# ΑτκοΜΑΤΙΟ

## 16000 Series

Stainless Steel, Direct Lift, Pressure 0 to 6000 psig (414 bar) High Pressure Valve Configurable for a Variety of Fluid Applications



#### Features

<u>i catares</u>	
Direct acting valve	Optional seat materials of PTFE, PCTFE, Buna N,
Pressure to 6000 psig 414 bar depending on coil	Viton <sup>®</sup> , EPR, or 316 stainless steel depending on fluid
type, fluid and orifice size	type and pressure
Available in normally open and normally closed	Body seal materials of PTFE, Viton <sup>®</sup> , Buna N, or EPR.
versions	• Pipe sizes from 1/4" through 1" NPT (British BSBT ports
Stainless steel construction on all wetted parts: 316	available)
for machined parts and CF8M for cast parts.	<ul> <li>Flow orifices of <sup>1</sup>/<sub>6</sub>, <sup>3</sup>/<sub>32</sub>, <sup>1</sup>/<sub>8</sub>, or <sup>3</sup>/<sub>6</sub></li> </ul>
Plunger material is 416 stainless that is treated for	<ul> <li>Cv from 0.093 to 0.72</li> </ul>
increased corrosion resistance	Class H coils standard
Will handle fluids with viscosity up to 200 SUS	Can use a class H double wound coil (requires use
• Media temperature from –423° F to +500° F (-253° C	with a relay to drop put primary coil winding after
to +260° C)	valve actuation) depending on pressure
• Suitable for use with wide variety of fluid including:	<ul> <li>Coil housings available in NEMA 1 (standard),</li> </ul>
air, gasses, liquids, hydraulic fluids, steam, cryogenic	NEMA 4 (waterproof), NEMA 7 (explosion-proof for
fluids, and corrosive fluids	hazardous locations), and combination NEMA 4 & 7

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## 16000 Series

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

Single wound coils, metal seats, normally closed 16000–16400

	GA	GASES		10 40 SUS	LIQUIDS O	/ER 40 SUS	STE	AM
<b>ORIFICE SIZE</b>	AC	DC	AC	DC	AC	DC	AC	DC
Ую	2500	1500	1,800	900	1500	500	300	300
∛32	1000	500	800	350	500	170	300	300
1⁄8	500	190	400	125	250	60	300	125
3∕16	175	55	125	35	125	20	125	35

#### Single wound coils, PTFE - PCTFE, soft seats, normally closed 16000–16400

	GA	SES	LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
<b>ORIFICE SIZE</b>	AC	DC	AC	DC	AC	DC	AC	DC
Ую	500	500	500	500	500	340	300	300
∛32	500	425	500	300	425	150	300	300
1⁄8	425	160	340	100	210	40	300	100
3∕16	150	50	100	30	100	12	100	30

#### Single wound coils, metal seats, normally open 16001–16401

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	GAS	SES	LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
<b>ORIFICE SIZE</b>	AC	DC	AC	DC	AC	DC	AC	DC
Ую	1,800	800	1000	350	700	300	300	300
3∕32	500	250	300	150	275	90	300	150
1/8	250	100	200	50	125	35	200	50
3∕16	65	25	40	15	25	10	40	15

#### Single wound coils, soft seats, normally open 16001-16401

	GAS	SES	LIQUIDS	TO 40 SUS	LIQUIDS OVER 40 SUS		STE	AM
<b>ORIFICE SIZE</b>	AC	DC	AC	DC	AC	DC	AC	DC
Иб	1500	680	850	300	600	250	300	300
3∕32	425	200	250	130	230	75	300	150
1⁄8	200	85	170	40	100	30	170	40
3∕16	55	20	85	12	20	8	85	12

#### Double wound coils, metal seats 16004-16404

	GA	GASES		TO 40 SUS	SUS LIQUIDS OVER 40 SUS		STE	AM
<b>ORIFICE SIZE</b>	AC	DC	AC	DC	AC	DC	AC	DC
Иб	6000	4000	6000	3500	5000	2500	300	300
∛32	3500	2000	3000	1500	3000	1000	300	300
1⁄8	2000	800	1500	600	1,200	400	300	300
3⁄16	700	250	600	200	500	175	300	200

