

DIRECTIONAL CONTROL HEADLINE VALVES 27 SERIES

PRODUCT CATALOG





Headline Poppet Valves 27 Series Product Overview

Directional Control Function

Directional control valves function is to control the direction of flow in the pneumatic circuit. Directional control valves are able to control the way the air passes. These valves can regulate the airflow being capable to stop fluid flow, allow fluid flow, and change the direction of fluid flow. These three functions usually operate in combination.



Illustration examples.

	VALVE FEATURES
Poppet Design	Poppet construction for high dirt tolerance
Mounting Options	Can be mounted close to actuator, reducing length of pipe to be pressurized/exhausted on each cycle
Pilot Supply	Internal or external
High Velocity	Near zero leakage
Positive Sealing	No sliding action to prevent damage and wear
Reliability	Consistent response times over the life of the valve

Explosion-Proof solenoid pilot valves available, see valves for Hazardous Locations.





Actuation		Available Inlet Port Sizes							Functions			Maximum Flow	Page	
notaution.	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	2/2	3/2	4/2	C _v (NI/min)	
Solenoid Controlled	•	•	•	•	•	•	•	•	•	•	•		71 (70000)	3 – 9
Direct Double Solenoid Controlled	•	•	•	•	•	•	•					•	34 (33000)	10 – 13
Pressure Controlled	•	•	•	•	•	•	•			•	•	•	71 (70000)	14 – 19
Accessories														20 – 21

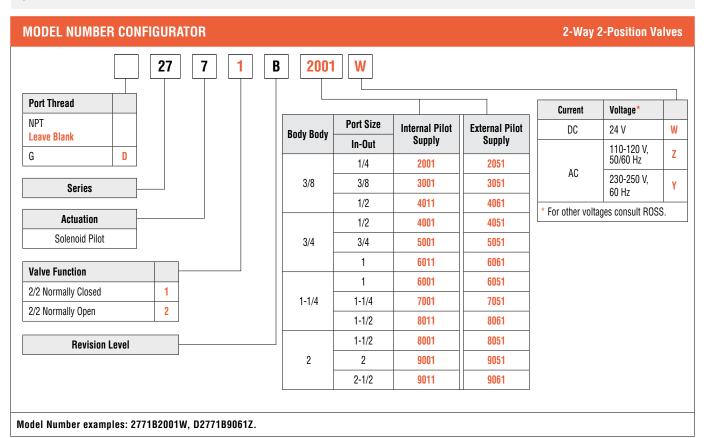
Specifications



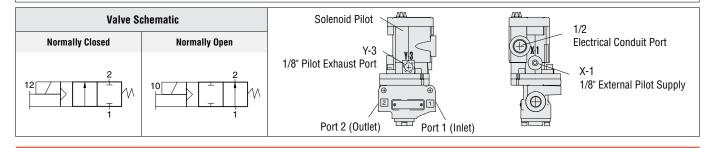
		ST	TANDARD SPECIF	ICATIONS					
	Function		2/2, 3/2, and 4/2 V	alve					
	Construction Desig	ın	Poppet						
	Actuation		Electrical	Solenoid Pilot Controlled					
	Actuation		Pneumatic Pressure Controlled						
GENERAL	Mounting	Туре	Inline						
	Mounting	Orientation	Any, preferably ve	rtical					
	Connection		Threaded	Threaded NPT, G					
	Manual Override	Solenoid Pilot Controlled	Flush; rubber, non	Flush; rubber, non-locking					
		Solenoid Pilot	Ambient	40° to 120°F (4° to 50°C)					
	Tanananatuwa	Controlled	Media	40° to 175°F (4° to 80°C)					
	Temperature	Daniel and Construction	Ambient	400 1 47505 (40 1 0000)					
OPERATING		Pressure Controlled	Media	40° to 175°F (4° to 80°C)					
	Flow Media		Filtered air	Filtered air					
	Operating Proceurs		Pody Sizo	3/8 through 1-1/4	15 to 150 psig (1 to 10 bar)				
	Operating Pressure		Body Size	2	30 to 150 psig (2 to 10 bar)				
	External Pilot Supply	Solenoid Pilot Controlled	Must be equal to o	to or greater than inlet pressure					
			Current Flow	Operating Voltage	Power Consumption (each solenoid)				
ELECTRICAL Data for			DC	24 volts	14 watts				
SOLENOID	Solenoids		AC	110-120 volts, 50/60 Hz	87 VA inrush, 30 VA holding				
PILOT VALVES			AU	230-240 volts, 60 Hz	or valinush, so valididing				
			Rated for continuo	us duty					
	Valve Body		Cast Aluminum						
CONSTRUCTION MATERIAL	Poppet		Acetal and Stainles	ss Steel					
	Seals		Buna-N						
SAFETY DATA	Safety Integrity Leve	el (SIL)	(SIL 2) and EN ISO	13849-1, PL c (with application s	08 and IEC 61511 safety integrity level 2 pecific diagnosis) in singular application tion with HFT≥1, for details see certificate.				
	IMPORTANT N	OTE: Please read carefull	y and thoroughly all of	the CAUTIONS, WARNINGS on	the inside back cover.				

