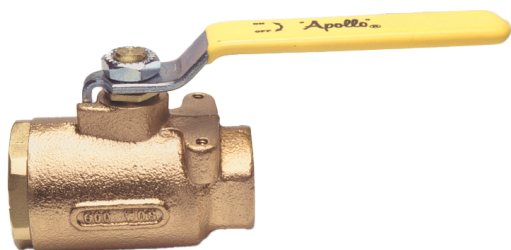


data sheet

77-100 series

bronze heavy pattern full port ball valve



features

- 2-piece body
- RPTFE seats and stem packing
- mounting pad for easy actuator or panel mounting
- blowout-proof stem design
- adjustable packing
- 100% pressure tested
- manufactured in the USA - BABA and BAA compliant

description

The "Apollo"® 77-100 series is a full port, 2-piece, bronze, ball valve with mounting pad. Heavy pattern construction. Suitable for the most demanding applications.

size range

- ¼" - 2 ½"

connections

- threaded

configurations

- 77-100 series - standard
- 77-140 series - 316 ss ball and stem

approvals

- MSS SP-110
- federal specification: WW-V-35C, type: II, composition: BZ, style: 3
- CRN: 0C10908.5C
- Buy American Act (BAA)
- Build America Buy America (BABA) Act

component	material
body	bronze, ASTM B584-C84400
retainer	brass, ASTM B16, C36000 or B283, C37700 (¾" - 1") bronze, ASTM B584-C84400 (1 ¼" - 2 ½")
ball	stainless steel, ASTM A276-316 or brass, ASTM B16 C36000, chrome plated
seat (2)	RPTFE
stem	brass, ASTM B16, C36000
gland nut	brass, ASTM B16, C36000
stem packing	MPTFE
stem bearing	RPTFE
lever and grip	steel, zinc plated with vinyl
lever nut	steel, zinc plated
body seal (1 ¼" - 2 ½")	PTFE

performance rating

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



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

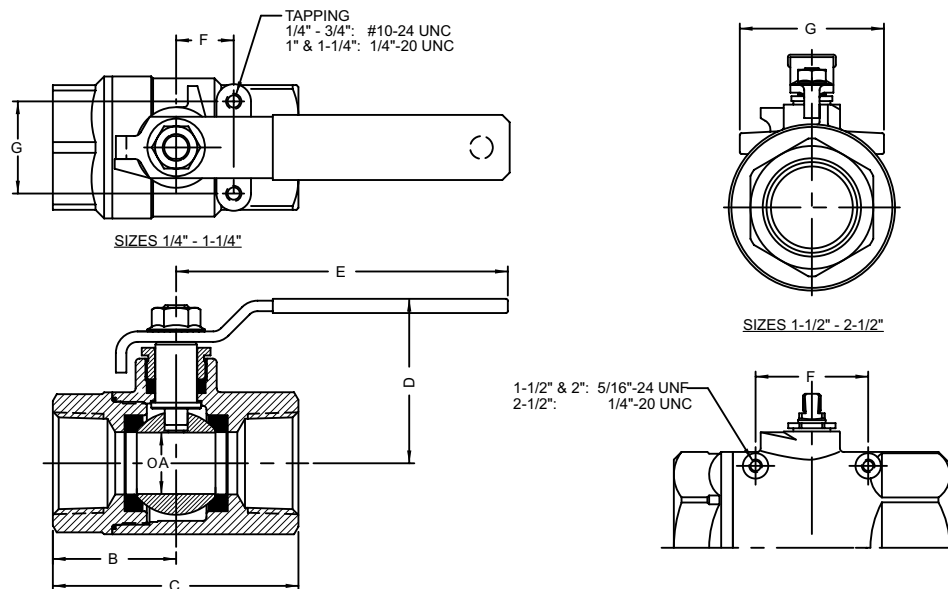
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wholesaler dist

data sheet



dimensions

part number	size	a	b	c	d	e	f	g	h	weight	Cv
77-101-01	¼"	0.43"	1.09"	2.18"	1.77"	3.87"	0.50"	1.12"	10-24 NC	0.79 lbs	8.1
77-102-01	⅜"	0.50"	1.09"	2.18"	1.77"	3.87"	0.50"	1.12"	10-24 NC	0.75 lbs	15
77-103-01	½"	0.50"	1.09"	2.18"	1.77"	3.87"	0.50"	1.12"	10-24 NC	0.69 lbs	15
77-104-01	¾"	0.81"	1.56"	3.12"	2.12"	4.87"	0.87"	1.37"	10-24 NC	1.83 lbs	51
77-105-01	1"	1.00"	1.81"	3.62"	2.62"	5.50"	0.93"	1.50"	¼-20 NC	3.32 lbs	68
77-106-01	1 ¼"	1.25"	2.12"	4.25"	2.87"	5.50"	0.93"	1.50"	¼-20 NC	5.05 lbs	125
77-107-01	1 ½"	1.50"	2.37"	4.75"	3.34"	8.00"	2.08"	3.06"	⅝-24 NF	6.71 lbs	177
77-108-01	2"	2.00"	2.65"	5.37"	3.71"	8.00"	2.41"	3.52"	⅝-24 NF	11.75 lbs	389
77-109-01	2 ½"	2.50"	3.25"	6.50"	4.12"	8.00"	2.75"	3.37"	¾-20 NC	17.25 lbs	503

options

option	component	size
(-P-01)	BSPP (parallel) thread connection	all
(-T-01)	BSPT (tapered) thread connection	all
(-02)	stem grounded	all
(-04)	2 ¼" stem extension (carbon steel, zinc plated)	all
(-07)	steel tee handle	¼" to 1 ½"
(-08)	90° reversed stem	all
(-10)	ss lever & nut	all
(-14)	side vented ball (uni-directional)	all
(-15)	wheel handle, steel	¼" to 1 ¼"
(-16)	chain lever - vertical	¾" to 2 ½"
(-17)	rough chrome plated	all
(-18)	plain yellow grip	all
(-20)	slot vented ball	all
(-21)	UHMWPE trim (non-PTFE)	all
(-24)	graphite packing, PTFE body seal, RPTFE bearing	all
(-27)	ss latch-lock lever & nut	all
(-28)	mounting pad (not drilled and tapped)	all

option	component	size
(-30)	cam-lock and grounded	¼" to 1 ¼"
(-32)	SS tee handle & nut	¼" to 1 ¼"
(-35)	PTFE trim	all
(-36)	ss high-rise round handle & nut	¼" to 1 ¼"
(-40)	cyl-loc and grounded	¼" to 1 ¼"
(-45)	less lever & nut	all
(-46)	latch lock lever - lock in closed position only	all
(-47)	SS latch lock oval handle	¼" to ¾"
(-48)	SS oval handle (no latch) & nut	¼" to 2"
(-49)	no lubrication. assembled dry.	all
(-50)	2 ¼" CS locking stem extension	all
(-56)	multifill seats & packing	all
(-57)	oxygen cleaned	all
(-58)	chain lever - horizontal	¾" to 2 ½"
(-60)	static grounded ball & stem	all
(-63)	NPT x solder	all
(-64)	250# steam trim (MPTFE seats & packing) + ss trim	all

data sheet

pressure/temperature ratings

engineering data

600 CWP

bronze ASTM B584

graph 1