#### Double wound coils, soft seats 16004-16404

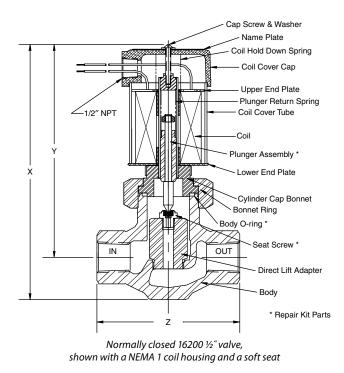
	GA	SES	LIQUIDS TO 40 SUS		LIQUIDS OVER 40 SUS		STEAM	
<b>ORIFICE SIZE</b>	AC	DC	AC	DC	AC	DC	AC	DC
Иб	6000	4000	5500	3000	4,250	2,100	300	300
3∕32	3000	1,700	2,600	1,300	2,250	850	300	300
1⁄8	1,700	680	1,275	500	1000	425	300	300
3∕16	600	200	500	170	425	150	300	170

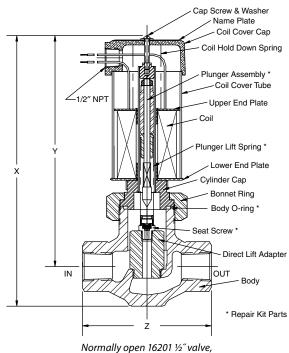
Note: Normally open valves are rated for intermittent duty only on 16000 Series valves. Note: Buna N, Viton® and EPR seats are limited to 500 psig (34.5 barg).

#### 52 ATKOMATIC Solenoid Valves

## 16000 Series

### Dimensions and Shipping Weights





shown with a NEMA 1 coil housing and a soft seat

#### 16000 Series Normally Closed, Single and Double Wound Coils

CATALOG NU SINGLE WOUND COIL	IM. PREFIX DOUBLE WOUND COIL	PIPE SIZE	v	v	z	SHIPPING
CUIL	WOUND COIL	PIPE SIZE	Λ	T	2	WEIGHT <i>(lbs)</i>
16000	16004	1⁄4″	7″	6%″	3″	6
16100	16104	∛8″	7″	6%″	3″	6
16200	16204	1/2″	81⁄2″	7%″	4%″	9
16300	16304	3⁄4″	81⁄2″	7%″	4%″	9
16400	16404	1″	9¾6″	711⁄16″	5¼″	14

#### 16000 Series Normally Open, Single Wound Coils Only

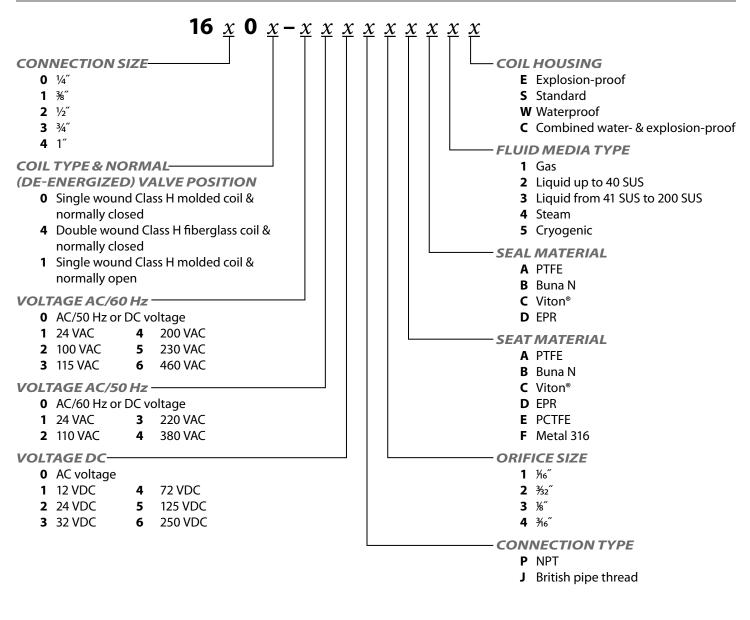
CATALOG NUM. PREFIX	PIPE SIZE	x	Y	z	SHIPPING WEIGHT <i>(lbs)</i>
16001	1⁄4″	8%″	7¾í6″	3″	6
16101	3%″	8‰″	75⁄16″	3″	6
16201	1/2″	<b>9</b> %″	81⁄2″	4%″	9
16301	3⁄4″	<b>9</b> %″	81⁄2″	4%″	9
16401	1″	105⁄16″	8¹¾6″	5¼″	14

#### **Cv Flow Factors**

<b>ORIFICE SIZE</b>	Cv
Ую	0.093
∛32	0.22
1⁄8	0.44
3/16	0.72

## 16000 Series

#### How to Order



Viton<sup>®</sup> is a registered trademark of DuPont Dow Elastomers. PTFE is a registered trademark of DuPont.