PRODUCT CREDENTIALS									
Safety Integrity Level Per IEC 2061:2001	Declaration o	of Conformity	Certificate of Compliance						
SIL 2 Functional Safety	C€	ERC	c C®° _{US}						

2/2 Solenoid Pilot Controlled Valves

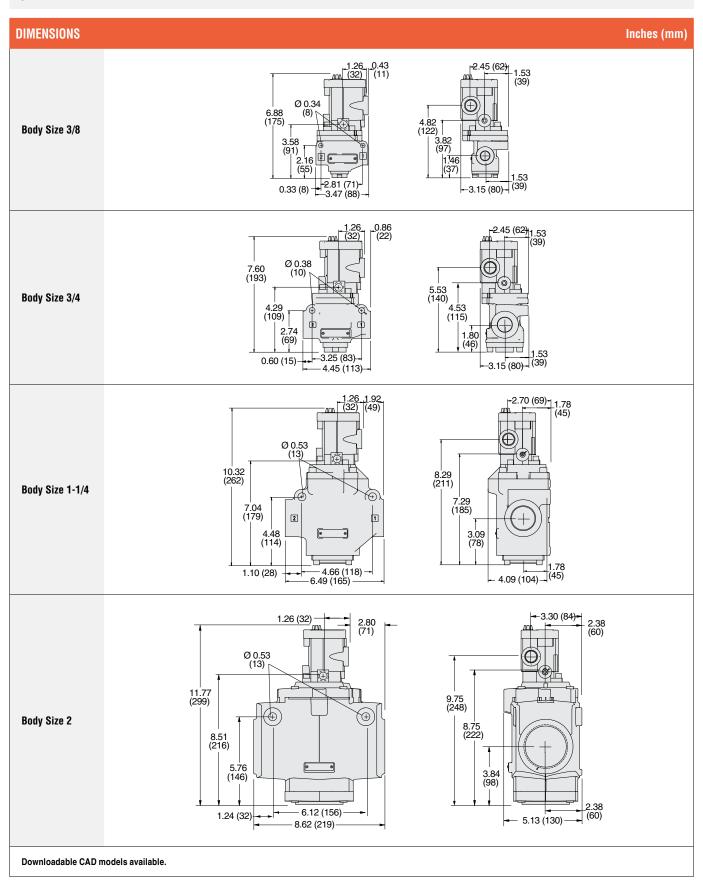


8	Size	Flo C _V (NI			Average Response	Constants*	Weight
Dodu	Doub 1 0	Normally Closed (NC)	Normally Open (NO)	М		lb (kg)	
Body	Port 1, 2	1-2	1-2	- IVI	NC	NO	
	1/4	1.8 (1800)	1.8 (1800)	10	0.91	0.91	
3/8	3/8	3.2 (3100)	2.9 (2800)	10	0.70	0.76	2.5 (1.2)
	1/2	3.9 (3800)	3.4 (3300)	10	0.64	0.72	
	1/2	7.2 (7100)	6.5 (6400)	14	0.37	0.43	
3/4	3/4	9.1 (9000)	8.2 (8100)	14	0.34	0.39	3.3 (1.5)
	1	9.9 (9700)	8.2 (8100)	14	0.34	0.37	
	1	21 (21000)	21 (21000)	26	0.17	0.17	
1-1/4	1-1/4	30 (31000)	22 (22000)	26	0.15	0.19	7.0 (3.2)
	1-1/2	32 (31000)	24 (24000)	26	0.15	0.18	
	1-1/2	46 (45000)	46 (45000)	41	0.09	0.09	
2	2	59 (58000)	58 (57000)	41	0.07	0.07	15.5 (6.9)
	2-1/2	66 (65000)	60 (59000)	41	0.07	0.06	

