Ατκο<u>ΜΑΤΙ</u>

6000 Series

Bronze, Pilot-piston, Pressure 0 to 1500 psig (0.4 to 103.5 bar) Medium Pressure Valve Configurable for Variety of Fluid Applications



Features

Features	
 Pressures to 1500 psig (103.5 bar) 	Bronze valve material (naval M bronze)
Pilot operated: require a minimum pressure	Removable 316 stainless steel body inserts (stainless
differential of 5 psig (0.4 bar)	steel trim)
Full ported valves	Coil housings available in NEMA 1 (standard),
 Fluid temperatures from –423° F to +500° F (-253° C 	NEMA 4 (waterproof), NEMA 7 (explosion-proof for
to +260° C)	hazardous locations), and combination NEMA 4 & 7
 For use with any gas or liquid (max. viscosity of 	Manual opening and throttling devices are available
200 SSU), including steam and cryogenic, that is not	as options
harmful to bronze	Class B coils are available for media temperatures of
 Pipe sizes of ¼" through 1½" (British BSPT ports 	0° F (-18° C) through +220° F (104° C) (available on
available)	both normally closed and normally open valves)
Cv from 1.4 to 21	Class H coils are available: recommended for media
 Available in normally open and normally closed 	temperatures of –423° F (-253° C) through +500° F
versions	(+260° C) (available on both normally closed and
 Optional pilot & piston seat seal materials of PTFE, 	normally open valves)
PCTFE, Buna N, Viton [®] , EPR, or metal (316 stainless	 Treated 416 stainless steel plunger material for
steel pilot & brass piston seat) depending on fluid	increased corrosion resistance
type and pressure	
Body seal materials of PTFE, Viton [®] , Buna N, or EPR.	-

Circle Seal Controls

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6000 Series

Operational Pressures (5 psid minimum pressure differential)

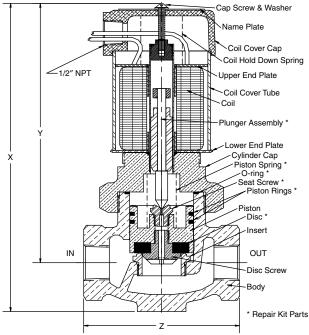
Normally closed 6000-6200 1/4" through 1/2"

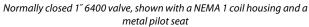
GASES LIQUID:		LIQUIDS	S TO 40 SUS LIQUIDS OVER 40 SUS		ER 40 SUS	STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
1500	1500	1500	1000	1,200	600	200	200
Normally closed 6300–6600 ¾" through 1½"							
GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
1000	1000	1000	1000	1000	600	200	200
Normally open 6001–6201 ¼″ through ½″							
GAS	GASES LIQUIDS TO 40 SUS		FO 40 SUS	LIQUIDS OVER 40 SUS		STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
1500	1000	1000	500	1000	350	200	200
Normally open 6301–6601 ¾" through 1½"							
GASES		LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
AC	DC	AC	DC	AC	DC	AC	DC
1000	1000	1000	500	1000	350	200	200

Note: Normally open 6001 Series valves are rated for intermittent duty only, unless other operational parameters are at their nominal values. **Note:** Buna N, Viton[®] and EPR seats are limited to 500 psi (34.5 bar)

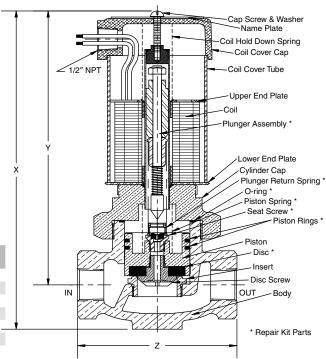
Normally Closed

Dimensions, Shipping Weights, and Cv Flow Factors





CATALOG NUM. MAIN SEAT SHIPPING PREFIX **PIPE SIZE** ORIFICE Y Z WEIGHT (Ibs) Cv X 6000 7% 6¼ 211/16 1/4^ 3% 6 1.4 6100 ¾″ 7% 211/16 3%″ 6¼″ 6 2.7 6200 1⁄2^ 1⁄2́ 7% 6¼″ 3′ 8 3.5 7″ 6300 3⁄4 8¼ 4″ 9 1″ 8.4 6400 1″ 1″ 8¼″ 7″ 4″ 9 9.5 11⁄4″ 8″ 6500 11/2" 9¹³/16 51/16 15 19.5 6600 11/2 11/5 9¹3⁄16[°] 8 51/16 15 21.0



normany open								
	CATALOG NUM. PREFIX	PIPE SIZE	MAIN SEAT ORIFICE	х	Y	z	SHIPPING WEIGHT <i>(Ibs)</i>	Cv
	6001	1⁄4″	⅔″	8%″	7¼″	211/16″	6	1.4
	6101	¾″	⅔″	8%″	7¼″	2¹¼6″	6	2.7
	6201	1⁄2″	1⁄2″	8%″	7¼″	3″	8	3.5
	6301	3⁄4″	1″	9‰″	8¾6″	4″	9	8.4
	6401	1″	1″	9%6″	8¾6″́	4″	9	9.5 _
	6501	11⁄4″	11⁄2″	11″	9¾6″	51⁄16″	15	19.5
	6601	11⁄2″	11⁄2″	11″	9 ¾6″	51⁄16″	15	21.0

Normally open 1" 6401 valve, shown with a NEMA 1 coil housing and a soft pilot seat

32 ATKOMATIC Solenoid Valves

Normally Open

6000 Series

How to Order

6 \underline{x} 0 $\underline{x} - \underline{x}$ \underline{x} \underline{x} \underline{x} \underline{x}	
6 X 0 $X - X$ X X X X X CONNECTION SIZE 0 $\frac{1}{4^{n}}$ 1 $\frac{3}{8^{n}}$ 4 1" 2 $\frac{1}{2}$ $\frac{1}{2}$ 5 $\frac{1}{4^{n}}$ 3 $\frac{3}{4^{n}}$ 6 $\frac{1}{2^{n}}$ NORMAL POSITION OF VALVE (DE-ENERGIZED) 0 Normally closed 1 Normally open VOLTAGE AC/60 Hz 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/50 Hz 0 AC/60 Hz or DC voltage 1 24 VAC 3 220 VAC 2 110 VAC 4 380 VAC VOLTAGE DC 0 AC voltage 1 12 VDC 3 32 VDC 5 125 VDC 2 24 VDC 4 72 VDC 6 250 VDC COIL INSULATION RATING B Class B 155° C H Class H 180° C CONNECTION TYPE P NPT J British pipe thread	X X X X X X P Position indicator M Manual opening T Manual throttling 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 PTFE 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 & Buna N disc I Metal pilot & Viton® disc J Metal pilot & Viton® disc J Metal pilot & Viton® disc J Metal pilot & EPR disc J Metal pilot & EPR disc J Metal pilot & EPR disc
	K Metal pilot & PCTFE disc MAX. OPERATING PRESS (psig)
	A 25 F 200 K 850 B 50 G 250 L 1000 C 75 H 300 M 1500 D 100 I 500 E 150 J 800