

data sheet

76-100 series

stainless steel ball valve with mounting pad ¼" - 1"



description

The "Apollo"® 76-100 model ball valve ¼" to 1" features female NPT thread, 2000 CWP (psig). Cold non-shock with 150 psi saturated steam and vacuum service to 29 inches Hg. MSS SP-110 compliant.

*lead free: the wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law 111-380. ANSI 3rd party approved and listed.

size range

- ¼" - 1"

connections

- threaded

configurations

- 76-100 series - standard

approvals

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

features

- investment cast components
- reinforced seats
- mounting pad for easy actuator mounting
- 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
- NSF/ANSI 372 - drinking water system components - lead content
- manufactured in the USA - AIS, BABA and BAA compliant with -UA suffix

component	material
body	A351-CF8M stainless steel
retainer	A351-CF8M stainless steel or A276-316 stainless steel
ball	A276-316 stainless steel
seat (2)	RPTFE
stem	A276-316 stainless steel
gland nut	A276-316 stainless steel
stem packing	MPTFE
stem bearing	RPTFE
lever and grip	304 stainless steel with vinyl
body seal	PTFE

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



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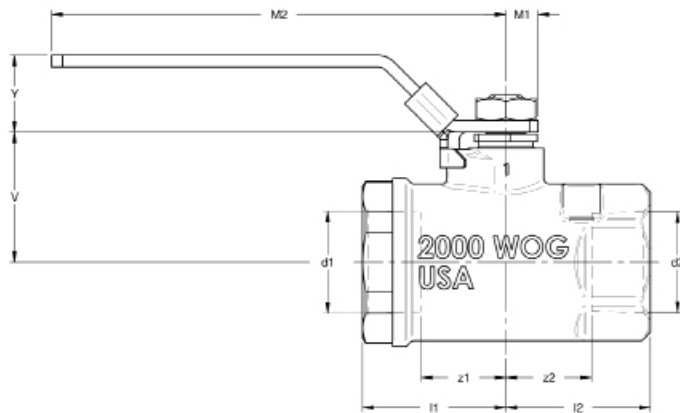
Aalberts integrated piping systems

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

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job location	
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data sheet



dimensions

part number	size	bore size	d1	d2	l1	l2	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"	1.02"	0.89"	0.58 lbs	0.89
76-102-27A	⅜"	0.37"	0.68"	0.68"	1.04"	1.03"	0.64"	0.63"	0.38"	4.15"	1.04"	0.89"	0.55 lbs	0.89
76-103-27A	½"	0.50"	0.84"	0.84"	1.12"	1.11"	0.56"	0.58"	0.38"	4.15"	1.13"	0.89"	0.63 lbs	0.89
76-104-27A	¾"	0.68"	1.05"	1.05"	1.47"	1.49"	0.85"	0.88"	0.37"	5.28"	1.41"	0.92"	1.30 lbs	0.92
76-105-27A	1"	0.87"	1.32"	1.32"	1.65"	1.67"	0.97"	0.99"	0.37"	5.28"	1.49"	0.92"	1.60 lbs	0.92

options

option	component	size
(-P-27)	BSPP (parallel) thread connection	all
(-T-27)	BSPT (tapered) thread connection	all
(-02)	stem grounded	all
(-04)	2 ¼" stem extension (carbon steel, zinc plated)	all
(-07)	steel tee handle	all
(-08)	90° reversed stem	all
(-14)	side vented ball (uni-directional)	all
(-15)	wheel handle, steel	all
(-16)	chain lever - vertical	¾" to 2"
(-19)	lock plate	all
(-21)	UHMWPE trim (non-PTFE)	all
(-24)	graphite packing, PTFE body seal, RPTFE bearing (API 607, 6th edition, ISO 10497:2010)	all
(-27)	ss latch-lock lever & nut (standard configuration)	all

option	component	size
(-35)	PTFE trim	all
(-39)	SS hi-rise locking wheel handle, SS nut	all
(-40)	cyl-loc and grounded	all
(-44)	seal welded	all
(-45)	less lever & nut	all
(-46)	latch lock lever - lock in closed position only	all
(-47)	SS latch lock oval handle	all
(-48)	SS oval handle (no latch) & nut	all
(-49)	no lubrication. assembled dry.	all
(-50)	2 ¼" CS locking stem extension	all
(-57)	oxygen cleaned	all
(-58)	chain lever - horizontal	¾" to 2"
(-60)	static grounded ball & stem	all
(-64)	250# steam trim (MPTFE seats & packing)	all
(-GS)	CSA CGA 3.16	all
(-UA)	AIS (American iron & steel) compliant	all

data sheet

76-100 series

stainless steel ball valve with mounting pad 1 1/4" - 2"



features

- investment cast components
- reinforced seats
- mounting pad for easy actuator mounting
- 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
- NSF/ANSI 372 - drinking water system components - lead content
- manufactured in the USA - AIS, BABA and BAA compliant with -UA suffix

description

The "Apollo"® 76-100 model ball valve 1 1/4" to 2" features female NPT thread, 1500 CWP (psig). Cold non-shock with 150 psi saturated steam and vacuum service to 29 inches Hg. MSS SP-110

