

ATKOMATIC

30800 Series

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



Features

- | | |
|---|---|
| • Stainless steel construction on all wetted parts: 316 for machined parts and CF8M for cast parts | • Heaviest duty and most rugged construction |
| • Plunger material is 416 stainless that is treated for increased corrosion resistance | • Removable 316 stainless steel body inserts (stainless steel trim) |
| • Semi-direct lift action for operation down to zero pressure differential | • Available in normally closed configuration from ¼" to 2" ports |
| • Operation up to 3000 psig (207 bar) | • Available in normally open configuration from ¼" to 1½" ports |
| • Media temperatures from -423° F to +500° F (-253° C to +260° C) | • British BSPT ports are available |
| • Will handle fluids with viscosity up to 150 SUS | • Full ported valves |
| • Suitable for use with wide variety of fluid including: air, gasses, liquids, hydraulic fluids, steam, cryogenic fluids, and corrosive fluids | • Cv from 2.5 to 45 in normally closed valves |
| • Optional seat materials of Teflon®, PCTFE, Buna N, Viton®, EPR, or metal (316 pilot seat and/or 316 piston seat) depending on fluid type and pressure | • Cv from 2.5 to 21.5 in normally open valves |
| • Body seal materials of Teflon®, Viton®, Buna N, or EPR | • 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 |
| | • Manual opening device is available as an option |
| | • Valve position indicator option is available |

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atkomatic solenoid

30800 Series

Operational Pressures (No minimum pressure differential)

Normally closed, 1/4"-1", 31800-31860

GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
3000	1500	3000	1000	3000	1000	300	300

Normally closed, 1 1/4"-2" with threaded cylinder cap, 31851-31871

GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
1500	1500	1500	1000	1500	1000	300	300

Normally open, 1/4"-1", 32800-32860

GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
3000	2000	3000	1500	3000	1,250	300	300

Normally open, 1 1/4"-2" with threaded cylinder cap, 32851-32871

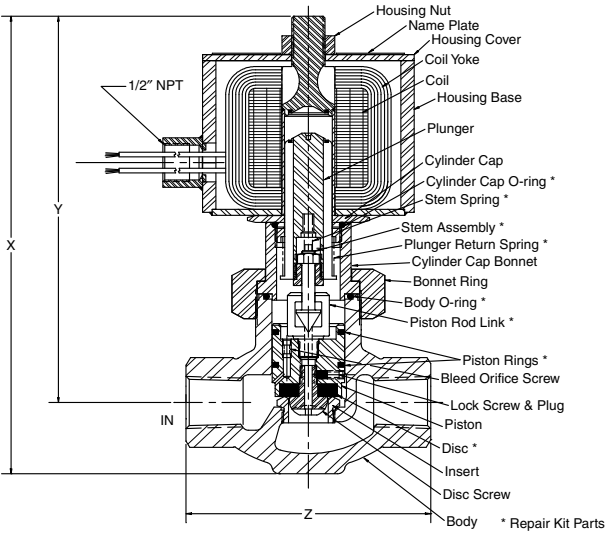
GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
1500	1500	1500	1000	1500	1000	300	300

Note: Normally open valves are rated for intermittent duty only on 30000 Series valves and are not recommended for cryogenic service above 50 psig.

Note: Normally open 30000 Series valves are not available with 50 Hz coils for operational pressures above 1500 psi.

Note: Buna N, Viton® and EPR seats are limited to 500 psi

Dimensions, Shipping Weights, and Cv Flow Factors



Normally closed 3/4" 31830 valve, shown with NEMA 1 coil housing, AC coil and a metal seat

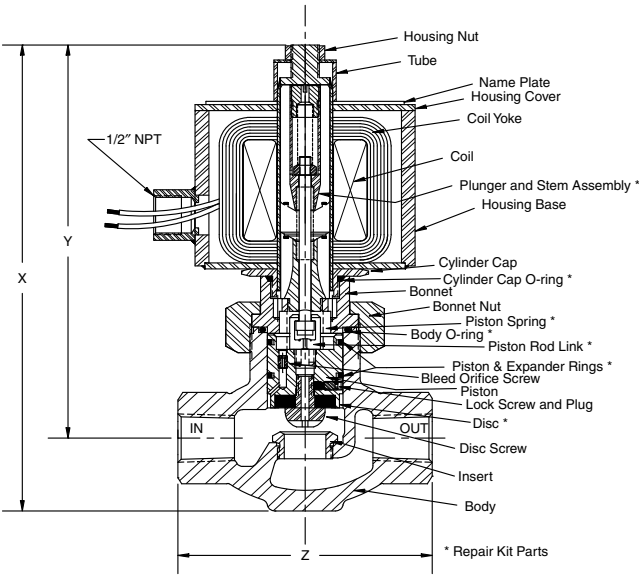
30800 Series Normally Closed Stainless Steel

