

data sheet

73A-100-A series

carbon steel ball valve ¼" - 1"



features

- forged construction
- raised handle stops
- blowout-proof stem design
- adjustable packing gland
- zinc phosphate corrosion protection
- fire safe to API 607 (requires -24 suffix)
- AAR approved #E999032
- meets NACE MR0175 (2000) & MR0103 (2012)
- manufactured in the USA - AIS, ARRA, BABA and BAA compliant (requires -UA suffix)

description

The "Apollo"® 73A-100-A model ball valve ¼" to 1" features female NPT thread, 2000 CWP (psi). Cold non-shock with 150 psi saturated steam and vacuum service to 29 inches Hg. MSS SP-110

size range

- ¼" - 1"

connections

- threaded

configurations

- 73A-100-A series - standard

approvals

- MSS SP-110 ball valves
- NACE MR0175 (2000) & MR0103 (2003) compliant
- Buy American Act (BAA)
- Build America Buy America (BABA) Act
- American Iron and Steel Act (AIS)

component	material
body	A105-carbon steel
retainer	A108-125
ball	ASTM A108, carbon steel, chrome plated or A276-316 stainless steel
seat (2)	RPTFE
stem	ASTM A108-carbon steel or A276-316 stainless steel
gland nut	A108-carbon steel
stem packing	MPTFE
stem bearing	RPTFE
lever and grip	steel, zinc plated with vinyl
body seal	RPTFE (½" to 2")
lever nut	steel, zinc plated

performance rating

CWP	SWP	temperature	vacuum service
2000 psig	250 psig (maximum)	500°F (maximum tempature)	29 in. Hg



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Aalberts integrated piping systems

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

aalberts-ips.us

job name

job location

engineer

contractor

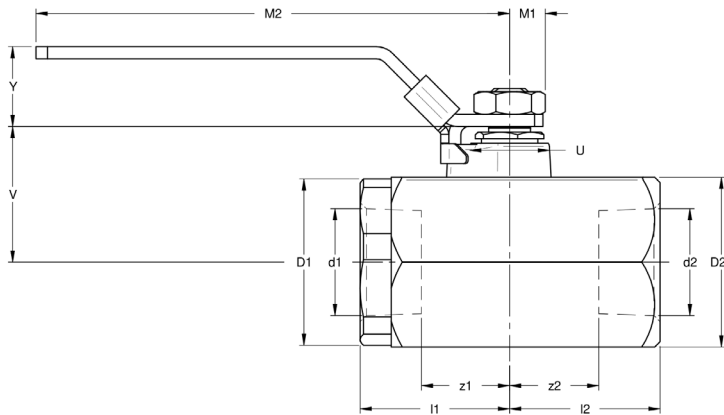
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dimensions

part number	size	bore size	d1	d2	I1	I2	z1	z2	M1	M2	V	Y	weight	Cv
76-101-27A	¼"	0.37"	0.54"	0.54"	1.02"	1.03"	0.62"	0.63"	0.38"	4.15"	1.06"	0.89"	0.58 lbs	8.4
76-102-27A	⅜"	0.37"	0.68"	0.68"	1.02"	1.03"	0.62"	0.63"	0.38"	4.15"	1.06"	0.89"	0.55 lbs	7.2
76-103-27A	½"	0.50"	0.84"	0.84"	1.12"	1.11"	0.56"	0.58"	0.38"	4.15"	1.12"	0.89"	0.63 lbs	15
76-104-27A	¾"	0.68"	1.05"	1.05"	1.47"	1.50"	0.85"	0.88"	0.37"	5.28"	1.38"	0.92"	1.27 lbs	30
76-105-27A	1"	0.87"	1.32"	1.32"	1.66"	1.67"	0.98"	0.99"	0.37"	5.28"	1.50"	0.92"	2.20 lbs	43

options

option	component	size
(-P-27)	BSPP (parallel) thread connection	all
(-T-27)	BSPT (tapered) thread connection	all
(-02)	stem grounded	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 ½"
(-16)	chain lever - vertical	¾" to 2"
(-21)	UHMWPE trim (non-PTFE)	all
(-24)	graphite packing, PTFE body seal, RPTFE bearing (API 607, 6th edition, ISO 10497:2010)	all
(-27)	standard configuration, ss latch-lock lever & nut	all
(-30)	cam-lock & grounded	all
(-32)	ss tee handle & nut	all