*lead free: the wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law 111-380. ANSI 3rd party approved and listed.

size range

- 1 1/4" - 2"

connections

- threaded

configurations

- 76-100 series - standard

approvals

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

component	material
body	A351-CF8M stainless steel
retainer	A351-CF8M stainless steel or A276-316 stainless steel
ball	A276-316 stainless steel
seat (2)	RPTFE
stem	A276-316 stainless steel
gland nut	A276-316 stainless steel
stem packing	MPTFE
stem bearing	RPTFE
lever and grip	304 stainless steel with vinyl
body seal	PTFE

performance rating

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



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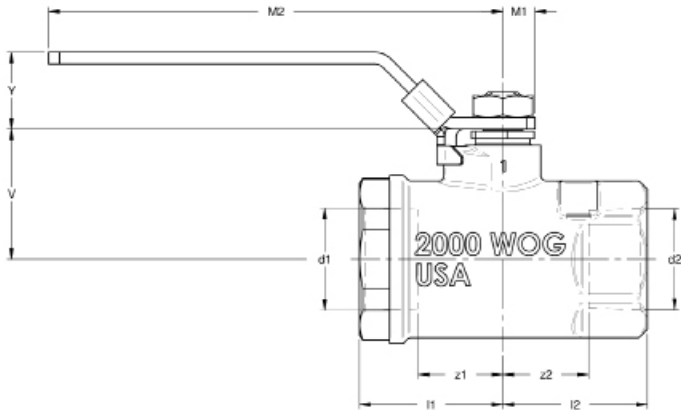
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dimensions

part number	size	bore size	d1	d2	l1	l2	z1	z2	M1	M2	V	Y	weight	Cv
76-106-27	1 1/4"	1.00"	1.66"	1.66"	2.00"	1.99"	1.29"	1.28"	0.57"	6.26"	1.97"	1.04"	3.10 lbs	48
76-107-27	1 1/2"	1.25"	1.90"	1.90"	2.18"	2.17"	1.47"	1.41"	0.57"	6.26"	2.12"	1.04"	4.20 lbs	84
76-108-27	2"	2.00"	2.38"	2.38"	2.73"	2.70"	1.86"	1.83"	0.57"	6.26"	2.32"	1.04"	6.10 lbs	108

options

option	component	size	option	component	size
(-P-27)	BSPP (parallel) thread connection	all	(-35)	PTFE trim	all
(-T-27)	BSPT (tapered) thread connection	all	(-39)	SS hi-rise locking wheel handle, SS nut	all
(-02)	stem grounded	all	(-40)	cyl-loc and grounded	all
(-04)	2 1/4" stem extension (carbon steel, zinc plated)	all	(-44)	seal welded	all
(-07)	steel tee handle	all	(-45)	less lever & nut	all
(-08)	90° reversed stem	all	(-46)	latch lock lever - lock in closed position only	all
(-14)	side vented ball (uni-directional)	all	(-47)	SS latch lock oval handle	all
(-15)	wheel handle, steel	all	(-48)	SS oval handle (no latch) & nut	all
(-16)	chain lever - vertical	all	(-49)	no lubrication. assembled dry.	all
(-19)	lock plate	all	(-50)	2 1/4" CS locking stem extension	all
(-21)	UHMWPE trim (non-PTFE)	all	(-57)	oxygen cleaned	all
(-24)	graphite packing, PTFE body seal, RPTFE bearing (API 607, 6th edition, ISO 10497:2010)	all	(-58)	chain lever - horizontal	3/4" to 2"
(-27)	ss latch-lock lever & nut (standard configuration)	all	(-60)	static grounded ball & stem	all
(-30)	cam-lock and grounded	all	(-64)	250# steam trim (MPTFE seats & packing)	all
(-32)	ss tee handle & nut	all	(-GS)	CSA CGA 3.16	all
			(-UA)	AIS (American iron & steel) compliant	all

data sheet

76-100 series

stainless steel ball valve with mounting pad 2 ½" - 3"



features

- investment cast components
- reinforced seats
- mounting pad for easy actuator mounting
- 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
- NSF/ANSI 372 - drinking water system components - lead content
- manufactured in the USA - AIS, BABA and BAA compliant with -UA suffix

description

The "Apollo"® 76-100 model ball valve 2 ½" to 3" features female NPT thread, 1000 CWP (psig). Cold non-shock with 150 psig saturated steam and vacuum service to 29 inches Hg. MSS SP-110 compliant.

