

Valtomatic Controls

VALCO

# Solenoid valves





## 2/2 Way Solenoid Valves

Valtation Controls



- These valves are simple & reliable for 'ON -OFF' Control of Fluid passing through valve
- Media: Air / Water / Steam / LDO / LGP / Gases



Valve Specifications:		
Type	Direct Acting	Internal / External Pilot Operated
Size Range	1/4" to 1/2"	1/4" to 1"
Valve Action	Normally Close / Normally Open	Normally Close / Normally Open
MOC	Aluminium / Brass / SS 304 / 316	Aluminium / Brass / SS 304 / 316
Seals	Nitrile / EPDM / VITON	Nitrile / EPDM / VITON
Pressure Range	0 to 100 Bar	2 to 100 Bar

Coil Enclosures	Fly Leads / Plug in conn / LED Indicator / Flameproof Gr I, IIA IIB
Coil Voltages (AC)	24 V AC / 42 V AC / 110V AC / 230 V AC
Coil Voltages (DC)	12 V DC / 24 V DC / 110 V DC

## 2/2 Way Diaphragm Valves



- Full Orifice Valves for high discharge application
- Media : Air / Water / Steam / LDO / LGP / Gases

Type	Diaphragm Operated Valve
Size Range	1/4" to 2"
Valve Action	Normally Close / Normally Open
MOC	Aluminium / Brass / SS 304 / 316
Seals	Nitrile / EPDM / VITON
Pressure Range	0.5 to 10 Bar

Coil Enclosures	Fly Leads / Plug in conn / LED Indicator / Flameproof Gr I, IIA IIB
Coil Voltages (AC)	24 V AC / 42 V AC / 110V AC / 230 V AC
Coil Voltages (DC)	12 V DC / 24 V DC / 110 V DC



## Pneumatic 'Y' Type Angle Valves

### Features:

- These Valves are compact, light weight design and economically priced which can be used for controlling flow of Steam, Air, Gas, Coolant water, Vaccum, Viscous Fluid etc.
- Investment Casting Body.
- Actuator of this valve is Pneumatic cylinder type.
- Used for On-Off Process Control Application.
- Temperature: Standard Valve upto 110 deg (max Upto180 deg on request)



<b>Size Range:</b>	½" to 3" B.S.P. (F) Screwed ends / Flanged ends
<b>Body Material:</b>	Investment Casted CF 8 (SS 304) / CF 8 M (SS 316)
<b>Body Rating:</b>	ANSI - B 16.5 Class 300
<b>Hydraulic Test Pressure:</b>	20 bar
<b>Trim:</b>	SS 304 / SS 316
<b>Seating:</b>	Teflon / Viton / Buna - N
<b>Bonnet:</b>	Standard with Teflon self compensating "VEE" seals
<b>Action of Value:</b>	Air to open (Normally close), Air to close (Normally open)
<b>Actuator:</b>	Spring return type - Pneumatic cylinder piston operated
<b>Signal:</b>	Air Pressure for actuator to operate the valve is 3 to 6 bar

## 2/2 way Solenoid valve Selection Guide

Valve Design	Port Connection	Orifice MM	Pressure / Orifice Chart for Direct Acting Valve						MOC	Valve Action	Coil Enclosures	Manual Actuator	Supply	
			min Pressure	Max Pressure with Size I Coil DC	AC	Max Pressure with Size II Coil Air	Water	AC					DC	
1 Direct Acting	1 1/8"	1.2		40	65	115	90	1	0 - Fly Lead	0 - No MOR	12	12		
2 Diaphragm Operated	2 1/4" 3 3/8"	1.8 2		15 12	30 20	55 37	45 30	Aluminium 2	1 - Terminal Box	MP - Push Button	24	24		
3 Internal Pilot Operated	4 1/2"	2.5		10	15	30	25	Brass	2 - Plug in Conn	MS - Screw driver type	48	48		
4 External Pilot Operated			0 Bar					3 4		ML - with Locking Arrangement	110	60		
5 Y Type Angle valve	3 3/8"	8						5	3 - Conn with LED		230	110		
6 Pulse Operated valve	4 1/2"	12						6	4 - Ex-Proof with Junction	MT - Push & Turn Type	440	240		
<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">4</div>	For Pilot Operated valves (Internal/External)			Pressure / Orifice Chart						<p><b>Selection of Valve Model No.</b></p> <p>Example: 2/2 Way Direct Acting Normally closed Solenoid Valve having 1/2" BSP (F) Port Connection &amp; Orifice of 3 mm suitable for Pressure range of 0-10 bar with Aluminium MOC &amp; size I coil with supply voltage of 230 V AC having ex-Proof Enclosure for Medica.</p>	<div style="border: 1px solid black; padding: 5px; margin: 5px;">                     Name Plate:                       Model: 21411040    Medica: Air                      Pressure: 0 -10 Bar    Orifice: 3 mm                 </div>			
	2 1/4"			6/7	2 Bar / 3 Bar		10 Bar / 15 Bar		20 Bar / 100 Bar					
	3 3/8"			10										
	4 1/2"			12										
	5 3/4"			20										
	6 1"			25										
	7 11/4"			32										
	8 11/2"			40										
2	1	4	1	1	0	4	0							
	2	3	4	5	6	7	8							

