# А ткоматіс

## 4000 & 5000 Series

Bronze, Pilot-piston, Pressure 5 to 500 psig (0.4 to 34.5 bar) Medium Pressure Valve Configurable for Variety of Fluid Applications



#### **Features**

<ul> <li>Pressures to 500 psig (0.4 to 34.5 bar)</li> </ul>	Bronze valve material (naval M Bronze)
Full ported valves	Removable 316 stainless steel body inserts (stainless
Pilot operated: require a minimum pressure	steel trim) 4000 Series only
differential of 5 psig (0.4 bar)	Coil housings available in NEMA 1 (standard),
For use with any gas or liquid (max. viscosity of	NEMA 4 (waterproof), NEMA 7 (explosion-proof for
200 SSU), including steam and cryogenics, that is not	hazardous locations), and combination NEMA 4 & 7
harmful to bronze	Manual opening and throttling devices are available
• Pipe sizes of ¼" through 1½" NPT for 4000 Series and	as options
2" through 3" NPT in 5000 Series (British BSPT ports	Class B coils are available for media temperatures of
available)	0° F (-18° C) through +220° F (104° C) (available on
Cv from 1.4 to 71	both normally closed and normally open valves)
Available in normally open and normally closed	Class H coils are available: recommended for
versions	media temperatures of -423° F (-253° C) through
<ul> <li>Fluid temperatures from -423° F to +500° F (-253° C</li> </ul>	+500° F(+260° C) (available on both normally closed
to +260° C)	and normally open valves)
<ul> <li>Optional seat materials of PTFE, PCTFE, Buna N,</li> </ul>	
Viton <sup>®</sup> , EPR, or metal (316 stainless steel pilot and/	
or brass piston seat) depending on fluid type and	
pressure	
Body seal materials of PTFE, Viton <sup>®</sup> , Buna N, or EPR.	

## Circle Seal Controls

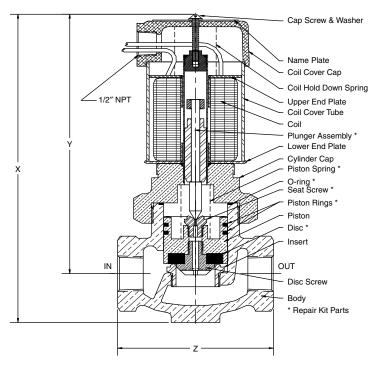
## 4000 & 5000 Series

**Operational Pressures** (5 psid minimum pressure differential)

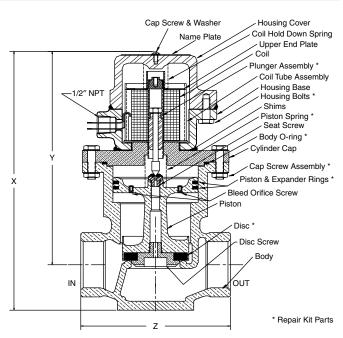
GASES		LIQUIDS TO 40 SUS LIQUIDS OVER 40 SUS		STEAM				
	AC	DC	AC	DC	AC	DC	AC	DC
	500	500	500	500	500	300	200	200

Note: Normally open valves are rated for intermittent duty only unless other operational parameters are at their nominal values.

## Dimensions, Shipping Weights, and Cv Flow Factors



Normally closed 1" 4408 valve, shown with a NEMA 1 coil housing and a metal pilot seat



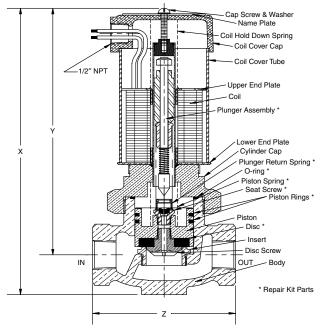
Normally closed 2" 5700 Valve, shown with a NEMA 7 explosion-proof coil housing and a soft pilot seat)