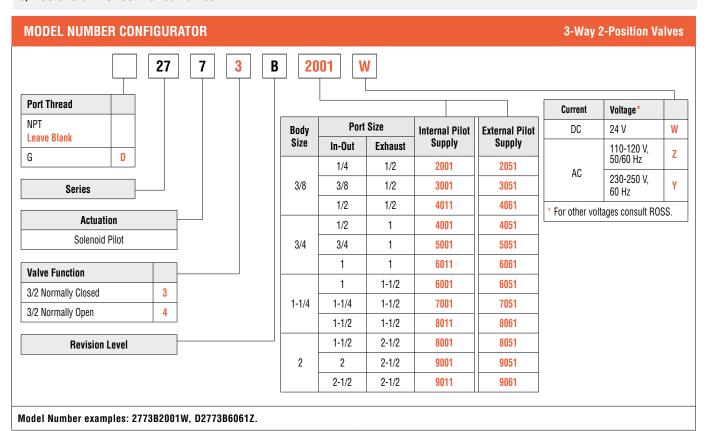




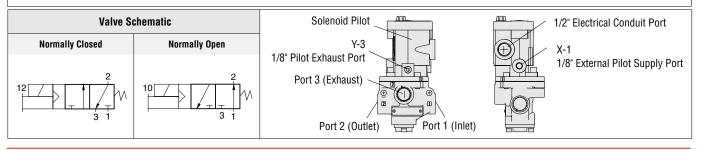
2/2 Solenoid Pilot Controlled Valves



3/2 Solenoid Pilot Controlled Valves

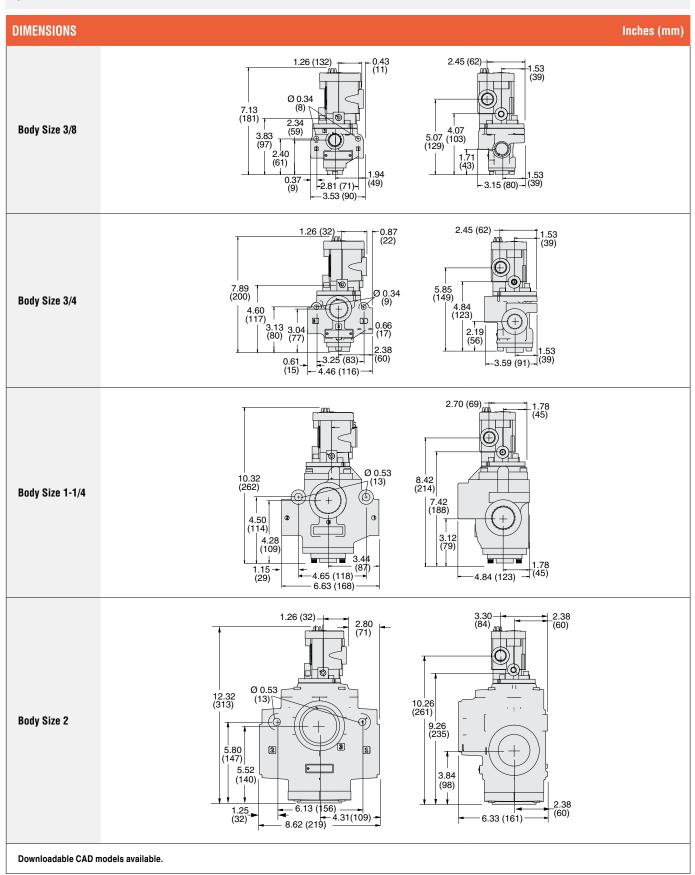


	Size		Flow C _V (NI/min)					Average Response Constants*					
Body	Port 1, 2	Port 3	Normally Closed (NC)		Normally	Open (NO)	M	N	IC	F N	0	Weight Ib (kg)	
			1-2	2-3	1-2	2-3		1-2	2-3	1-2	2-3]	
	1/4	1/2	1.9 (1900)	3.3 (3200)	1.7 (1700)	3.0 (3000)	10	0.90	0.80	0.99	0.88		
3/8	3/8	1/2	2.9 (2800)	4.4 (4300)	2.8 (2800)	3.0 (3000)	10	0.70	0.50	0.90	0.77	2.5 (1.2)	
	1/2	1/2	3.8 (3800)	5.0 (4900)	3.0 (3000)	3.0 (3000)	10	0.75	0.50	0.90	0.76	1	
	1/2	1	6.2 (6100)	9.4 (9300)	6.1 (6000)	8.0 (7900)	11	0.43	0.27	0.46	0.60		
3/4	3/4	1	8.2 (8100)	10 (9800)	7.7 (7600)	8.0 (7900)	11	0.36	0.26	0.45	0.60	3.3 (1.5)	
	1	1	9.1 (9000)	12 (12000)	8.3 (8200)	8.0 (7900)	11	0.34	0.25	0.40	0.59		
	1	1-1/2	21 (21000)	27 (27000)	18 (18000)	20 (20000)	28	0.17	0.14	0.20	0.17		
1-1/4	1-1/4	1-1/2	29 (29000)	29 (29000)	21 (21000)	22 (22000)	28	0.15	0.15	0.19	0.17	7.0 (3.2)	
	1-1/2	1-1/2	30 (30000)	30 (30000)	21 (21000)	25 (25000)	28	0.15	0.15	0.19	0.16		
	1-1/2	2-1/2	45 (44000)	75 (74000)	45 (44000)	53 (52000)	76	0.05	0.04	0.07	0.04		
2	2	2-1/2	57 (56000)	78 (77000)	55 (54000)	61 (60000)	76	0.05	0.04	0.05	0.04	16.5 (7.4)	
	2-1/2	2-1/2	66 (65000)	82 (81000)	61 (60000)	71 (70000)	76	0.05	0.04	0.50	0.04	1	

