

ATKOMATIC

14000 Series

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



atkomatic solenoid

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 Teflon®, Kel-F®, or 440 stainless steel
- Media temperatures from -423° F to +400° F (-253° C to +204° 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° degrees (inlet on side & outlet on bottom)
- Pipe sizes from 1/4" & 3/8" NPT (British BSPT ports available)
- Flow orifices of 1/16", 5/64", 3/32", and 1/8"
- Cv from 0.093 to 0.40
- Compact size and relatively low current draw with AC coils
- Class H coils are standard
- Coils 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
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
5/64	2500 / 173 bar	2100 / 145 bar	2000 / 138 bar	1400 / 97 bar	1800 / 124 bar	1300 / 90 bar	200 / 14 bar	200 / 14 bar
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
1/8	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

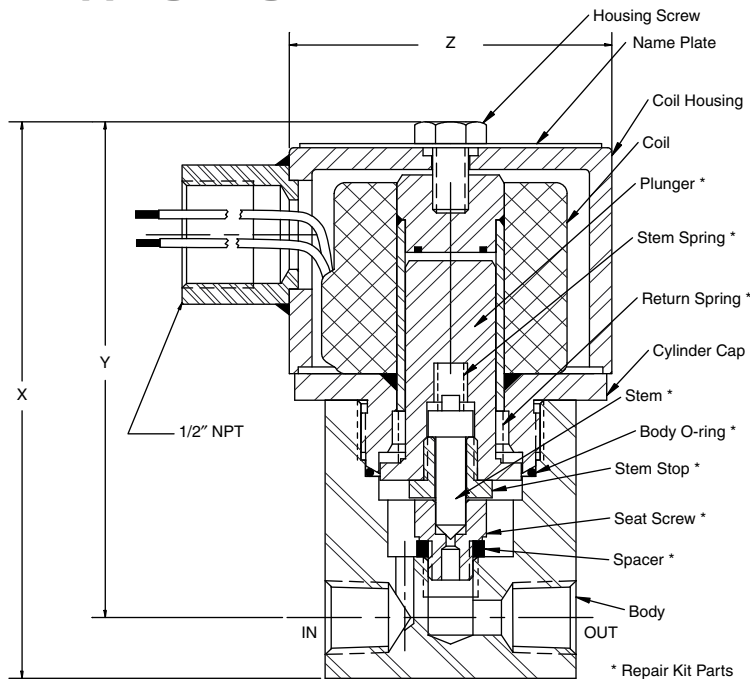
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14000 Series

Dimensions (inches), 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 1/16"	2"	4

DC Valve

X	Y	Z	SHIPPING WEIGHT (lbs)
6 1/16"	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

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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 Teflon®
 B Buna N
 C Viton®

STEM (SEAT) MATERIAL

A Teflon®
 B Kel-F®
 C 440 stainless steel

ORIFICE SIZE

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

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Teflon® is a registered trademark of DuPont.

Kel-F® is a registered trademark of 3M Corporation.