

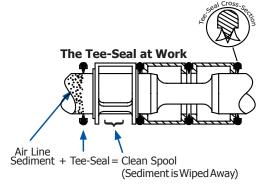


World Class Pneumatic Solutions



NAMUR Actuator Solenoids Design Features





Valves

- Proven design with over 20 years OEM experience.
- Many options available to meet your requirements including:
 - Explosion proof and intrinsically safe operators
 - o Stainless Steel
 - Fluoroelastomer Seals
 - Easily converted from 4 way to 3 way operation
- Specific application needs? Consult the factory.
 We will build it for you.



Tapered Tee-Seal Eats Dirt

- Bidirectional tapered Tee-Seal eliminates sticking problems.
 - Flexes to clean spool
 - Mechanically Locked
 - No Spiral Twist
 - No Extrusion
 - Air Line Sediment is Wiped Away.
- Tested tough and proven reliable according to SAE specifications:
 Rust and water injected every 864,000 cycles for 20 million cycles.



Solenoid ... Guaranteed Against Burnout

- Three-way pilot uses full air line pressure to shift the valve.
- Pilot is internally supplied when the pressure at port one is 35 to 150 PSIG (240 to 1030 kPa).
- Coil is hermetically sealed as an integral watertight molded unit.
- Intrinsically-safe and explosion-proof versions available.
- Push Non-Locking Override is standard. (Extended Turn and Turn-Locking available)



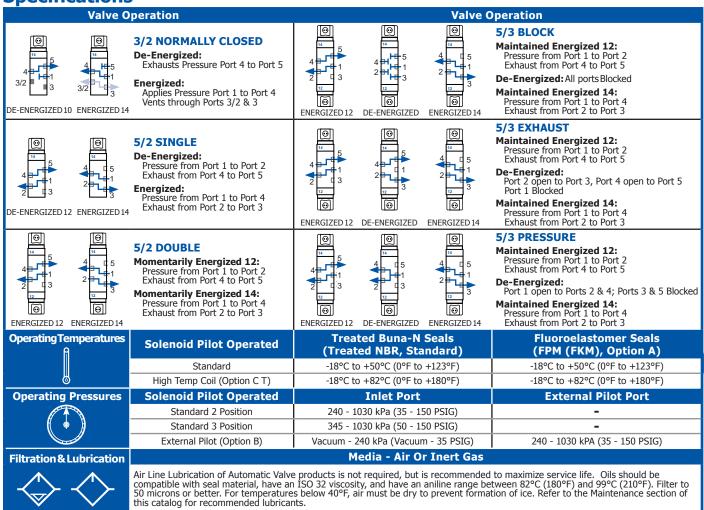
Products Certified To:

- CSA (C22.2 and UL STD 429)
- Factory Mutual Explosion Proof Environments
- ATEX Explosion Proof Environments
- CE EMF and Low Voltage Directives



NAMUR Actuator Solenoids **Specs & Model Numbers**

Specifications



Hou	loder Numbers																
Series		Body Type	P	ort ize	F	unction	D D	Body esign		Operator 1	enter Oper	O	perator 2	Vo	ltage ¹		Options*
D06	0	NAMUR	3	1/4	G	3 Way NC	Α	Right		Intrinsically-Safe Solenoid Weather-Proof Solenoid		R	2 Position Spring	-AB	110/50, 120/60 220/50, 240/60, 125VDC 22/50, 24/60,	B C CT D	Fluoroelastomer Seals External Pilot Connection Conduit Coil Conduit Coil High Temperature Dustproof
D20	0	NAMUR	3	1/4	C D	4 Way 2 Position 4 Way 3 Position Block Ctr 4 Way 3 Position Exhaust Center 4 Way 3 Position Pressure Center 3 Way NC (Die Cast only)	В	Right Double Left	٧	Air Pilot Intrinsically-Safe Solenoid (24VDC only) Weather-Proof Solenoid	3 Pos'n Spring	R V	Air Pilot 2 Position Spring Intrinsically- Safe Solenoid (24VDC only) Weather- Proof Solenoid	-DB	12VDC 24VDC	L LL P Q S SS W Y Z 1 2 4 8	18" Flying Leads Low Watt Coil (2.5 Watts) Lowest Watt Coil (0.7 Watts) Transition Plate (D20 only) Closed Loop (D20 only) 303 Stainless Steel Body (D20 Bar Stock) 316 Stainless Steel Body (D20 Bar Stock) G (BSPP) Threads Explosion-Proof Coil (CSA,FM) Explosion-Proof Coil (ATEX, PTB) Push Turn-Locking Override Extended Turn-Locking Override No Override 10-24 Mounting Kit 10-32 Mounting Kit

 $[^]st$ Not all Options are available for all models. Refer to "Options" at the end of this Section for additional information.