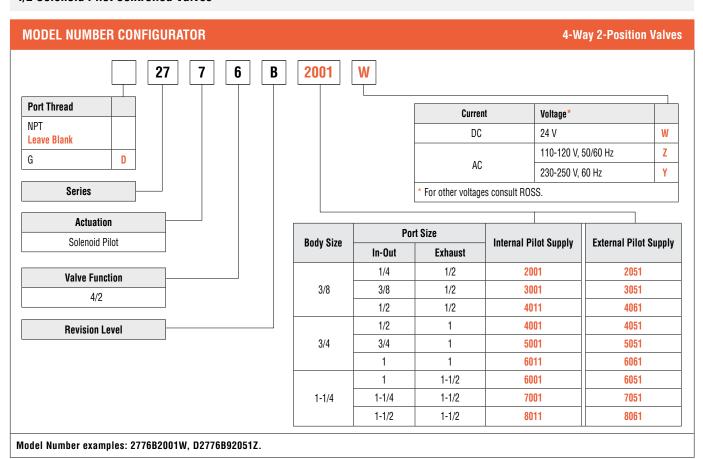




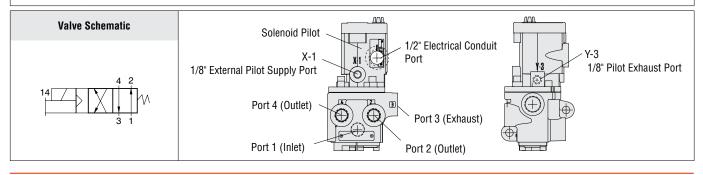
3/2 Solenoid Pilot Controlled Valves



4/2 Solenoid Pilot Controlled Valves

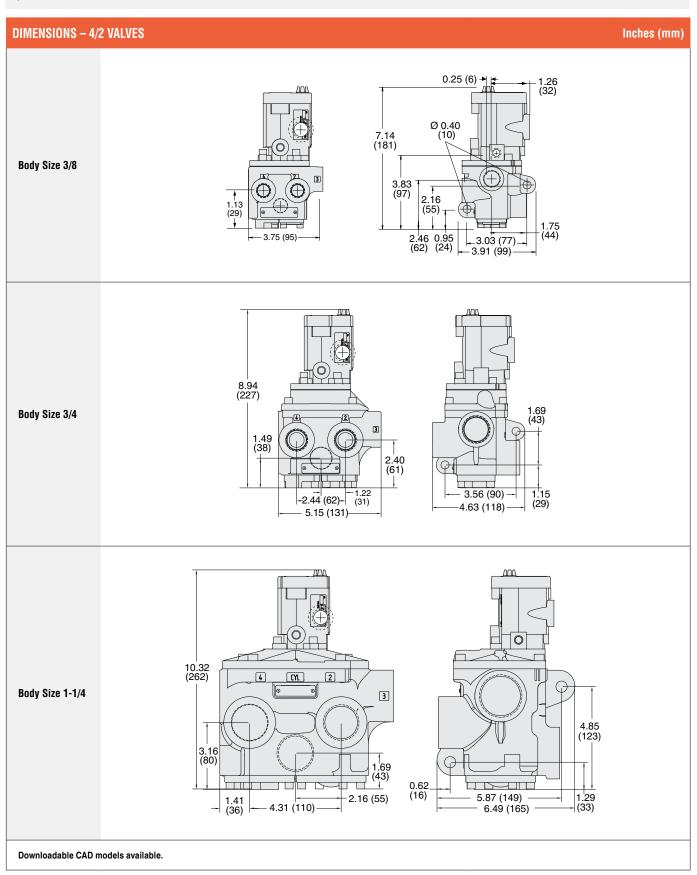


	Size				ow .		A	verage Response	Constants*	Wataka
Podu	Dor# 1 2 4	Port 3]	C _v (N	l/min)		М	I		Weight lb (kg)
Body	Port 1, 2, 4	ruits	1-2	2-3	1-4	4-3	IVI	1-2, 1-4	4-3, 2-3	
	1/4	1/2	1.7 (1700)	2.3 (2300)	1.8 (1800)	2.8 (2800)	10	0.92	0.92	
3/8	3/8	1/2	2.6 (2600)	3.3 (3200)	2.9 (2900)	3.9 (3800)	10	0.90	0.90	3.0 (1.4)
	1/2	1/2	3.1 (3100)	4.2 (4100)	4.2 (4100)	5.2 (5100)	10	0.89	0.73	
	1/2	1	5.7 (5600)	7.0 (6900)	5.5 (5400)	7.3 (7200)	26	0.50	0.66	
3/4	3/4	1	7.4 (7300)	7.0 (6900)	7.3 (7200)	9.5 (9300)	26	0.36	0.55	5.3 (2.4)
	1	1	7.9 (7800)	8.0 (7900)	8.0 (7900)	11 (11000)	26	0.35	0.50	
	1	1-1/2	13 (13000)	21 (21000)	18 (18000)	22 (22000)	79	0.17	0.22	
1-1/4	1-1/4	1-1/2	16 (16000)	22 (22000)	25 (25000)	26 (26000)	79	0.16	0.18	11.3 (5.1)
	1-1/2	1-1/2	16 (16000)	22 (22000)	26 (26000)	27 (27000)	79	0.15	0.15	

