

ATKOMATIC

30400 Series

Bronze, Semi-direct Lift, Pressure 0 to 1500 psig (104 bar)
Medium Pressure Valve, Configurable for a Variety of Fluid Applications



atkomatic solenoid

Features

- Semi-direct lift action for operation down to zero pressure differential
- Operation up to 1500 psig (104 bar)
- Media temperatures from -423°F to $+500^{\circ}\text{F}$ (-253°C to $+260^{\circ}\text{C}$)
- Will handle fluids with viscosity up to 150 SUS
- Bronze valve material (naval M bronze)
- Suitable for use with wide variety of fluid including: air, gasses, liquids, hydraulic fluids, steam, cryogenic fluids, and fluids not harmful to bronze
- Heaviest duty and most rugged construction
- Optional seat materials of Teflon[®], PCTFE, Buna N, Viton[®], EPR, or metal (316 stainless steel pilot and/or brass piston seat) depending on fluid type and pressure
- Body seal materials of Teflon[®], Viton[®], Buna N, or EPR
- Removable 316 stainless steel body inserts (stainless steel trim)
- Available in normally closed configuration from $\frac{1}{4}$ " to 3" NPT ports
- Available in normally open configuration from $\frac{1}{4}$ " to $1\frac{1}{2}$ " NPT ports
- British BSPT ports available
- Full ported valves
- Normally closed Cv from 2.7 to 71
- Normally open Cv from 2.7 to 21
- Class H coils are standard
- Coil housings available in NEMA 1 (standard), NEMA 4 (waterproof), NEMA 7 (explosion-proof for hazardous locations), and combination NEMA 4 & 7
- Manual opening and throttling devices are available as options (requires aluminum piston on $2\frac{1}{2}$ " & 3")
- Valve position indicator option is available

Circle Seal Controls

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30400 Series

Operational Pressures (No minimum pressure differential)

Normally closed, 1/4"– 1/2"

GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
1500	1000	1500	1000	1500	1000	200	200

Normally closed, 2"–3"

GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
500	500	500	350	500	350	200	100

Normally open, 1/4"– 1/2"

GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
1500	1500	1500	1500	1500	1,250	200	200

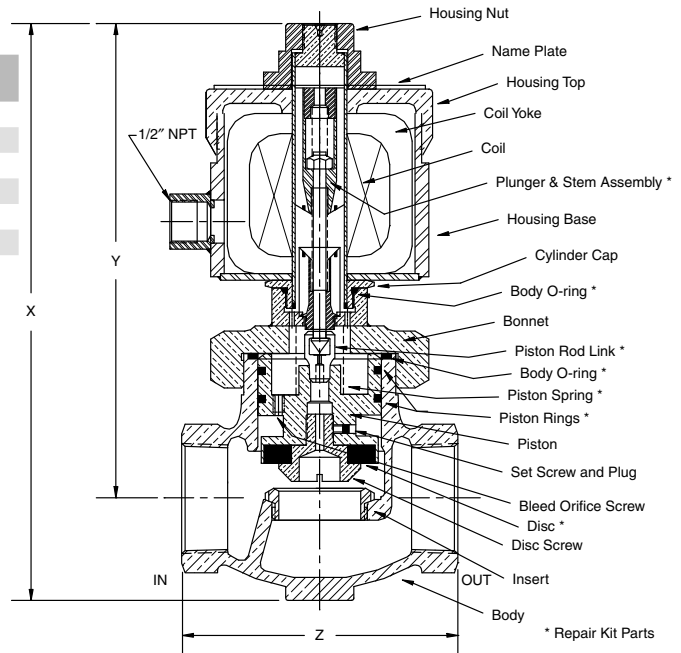
NOTE 1: Normally open valves are rated for intermittent duty only on 30000 Series valves and are not recommended for cryogenic service above 50 psig.

NOTE 2: Buna N, Viton® and EPR seats are limited to 500 psig (34.5 barg).

Dimensions, Shipping Weights, and Cv Flow Factors

30400 Series Normally Open Bronze

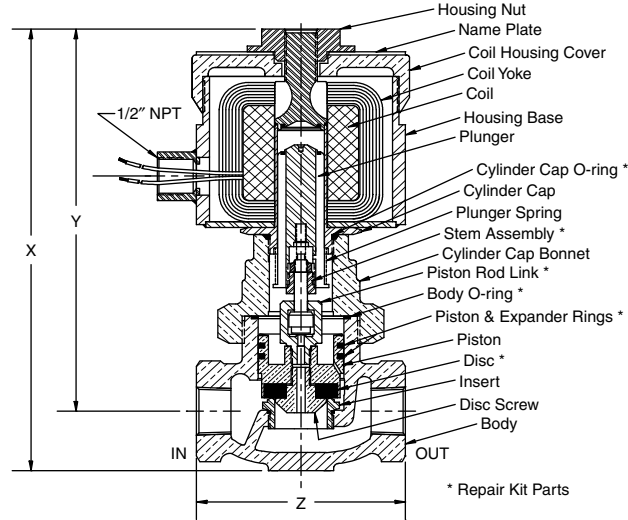
CATALOG NUM.	PIPE SIZE	MAIN SEAT ORIFICE	X	Y	Z	SHIPPING WEIGHT (lbs)	Cv
32400	1/4"	3/8"	8 5/8"	7 3/4"	2 1/16"	10	1.4
32410	3/8"	3/8"	8 5/8"	7 3/4"	2 1/16"	10	2.7
32420	1/2"	1/2"	8 3/4"	7 13/16"	3"	10	3.5
32430	3/4"	1"	9 3/8"	8 1/16"	4"	12	8.4
32440	1"	1"	9 3/8"	8 1/16"	4"	12	9.5
32450	1 1/4"	1 1/2"	10 1/2"	8 7/8"	5 1/16"	26	19.5
32460	1 1/2"	1 1/2"	10 1/2"	8 7/8"	5 1/16"	26	21.0