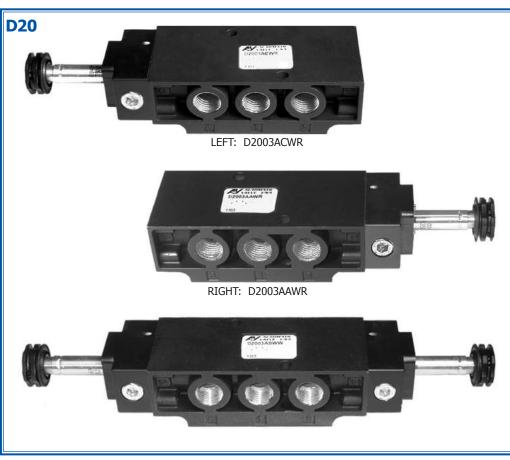
¹ Consult the Factory for additional voltages.



NAMUR Actuator Standard Solenoids







riode	Numbers		_			Mala	inla	
		unction	Port	Flow	Model Number	Mater		Weight
	Description	Schematic	Size	I/min (C _V)		Body	Seal	kg (lb)
	Normally Closed Single	10 1/4		59 (0.06)	D0603GAWR-**	Aluminum	-	0,26 (0.58)
3/2	Normally Closed Single Left	14 12 12 12 12 5 1 3	1/4	1770	D2003GCWR-**	Aluminum	NBR	0,32
	Normally Closed Single Right	12 3 4 X 14 X 14 X 14 X 15 X 15 X 17 X 17 X 17 X 17 X 17 X 17	1/4	(1.8)	D2003GAWR-**	Aldifilliani	INDK	(0.70)
	Single Left	14 2 12 × 513			D2003ACWR-**	Aluminum	NBR	0,26
5/2	Single Right	12 2 4 14 315	1/4	1770 (1.8)	D2003AAWR-**			(0.57)
	Double	14 2 112 513			D2003ABWW-**			0,34 (0.75)
	Block Double	12 24 14 14 14 14 14 14 14 14 14 14 14 14 14			D2003CBWDW-**			
5/3	Exhaust Double	12 24 14 14 14 14 14 14 14 14 14 14 14 14 14	1/4	1381 (1.4)	D2003DBWDW-**	Aluminum	NBR	0,36 (0.80)
	Pressure Double	12 2 4 14 14 3 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1			D2003EBWDW-**			

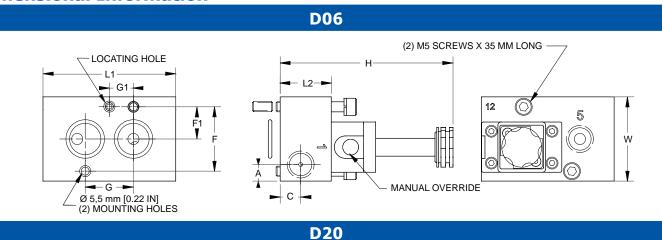
^{** =} Coil Voltage Code. Coils also sold separately. Refer to "Electrical Information" at the end of this Section for additional information.

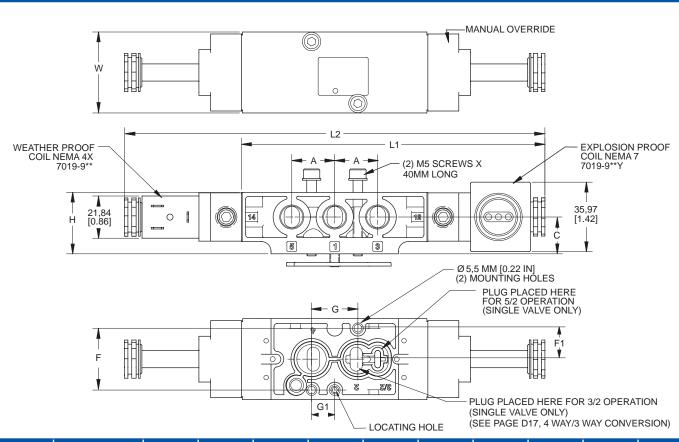


NAMUR Actuator Standard Solenoids



Dimensional Information





Series	Description	A	С	F	F1	G	G1	н	L1	L2	w
D06	Single	8,4 0.33	10,2 0.40	32,0 1.26	16,0 0.63	23,9 0.94	11,9 0.47	85,1 3.35	66,0 2.60	25,4 1.00	41,9 1.65
D20	Single	22,2 0.88	19,1 0.75	32,0 1.25	16,0 0.63	23,9 0.94	11,9 0.47	31,7 1.25	157 6.15	•	41,9 1.65
<i>B</i> 20	Double	22,2 0.88	19,1 0.75	32,0 1.26	16,0 0.63	23,9 0.94	11,9 0.47	31,7 1.25		217 8.55	41,9 1.65

