

# ATKOMATIC

## 15400 Series

Bronze, Semi-direct Lift, Pressure 0 to 300 psig (21 bar)  
Low Pressure Valve Configurable for Variety of Fluid Applications



### Features

- Semi-direct lift action for operation down to zero pressure differential
- Operation up to 300 psi (21 bar)
- Bronze valve material (naval M bronze)
- Available normally closed or normally open
- Media temperatures from  $-423^{\circ}\text{F}$  to  $+500^{\circ}\text{F}$  ( $-253^{\circ}\text{C}$  to  $+260^{\circ}\text{C}$ )
- Will handle fluids with viscosity up to 150 SUS
- Suitable for use with wide variety of fluid including: air, gasses, liquids, hydraulic fluids, steam, cryogenic fluids, and fluid not harmful to bronze
- Optional seat materials of PTFE, PCTFE, Buna N, Viton<sup>®</sup>, EPR, or metal (316 stainless steel pilot and/or brass piston seat) depending on fluid type and pressure
- Body seal materials of PTFE, Viton<sup>®</sup>, Buna N, or EPR
- Pipe sizes from  $\frac{1}{4}$ " through  $1\frac{1}{2}$ " NPT
- British BSPT ports are available
- Full ported valves: Cv from 1.1 through 21.5
- 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
- Valve position indicator option is available
- Class B coils are available for media temperatures of  $0^{\circ}\text{F}$  through  $220^{\circ}\text{F}$
- Class H coils are available: recommended for media temperatures of  $-423^{\circ}\text{F}$  ( $-253^{\circ}\text{C}$ ) through  $+500^{\circ}\text{F}$  ( $+260^{\circ}\text{C}$ )
- Treated 416 stainless steel plunger material for increased corrosion resistance

### Operational Pressures (No minimum pressure differential)

GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
300 / 21 bar	300 / 21 bar	300 / 21 bar	300 / 21 bar	300 / 21 bar	300 / 21 bar	125 / 9 bar	125 / 9 bar

Note: Normally open valves are rated for intermittent duty only on 15000 Series valves and are not recommended for cryogenic service above 50 psig

### Circle Seal Controls

2301 Wardlow Circle • P.O. Box 3300 • Corona, CA 92880

Phone (951) 270-6200 Fax (951) 270-6201

www.circlesealcontrols.com • am\_sales@circlesealcontrols.com • ind\_sales@circlesealcontrols.com

atkomatic solenoid

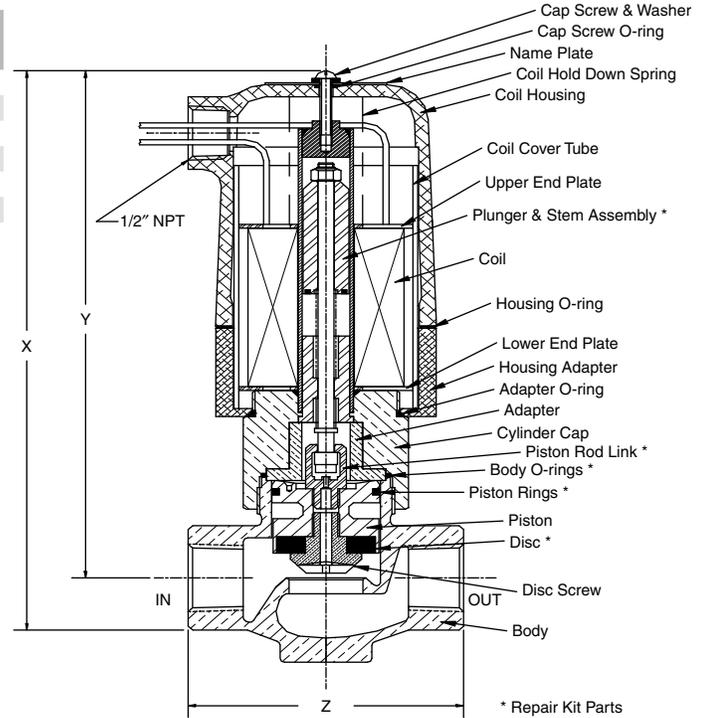
# 15400 Series

## Dimensions, Shipping Weights and Cv Flow Factors

### 15400 Series Normally Closed Bronze

CATALOG NUM. PREFIX		PIPE SIZE	MAIN SEAT ORIFICE	DIMENSIONS			SHIPPING WEIGHT (lbs)	Cv
CLASS B COIL	CLASS H COIL			X	Y	Z		
15400	15408	1/4"	1/2"	7 5/16"	6 1/2"	2 1/16"	5	1.4
15410	15418	3/8"	1/2"	7 5/16"	6 1/2"	2 1/16"	5	2.7
15420	15428	1/2"	1/2"	7 5/16"	6 1/2"	3"	6	3.5
15430	15438	3/4"	1"	7 15/16"	6 5/8"	3 3/4"	7	7.5
15440	15448	1"	1"	7 15/16"	6 5/8"	3 3/4"	7	9.1
—	15458	1 1/4"	1 1/2"	9 13/16"	8"	5 1/16"	20	19.5
—	15468	1 1/2"	1 1/2"	9 13/16"	8"	5 1/16"	20	21.0

Note: 1 1/4" & 1 1/2" valves have aluminum pistons (for reduced weight) and are not suitable for steam, water and other media harmful to aluminum.