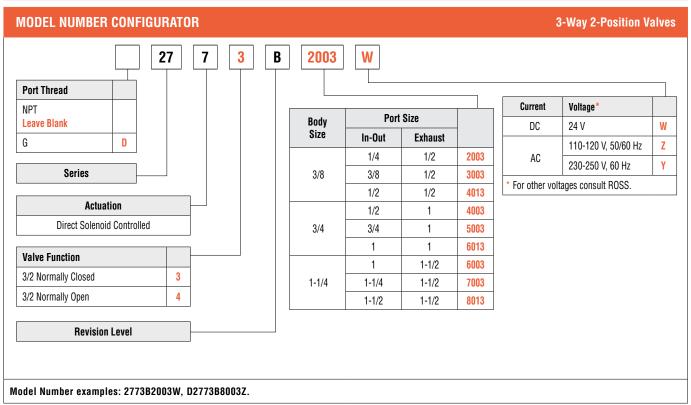




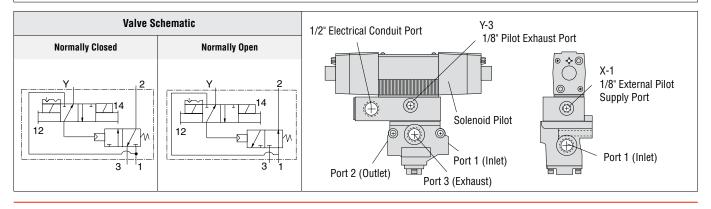
4/2 Solenoid Pilot Controlled Valves



3/2 Direct Double Solenoid Controlled Valves

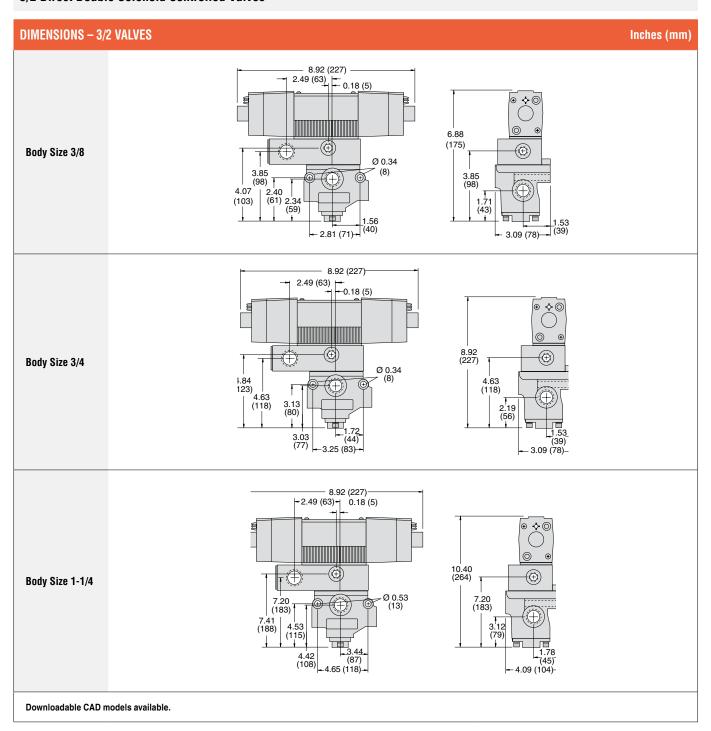


	Size		Flow C _V (NI/min)					Average Response Constants*				
			Normally Closed (NC) Normally Open (NO)				F				Weight lb (kg)	
Body	Port 1, 2	Port 3			. , ,	M	NC		N	0	(0,	
			1-2	2-3	1-2	2-3		1-2	2-3	1-2	2-3	
	1/4	1/2	2.5 (2500)	3.1 (3100)	2.3 (2300)	2.7 (2700)	10	0.90	0.80	0.99	0.88	
3/8	3/8	1/2	3.6 (3500)	5.3 (5200)	2.8 (2800)	3.2 (3100)	10	0.70	0.50	0.90	0.77	2.5 (1.2)
	1/2	1/2	3.3 (3200)	5.3 (5200)	2.8 (2800)	3.2 (3100)	10	0.75	0.50	0.90	0.76	
	1/2	1	6.3 (6200)	9.2 (9100)	6.3 (6200)	8.0 (7900)	11	0.43	0.27	0.46	0.60	
3/4	3/4	1	7.7 (7600)	11 (11000)	6.9 (6800)	7.4 (7300)	11	0.36	0.26	0.45	0.60	3.3 (1.5)
	1	1	8.0 (7900)	12 (12000)	6.8 (6700)	7.5 (7400)	11	0.34	0.25	0.40	0.59	
	1	1-1/2	23 (23000)	34 (33000)	17 (17000)	24 (24000)	28	0.17	0.14	0.20	0.17	
1-1/4	1-1/4	1-1/2	30 (30000)	32 (31000)	19 (19000)	24 (24000)	28	0.15	0.15	0.19	9 0.17 7.0 (3	7.0 (3.2)
	1-1/2	1-1/2	30 (30000)	31 (31000)	19 (19000)	23 (23000)	28	0.15	0.15	0.19	0.16	

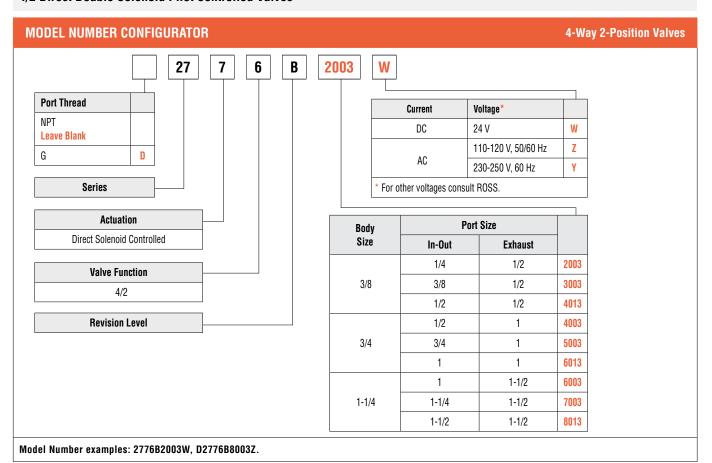




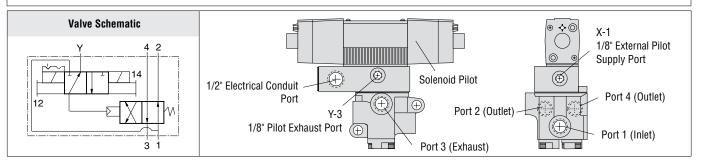
3/2 Direct Double Solenoid Controlled Valves