(Select appropriate values from above table)





## 3/2 Way Solenoid Valves

- These valves are simple & reliable for 'ON -OFF ' Control . They are useful in mixing & diverting flow applications
- Media: Air / Water / Steam / LDO / LPG / Gases



### Valve Specifications:

Type	Direct Acting	Internal / External Pilot Operated
Size Range	1/4" to 1/2"	1/4" to 1"
Valve Action	Normally Close / Normally Open	Normally Close / Normally Open
MOC	Aluminium / Brass / SS 304 / 316	Aluminium / Brass / SS 304 / 316
Seals	Nitrile / EPDM / VITON	Nitrile / EPDM / VITON
Pressure Range	0 to 20 Bar	0 to 40 Bar

## 3/2 Way NAMUR Valves



- Namur valves are Used in Actuator Operation
- Media: Air

Type	NAMUR Valves
Size Range	1/4" to 1/2"
Valve Action	Normally Close
MOC	Aluminium / Brass / SS 304 / 316
Seals	Nitrile / EPDM / VITON
Pressure Range	0 to 10 Bar

Coil Enclosures	Fly Leads / Plug in conn / LED Indicator / Flameproof Gr I, IIA IIB
Coil Voltages (AC)	24 V AC / 42 V AC / 110V AC / 230 V AC
Coil Voltages (DC)	12 V DC / 24 V DC / 110 V DC



## 3/2 Way Universal type Valves

Valtation Controls



- This valve is used in water treatment application
- Media: Air / Water

Type	Universal Valves
Size Range	1/4" to 1/2"
Valve Action	Universal
MOC	Aluminium / Brass / SS 304 / 316
Seals	Nitrile / EPDM / VITON
Pressure Range	0 to 10 Bar



Coil Enclosures	Fly Leads / Plug in conn / LED Indicator / Flameproof Gr I,IIA IIB
Coil Voltages (AC)	24 V AC / 42 V AC / 110 V AC / 230 V AC
Coil Voltages (DC)	12 V DC / 24 V DC / 110 V DC

## 3/2 Way Air Blaster Solenoid Valves



- These valves are specially Designed to Suit Operate Air Blaster Unit mostly in Cement Industry.

Type	Air Blaster Valves
Size Range	1/4" to 1/2"
Valve Action	Normally Open
MOC	Aluminium
Seals	Nitrile
Pressure Range	0 to 10 Bar

Coil Enclosures	Fly Leads / Plug in conn / LED Indicator / Flameproof Gr I,IIA IIB
Coil Voltages (AC)	24 V AC / 42 V AC / 110 V AC / 230 V AC
Coil Voltages (DC)	12 V DC / 24 V DC / 110 V DC

## 3/2 way Solenoid valve Selection Guide

Valve Design	Port Connection	Orifice MM	Pressure / Orifice Chart for Direct Acting Valve				MOC	Valve Action	Coil Enclosures	Manual Actuator	Supply	
			min Pressure	Max Pressure with Size I Coil Air	Max Pressure with Size II Coil Air	Water					AC	DC
2 Direct Acting	1 1/8"	1.2	0 Bar	20	16	70	60	0- Fly Lead	0- No MOR	12	12	
	2 1/4"	1.8	0 Bar	10	8	30	25	1- Terminal Box	MP-Push Button	24	24	
	3 3/8"	2	0 Bar	8	6	20	15	2- Plug in Conn driver type	MS-Screw driver type	48	48	
	4 1/2"	2.5	0 Bar	6	5	15	12	3- Conn with LED	ML- with Locking Arrangement	110	60	
3 External Pilot Operated	3	3		4	3.5	12	10	4- Ex-Proof with Junction	MT- Push & Turn Type	440	240	
	4	4		7	6	7	6					
4 NAMUR Direct Acting	6	6		2	1.5	2	1.5					
	5 NAMUR Poppet Design											
5 NAMUR Poppet Design	2 1/4"	6/7	Pressure / Orifice Chart									
	3 3/8"	10	For Pilot Operated valves (Internal/External)									
	4 1/2"	12	0 Bar / 70 Bar									
	5 3/4"	20	2 Bar / 30 Bar									
6 Air Blaster Design	6 1/4"	25										
	7 1/4"	32										
1 For Size I Coil 2 For Size II Coil 3 For Size III Coil	8 11/2"	40										
3	1	2										
	2	3										
4	3	4										
	4	5										
5	5	6										
	6	7										
6	7	8										
	8											

(Select appropriate values from above table)

Name Plate:

