Аткоматіс

8000 Series

Stainless Steel, Pilot-piston, Pressure 5 to 4000 psig (0.4 to 276 bar) High Pressure Valve Configurable for Variety of Fluid Applications



Features

reatures	
 Pressure to 4000 psig depending on fluid and coil 	 Optional pilot and piston seat materials of PTFE,
type (276 bar)	PCTFE, Buna N, Viton [®] , EPR, or 316 stainless steel
 Pilot operated: require a minimum pressure 	depending on fluid type and pressure
differential of 5 psig (0.4 bar)	 Body seal materials of PTFE, Viton[®], Buna N, or EPR
Full ported valves	 Pipe ports of ¼", through 2" NPT (1½" max. in
 Available in normally open and normally closed 	4000 psig (276 bar) version); British BSPT ports
versions	available
 Fluid temperatures of –423° F (-253° C) through 	Cv from 1.1 through 45
+500° F (+260° C)	Class H coils standard
Stainless steel construction on all wetted parts—316	Can use a class H double wound coil (requires
for machined parts and CF8M for cast parts. Plunger	use with a relay to drop put primary coil winding
material is 416 stainless that is treated for increased	after valve actuation) depending on pressure (for
corrosion resistance	operation up to 4000 psi (276 bar))
Will handle fluids with viscosity up to 200 SUS	Coil housings available in NEMA 1 (standard),
Suitable for use with wide variety of fluid including:	NEMA 4 (waterproof), NEMA 7 (explosion-proof for
air, gasses, liquids, hydraulic fluids, steam, cryogenic	hazardous locations), and combination NEMA 4 & 7
fluids, and corrosive fluids	Manual opening device is available as an option
Removable 316 stainless steel body inserts (stainless	
steel trim)	
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Circle Seal Controls

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8000 Series

Operational Pressures (5 psid minimum pressure differential) Single wound coils normally closed ¹/₄" through 2" 8000–8710

GAS	GASES LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM		
AC	DC	AC	DC	AC	DC	AC	DC
1500 / 104 bar	1500 / 104 bar	1500 / 104 bar	1000 / 69 bar	1500 / 104 bar	500 / 34.5 bar	300 / 21 bar	250 / 17.3 bar

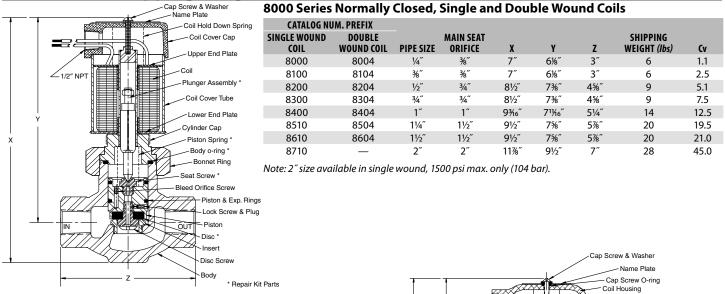
Single wound coils normally open 1/4" through 2" 8001-8711

GASES		LIQUIDS	QUIDS TO 40 SUS LIQUIDS OVE		/ER 40 SUS	STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
1500 / 104 bar	800 / 55.2 bar	1000 / 69 bar	350 / 24.2 bar	700 / 48.3 bar	300 / 21 bar	250 / 17.3 bar	250 / 17.3 bar

GASES		LIQUIDS	ro 40 SUS	LIQUIDS OVER 40 SUS		STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
4000 / 276 bar	3000 / 207 bar	4000 / 276 bar	2500 / 173 bar	4000 / 276 bar	2000 / 138 bar	300 / 21 bar	300 / 21 bar

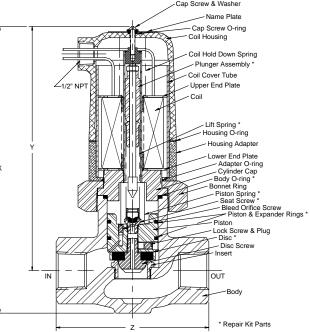
Note: Normally open valves are rated for intermittent duty only on 8000 Series. **Note:** Buna N, Viton[®] and EPR seats are limited to 500 psig (34.5 barg).

Dimensions, Shipping Weights, and Cv Flow Factors



Normally closed ½" 8200 valve, shown with a NEMA 1 coil housing and a metal pilot seat

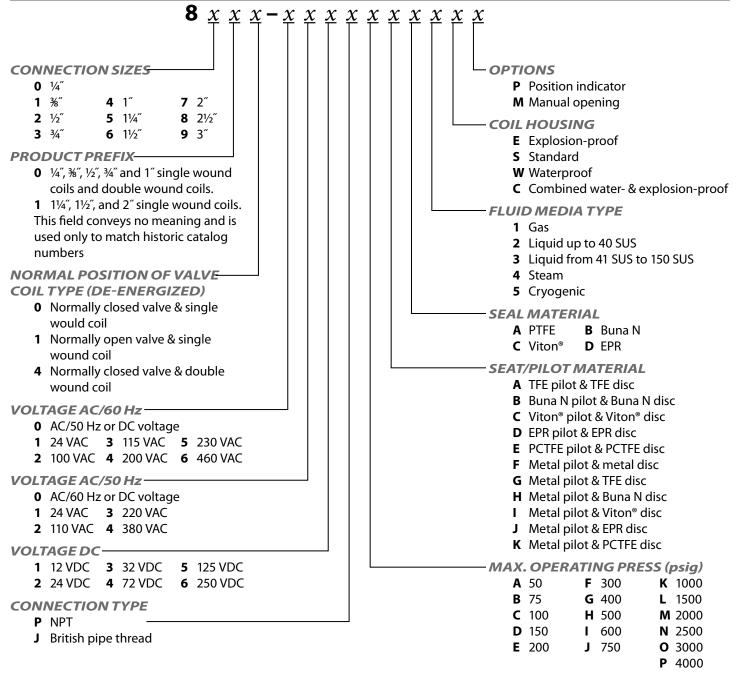
8000 Series Normally Open Single Wound Coils Only									
CATALOG NUM. PREFIX	PIPE SIZE	MAIN SEAT ORIFICE	х	Y	z	SHIPPING WEIGHT <i>(Ibs)</i>	Cv		
8001	1⁄4″	∛%″	8%″	7 ⁵⁄16″	3″	6	1.1		
8101	¾″	∛″	8%″	7 5⁄16″	3″	6	2.5		
8201	1⁄2″	3⁄4″	9%″	81⁄2″	4%″	9	5.1		
8301	3⁄4″	3⁄4″	9%″	81⁄2″	4%″	9	7.5		
8401	1″	1″	10¾6″	8 ¹ ¾6″	5¼″	14	12.5		
8511	11⁄4″	11⁄2″	1011/16″	8 ¹ 3⁄16″	5%″	20	19.5		
8611	11⁄2″	11⁄2″	1011/16″	8 ¹ ¾6″	5%″	20	21.0		
8711	2″	2″	13″	10%″	7″	28	45.0		



Normally open 1" 8401 valve, shown with a NEMA 4 waterproof coil housing and a soft pilot seat

8000 Series

How to Order



Viton[®] is a registered trademark of DuPont Dow Elastomers. PTFE is a registered trademark of DuPont.