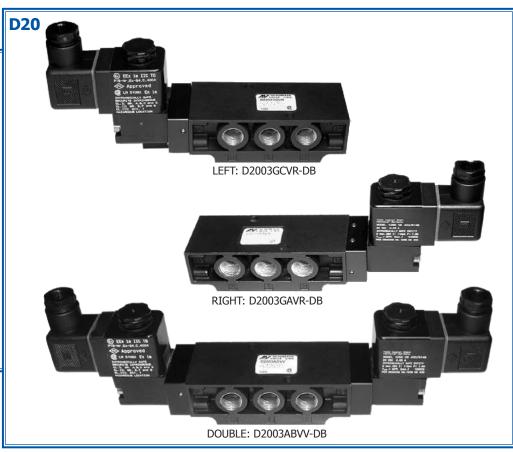
Units of Measure: Top - mm, Bottom - inches



NAMUR Actuator Intrinsically-Safe Solenoids



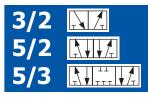




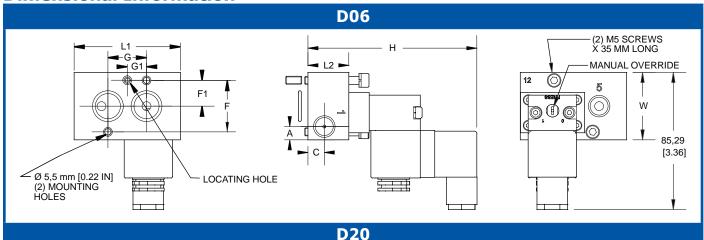
riodici	Numbers	Function	Port	Flow		Mater	ials	Weight
	Description	Schematic	Size	I/min (C _V)	Model Number	Body	Seals	kg (lb)
	Normally Closed Single	10 2 12 1 3 3	1/4	59 (0.06)	D0603GAVR-DB	Aluminum	-	0,26 (0.58)
3/2	Normally Closed Single Left	14 12 12 513	1/4	1770	D2003GCVR-DB	Aluminum	NBR	0,32 (0.70)
	Normally Closed Single Right	12 2 4 X 14 X 14 X 14 X 15 X 15 X 17 X 17 X 17 X 17 X 17 X 17	1/4	(1.8)	D2003GAVR-DB	Aldillillalli	NBR	(0.70)
	Single Left	14 12 12 12 513	1/4		D2003ACVR-DB	Aluminum	NBR	0,32
5/2	Single Right	12 2 4 1 14 315		1770 (1.8)	D2003AAVR-DB			(0.70)
	Double	14 2 12 513			D2003ABVV-DB			0,36 (0.80)
	Block Double	12 24 14 15 14 315			D2003CBVDV-DB			
5/3	Exhaust Double	24		1381 (1.4)	D2003DBVDV-DB	Aluminum	NBR	0,36 (0.80)
	Pressure Double	12 2 4 14 315			D2003EBVDV-DB			

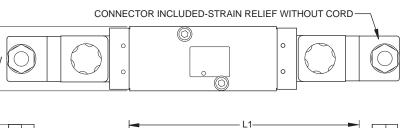


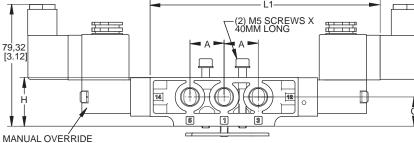
NAMUR Actuator Intrinsically-Safe Solenoids

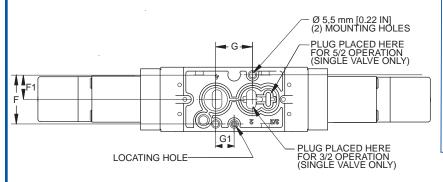


Dimensional Information



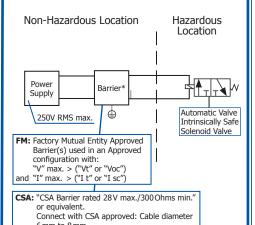






Intrinsic Safety is a type of protection based on the restriction of electrical energy within an apparatus and of interconnecting wiring exposed to the potentially explosive atmosphere to a level below that which can cause ignition by either sparking or heating effects.