4/2 Direct Double Solenoid Pilot Controlled Valves

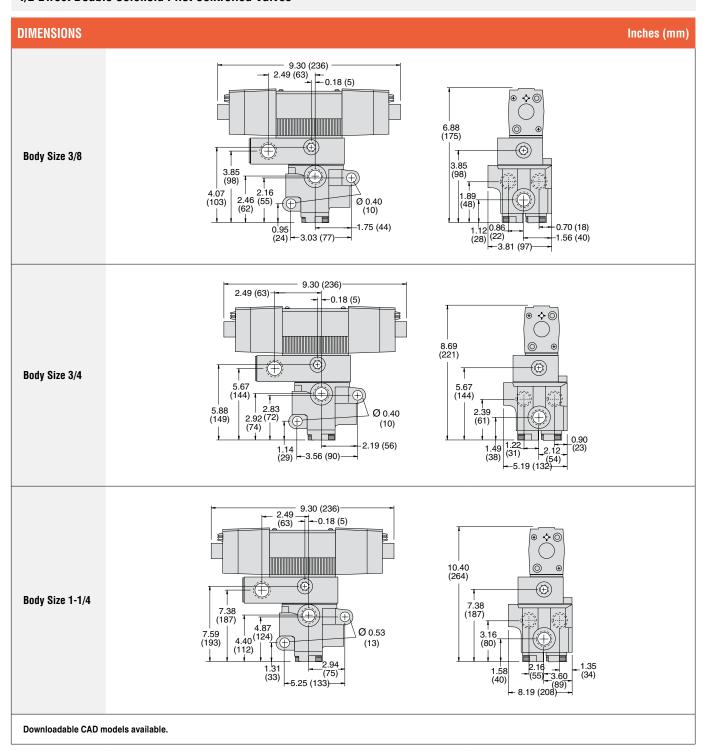


	Size			ow .				
Dadu	Dort 1 2 4	Dowt 2	C _V (N	l/min)	M		F	Weight lb (kg)
Body	Port 1, 2, 4	Port 3	1-2, 1-4	4-3, 2-3	M	1-2, 1-4	4-3, 2-3	
	1/4	1/2	2.1 (2100)	2.9 (2900)	10	0.92	0.92	
3/8	3/8	1/2	2.9 (2900)	4.2 (4100)	10	0.90	0.90	3.0 (1.4)
	1/2	1/2	3.1 (3100)	4.3 (4200)	10	0.89	0.73	
	1/2	1	5.6 (5500)	8.1 (8000)	26	0.50	0.66	
3/4	3/4	1	7.0 (6900)	9.3 (9200)	26	0.36	0.55	5.3 (2.4)
	1	1	7.8 (7700)	10 (9900)	26	0.35	0.50	
	1	1-1/2	19 (19000)	26 (26000)	79	0.17	0.22	
1-1/4	1-1/4	1-1/2	21 (21000)	27 (27000)	79	0.16	0.18	11.3 (5.1)
	1-1/2	1-1/2	22 (22000)	27 (27000)	79	0.15	0.15	1

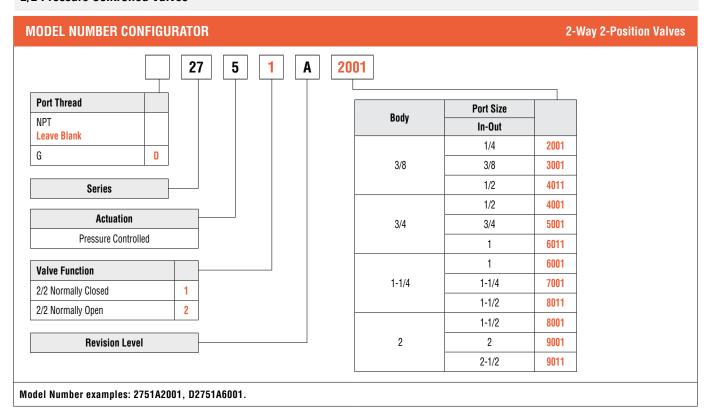




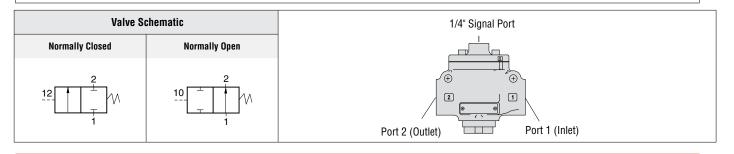
4/2 Direct Double Solenoid Pilot Controlled Valves



