

# ATKOMATIC

## 40000 Series

Stainless Steel, Semi-direct Lift, Pressure 0 to 2500 psig (173 bar)  
High Temperature High Pressure Valve Configurable for a Variety of Fluid Applications



### Features

- Designed for high temperature fluids, maximum nominal temperature rating of 750° F (399° C)
- Operational pressure up to 2500 psi (173 bar)
- Extended neck to locate the solenoid at a distance from the hot fluid flow
- Carbon graphite piston rings
- 316 stainless steel body o-rings
- Pilot seats are made of Stellite® (a cobalt alloy) for temperature and wear resistance
- Piston is made of 17-4 stainless steel and the piston seat is Stellite®
- Available in normally open and normally closed versions
- Mounted with the coil oriented down to minimize convection heating of coil from the hot media
- Stainless steel construction on all pressure containing parts: 316 for machined parts and CF8M for cast parts.
- Plunger material is 416 stainless that is treated for increased corrosion resistance
- Semi-direct lift action for operation down to zero pressure differential
- Will handle fluids with viscosity up to 150 SUS
- Suitable for use with wide variety of fluid including: air, gasses, liquids, hydraulic fluids, steam, and corrosive fluids
- Heaviest duty and most rugged construction
- Removable 316 stainless steel body inserts (stainless steel trim)
- Full ported valves
- Available in normally closed configuration from ¼" to 1½" ports
- Cv from 1.1 to 21.5 in normally closed version
- Available in normally open configuration from ¼" to 1" ports
- Cv from 1.1 to 21.0 in normally open version
- British BSPT ports are available
- 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

### Circle Seal Controls

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atkomatic solenoid

# 40000 Series

## Operational Pressures (No minimum pressure differential)

Normally closed

ALL GASES		ALL LIQUIDS	
AC	DC	AC	DC
2500 / 173 bar	1500 / 104 bar	2500 / 173 bar	1000 / 69 bar

Normally open

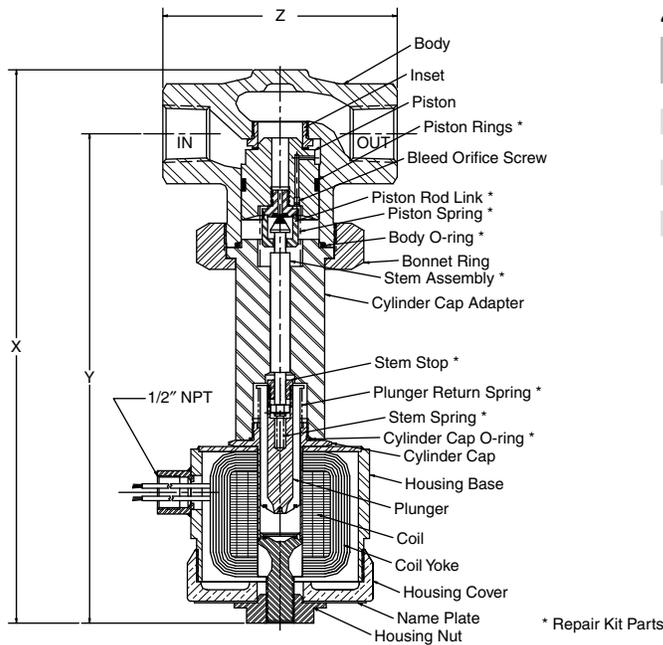
ALL GASES		ALL LIQUIDS	
AC	DC	AC	DC
2500 / 173 bar	2000 / 138 bar	2500 / 173 bar	1500 / 104 bar

Note: The operational pressure is limited to a maximum of 1500 psi (104 bar) when the fluid temperature is between 650° F and 750° F (+343° C and +399° C). The operational pressure is limited to a maximum of 2000 psi (133 bar) when the fluid temperature is between 550° F and 650° F (+288° C and +343° C). For fluid temperatures below 550° F (+288° C) the operational pressure is 2000 psi (138 bar) maximum.

Note: Normally open valves are rated for intermittent duty only on 40000 Series valves.

Note: Normally open 40000 Series valves are not available with 50 Hz coils for operational pressures above 1500 psi (104 bar).

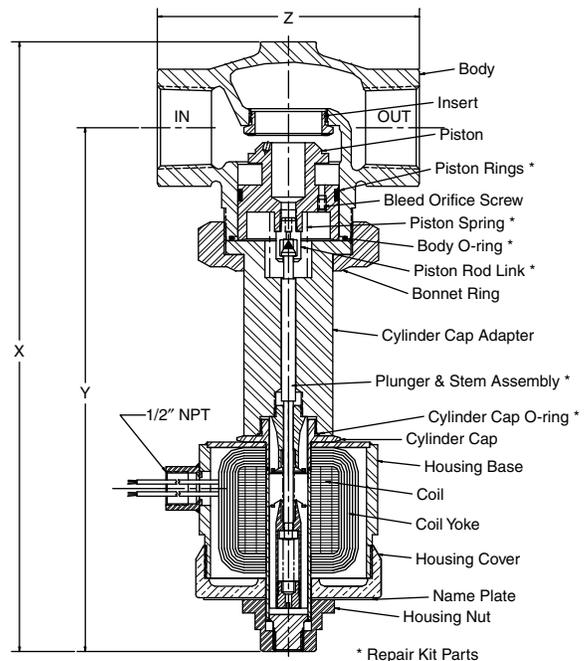
## Dimensions, Shipping Weights, and Cv Flow Factors



Normally closed 1" 41840 valve, shown with NEMA 7 explosion-proof coil housing and a AC coil

### 40000 Series Normally Closed

CATALOG NUM. PREFIX	PIPE SIZE	MAIN SEAT ORIFICE	X	Y	Z	SHIPPING WEIGHT (lbs)	Cv
41800	1/4"	3/8"	11 3/8"	10 9/16"	3"	14	1.1
41810	3/8"	1/2"	11 3/8"	10 9/16"	3"	14	2.5
41820	1/2"	3/4"	12 3/16"	10 7/8"	4 3/8"	17	5.1
41830	3/4"	3/4"	12 3/16"	10 7/8"	4 3/8"	17	7.5
41840	1"	1"	12 1/16"	11 1/4"	5 1/4"	23	12.5
41851	1 1/4"	1 1/2"	13 3/16"	13 1/16"	5 7/8"	22	21.0
41861	1 1/2"	1 1/2"	13 3/16"	13 1/16"	5 7/8"	22	21.5



Normally open 1 1/2" 42861 valve, shown with a NEMA 7 explosion-proof coil housing and a AC coil

### 40000 Series Normally Open

CATALOG NUM. PREFIX	PIPE SIZE	MAIN SEAT ORIFICE	X	Y	Z	SHIPPING WEIGHT (lbs)	Cv
42800	1/4"	3/8"	11 1/2"	10 9/16"	3"	14	1.1
42810	3/8"	1/2"	11 1/2"	10 9/16"	3"	14	2.5
42820	1/2"	3/4"	12 3/16"	11 1/8"	4 3/8"	17	5.1
42830	3/4"	3/4"	12 3/16"	11 1/8"	4 3/8"	17	7.3
42840	1"	1"	13 3/16"	11 1/8"	5 1/4"	23	12.5

# 40000 Series

## How to Order