Basic Circuit and Application:



*Automatic Valve Corp does not sell the safety barrier that is required for an intrinsically safe circuit.

Series	Description	A	С	F	F1	G	G1	Н	L1	L2	W
D06	Single	8,4 0.33	10,2 0.40	32,0 1.26	16,0 0.63	23,9 0.94	11,9 0.47	107,2 4.22	85,8 3.38	25,4 1.00	41,9 1.65
220	Single	22,2 0.88	19,1 0.75	32,0 1.26	16,0 0.63	23,9 0.94	11,9 0.47	68,3 2.69	149 5.86	1	41,9 1.65
D20	Double	22,2 0.88	19,1 0.75	32,0 1.26	16,0 0.63	23,9 0.94	11,9 0.47	68,3 2.69	-	214 8.42	41,9 1.65

Units of Measure: Top - mm, Bottom - inches



NAMUR Actuator Bar Stock Solenoids







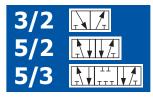
		Function	Port	Flow	Model	Mater	ials	Weight
	Description	Schematic	Size	I/min (C _V)	Number	Body	Seal	kg (lb)
	Single Left	14 P T 12 12 12 513			D20-002-**			0,34
5/2	Single Right	12 4 14 3 1 5 14 3 1 5	1/4	1770 (1.8)	D20-001-**	Aluminum ¹	NBR	(0.75)
	Double	14 2 112 513			D20-009-**			0,37 (0.82)
	Block Double	12 24 14 14 315			D20-037-C-**			
5/3	Exhaust Double	12 24 14 14 315	1/4	1381 (1.4)	D20-037-D-**	Aluminum ¹	NBR	0,37 (0.82)
	Pressure Double	12 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			D20-037-E-**			

^{** =} Coil Voltage Code. Coils also sold separately. Refer to "Electrical Information" at the end of this Section for additional information.

¹ Body Available in 303 or 316 Stainless Steel. Refer to "Options" at the end of this Section for additional information.

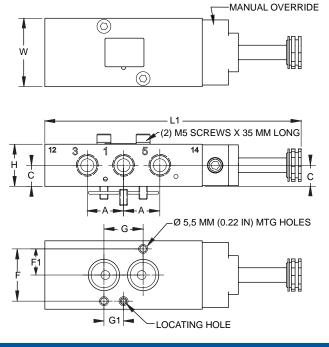


NAMUR Actuator Bar Stock Solenoids

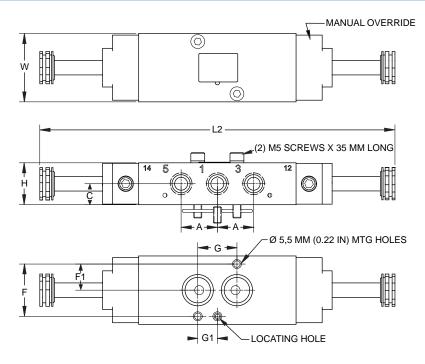


Dimensional Information

D20 Single



D20 Double



Series	Description	A	С	F	F1	G	G1	н	L1	L2	w
D20	Single	22,2 0.88	12,7 0.50	32,0 1.26	16,0 0.63	23,9 0.94	11,9 0.47	25,4 6.12	15,5 6.12	1	41,9 1.65
D20	Double	22,2 0.88	12,7 0.50	32,0 1.26	16,0 0.63	23,9 0.94	11,9 0.47	25,4 1.00	-	214 8.42	41,9 1.65

Units of Measure: Top - mm, Bottom - inches

NAMUR Actuator Solenoids Options



Options (Add the suffix to the end of the model number in alpha-numeric order.)

