, zinc plated
stem bearing	RPTFE
body seal (1 1/4" - 3")	PTFE

performance rating

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

data sheet



dimensions

part number	size	bore size	d1	d2	l1	l2	z1	z2	M1	M2	V	Y	weight	Cv
70-101-01	¼"	0.37"	0.54"	0.54"	1.01"	1.01"	0.61"	0.61"	0.55"	3.85"	1.03"	0.65"	0.55 lbs	8.4
70-102-01	⅜"	0.37"	0.68"	0.68"	1.01"	1.01"	0.58"	0.61"	0.55"	3.85"	1.03"	0.65"	0.56 lbs	7.2
70-103-01	½"	0.50"	0.84"	0.84"	1.08"	1.09"	0.55"	0.56"	0.55"	3.85"	1.06"	0.65"	0.63 lbs	15
70-104-01	¾"	0.68"	1.05"	1.05"	1.47"	1.49"	0.92"	0.94"	0.67"	4.76"	1.40"	0.68"	1.3 lbs	30
70-105-01	1"	0.87"	1.32"	1.32"	1.67"	1.67"	1.00"	0.99"	0.67"	4.76"	1.51"	0.68"	1.72 lbs	43
70-106-01	1 ¼"	1.00"	1.66"	1.66"	1.98"	1.99"	1.33"	1.40"	0.98"	5.40"	1.99"	0.70"	3.26 lbs	48
70-107-01	1 ½"	1.25"	1.90"	1.90"	2.14"	2.17"	1.47"	1.49"	1.00"	7.75"	2.18"	0.90"	4.61 lbs	84
70-108-01	2"	1.50"	2.38"	2.38"	2.35"	2.32"	1.75"	1.73"	1.00"	7.75"	2.37"	0.90"	6.06 lbs	108
70-109-01A	2 ½"	2.00"	2.88"	2.88"	3.12"	3.13"	1.94"	1.95"	1.00"	7.75"	2.80"	0.90"	14.2 lbs	190
70-100-01	3"	2.50"	3.50"	3.50"	3.38"	3.38"	2.36"	2.49"	1.00"	7.75"	3.13"	0.90"	18.6 lbs	370
70-10A-01	4"	3.12"	4.50"	4.50"	3.69"	3.66"	2.59"	2.54"	1.35"	9.91"	3.94"	1.25"	25.5 lbs	670

options

option	component	size
(-02)	stem grounded	¼" - 4"
(-04)	2 ¼" cs stem extension	¼" - 3"
(-07)	steel tee handle	¼" - 2"
(-08)	90° reversed stem	¼" - 3"
(-10)	SS lever & nut	¼" - 3"
(-11)	Therma-Seal™ insulating tee handle	¼" - 2"
(-14)	side vented ball (uni-directional)	¼" - 4"
(-15)	wheel handle, steel	¼" - 2"
(-16)	chain lever-vertical	¾" - 2"
(-21)	UHMWPE trim (non-PTFE)	¼" - 3"
(-24)	graphite packing	¼" - 3"
(-27)	ss latch-lock lever & nut	¼" - 3"
(-30)	cam-lock & grounded	¼" - 2"
(-32)	SS tee handle & nut	¼" - 2"
(-35)	PTFE trim	¼" - 3"
(-36)	SS hi-rise round handle, SS nut	¼" - 2"
(-39)	SS hi-rise locking wheel handle & nut	¼" - 2"
(-40)	cyl-loc & grounded	¼" - 2"

option	component	size
(-41)	automatic drain (bronze valves only)	¼" - 2"
(-45)	less lever & nut	¼" - 3"
(-46)	latch lock lever-lock closed position only	¼" - 3"
(-47)	SS oval latch-lock handle & nut	¼" - 1"
(-48)	SS oval handle (no latch) & nut	¼" - 2"
(-49)	assembled dry	¼" - 4"
(-50)	2 ¼" CS locking stem extension	¼" - 3"
(-56)	MPTFE seats and packing	¼" - 3"
(-57)	oxygen cleaned	¼" - 4"
(-58)	chain lever-horizontal	¾" - 2"
(-60)	static grounded ball & stem	¼" - 3"
(-63)	FNPT body x solder retainer	⅝" - 4"
(-64)	250# steam trim	¼" - 3"
(-92)	balancing stop	¼" - 3"
(-94)	2 ¼" stem extension & balancing stop	⅝" - 3"
(-HC)	hose thread w./ cap & chain	½" - 1"
(-P01)	BSPP (parallel) thread connection	¼" - 3"
(-T01)	BSPT (tapered) thread connection	¼" - 3"
(-BC)	integral check cartridge (250psi max)	¼" - 2"

data sheet

pressure/temperature ratings
engineering data

600 CWP

bronze ASTM B584

graph 1