2/2 Pressure Controlled Valves

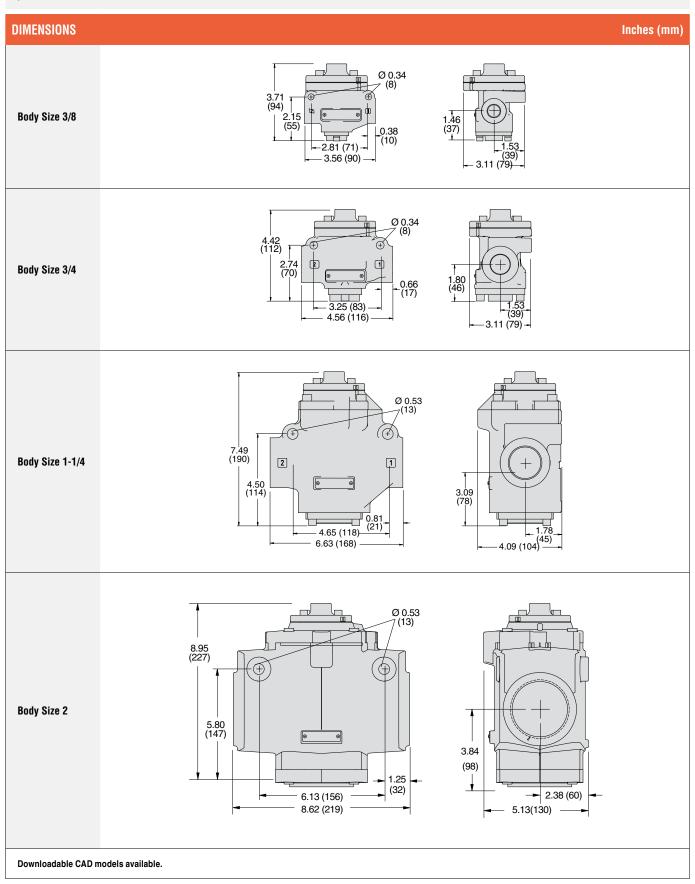


8	Size	Flo C _v (Ni	ow //min)		Average Response Constants*				
Dadu.	David 1 0	Normally Closed (NC)	Normally Open (NO)	Da.		F	Weight Ib (kg)		
Body	Port 1, 2	1-2	1-2	_ M	NC	NO			
	1/4	1.8 (1800)	1.8 (1800)	10	0.91	0.91			
3/8	3/8	3.2 (3100)	2.9 (2800)	10	0.70	0.76	2.5 (1.2)		
	1/2	3.9 (3800)	3.4 (3300)	10	0.64	0.72			
	1/2	7.2 (7100)	6.5 (6400)	14	0.37	0.43			
3/4	3/4	9.1 (9000)	8.2 (8100)	14	0.34	0.39	3.3 (1.5)		
	1	9.9 (9700)	8.2 (8100)	14	0.34	0.37			
	1	21 (21000)	21 (21000)	26	0.17	0.17			
1-1/4	1-1/4	30 (31000)	22 (22000)	26	0.15	0.19	7.0 (3.2)		
	1-1/2	32 (31000)	24 (24000)	26	0.15	0.18			
	1-1/2	46 (45000)	46 (45000)	41	0.09	0.09			
2	2	59 (58000)	58 (57000)	41	0.07	0.07	15.5 (6.9)		
	2-1/2	66 (65000)	60 (59000)	41	0.07	0.06			





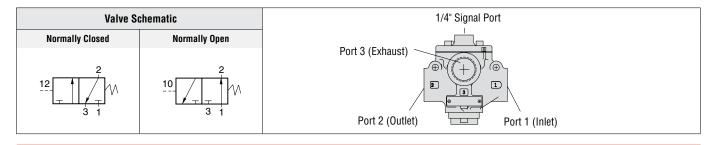
2/2 Pressure Controlled Valves



3/2 Pressure Controlled Valves

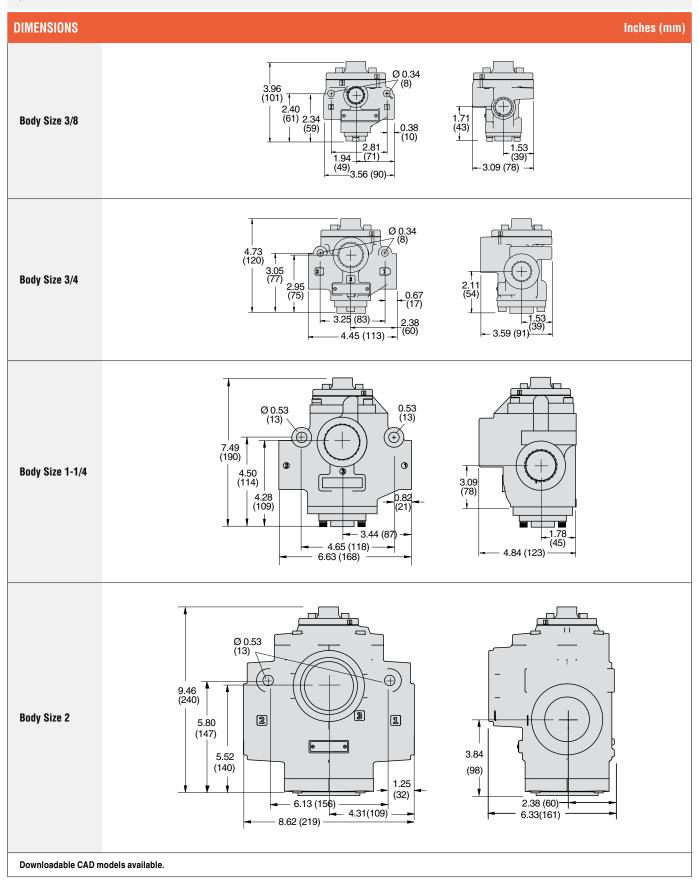
MODEL NUMBER CONFIGURATOR 3-Way 2-Position Valves 27 5 3 A 2001 **Port Thread** Port Size Body Size **Exhaust** In-Out Leave Blank 1/4 1/2 2001 D G 3/8 3/8 1/2 3001 Series 1/2 1/2 4011 1/2 4001 Actuation 3/4 3/4 1 5001 **Pressure Controlled** 1 1 6011 1 1-1/2 6001 **Valve Function** 1-1/4 1-1/4 1-1/2 7001 3/2 Normally Closed 3 1-1/2 1-1/2 8011 4 3/2 Normally Open 1-1/2 2-1/2 8001 **Revision Level** 2 2 2-1/2 9001 2-1/2 2-1/2 9011 Model Number examples: 2753A2001, D2753A6001.