Suffix	Option	Description						
		For applications where fluid media or ambient conditions are not compatible with nitrile seals. (D20 only)						
A	Fluoroelastomer Seals	Note: Fluorocarbon seals do not increase the effective temperature range of the valve. For high temperature applications, consult the factory.						
		For solenoid applications where the pressure to port one is less than 2 BAR (35 PSIG). See example below for field conversion. (D20 only)						
		Field Conversion						
		Remove solenoid and cap from the valve body.						
В	External Pilot	Rotate the gasket 180° so that the internal pilot hole in the valve body is covered by the gasket. Pefacter the gasket can and a Pilot Hole of GASKET ROTATED 180° Rotate the gasket 180° so that the internal pilot Hole of GASKET ROTATED 180° Rotate the gasket 180° so that the internal pilot Hole of GASKET ROTATED 180° Rotate the gasket 180° so that the internal pilot Hole of GASKET ROTATED 180° Rotate the gasket 180° so that the internal pilot Hole of GASKET ROTATED 180° Rotate the gasket 180° so that the internal pilot hole in the valve body is covered by the gasket.						
		solenoid to the valve body. Make sure the gasket completely covers the internal pilot hole before tightening the M3 screws. Torque to 1,02 N-m (9 in-lbs) ±10%. Remove the 1/8 NPTF pipe plug from the cap and make the REMOVE 1/8 NPTF PIPE PLUG FOR EXTERNAL PILOT PORT						
	Conduit Coil	external pilot connection. Refer to the "Electrical Information" page in this section for details.						
СТ	Conduit Coil High	Refer to the "Electrical Information" page in this section for details.						
	Temperature	For applications in extremely dusty and contaminated environments. Vent ports are plugged and						
D	Dustproof	spring pad breather vent is eliminated. (D20 only)						
G	Coil With 18" Leads	Refer to the "Electrical Information" page in this section for details.						
L	Low Watt Coil	Power Consumption = 2.5 Watts. Standard as Push Non-Locking Override. Also available with Option 2, Extended Turn-Locking Override.						
LL	Lowest Watt Coil	Power Consumption = 0.7 Watts. Standard as Extended Turn-Locking Override.						
P	Transition Plate	For mounting to surface pads smaller than 6,4 cm x 3,5 cm (2 1/2" x 1 3/8"). Refer to next page for Installation Instructions. (D20 only)						
Q	Closed Loop	Exhaust feedback in closed loop position. (D20 only)						
S	303 Stainless Steel	303 Stainless Steel body, all other external parts are corrosion resistant; for corrosive environment applications (D20 Bar Stock only).						
SS	316 Stainless Steel	316 Stainless Steel body, all other external parts are corrosion resistant; for corrosive environment applications (D20 Bar Stock only).						
W	G Threads	All ports tapped to metric "G" standard.						
Υ	Explosion-Proof Coil (CSA, FM)	Refer to the "Electrical Information" page in this section for details.						
Z	Explosion-Proof Coil (Atex, PTB)	Refer to the "Electrical Information" page in this section for details.						
1	Push Turn-Locking Override	Solenoid cap provides an override that is pushed in and turned to actuate & lock in the "on" position						
2	Extended Turn-Locking Override	Solenoid cap provides an extended override that is turned to lock in the "on" position.						
4	No Override	Solenoid cap does not provide a manual override.						
8	10-24 Mounting Kit	Mounting kit contains #10-24 mounting screws and set screw						
9	10-32 Mounting Kit	Mounting kit contains #10-32 mounting screws and set screw						



NAMUR Actuator Solenoids **Options & Accessories**



Option P: Transition Plate

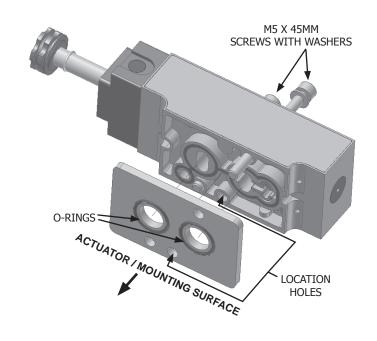
The Transition Plate is designed for use in situations where the sealing face of the solenoid valve extends beyond the mounting surface.

(The minimum required mounting area measures 6,4 cm x 3,5 cm (2 1/2" x 1 3/8"))

Part Number

Option P: when ordering the plate with a valve

A8021-339: when ordering the plate only

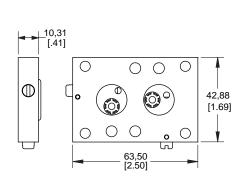


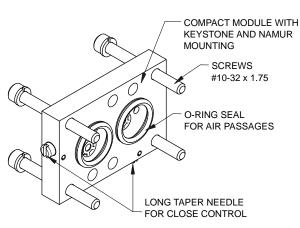
Installation Instructions: Transition Plate

- 1. Place the plate between the solenoid valve and the actuator with the o-rings facing the actuator.
- 2. Use the supplied **M5 x 45mm screws** to secure the solenoid valve/plate assembly to the mounting surface. These are the screws supplied in the plate kit, not those originally supplied with the valve. Do NOT use the shorter 40mm original screws; they will not engage properly.
- Torque screws to 4,4-5,3 N-m (39-47 in-lbs) $\pm 10\%$ to effect a seal on the o-ring and gasket side of the transition plate.