CATALOG NUM.	PIPE SIZE	MAIN SEAT ORIFICE	X	Y	Z	SHIPPING WEIGHT (lbs)	Cv
31800	1/4"	3/8"	8 1/16"	7 1/16"	3"	10	1.1
31810	3/8"	3/8"	8 1/16"	7 1/16"	3"	10	2.5
31820	1/2"	3/4"	8 1/16"	7 7/16"	4 3/8"	13	5.1
31830	3/4"	3/4"	8 1/16"	7 7/16"	4 3/8"	13	7.5
31840	1"	1"	9 1/2"	8 1/16"	5 1/4"	19	12.5
31850	1 1/4"	1 1/2"	10 1/2"	8 3/8"	7 3/8"	50	21.0
31860	1 1/2"	1 1/2"	10 1/2"	8 3/8"	7 3/8"	50	21.5
31851	1 1/4"	1 1/2"	10 3/16"	8 3/8"	5 7/8"	22	21.0
31861	1 1/2"	1 1/2"	10 3/16"	8 3/8"	5 7/8"	22	21.5
31871	2"	2"	12 3/8"	9 13/16"	7"	32	45.0

Note: 1 1/4" & 1 1/2" valve models 31850 and 31860 are rated for 3000 psig, constructed with a flanged body & cylinder cap and models 31851, 31861, and 31871 are constructed with a threaded cylinder cap & body and are rated for 1500 psi.

30800 Series Normally Open Stainless Steel

CATALOG NUM.	PIPE SIZE	MAIN SEAT ORIFICE	X	Y	Z	SHIPPING WEIGHT (lbs)	Cv
32800	1/4"	3/8"	8 3/8"	7 3/8"	3"	10	1.1
32810	3/8"	3/8"	8 3/8"	7 3/8"	3"	10	2.5
32820	1/2"	3/4"	9 1/2"	8"	4 3/8"	13	5.1
32830	3/4"	3/4"	9 1/2"	8"	4 3/8"	13	7.3
32840	1"	1"	10 1/2"	8 1/16"	5 1/4"	19	12.5
32851	1 1/4"	1 1/2"	10 1/2"	8 1/2"	5 7/8"	22	21.0
32861	1 1/2"	1 1/2"	10 1/2"	8 1/2"	5 7/8"	22	21.5



Normally open 3/4" 32830 valve, shown with NEMA 1 coil housing, AC coil and a soft pilot seat

30800 Series

How to Order

PED3 x **8** x x - x x x x x x x x x

PED CERTIFICATION (optional, otherwise blank)

NORMAL POSITION OF VALVE (DE-ENERGIZED)

1 Normally closed
2 Normally open

CONNECTION SIZES

0 1/4"
1 3/8" 4 1" 7 2"
2 1/2" 5 1 1/4" 8 2 1/2"
3 3/4" 6 1 1/2" 9 3"

BODY STYLE

0 Threaded cylinder cap on 1/4"-1" and flanged cylinder cap on 1 1/4"-1 1/2" (3000 psig)
1 Screwed cylinder cap on 1 1/4"-2" (1500 psig)

VOLTAGE AC/60 Hz

0 AC/50 Hz or DC voltage
1 100 VAC 3 200 VAC 5 460 VAC
2 115 VAC 4 230 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 3 48 VDC 5 250 VDC
2 24 VDC 4 125 VDC

CONNECTION TYPE

P NPT
J British pipe thread

MAX. OPERATING PRESS (psig)

A 75 F 300 K 1,200
B 100 G 350 L 1500
C 150 H 500 M 3000
D 200 I 750 N 2000
E 250 J 1000 O 50

OPTIONS

P Position indicator
M Manual opening

COIL HOUSING

A ATEX approved 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
K Metal pilot & PCTFE disc

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