Model: 31212010 Media: Air  
Pressure: 0 -10 Bar Orifice: 18 mm

### Selection of Valve Model No.

Example:  
3/2 Way Direct Acting Normally closed  
Solenoid Valve having 1/4" BSP (F) Port Connection &  
Orifice of 1.8 mm suitable for pressure range of 0-10  
bar with Brass MOC & size I coil with supply voltage of  
230 V AC having Terminal Box Enclosure for air Media



## 5/2, 5/3, 5/4 Way Poppet type Valves

- This valve is used in Pneumatic cylinder Actuation
- Media: Air

Type	Poppe type Solenoid Valve
Size Range	1/4" to 1/2"
Valve Action	
MOC	Aluminium / Brass / SS 304 / 316
Seals	Nitrile / EPDM / VITON
Pressure Range	0 to 10 Bar



Coil Enclosures	Fly Leads / Plug in conn / LED Indicator / Flameproof Gr I,IIA IIB
Coil Voltages (AC)	24 V AC / 42 V AC / 110 V AC / 230 V AC
Coil Voltages (DC)	12 V DC / 24 V DC / 110 V DC

## 5/2 Way Poppet 'NAMUR' Valves

- This valve is used Exclusively for Fitting Directly ON Pneumatic Actuator
- Media: Air



Type	NAMUR Valve
Size Range	1/4" to 1/2"
Valve Action	Universal
MOC	Aluminium / Brass / SS 304 / 316
Seals	Nitrile
Pressure Range	2 to 10 Bar

Coil Enclosures	Fly Leads / Plug in conn / LED Indicator / Flameproof Gr I,IIA IIB
Coil Voltages (AC)	24 V AC / 42 V AC / 110 V AC / 230 V AC
Coil Voltages (DC)	12 V DC / 24 V DC / 110 V DC





## 5/2, 5/3, 5/4 Way Spool type Valves

- These valves are Single Solenoid Type used in Pneumatic cylinder Actuation
- This is Economical design operated with Spool inside
- Media: Air

Type	Poppe type Solenoid Valve
Size Range	1/4" to 1/2"
Valve Action	Universal
MOC	Aluminium / Brass / SS 304 / 316
Seals	Nitrile / EPDM / VITON
Pressure Range	0 to 10 Bar



Coil Enclosures	Fly Leads / Plug in conn / LED Indicator / Flameproof Gr I, IIA IIB
Coil Voltages (AC)	110 V AC / 230 V AC
Coil Voltages (DC)	24 V DC

## 5/2 Way Spool Double Solenoid Valves



- Double Solenoid valves are useful in Controlling the Direction of Pneumatic cylinders
- Media: Air

Type	Direction Control Valve
Size Range	1/4" to 1"
Valve Action	Universal
MOC	Aluminium / Brass / SS 304 / 316
Seals	Nitrile / EPDM / VITON
Pressure Range	2 to 10 Bar

Coil Enclosures	Fly Leads / Plug in conn / LED Indicator / Flameproof Gr I, IIA IIB
Coil Voltages (AC)	110 V AC / 230 V AC
Coil Voltages (DC)	24 V DC



## 5/2, 5/3 Way Hand Lever Valves



- These valves are Spool Type valves used with Lever in Pneumatic Application
- Reliable, Durable Valve for smooth Operation
- Media: Air

Type	Spool type Hand Lever Valve
Size Range	1/4" to 1"
Valve Action	Universal
MOC	Aluminium / Brass / SS 304 / 316
Seals	Nitrile / EPDM / VITON
Pressure Range	0 to 10 Bar

## 5/2, 5/3 Way Push - Pull type Valves

- These valves are Spool Type valves used with Leve in Pneumatic Application
- Reliable, Durable Valve for smooth Operation
- Media: Air

Type	Push - Pull type Valve
Size Range	1/4" to 1/2"
MOC	Aluminium / Brass / SS 304 / 316



## 5/2, 5/3 Way Foot Operated Valves

- These valves are Spool Type valves used with Lever in Pneumatic Application
- Reliable, Durable Valve for smooth Operation
- Media: Air

Type	Push - Pull type Valve
Size Range	1/4" to 1/2"
MOC	Aluminium / Brass / SS 304 / 316





## Gas Valve - Suitable for Welding Gas Application

- These valves are used for Welding Gas Machine Application



## Gas Analyser Solenoid Valve

- These valves are used in Gas Analyser

## Dental Machine Solenoid Valves

- These valves are used in Dental Machine Application

## Sugar Model Solenoid Valves

- Valves are Used in Sugar Industry. These valves are modified design to suit specific requirement in Sugar Industries.

## Low Pressure/Vacuum Application Solenoids

- These Valves are suitable for Low pressure or Vacuum Application with Full Orifice. Pressure Upto Max 1 Kg to 4 Kg/cm<sup>2</sup> Only.





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Manufactured By:

**Valtation Controls**

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