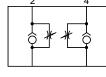
Speed Control Valve

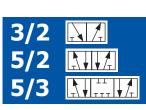
- For Bar Stock Models Only
- Mounts between the Directional Control Valve and the Actuator
- Mounts on the NAMUR pad
- Functions as a flow control for both cylinder ports
- Is easily adjustable, turn the needles clockwise to decrease speed and counterclockwise to increase speed
- Normal operating pressure: 2 to 10 BAR (35 to 150 PSIG)
- Normal operating temperature: -18°C to +52°C (0°F to +125°F)
- Approximate weight: 0,07 kg (0.16 lb)





Model Number A7106-554





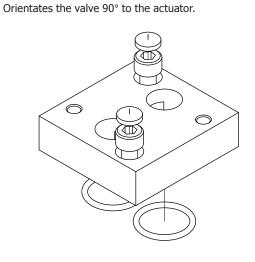
NAMUR Actuator Solenoids Accessories

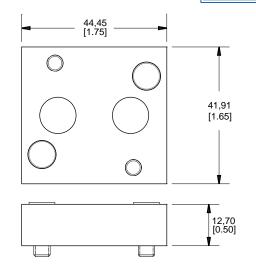


		Mufflers					
Part Number	Description		Pipe Size NPT	Flow I/min (C _V)	Length mm (in)	Hex Size mm (in)	Weight kg (lb)
84C-2	Exhaust Muffler Reduces exhaust noise level in air systems. Maintains full volume air flow with minimum back pressure. Threads into exhaust port.		1/4	2060 (2.3)	44,5 (1.75)	14,3 (9/16)	0,020 (0.044)
84D-2	Sintered Exhaust Muffler Reduces exhaust noise level in air systems. Sintered bronze bonded to a copper plated male pipe fitting. Corrosion resistant. Cleanable 40 micron filter element.		1/4	600 (0.7)	33,3 (1.31)	14,3 (9/16)	0,017 (0.037)
266B-2	Exhaust Restricter/Sintered Muffler Reduces exhaust noise level in air systems. Allows adjustment of exhaust air flow to accurately control cylinder speeds. Corrosion resistant. Cleanable 40 micron filter element.		1/4	1160 (1.3)	55,9 (2.2)	14,3 (11/16)	0,026 (0.057)

90° Mounting Plate For Bar Stock Models Only Allows horizontal installation of the directional control valve.

Part Number A8022-438

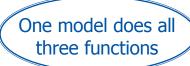


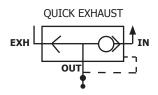


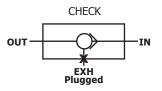


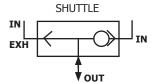
NAMUR Actuator Solenoids Accessories

Quick Exhaust, Check and Shuttle Valves: Series: MQ2









Features

- Rugged internal construction outlasts and out performs the competition.
- Quick Exhaust: When **IN** is pressurized, flow is from **IN** to **OUT** with **EXH** blocked. When **OUT** is pressurized, flow is from OUT to EXH with IN blocked
- Check Valve: Free flow from IN to OUT with EXH plugged. No flow from **OUT** to **IN** with **EXH** plugged.
- Shuttle Valve: When **IN** is pressurized, flow is from **IN** to **OUT** with **EXH** blocked. When **EXH** is pressurized, flow is from **EXH** to **OUT** with **IN** blocked.

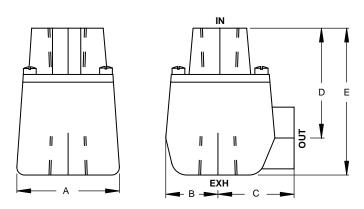


370A-22

Model Numbers

Series	Model Number	Port NP	Flow I/min	Pres BAR (Weight Kg			
Series	riodei italiidei	IN, OUT	EXH	(C _V)	Min	Max	(lb)	
MQ2	370A-22	1/4	1/4	890 (0.97)	0.3 (4)	10.7 (150)	0,07 (0.16)	

Dimensional Information



Series	Model Number	A	В	С	D	E
MQ2	370A-22	27,7 1.09	13,9 0.55	20,5 0.81	30 1.22	42,4 1.67