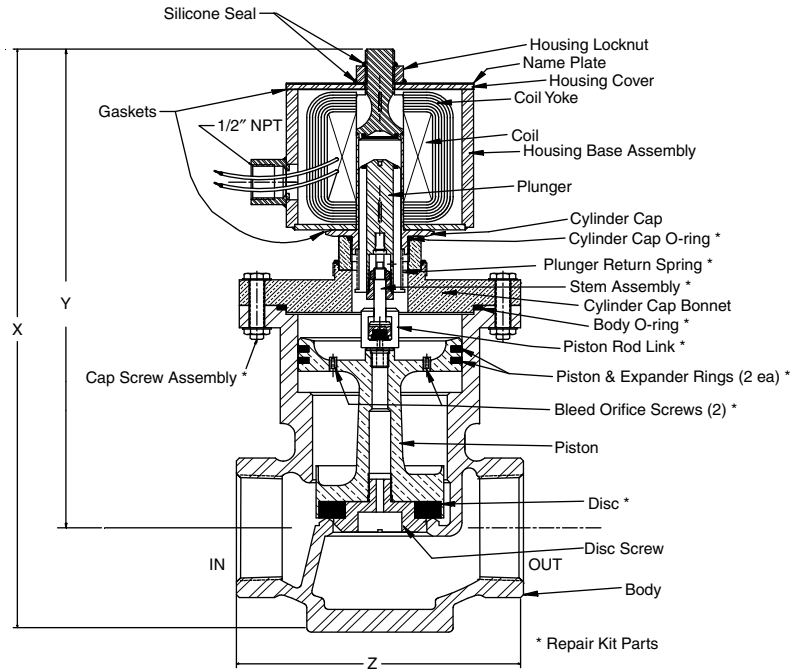
Normally open 1 1/2" 32460 valve, shown with explosion-proof NEMA 7 coil, housing and AC coil.

30400 Series

Dimensions, Shipping Weights, and Cv Flow Factors



Normally closed 1" 31440 valve,
shown with explosion-proof NEMA 7 coil. Housing an AC coil, and a soft
pilot seat.



Normally closed 2" 31570 valve,
shown with NEMA 4 coil. Housing an AC coil, and a soft pilot seat.

30400 Series Normally Closed Bronze

CATALOG NUM.	PIPE SIZE	MAIN SEAT ORIFICE	X	Y	Z	SHIPPING WEIGHT (lbs)	Cv
31400	1/4"	3/8"	7 7/8"	7"	2 1/16"	10	1.4
31410	3/8"	3/8"	7 7/8"	7"	2 1/16"	10	2.7
31420	1/2"	1/2"	8"	7 1/8"	3"	10	3.5
31430	3/4"	1"	8 5/8"	7 3/8"	4"	12	8.4
31440	1"	1"	8 5/8"	7 3/8"	4"	12	9.5
31450	1 1/4"	1 1/2"	10 5/8"	8 1/4"	5 1/16"	26	19.5
31460	1 1/2"	1 1/2"	10 5/8"	8 1/4"	5 1/16"	26	21.0
31570	2"	2"	13 3/16"	10 9/16"	6 1/8"	38	43.0
31580	2 1/2"	3"	14 1/4"	10 3/8"	8 1/2"	76	63.0
31590	3"	3"	14 1/4"	10 3/8"	8 1/2"	76	71.0

30400 Series

How to Order

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NORMAL POSITION OF VALVE (DE-ENERGIZED)

- 1 Normally closed
- 2 Normally open

VALVE MATERIAL & CYLINDER CAP STYLE

- 4 Bronze & threaded cylinder cap
- 5 Bronze & flanged cylinder cap

CONNECTION SIZES

0 1/4"		
1 3/8"	4 1"	7 2"
2 1/2"	5 1 1/4"	8 2 1/2"
3 3/4"	6 1 1/2"	9 3"

VOLTAGE AC/60 Hz

- 0 AC/50 Hz or DC voltage
- 1 100 VAC 3 200 VAC 5 460 VAC
- 2 115 VAC 4 230 VAC

VOLTAGE AC/50 Hz

- 0 AC/60 Hz or DC voltage
- 1 110 VAC 2 220 VAC

VOLTAGE DC

- 0 AC voltage
- 1 12 VDC 3 48 VDC 5 250 VDC
- 2 24 VDC 4 125 VDC

CONNECTION TYPE

- P NPT
- J British pipe thread

MAX. OPERATING PRESSURE (psig)

A 75	E 250	I 750
B 100	F 300	J 1000
C 150	G 350	K 1,200
D 200	H 500	L 1500
	O 50	

OPTIONS

- P Position indicator
- M Manual opening
- T Manual throttling

COIL HOUSING

- E Explosion-proof
- S Standard
- W Waterproof
- C Combined water- & explosion-proof

FLUID MEDIA TYPE

- 1 Gas
- 2 Liquid up to 40 SUS
- 3 Liquid from 41 SUS to 150 SUS
- 4 Steam
- 5 Cryogenic

SEAL MATERIAL

- A Teflon® B Buna N
- C Viton® D EPR

SEAT/PILOT MATERIAL

- A TFE pilot & TFE disc
- B Buna N pilot & Buna N disc
- C Viton® pilot & Viton® disc
- D EPR pilot & EPR disc
- E PCTFE pilot & PCTFE disc
- F Metal pilot & metal disc
- G Metal pilot & TFE disc
- H Metal pilot & Buna N disc
- I Metal pilot & Viton® disc
- J Metal pilot & EPR disc
- K Metal pilot & PCTFE disc

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