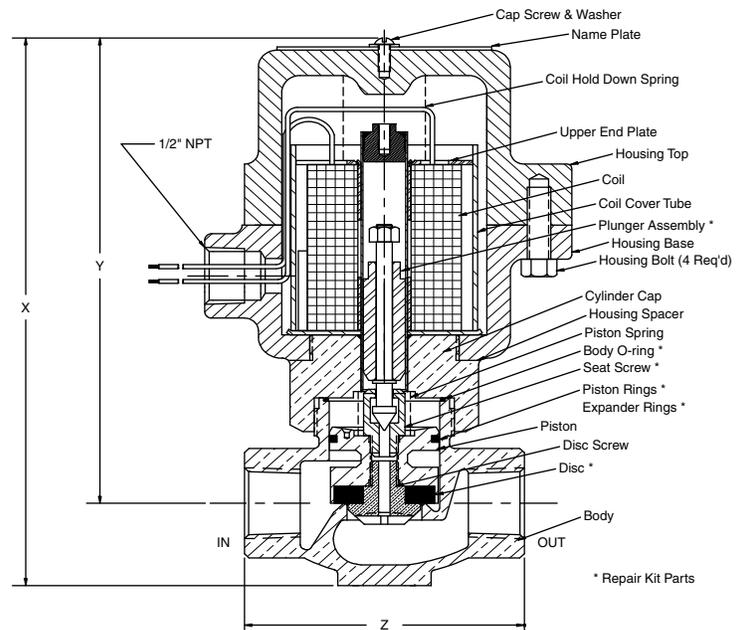


15447 1" normally open valve, shown with a waterproof NEMA 4 coil housing and a soft pilot seat

### 15400 Series Normally Open Bronze

CATALOG NUM. PREFIX		PIPE SIZE	MAIN SEAT ORIFICE	DIMENSIONS			SHIPPING WEIGHT (lbs)	Cv
CLASS B COIL	CLASS H COIL			X	Y	Z		
15401	15407	1/4"	1/2"	9 3/32"	8 3/16"	2 1/16"	5	1.4
15411	15417	3/8"	1/2"	9 3/32"	8 3/16"	2 1/16"	5	2.7
15421	15427	1/2"	1/2"	9 3/16"	8 3/16"	3"	6	3.5
15431	15437	3/4"	1"	9 1/2"	8 1/4"	3 3/4"	7	7.5
15441	15447	1"	1"	9 1/2"	8 1/4"	3 3/4"	7	9.1

15448 1" normally closed valve, shown with a explosion-proof NEMA 7 coil housing and a metal pilot seat



# 15400 Series

## How to Order

154 x x - x x x x x x x x x x x x x

### CONNECTION SIZE

- 0 1/4" pipe
- 1 3/8" pipe
- 2 1/2" pipe
- 3 3/4" pipe
- 4 1" pipe
- 5 1 1/4" pipe
- 6 1 1/2" pipe

### VALVE NORMAL POSITION

- 0 Normally closed & Class B coil
- 1 Normally open & Class B coil
- 7 Normally open & Class H coil
- 8 Normally closed & Class H coil

### VOLTAGE AC/60 Hz

- 0 AC/50Hz or DC voltage
- 1 24 VAC
- 2 100 VAC
- 3 115 VAC
- 4 200 VAC
- 5 230 VAC
- 6 460 VAC

### VOLTAGE AC/50 Hz

- 0 AC/60 Hz or DC voltage
- 1 24 VAC
- 2 110 VAC
- 3 220 VAC
- 4 380 VAC

### VOLTAGE DC

- 0 AC voltage
- 1 12 VDC
- 2 24 VDC
- 3 32 VDC
- 4 72 VDC
- 5 125 VDC
- 6 250 VDC

### COIL INSULATION RATING

- B Class B (155° C)
- H Class H (180° C)

### CONNECTION TYPE

- P NPT
- J British pipe thread

### 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 PTFE
- 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
- L Metal pilot & PCTFE disc

### MAX. OPERATING PRESSURE (psig)

- A 100
- B 125
- C 150
- D 200
- E 250
- F 300
- M 50