Units of Measure: Top-mm, Bottom-inches

NAMUR Actuator Solenoids NAMUR Actuator Solenoids **Configuration Example**







D2003AAWR



NEMA 4x with DIN 43650 Form B Connection 7019-9**



D2003AAWR-**



D2003AAWR



NEMA 4x with 18" Leads 7019-9**G



D2003AAWR-**G



D2003AAWR



NEMA 4x 1/2" Conduit with 30" Leads





D2003AAWR-**C



D2003AAWR



Explosion-Proof 1/2" Conduit with 24" Leads

7019-9**Y



D2003AAWR-Y**



D2003AAWR

ATEX Explosion-Proof with 39" Cable



7152-9**

D2003AAWR-**Z



NAMUR Actuator Solenoids **Electrical Information**

Part Numbers

Descript	ion	Operator Type	Instructions	Wt. Kg(lb)	Coil Part Number **=Voltage
Weather-Proof DIN 43650 Industrial Form B Connection NEMA 4X	250-0.0. 0 100-0.0. 0 100-0.0. 0 100-0.0. 0 100-0.0. 0 100-0. 0 100-0.0. 0 10	w	Order coil separately (specify voltage code from below)	0,05 (0.12)	7019-9**
Weather-Proof 18" Leads NEMA 4X	ANY TRO-BANCE TORY SERVICE SER	w	Order coil separately (specify voltage code from below)	0,05 (0.12)	7019-9**G
Weather-Proof 1/2" Conduit with 30" Leads NEMA 4X	AP TO SEASON OF THE BASE TO PROPER TO SEASON OF THE BASE TO PROPE	w	Order coil separately (specify voltage code from below)	0,05 (0.12)	7019-9**C 7019-9**CT (high temp 82°C max)
Explosion-Proof 1/2" Conduit with 24" Leads CSA & FM Approved CL. I; Zone1 ExmIIT4; AExmII CL. I; Div.1; GR. A, B, C, D CL. II; GR. E, F, G CL. III T4 Ta=-20°C to +60°C NEMA 4, 4X, 7C, 7D, 9	AW 7019-8445 (1975) 199 - 1980-1-1975 19 844 (19 PSG)	w	Order coil separately (specify voltage code from below)	0,20 (0.44)	7019-9**Y
Intrinsically-Safe Strain Relief Ex ia CL. I; GR. A,B,C,D CL. II; GR.E,F,G CL. III; Div.1; T5		V A710	Coil and Connector included with valve (24VDC only) 6-374 Must be Used with an For more information refer to "Intrinsic	0,21 (0.46) Intrinsic	A7106-374-DB cally-Safe Barrier rt on Page D7.
Explosion-Proof 3m Cable & Strain Relief Ex m II T5 PTB 03 ATEX2018 X Ex II 2 G EEx m II T5 Ex II 2 D IP65 T95°C		z	Order coil separately (specify voltage code from below)	0,36 (0.78)	7152-9**

Voltage Codes (Lower wattage options available, consult factory)

Voltage Codes (Lower Wattage options available, consult factory)																		
	Voltage +/-10%		Current (Amps) Inrush Holding							Resistance (OHMS @ 25°C)			Power (AC=VA, DC=Watts)					
**	Operator Type:		W		٧	Z	w		٧	Z	W		٧	Z	V	V	٧	Z
Code	NEMA NE	IEMA NEMA		MA	AT	EX	NE	MA	AT	EX	NE	MA	AT	EX	NE	MA	AT	EX
	4	ATEX	4, 4x	7, 9	Exia	Exm	4, 4x	7, 9	Exia	Exm	4, 4x	7, 9	Exia	Exm	4, 4x	7, 9	Exia	Exm
DA	24/50 24/60	-	.36	-	-	-	.24	-	-	-	32	-	-	-	6.9	-	-	-
AA	120/50 120/60	120/60	.08	.10	-	.04	.05	.05	-	.03	840	530	-	1664	6.9	6.5	-	3.4
AB	230/50 230/60	240/60	.04	.05	-	.02	.03	.03	-	.01	3310	2345	-	6730	6.4	6.8	-	3.3
DA	12 VDC	12VDC	.38	.38	•	.27	.38	.38	ı	.27	32	32	-	45	4.8	4.5	-	3.5
DB	24 VDC	24VDC	.20	.19	.05	.14	.20	.19	.05	.14	121	128	275	177	4.8	4.5	1.6	3.5
AB	125 VDC	-	.04	-	-	-	.04	-	-	-	3310	-	-	-	5.9	-	-	-

Connectors (Not polarity dependent)