*lead free: the wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law 111-380. ANSI 3rd party approved and listed.

size range

- 2 ½" - 3"

connections

- threaded

configurations

- 76-100 series - standard

approvals

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

component	material
body	A351-CF8M stainless steel
retainer	A351-CF8M stainless steel or A276-316 stainless steel
ball	A276-316 stainless steel
seat (2)	RPTFE
stem	A276-316 stainless steel
gland nut	A276-316 stainless steel
stem packing	MPTFE
stem bearing	RPTFE
lever and grip	304 stainless steel with vinyl
body seal	PTFE

performance rating

CWP	SWP	temperature	vacuum service
1000 psig	250 psig (maximum)	500°F (maximum temperature)	29 in. Hg



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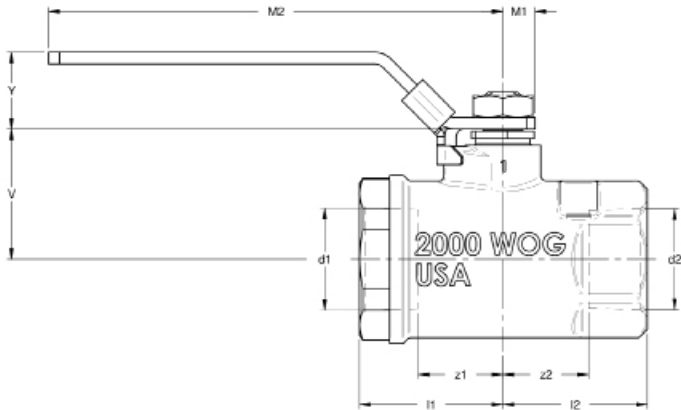
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dimensions

part number	size	bore size	d1	d2	l1	l2	z1	z2	M1	M2	V	Y	weight	Cv
76-109-27A	2 ½"	2.50"	2.88"	2.88"	3.32"	3.40"	2.02"	2.19"	0.81"	9.27"	3.12"	1.43"	15.60 lbs	190
76-100-27A	3"	2.50"	3.50"	3.50"	3.38"	3.37"	2.17"	2.16"	0.81"	9.27"	3.17"	1.43"	16.60 lbs	370

options

option	component	size	option	component	size
(-P-27)	BSPP (parallel) thread connection	all	(-35)	PTFE trim	all
(-T-27)	BSPT (tapered) thread connection	all	(-39)	SS hi-rise locking wheel handle, SS nut	all
(-02)	stem grounded	all	(-40)	cyl-loc and grounded	all
(-04)	2 ¼" stem extension (carbon steel, zinc plated)	all	(-44)	seal welded	all
(-07)	steel tee handle	all	(-45)	less lever & nut	all
(-08)	90° reversed stem	all	(-46)	latch lock lever - lock in closed position only	all
(-14)	side vented ball (uni-directional)	all	(-47)	SS latch lock oval handle	all
(-15)	wheel handle, steel	all	(-48)	SS oval handle (no latch) & nut	all
(-16)	chain lever - vertical	¾" to 2"	(-49)	no lubrication. assembled dry.	all
(-19)	lock plate	all	(-50)	2 ¼" CS locking stem extension	all
(-21)	UHMWPE trim (non-PTFE)	all	(-57)	oxygen cleaned	all
(-24)	graphite packing, PTFE body seal, RPTFE bearing (API 607, 6th edition, ISO 10497:2010)	all	(-58)	chain lever - horizontal	¾" to 2"
(-27)	ss latch-lock lever & nut (standard configuration)	all	(-60)	static grounded ball & stem	all
(-30)	cam-lock and grounded	all	(-64)	250# steam trim (MPTFE seats & packing)	all
(-32)	SS tee handle & nut	all	(-GS)	CSA CGA 3.16	all
			(-UA)	AIS (American iron & steel) compliant	all