option	component	size
(-35)	PTFE trim	all
(-39)	SS hi-rise locking wheel handle, SS nut	all
(-40)	cyl-loc and grounded	all
(-45)	less lever & nut	all
(-47)	SS latch lock oval handle	all
(-48)	SS oval handle (no latch) & nut	all
(-50)	2 ¼" CS locking stem extension	all
(-52)	two tack welds	all
(-56)	multifill seats	all
(-58)	chain lever - horizontal	¾" to 2"
(-60)	static grounded ball & stem	all
(-64)	250# steam trim (MPTFE seats & packing)	all
(-67)	cleaned for industrial gas - cs valves	all
(-UA)	AIS (American iron & steel) compliant	all

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73A-100-A series

carbon steel ball valve 1 ¼" - 2"



features

- forged construction
- raised handle stops
- blowout-proof stem design
- adjustable packing gland
- zinc phosphate corrosion protection
- fire safe to API 607 (requires -24 suffix)
- AAR approved #E999032
- manufactured in the USA – AIS, ARRA, BABA and BAA compliant (requires -UA suffix)

description

The "Apollo"® 73A-100-A model ball valve 1 ¼" to 2" features female NPT thread, 1500 CWP (psi). Cold non-shock with 150 psi saturated steam and vacuum service to 29 inches Hg. MSS SP-110 compliant.

size range

- 1 ¼" - 2"

connections

- threaded

configurations

- 73A-100-A series - standard

approvals

- MSS SP-110 ball valves
- NACE MR0175 (2000) & MR0103 (2003) compliant
- Buy American Act (BAA)
- Build America Buy America (BABA) Act
- American Iron and Steel Act (AIS)

component	material
body	A105-carbon steel
retainer	A108-125
ball	ASTM A108, carbon steel, chrome plated or A276-316 stainless steel
seat (2)	RPTFE
stem	ASTM A108-carbon steel or A276-316 stainless steel
gland nut	A108-carbon steel
stem packing	MPTFE
stem bearing	RPTFE
lever and grip	steel, zinc plated with vinyl
body seal	RPTFE (½" to 2")
lever nut	steel, zinc plated

performance rating

CWP	SWP	temperature	vacuum service
1500 psig	250 psig (maximum)	500°F (maximum tempature)	29 in. Hg



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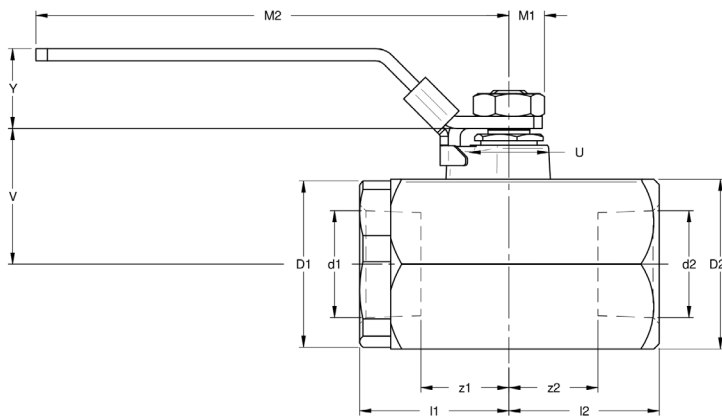
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dimensions

part number	size	bore size	d1	d2	I1	I2	z1	z2	M1	M2	V	Y	weight	Cv
73-106-27A	1 1/4"	1.00"	1.66"	1.66"	2.00"	1.99"	1.29"	1.28"	0.57"	6.26"	1.98"	1.04"	3.74 lbs	48
73-107-27A	1 1/2"	1.25"	1.90"	1.90"	2.17"	2.18"	1.46"	1.43"	0.57"	6.26"	2.18"	1.04"	5.30 lbs	84
73-108-27A	2"	2.00"	2.38"	2.38"	2.73"	2.70"	1.86"	1.89"	0.57"	6.26"	2.36"	1.04"	8.03 lbs	108

