

ATKOMATIC

50000 Series

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



Features

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|---|--|
| • Designed for high temperature fluids, up to 750° F (399° C) | • Stainless steel construction on all pressure containing parts: 316 for machined parts and CF8M for cast parts. |
| • Direct lift valve | • Plunger material is 416 stainless that is treated for increased corrosion resistance |
| • Barstock construction | • Will handle fluids with viscosity up to 150 SUS |
| • Mounted with coil oriented down to minimize convection heating of coil from hot media | • Suitable for use with wide variety of fluid including: air, gasses, liquids, hydraulic fluids, steam, cryogenic fluids, and corrosive fluids |
| • Flow orifices of 1/16", 3/32", 1/8", and 3/16" | • Stellite® seat (cobalt alloy for wear and corrosion resistance) |
| • Cv from 0.093 to 0.72 | • Extended stem to reduce heat transfer from fluid to coil (two lengths available depending on fluid temperature) |
| • Available with NPT pipe ports or welded pipe stubs as "standard" catalog items | • Class H coils are standard |
| • Normally closed and normally open versions available | |
| • Available in pipe size from 1/8" through 1" NPT or 1/8" through 1" tube stubs | |
| • Pressures up to 3000 psig (207 bar) | |

Circle Seal Controls

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atkomatic solenoid

50000 Series

Operational Pressures (No minimum pressure differential)

Normally closed, extended stem, 50800–50850

ORIFICE SIZE	GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS	
	AC	DC	AC	DC	AC	DC
1/16	2500	2500	2500	2500	2500	2500
3/32	2500	2500	2000	2000	2000	2000
1/8	1,200	1,200	900	900	900	900
3/16	500	500	350	350	350	350

Normally closed, short stem, 50900–50950

ORIFICE SIZE	GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS	
	AC	DC	AC	DC	AC	DC
1/16	3000	3000	3000	3000	3000	3000
3/32	3000	3000	2500	2500	2500	2500
1/8	1,200	1,200	1000	1000	1000	1000
3/16	600	600	450	450	450	450

Normally open, extended stem, 50801–50851

ORIFICE SIZE	GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS	
	AC	DC	AC	DC	AC	DC
1/16	2500	2500	2000	2000	2000	2000
3/32	1,200	1,200	1000	1000	1000	1000
1/8	400	400	350	350	350	350
3/16	250	250	150	150	150	150

Normally open, short stem, 50901–50951

ORIFICE SIZE	GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS	
	AC	DC	AC	DC	AC	DC
1/16	3000	3000	3000	3000	3000	3000
3/32	1,600	1,600	1,200	1,200	1,200	1,200
1/8	400	400	350	350	350	350
3/16	250	250	150	150	150	150

NOTE: Normally open valves are rated for intermittent duty only on 50000 Series valves.

NOTE: Normally open 50000 Series valves are not available with 50 Hz coils for operational pressures above 1500 psi.

Dimensions and Shipping Weights

50800 Series Normally Closed

(extended stem for fluid temperatures of 500° F to 750° F)

CATALOG NUM.					SHIPPING
PREFIX	PIPE SIZE	X	Y	Z	WEIGHT (lbs)
50800	1/8"	10"	8 1/8"	4 1/16"	14
50810	1/4"	10"	8 1/8"	4 1/16"	14
50820	3/8"	10"	8 1/8"	4 1/16"	14
50830	1/2"	10"	8 1/8"	4 1/16"	14
50840	3/4"	10"	8 1/8"	4 1/16"	14
50850	1"	10"	8 1/8"	4 1/16"	14

50900 Series Normally Closed

(standard stem for fluid temperatures up to 500° F)

CATALOG NUM.					SHIPPING WEIGHT (lbs)
PREFIX	PIPE SIZE	X	Y	Z	
50900	1/8"	7 1/2"	5 3/4"	4 1/16"	10
50910	1/4"	7 1/2"	5 3/4"	4 1/16"	10
50920	3/8"	7 1/2"	5 3/4"	4 1/16"	10
50930	1/2"	7 1/2"	5 3/4"	4 1/16"	10
50940	3/4"	7 1/2"	5 3/4"	4 1/16"	10
50950	1"	7 1/2"	5 3/4"	4 1/16"	10

50901 Series Normally Open

(standard stem for fluid temperatures up to 500° F)

CATALOG NUM.					SHIPPING WEIGHT (lbs)
PREFIX	PIPE SIZE	X	Y	Z	
50901	1/8"	8 5/8"	6 7/8"	4 1/16"	12
50911	1/4"	8 5/8"	6 7/8"	4 1/16"	12
50921	3/8"	8 5/8"	6 7/8"	4 1/16"	12
50931	1/2"	8 5/8"	6 7/8"	4 1/16"	12
50941	3/4"	8 5/8"	6 7/8"	4 1/16"	12
50951	1"	8 5/8"	6 7/8"	4 1/16"	12

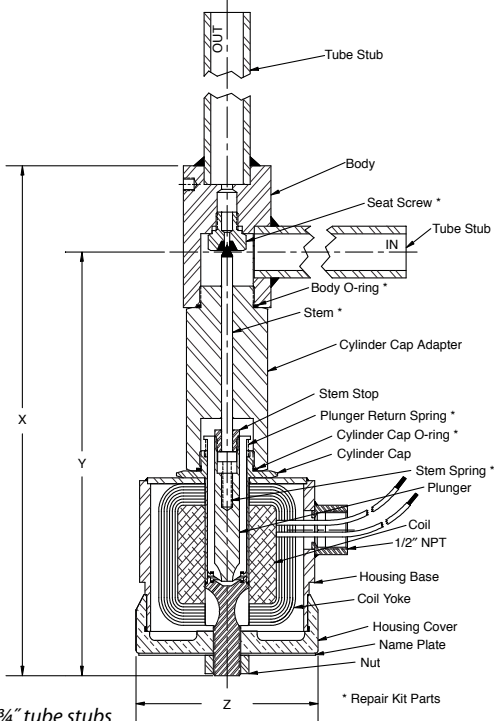
Cv Flow Factors

ORIFICE SIZE	Cv
1/16	0.093
3/32	0.22
1/8	0.44
3/16	0.72

50801 Series Normally Open

(extended stem for fluid temperatures of 500° F to 750° F)

CATALOG NUM.					SHIPPING
PREFIX	PIPE SIZE	X	Y	Z	WEIGHT (lbs)
50801	1/8"	11 1/8"	9 1/4"	4 1/16"	16
50811	1/4"	11 1/8"	9 1/4"	4 1/16"	16
50821	3/8"	11 1/8"	9 1/4"	4 1/16"	16
50831	1/2"	11 1/8"	9 1/4"	4 1/16"	16
50841	3/4"	11 1/8"	9 1/4"	4 1/16"	16
50851	1"	11 1/8"	9 1/4"	4 1/16"	16



50840 valve, shown with optional 3/4" tube stubs

50000 Series

How to Order

