

## Solenoid & Process Valves

To Order, Please Specify: 1. Model No. 2. Voltage

	Part No.		Port Size (NPT)	Cv	Voltage	Features		
	2P025-1/8		1/8	0.23	Voltage Options: 1 = 12 VDC 2 = 24VDC  2A=24VAC 3 = 110VAC 4 = 220VAC	2 Way, Direct Acting, Normally Closed  Operating Temp: -5 to 80 deg. C  Operating Pressure: Vacuum to 115 PSI  Coil: F Class, IP65, 100% ED  Service: Air, Gas, Liquid  Seals: NBR, (Viton Option)  Body Material:  2P Series: Engineered Plastic  2S Series: 304 Stainless Steel Body  2V Series: Anodized Aluminum Body  2W Series: Brass		
	2P025-1/4		1/4	0.23				
	2S025-1/4		1/4	0.23				
	2S040-3/8		3/8	0.6				
	2V025-1/8		1/8	0.23				
	2V025-1/4		1/4	0.23				
	2W025-1/4		1/4	0.23				
	2W040-3/8		3/8	0.6				
	2W160-3/8		3/8	4.8			Voltage Options: 1 = 12 VDC 2 = 24VDC  2A=24VAC 3 = 110VAC 4 = 220VAC	2 Way, Direct Acting/Lift, Normally Closed  Operating Temp: -5 to 80 deg. C  Operating Pressure: Vacuum to 115 PSI  Coil: F Class, IP65, 100% ED  Service: Air, Gas, Liquid  Seals: NBR, (Viton Option)  Body Material: Brass
	2W160-1/2		1/2	4.8				
	2W200-3/4		3/4	7.6				
	2W250-1		1	12				
	2W350-1 1/4		1 1/4	24				
	2W400-1 1/2		1 1/2	29				
	2W500-2		2	48				
	2S160-3/8		3/8	4.8	Voltage Options: 1 = 12 VDC 2 = 24VDC  2A=24VAC 3 = 110VAC 4 = 220VAC	2 Way, Direct Acting/Lift, Normally Closed  Operating Temp: -5 to 80 deg. C  Operating Pressure: Vacuum to 115 PSI  Coil: F Class, IP65, 100% ED  Service: Air, Gas, Liquid  Seals: NBR, (Viton Option)  Body Material: 304 Stainless Steel		
	2S160-1/2		1/2	4.8				
	2S200-3/4		3/4	7.6				
	2S250-1		1	12				
	2S350-1 1/4		1 1/4	24				
	2S400-1 1/2		1 1/2	29				
	2S500-2		2	48				
	QW-1/2		1/2	4.8	Pilot Pressure: 80-150 PSI	2 Way, Direct Acting, NC  Operating Temp -5 to 80 deg. C  Operating Pressure: 100 PSI  Service: Air, Water, Oil, Gas  Seals: Teflon  Body Material: Brass		
	QW-3/4		3/4	7.6				
	QW-1		1	12				
	QW-1 1/2		1 1/2	29				
	QW-2		2	48				


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	2WO 160-3/8		3/8	4.8	Voltage Options: 1 = 12 VDC 2 = 24VDC  2A=24VAC 3 = 110VAC 4 = 220VAC	<b>Normally Open</b> 2 Way, Direct Acting/Lift, Operating Temp: -5 to 80 deg. C Operating Pressure: Vacuum to 115 PSI Coil: F Class, IP65, 100% ED Service: Air, Liquid Seals: NBR (Option: Viton, EPDM)  Body Material: 2S Series: 304 Stainless Steel 2W Series: Brass		
	2WO 160-1/2		1/2	4.8				
	2WO 200-3/4		3/4	7.6				
	2WO 250-1		1	12				
	2WO 350-1 1/4		1 1/4	24				
	2WO 400-1 1/2		1 1/2	29				
	2WO 500-2		2	48				
	2SO 160-3/8		3/8	4.8				
	2SO 160-1/2		1/2	4.8				
	2SO 200-3/4		3/8	7.6				
	2SO 250-1		1	12				
	2SO 350-1 1/4		1 1/4	24				
	2SO 400-1 1/2		1 1/2	29				
	2SO 500-2		2	48				
	2L170-3/8		3/8	4.8	Voltage Options: 1 = 12 VDC 2 = 24VDC  2A=24VAC 3 = 110VAC 4 = 220VAC	<b>Normally Closed, 2 Way, Direct Acting</b> Brass Body, Seals: PTFE Operating Temp: -5 to 150 deg. C Operating Pressure: 215 PSI Coil: F Class, IP65, 100% ED Service: Air, Liquid, Steam Installation: Vertical Coil Position		
	2L170-1/2		1/2	4.8				
	2L170-3/4		3/4	4.8				
	2L200-1		1	12				
	2L300-1 1/4		1 1/4	20				
	2L300-1 1/2		1 1/2	20				
	2L500-2		2	48				
	VX2120-1/8		1/8	0.33			Voltage Options: 1 = 12 VDC 2 = 24VDC  2A=24VAC 3 = 110VAC 4 = 220VAC	<b>Normally Closed, 2 Way, Direct Acting,</b> Brass Body, Seals: VITON Operating Temp -5 to 150 deg. C Operating Pressure: 140 PSI Coil: F Class, IP65, 100% ED Service: Air, Water, Steam
	VX2120-1/4		1/4	0.33				
	VX2120-3/8		3/8	4				
	VX2120-1/2		1/2	4				
	VXF2120-1/8		1/8				Voltage Options: 1 = 12 VDC 2 = 24VDC  2A=24VAC 3 = 110VAC 4 = 220VAC	<b>Normally Closed, 2 Way, Direct Acting,</b> Seals: NBR (Option: VITON) Operating Temp: -5 to 150 deg. C Operating Pressure: 150 PSI Coil: F Class, IP65, 100% ED Service: Air, Liquid Body Material: Aluminum
	VXF2120-1/4		1/4					
	VXF2120-3/8		3/8					
	VXF2120-1/2		1/2					
	QWO-1/2		1/2	4.8	Pilot Pressure: 80-150 PSI	<b>Normally Open</b> 2 Way, Direct Acting, Brass Body; Seals: Viton Operating Temp -5 to 80 deg. C Operating Pressure: 100 PSI Air Pilot Pressure: 80-150 PSI Service: Air, Water, Oil, Gas		
	QWO-3/4		3/4	7.6				
	QWO-1		1	12				
	QWO-1 1/2		1 1/2	29				
	QWO-2		2	48				