options

option	component	size
(-P-27)	BSPP (parallel) thread connection	all
(-T-27)	BSPT (tapered) thread connection	all
(-02)	stem grounded	all
(-07)	steel tee handle	1/4" to 1 1/2"
(-08)	90° reversed stem	all
(-10)	ss lever & nut	all
(-14)	side vented ball (uni-directional)	all
(-15)	wheel handle, steel	1/4" to 1 1/2"
(-16)	chain lever - vertical	3/4" to 2"
(-21)	UHMWPE trim (non-PTFE)	all
(-24)	graphite packing, PTFE body seal, RPTFE bearing (API 607, 6th edition, ISO 10497:2010)	all
(-27)	standard configuration, ss latch-lock lever & nut	all
(-30)	cam-lock & grounded	all
(-32)	ss tee handle & nut	all

option	component	size
(-35)	PTFE trim	all
(-39)	SS hi-rise locking wheel handle, SS nut	all
(-40)	cyl-loc and grounded	all
(-45)	less lever & nut	all
(-47)	SS latch lock oval handle	all
(-48)	SS oval handle (no latch) & nut	all
(-50)	2 1/4" CS locking stem extension	all
(-52)	two tack welds	all
(-56)	multifill seats	all
(-58)	chain lever - horizontal	3/4" to 2"
(-60)	static grounded ball & stem	all
(-64)	250# steam trim (MPTFE seats & packing)	all
(-67)	cleaned for industrial gas - cs valves	all
(-UA)	AIS (American iron & steel) compliant	all

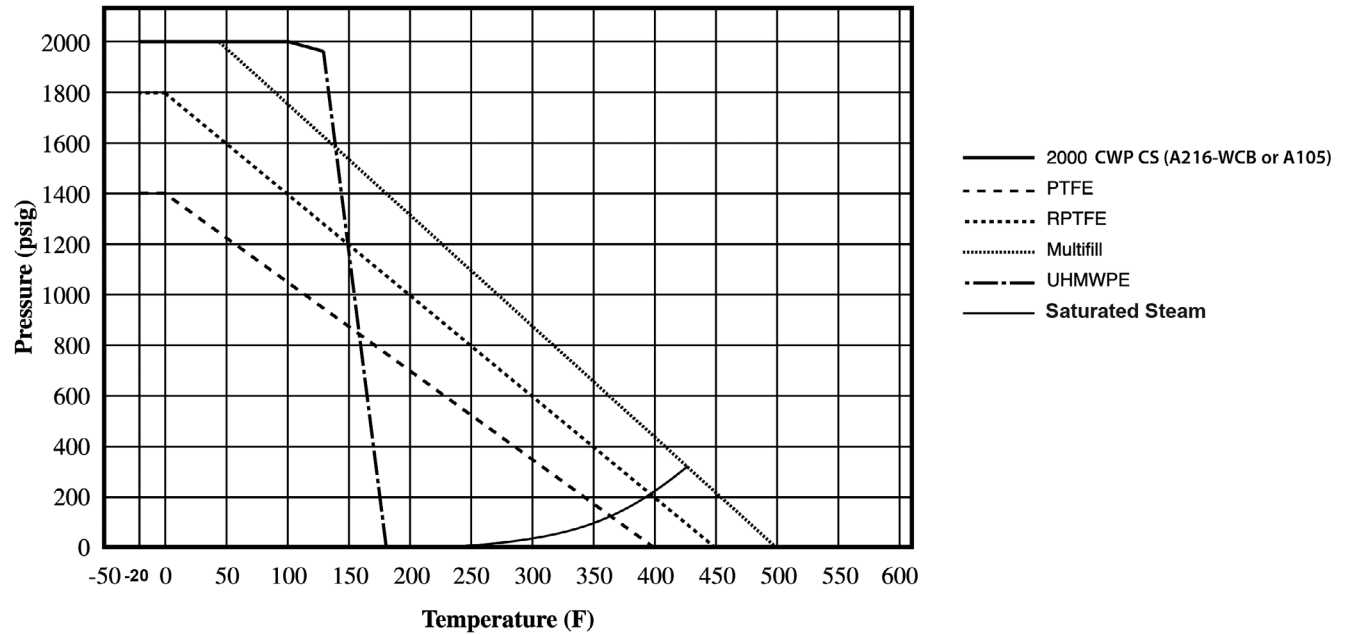
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pressure/temperature ratings
engineering data

2000 CWP

(CS) ASTM A216-WCB or ASTM A105

graph 1



1500 CWP

(CS) ASTM A216-WCB or ASTM A105

graph 2

