

# ATKOMATIC

## 14000 Series

Stainless Steel, Direct Lift, Pressure 0 to 3000 psig (207 bar)  
High Pressure Valve Configurable for Variety of Fluid Applications



### Features

- Direct acting valve
- Pressure to 3000 psig (207 bar) depending on fluid and orifice size
- Barstock construction
- Can be mounted in any orientation
- Stainless steel construction on all wetted parts: 316 for pressure containing parts and plunger material is 416 stainless that is treated for increased corrosion resistance
- Optional stem materials of PTFE, PCTFE, or 440 stainless steel
- Media temperatures from  $-423^{\circ}\text{F}$  to  $+400^{\circ}\text{F}$  ( $-253^{\circ}\text{C}$  to  $+204^{\circ}\text{C}$ )
- 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 corrosive fluids
- Ports are oriented inline or at  $90^{\circ}$  degrees (inlet on side & outlet on bottom)
- Pipe sizes from  $\frac{1}{4}''$  &  $\frac{3}{8}''$  NPT (British BSPT ports available)
- Flow orifices of  $\frac{1}{16}''$ ,  $\frac{1}{8}''$ ,  $\frac{3}{32}''$ , and  $\frac{1}{4}''$
- Cv from 0.093 to 0.40
- Compact size and relatively low current draw with AC coils
- 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

### Operational Pressures (No minimum pressure differential)

ORIFICE SIZE	GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
	AC	DC	AC	DC	AC	DC	AC	DC
$\frac{1}{16}$	3000 / 207 bar	3000 / 207 bar	3000 / 207 bar	3000 / 207 bar	3000 / 207 bar	3000 / 207 bar	200 / 14 bar	200 / 14 bar
$\frac{1}{8}$	2500 / 173 bar	2100 / 145 bar	2000 / 138 bar	1400 / 97 bar	1800 / 124 bar	1300 / 90 bar	200 / 14 bar	200 / 14 bar
$\frac{3}{32}$	1900 / 131 bar	1100 / 76 bar	1,400 / 97 bar	1100 / 76 bar	1000 / 69 bar	850 / 59 bar	200 / 14 bar	200 / 14 bar
$\frac{1}{4}$	450 / 31 bar	300 / 21 bar	300 / 21 bar	225 / 16 bar	275 / 19 bar	175 / 12 bar	200 / 14 bar	200 / 14 bar

### Circle Seal Controls

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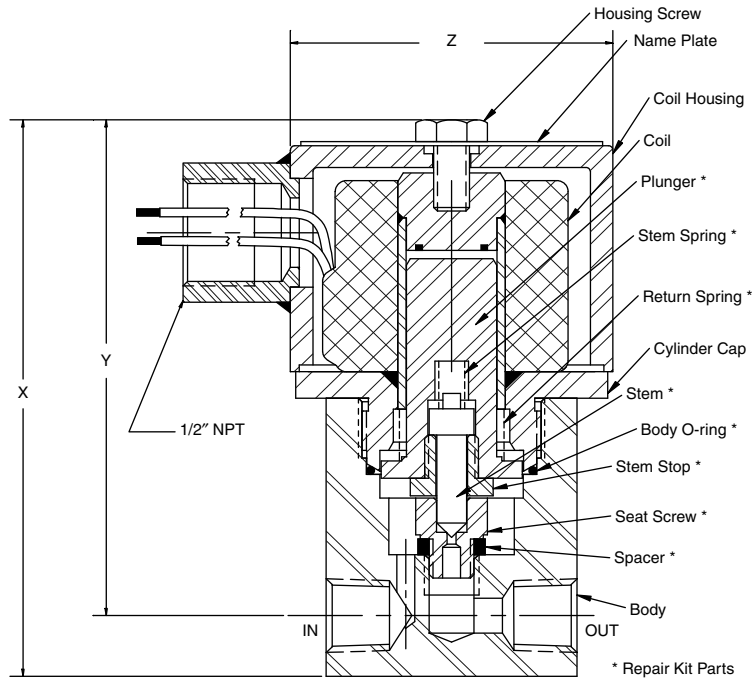
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atkomatic solenoid

# 14000 Series

## Dimensions, Shipping Weights and Cv Flow Factors



14810 3/8" valve, shown with a NEMA 7 explosion-proof coil housing & AC coil

### AC Valve

X	Y	Z	SHIPPING WEIGHT (lbs)
4"	3 3/8"	2"	4

### DC Valve

X	Y	Z	SHIPPING WEIGHT (lbs)
6 1/8"	5 3/8"	2 3/4"	6

### Cv Flow Factors

ORIFICE SIZE	Cv
1/16"	0.093
5/64"	0.15
3/32"	0.22
1/8"	0.44

CATALOG NUM. PREFIX	PIPE SIZE
14800	1/4"
14810	3/8"

## How to Order

**148** X **0** - X X X X X X X X X X X

### CONNECTION SIZE

0 1/4"      1 3/8"

### VOLTAGE AC/60 Hz

0 AC/50 Hz or DC voltage  
 1 100 VAC      4 230 VAC  
 2 115 VAC      5 460 VAC  
 3 200 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      2 24 VDC      3 125 VDC

### BODY PORT LOCATION

B Inline  
 H 90°

### CONNECTION TYPE

P NPT  
 J British pipe thread

### COIL HOUSING

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

### 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®

### STEM (SEAT) MATERIAL

A PTFE  
 B PCTFE  
 C 440 stainless steel

### ORIFICE SIZE

1 1/16"      3 3/32"  
 2 5/64"      4 1/8"

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