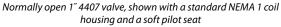
#### **Normally Closed**

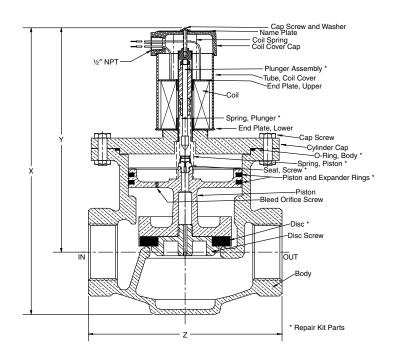
CATALOG N	UM. PREFIX	_	MAIN SEAT				SHIPPING	
CLASS B COIL	CLASS H COIL	<b>PIPE SIZE</b>	ORIFICE	Х	Y	Z	WEIGHT (Ibs)	Cv
4000	4008	1⁄4″	∛″	7%″	6¼″	2¹¾6″	6	1.4
4100	4108	⅔″	∛8″	7%″	6¼″	2¹¾6″	6	2.7
4200	4208	1⁄2″	1⁄2″	7%″	6¼″	3″	8	3.5
4300	4308	3⁄4″	1″	8¼″	7″	4″	9	8.4
4400	4408	1″	1″	8¼″	7″	4″	9	9.5
4500	4508	1¼″	11⁄2″	9 <sup>1</sup> ¾6″	8″	51⁄16″	15	19.5
4600	4608	11⁄2″	11⁄2″	9¹¾6″	8″	51⁄16″	15	21.0
5700	5708	2″	2″	12%″	<b>9</b> ¾″	6%″	35	43.0
5800	5808	21⁄2″	3″	14%″	10½″	81⁄2″	35	63.0
5900	5908	3″	3″	14%″	10½″	81⁄2″	76	71.0

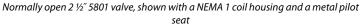
## 4000 & 5000 Series

## Dimensions, Shipping Weights, and Cv Flow Factors









#### Normally Open

CATALOG NU	JM. PREFIX		MAIN SEAT		SHIPPING				
CLASS B COIL	<b>CLASS H COIL</b>	<b>PIPE SIZE</b>	ORIFICE	X	Y	Z	WEIGHT (Ibs)	Cv	
4001	4007	1⁄4″	∛8″	8%″	7¼″	211/16″	6	1.4	
4101	4107	⅔″	∛8″	8%″	7¼″	211/16″	6	2.7	
4201	4207	1⁄2″	1⁄2″	8%″	7¼″	3″	8	3.5	
4301	4307	3⁄4″	1″	9‰″	8¾6″	4″	9	8.4	
4401	4407	1″	1″	<b>9</b> %6″	<b>8</b> ¾6″	4″	9	9.5	
4501	4507	1¼″	11⁄2″	11″	9¾6″	51⁄16″	15	19.5	
4601	4607	11⁄2″	11⁄2″	11″	<b>9</b> ¾6″	51⁄16″	15	21.0	
5701	5707	2″	2″	13¾″	10%″	6%″	36	43.0	
5801	5807	21⁄2″	3″	15½″	11%″	81⁄2″	75	63.0	
5901	5907	3″	3″	15½″	11%″	81⁄2″	75	71.0	

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### How to Order

VOLTAGE AC/50 HzFMetal pilot & Metal disc0AC/60 Hz or DC voltageGMetal pilot & TFE disc124 VAC3220 VACH2110 VAC4380 VACIMetal pilot & Viton® disc	VALVE SERIES         4 4000 Series (are ¼" through 1½")         5 5000 Series (are 2" through 3")         CONNECTION SIZES         0 ¼"         1 ¾"       4 1"         1 ¾"       4 1"         2 ½"       5 1¼"         3 ¾"       6 1½"         9 3"         COIL TYPE & NORMAL POSITION OF VALVE         0 Class B molded coil & normally closed valve         8 Class H molded coil & normally closed valve         1 Class B molded coil & normally open valve         7 Class H molded coil & normally open valve         7 Class H molded coil & normally open valve         0 AC/50 Hz or DC voltage         1 24 VAC       3 115 VAC       5 230 VAC         2 100 VAC 4 200 VAC       6 460 VAC         VOLTAGE AC/SO Hz         0 AC/60 Hz or DC voltage         1 24 VAC       3 220 VAC	G Metal pilot & TFE disc H Metal pilot & Buna disc I Metal pilot & Viton <sup>®</sup> disc
VOLTAGE DC       J Metal pilot & EPR disc         0 AC voltage       K Metal pilot & PCTFE disc         1 12 VDC       3 32 VDC       5 125 VDC         2 24 VDC       4 72 VDC       6 250 VDC         CONNECTION TYPE       B 50       G 250         P NPT       C 75       H 300         J British pipe thread       D 100       I 500	<ul> <li>O AC voltage</li> <li>1 12 VDC</li> <li>2 3 32 VDC</li> <li>5 125 VDC</li> <li>2 24 VDC</li> <li>4 72 VDC</li> <li>6 250 VDC</li> </ul> <b>CONNECTION TYPE P</b> NPT	K Metal pilot & PCTFE disc MAX. OPERATING PRESS (psig) A 25 F 200 B 50 G 250 C 75 H 300 D 100 I 500

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