

# 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 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
- Pipe sizes from  $\frac{1}{4}^{\prime\prime}$  through  $1\frac{1}{2}^{\prime\prime}$  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

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*atkomatic solenoid*

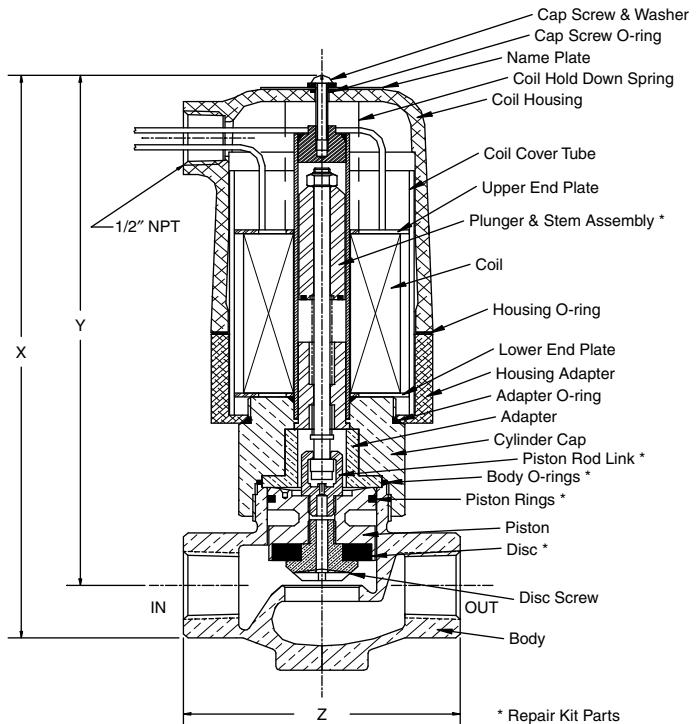
# 15400 Series

## Dimensions, Shipping Weights and Cv Flow Factors

### 15400 Series Normally Closed Bronze

CATALOG NUM. PREFIX		PIPE SIZE	MAIN SEAT ORIFICE	X	Y	Z	SHIPPING WEIGHT (lbs)	Cv
CLASS B COIL	CLASS H COIL							
15400	15408	1/4"	1/2"	7 5/16"	6 1/2"	2 1/16"	5	1.4
15410	15418	5/8"	1/2"	7 5/16"	6 1/2"	2 1/16"	5	2.7
15420	15428	1/2"	1/2"	7 7/16"	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.

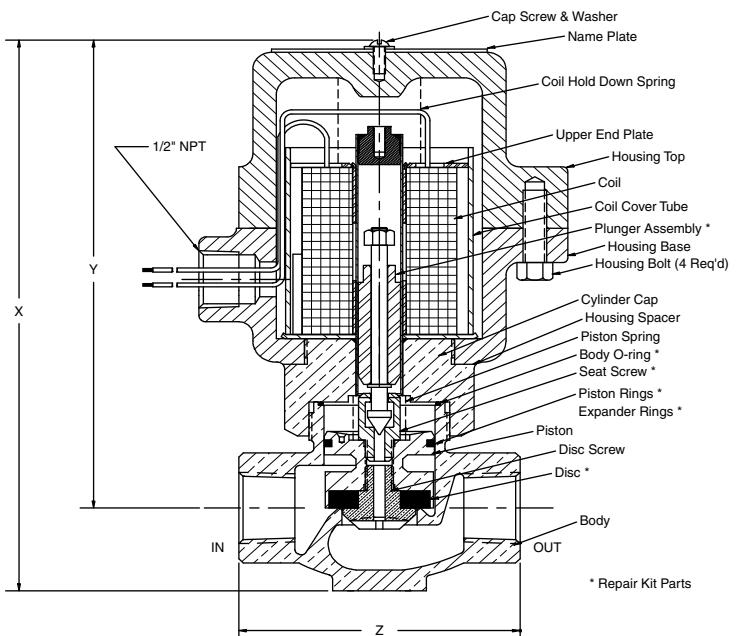


15447 1" normally open valve, shown with a waterproof NEMA 4 coil housing and a soft pilot seat

### 15400 Series Normally Open Bronze

CATALOG NUM. PREFIX		PIPE SIZE	MAIN SEAT ORIFICE	X	Y	Z	SHIPPING WEIGHT (lbs)	Cv
CLASS B COIL	CLASS H COIL							
15401	15407	1/4"	1/2"	9 3/32"	8 3/16"	2 1/16"	5	1.4
15411	15417	5/8"	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

### 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 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
L Metal pilot & PCTFE disc

### MAX. OPERATING PRESSURE (psig)

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