

# 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  $\frac{1}{4}$ " 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

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atkomatic solenoid

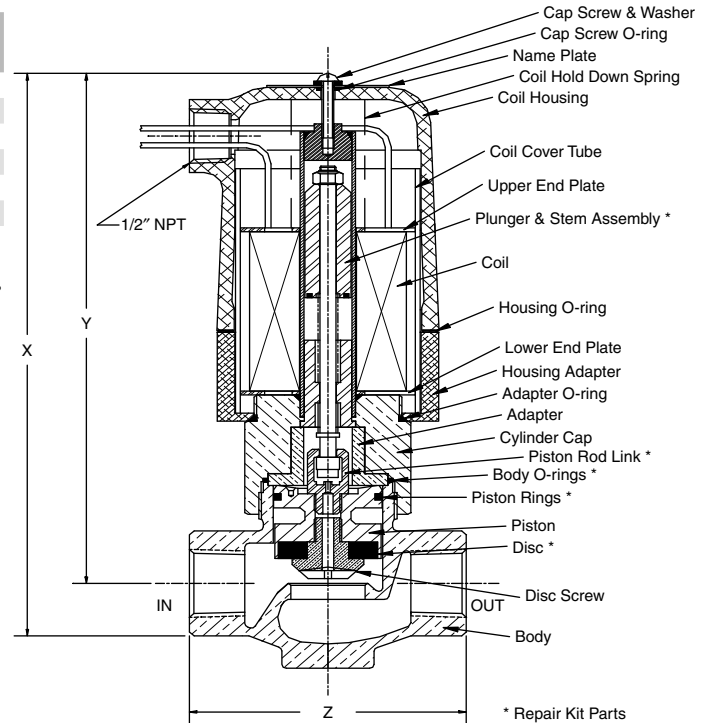
# 15400 Series

## Dimensions, Shipping Weights and Cv Flow Factors

### 15400 Series Normally Closed Bronze

CATALOG NUM. PREFIX		PIPE SIZE	MAIN SEAT ORIFICE				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 1/6"	20	19.5
—	15468	1 1/2"	1 1/2"	9 13/16"	8"	5 1/6"	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.

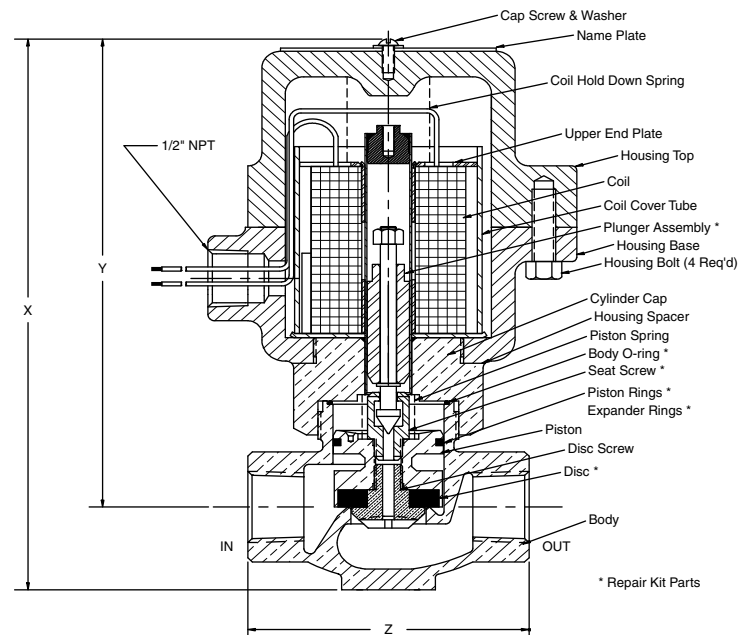


15447 1" normally open valve, shown with a waterproof NEMA 4 coil housing and a soft pilot seat

### 15400 Series Normally Open Bronze

CATALOG NUM. PREFIX		PIPE SIZE	MAIN SEAT ORIFICE				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*

**CONNECTION SIZE** ————  
**0** ¼" pipe      **1** ⅜" pipe  
**2** ½" pipe      **3** ¾" pipe  
**4** 1" pipe      **5** 1¼" pipe  
**6** 1½" 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