# **A** tkomatic

## **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
- Plunger material is 416 stainless that is treated for increased corrosion resistance
- Semi-direct lift action for operation down to zero pressure differential
- Operation up to 3000 psig (207 bar)
- Media temperatures from -423° F to +500° F (-253° C to +260° 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
- 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
- Body seal materials of Teflon®, Viton®, Buna N, or EPR

- Heaviest duty and most rugged construction
- Removable 316 stainless steel body inserts (stainless steel trim)
- Available in normally closed configuration from ¼" to 2" ports
- Available in normally open configuration from ¼" to 1½" ports
- British BSPT ports are available
- Full ported valves
- Cv from 2.5 to 45 in normally closed valves
- Cv from 2.5 to 21.5 in normally open valves
- · 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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## **30800 Series**

#### **Operational Pressures** (No minimum pressure differential)

Normally closed, ¼"-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, 11/4"-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, ¼″–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, 11/4"-2" with threaded cylinder cap, 32851-32871

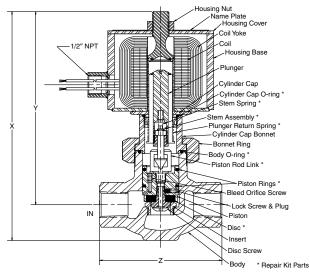
GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
1500	1500	1500	1000	1500	1000	300	300

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

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 ¾" 31830 valve, shown with NEMA 1 coil housing, AC coil and a metal seat

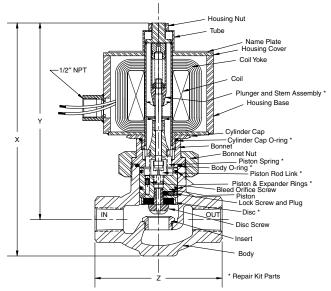
#### 30800 Series Normally Closed Stainless Steel

CATALOG NUM. PREFIX	PIPE SIZE	MAIN SEAT ORIFICE	X	Y	Z	SHIPPING WEIGHT (lbs)	Cv
31800	1/4″	3∕8″	81/16"	71/16"	3″	10	1.1
31810	¾″	¾″	81/16"	71/16"	3″	10	2.5
31820	1/2"	3/4"	811/16"	7%6″	4%″	13	5.1
31830	3/4″	3/4″	811/16"	7%6″	4%″	13	7.5
31840	1″	1″	91/2"	81/16"	51/4"	19	12.5
31850	11/4"	11/2"	10½″	8%″	7%″	50	21.0
31860	11/2"	11/2"	10½″	8%"	7%″	50	21.5
31851	11/4"	11/2"	10¾6″	8%″	5%"	22	21.0
31861	11/2"	11/2"	10¾6″	8%″	5%"	22	21.5
31871	2″	2″	12%″	913/16"	7″	32	45.0

Note: 114" & 11½" 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.

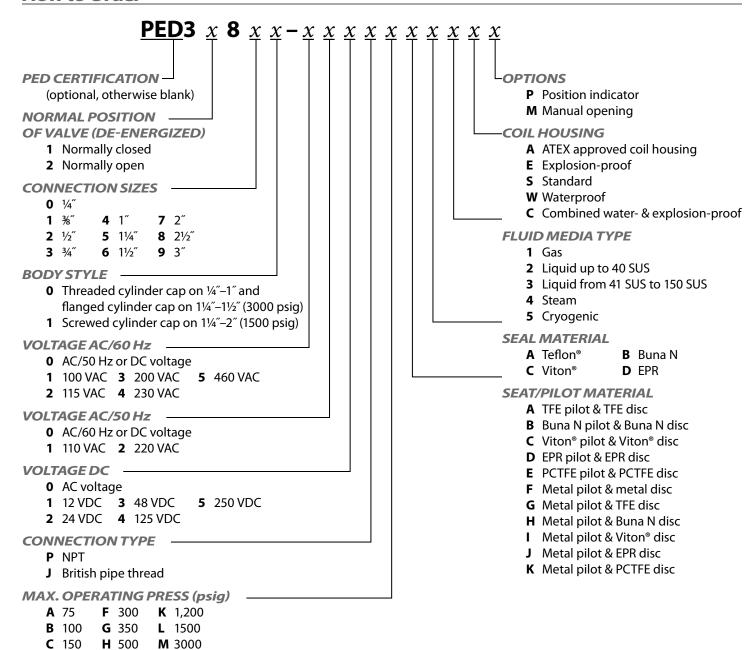
#### 30800 Series Normally Open Stainless Steel

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CATALOG NUM. PREFIX	PIPE SIZE	MAIN SEAT ORIFICE	X	Y	Z	SHIPPING WEIGHT (lbs)	Cv
32800	1/4"	¾″	8%"	7%"	3″	10	1.1
32810	%″	¾″	8%"	7%″	3″	10	2.5
32820	1/2"	3/4"	91/2"	8″	4%"	13	5.1
32830	3/4"	3/4"	91/2"	8″	4%"	13	7.3
32840	1″	1″	101/16"	8%6"	51/4"	19	12.5
32851	11⁄4″	11/2"	10½″	81/2"	5%"	22	21.0
32861	11/2"	11/2"	10½″	81/2"	5%"	22	21.5



Normally open ¾″ 32830 valve, shown with NEMA 1 coil housing, AC coil and a soft pilot seat

### **How to Order**



**D** 200

**E** 250

**I** 750

**J** 1000 **O** 50

**N** 2000