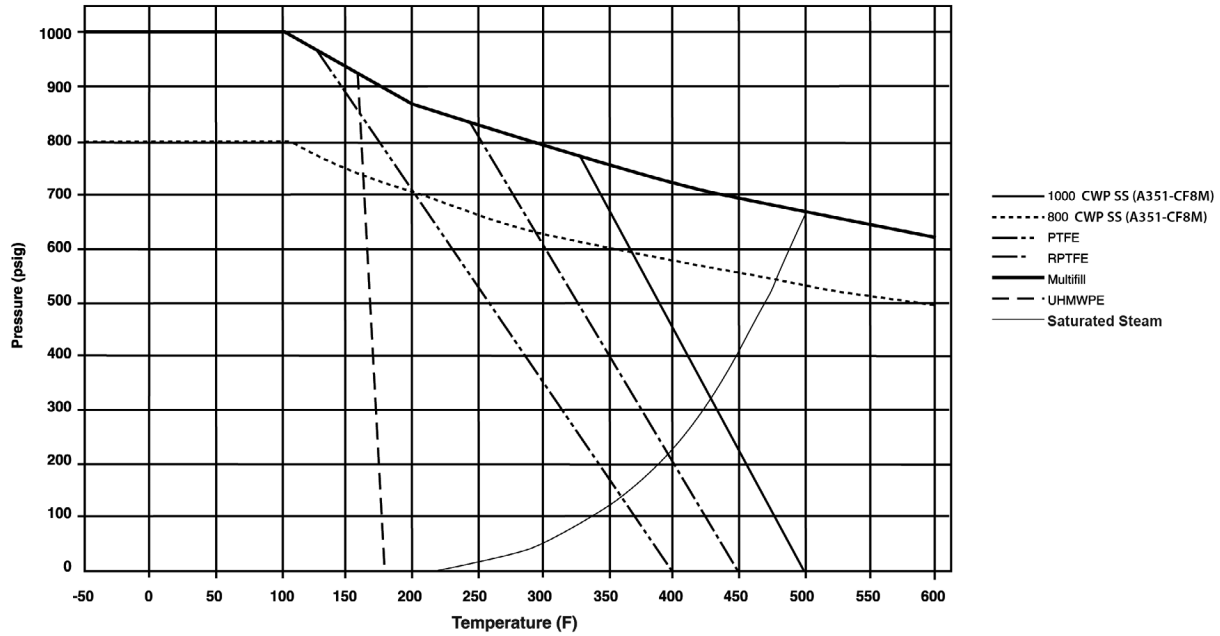
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pressure/temperature ratings
engineering data

1000 CWP

(SS) ASTM A351-CF8M

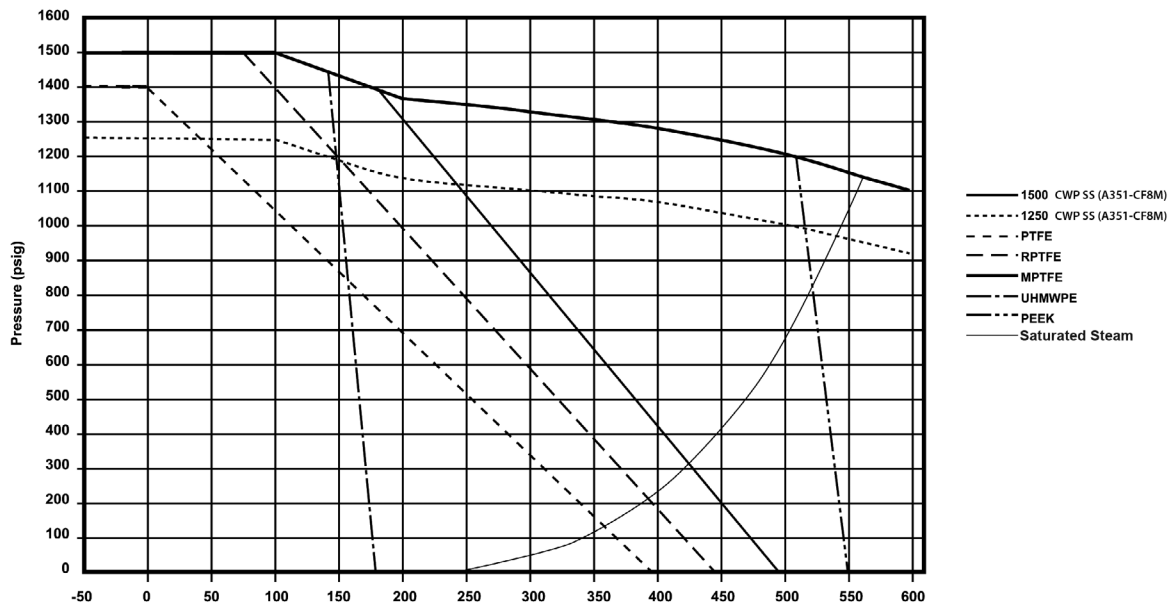
graph 1



1500 CWP

(SS) ASTM A351-CF8M

graph 2



data sheet

pressure/temperature ratings

engineering data

2000 CWP

(SS) ASTM A351-CF8M

graph 3