## Electrical Coil

		Part No.	Voltage Options	Electrical Connection	Power	Specifications
	2W200C		1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC  Insulation: F Class IP65 Duty Cycle: 100% ED	D = DIN (5/16" strain relief connector)	13 to 20W	For 2S/2W 025 to 250 series valves
	2W350C				25-65W	For 2/S2W 350-500 & 2L 170-500 series valves
	2WOC				40 W	For 2SO/2WO 160-500 series valves
	200C				3 to 6.5 W	For 2V & 2P025-035 & 2V1, 3V1 series valves
				D = DIN (with LED indicator) G = Grommet (12" Lead Wire)		

## Solenoid Valve Specifications

Valve Type	2P	2S/2SO	2W/2WO	2L Series	VX Series 06 to 08	VX Series 10-15	QW
Operating Pressure	Vacuum to 115 PSI		0 to 100 PSI	0 to 210 PSI	0 to 145 PSI	0 to 145 PSI	0 to 85 PSI
Operating Temperature	-5 TO 80 Deg. C			-5 TO 150 Deg. C	-5 TO 150 Deg. C	-5 TO 150 Deg. C	-5 TO 100 Deg. C
Body Materials	Engineered Plastic	304 Stainless	Brass	Brass	Brass	Brass	Brass
Seal Materials	NBR			PTFE	NBR		
Coil Protection Insulation Class	F Class IP65						Air Pilot Operated
Coil Duty Cycle	100% ED						
Electrical Connections	DIN (with 3/8" Strain Relief Connection)				Two 12" Lead Wires		N/A
Service	Air, Liquid			Air, Liquid, Steam Installation -Vertical	Air, Liquid		Air, Liquid, Gas

## Ball Valves

										
Reduced Port Ball Valves	Full Port Ball Valves	Full Port Ball Valves	Full Port Ball Valves	Full Port Butterfly Valves	Needle Valves					
Model	V1	V2	V3	V3C	VBS01	VN01				
Material	316 SS	316 SS	316 SS	316 SS	316 SS	316 Stainless Steel				
Port	FNPT	FNPT	FNPT	Clamp	Clamp	NPT Female				
Size 1/4"	V1-1/4	V2-1/4	V3-1/4			VN01-1/4				
3/8"	V1-3/8	V2-3/8	V3-3/8			VN01-3/8				
1/2"	V1-1/2	V2-1/2	V3-1/2			VN01-1/2				
3/4"	V1-3/4	V2-3/4	V3-3/4			VN01-3/4				
1"	V1-1	V2-1	V3-1	V3C-1	VBS01- 1	VN01-1				
1 1/4"	V1-1 1/4	V2-1 1/4	V3-1 1/4							
1 1/2"	V1-1 1/2	V2-1 1/2	V3-1 1/2	V3C-1 1/2	VBS01- 1 1/2					
2"	V1-2	V2-2	V3-2	V3C-2	VBS01- 2					
3"				V3C-3						
										
Miniature Ball Valves	Miniature Ball Valves	Full Port	ROTARY PNEUMATIC VALVE ACTUATORS		Single Acting	Double Acting	Note			
Model	T400	T400FM	T101L	KT-DA	Rotation				Suitable for Ball Valve Size	
Material	Chrome-Plated Brass	Chrome-Plated Brass	Brass		Model	Bore (mm)	90 Degree	180 Degree		90 Degree
Port	F NPT	F x M NPT	F NPT			45				
Size 1/4"	T400-1/4	T400FM-1/4	T101L-1/4			63				1 1/2"
3/8"	T400-3/8	T400FM-3/8	T101-3/8			83				2 1/2"
1/2"	T400-1/2	T400FM-1/2	T101L-1/2			105				3"
3/4"			T101L-3/4		125				4"	
1"			T101L-1							
1 1/2"			T101L-1 1/2							
2"			T101L-2							