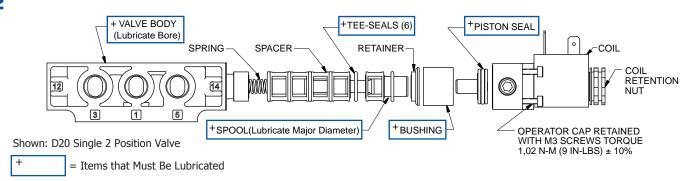
DIN 43650 Industrial Form B	Maximum C	able Diameter: 9r	mm (0.35")					
	Strain Relief without Cord	Strain Relie	f with Light	1/2" Conduit	Molded with	Strain Relief with Light & 6' Cord		
Туре		100-240 AC 48-120 DC	6-48 AC/DC	without Cord	6' Cord	100-240 AC 48-120 DC	6-48 AC/DC	
Part Number	7020-001	7020-AA	7020-DB	7039-001	7020-006	7094-006	7094-007	



NAMUR Actuator Solenoids Service Information



Valve must be disconnected from all air and electrical power sources before disassembly.



Service Kit Installation Instructions

- D
- Follow appropriate lock-out/tag-out procedures. Do not attempt to service a valve, if you are not familiar with lock-out/tag-out procedures.
- 2. Turn off electrical power to the valve.
- 3. Remove valve from all electrical and air power sources.
- 4. Ensure all stored air power is exhausted.
- 5. Remove coil by first removing coil retention nut.
- Remove operator cap by first removing 4 socket head cap screws.
- 7. Remove existing serviceable components by "pushing" internal components gently out of the valve body.
- 8. Clean the spool with a clean cloth.
- 9. Discard the spring (Single Spring Return Models Only).

- Lubricate the designated "+" items in the above assembly drawing with a thin film of lubricant - the item should look "WET" with no excess lubricant visible.
- 11. Replace components as shown above.
 - 11.1 Replace spring pad and spring (Single Spring Return Models Only).
 - 11.2 Alternate Tee-seals and spacers.
 - 11.3 Once all 6 Tee-seals are installed, replace the retainer, bushing and piston.
- 12. Orientate the operator cap by aligning the open end of the gasket with the pilot hole in the valve body.
- Torque cap screws into body to 1,02 N-m (9 in-lbs) ±10%.
 Rotate tightening so that cap "squeezes" evenly onto body.

Air Line Lubrication of Automatic Valve products is not required, but is recommended to maximize service life. Oils should be compatible with seal material, have an ISO 32 or lighter viscosity, and have an aniline point between 82°C (180°F) and 99°C (210°F). Refer to the Maintenance Section of this catalog for recommended lubricants.

Model Numbers: Service Kits

Series	Body Style								
	Description	Model Number	Contents						
	Single	K-L20-SGL K-L20-SGL-A (Fluoroelastomer)	Tee-Seals (6), Piston Seal (1), Spring (1), Lubricant						
D20	Double	K-L20-DBL K-L20-DBL-A (Fluoroelastomer)	Tee-Seals (6), Piston Seals (2), Lubricant						
D20	Standard Mounting Kit	A8021-340	Plug Assembly (1), Gasket (1), Screws (2), Set Screw (1), Washers (2), Lubricant						
	Bar Stock Mounting Kit A8022-618		O-Rings (2), Screws (2), Set Screws (2), Washers (2)						



NAMUR Actuator Solenoids 4Way/3Way Conversion

Views

4 Way



The D20 works as a 4 way when the plug is in the outer cavity.

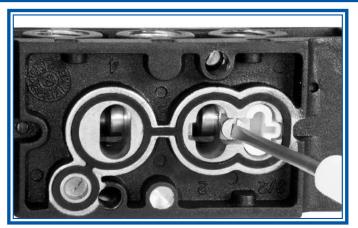
3 Way



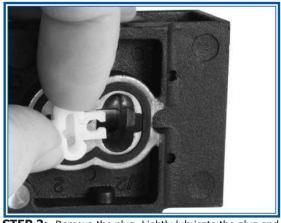
The D20 works as a 3 way when the plug is in the center cavity.

Conversion Steps

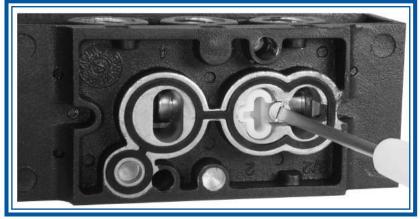
4 Way to 3 Way Conversion



STEP 1: Using a 3 mm screwdriver loosen the plug retention screw.



STEP 2: Remove the plug. Lightly lubricate the plug and O-ring. Place plug in adjacent cavity.



STEP 3: Tighten the plug retention screw to 0,68 N-m (6 in-lbs) $\pm 10\%$.

Series	Model Number	Contents				
D20	A7216-081	Plug Assemblies (Qty 10) (screws/seals/plugs)				