"Apollo" Valves

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

- ¼" - 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: 0C10908.5C
- Buy American Act (BAA)
- Build America Buy America (BABA) Act

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 chrome plated brass B283, C37700 chrome plated, or stainless steel, A276-316
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 ¼" - 3")	PTFE

performance rating

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

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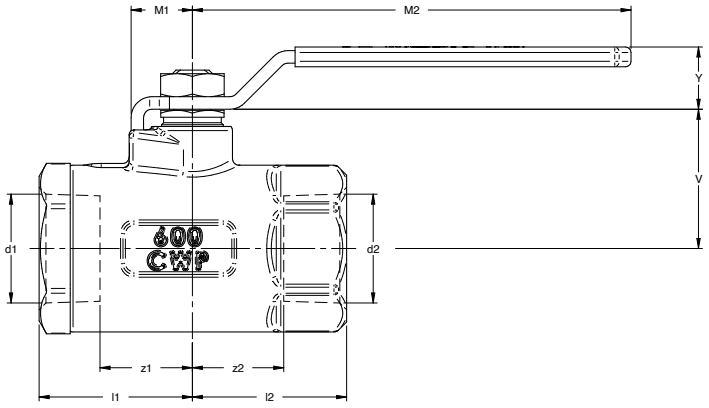
5 YEAR WARRANTY MADE IN USA · BAA BUY AMERICAN ACT COMPLIANT · MADE IN USA · CRN

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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
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

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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"

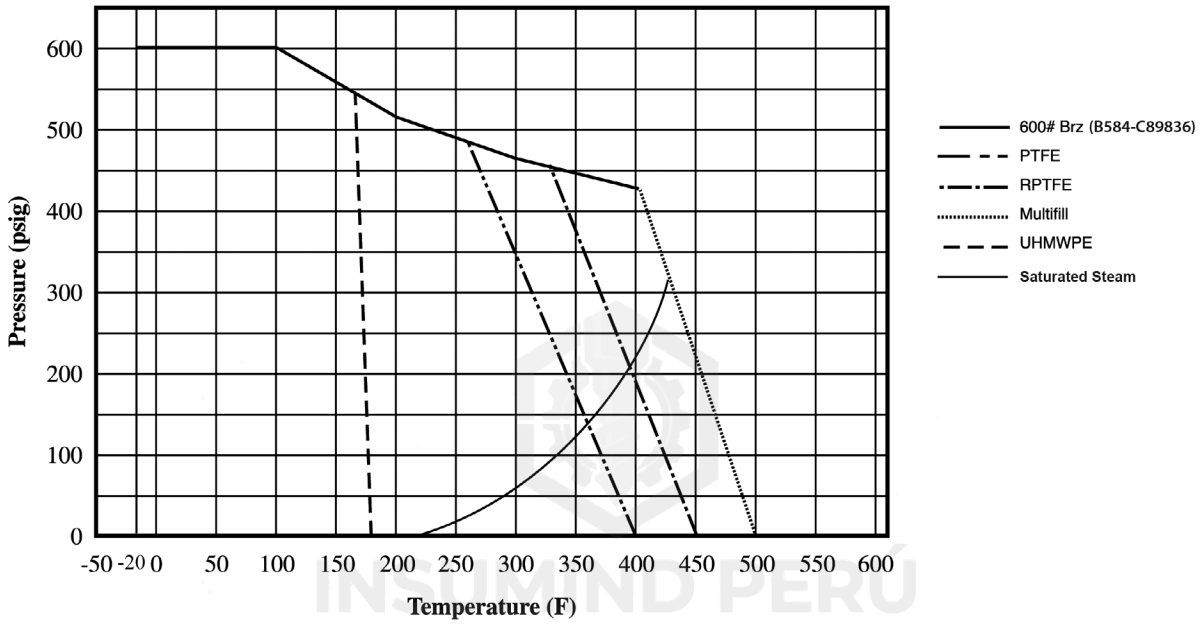
option	component	size
(-41)	automatic drain (bronze valves only)	¼" - 2"
(-45)	less lever & nut	¼" - 3"
(-46)	latch lock lever-lock closed position only	¼" - 3"
(-47)	SS oval latch-lock handle & nut	¼" - 1"
(-48)	SS oval handle (no latch) & nut	¼" - 2"
(-49)	assembled dry	¼" - 4"
(-50)	2 ¼" CS locking 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	⅜" - 4"
(-64)	250# steam trim	¼" - 3"
(-92)	balancing stop	¼" - 3"
(-94)	2 ¼" stem extension & balancing stop	⅜" - 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"

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pressure/temperature ratings

engineering data

600 CWP	bronze ASTM B584	graph 1



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