	Size		Flow C _V (NI/min)					Average Response Constants*					
Body	Port 1, 2	Port 3	Normally (Closed (NC)	Normally	Open (NO)	М	N.	C	- N	0	Weight lb (kg)	
Bouy	FUIL 1, 2	Full 3	1-2	2-3	2-3 1-2 2-3		IVI	1-2	2-3	1-2	2-3		
	1/4	1/2	1.9 (1900)	3.3 (3200)	1.7 (1700)	3.0 (3000)	10	0.90	0.80	0.99	0.88		
3/8	3/8	1/2	2.9 (2800)	4.4 (4300)	2.8 (2800)	3.0 (3000)	10	0.70	0.50	0.90	0.77	1.3 (0.6)	
	1/2	1/2	3.8 (3800)	5.0 (4900)	3.0 (3000)	3.0 (3000)	10	0.75	0.50	0.90	0.76		
	1/2	1	6.2 (6100)	9.4 (9300)	6.1 (6000)	8.0 (7900)	12	0.43	0.17	0.46	0.60		
3/4	3/4	1	8.2 (8100)	10 (9800)	7.7 (7600)	8.0 (7900)	12	0.36	0.26	0.45	0.60	2.0 (0.9)	
	1	1	9.1 (9000)	12 (12000)	8.3 (8200)	8.0 (7900)	12	0.34	0.25	0.40	0.59		
	1	1-1/2	21 (21000)	27 (27000)	18 (18000)	20 (20000)	32	0.17	0.14	0.20	0.17		
1-1/4	1-1/4	1-1/2	29 (29000)	29 (29000)	21 (21000)	22 (22000)	32	0.15	0.15	0.19	0.17	6.0 (2.7)	
	1-1/2	1-1/2	30 (30000)	30 (30000)	21 (21000)	25 (25000)	32	0.15	0.15	0.19	0.16		
	1-1/2	2-1/2	45 (44000)	75 (74000)	45 (44000)	53 (52000)	76	0.05	0.04	0.07	0.04		
2	2	2-1/2	57 (56000)	78 (77000)	55 (54000)	61 (60000)	76	0.05	0.04	0.05	0.04	15.3 (6.9)	
	2-1/2	2-1/2	66 (65000)	82 (81000)	61 (60000)	71 (70000)	76	0.05	0.04	0.05	0.04		

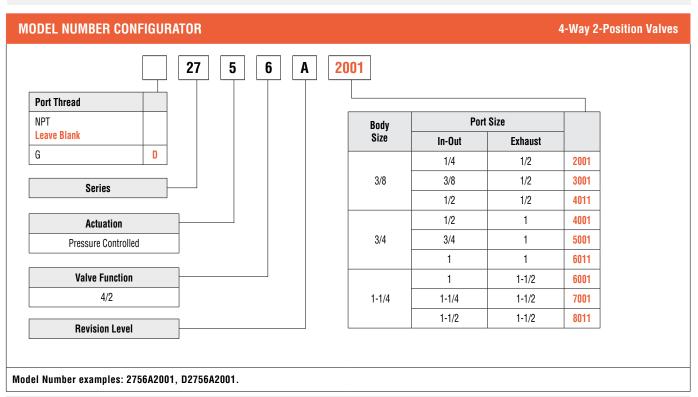




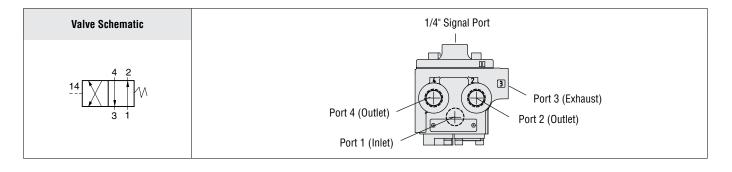
3/2 Pressure Controlled Valves



4/2 Pressure Controlled Valves

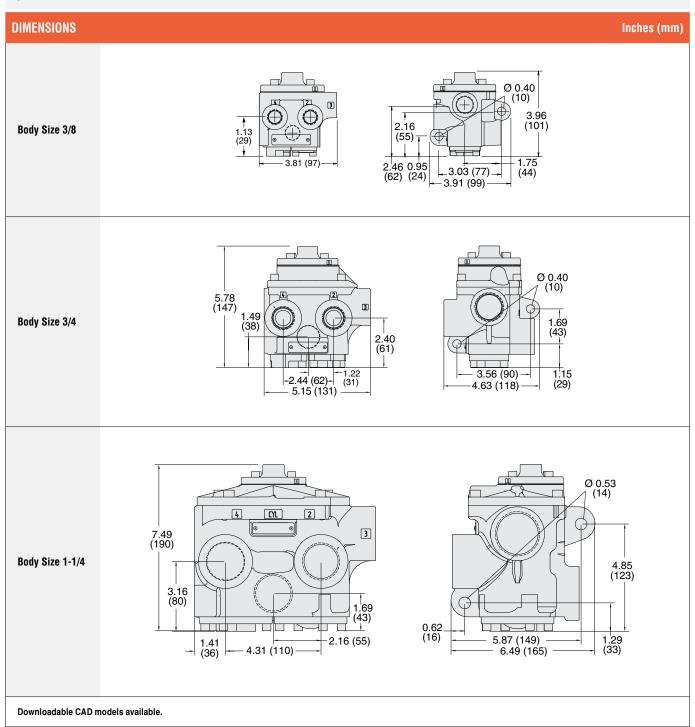


	Size			ow		Average Response Constants*				
Dodu	Dort 1 2 4	Port 3	C _V (N	M		Weight lb (kg)				
Body	Port 1, 2, 4	Puri 3	1-2, 1-4	4-3, 2-3	M	1-2, 1-4	4-3, 2-3			
	1/4	1/2	2.1 (2100)	2.9 (2900)	10	0.92	0.92			
3/8	3/8	1/2	2.9 (2900)	4.2 (4100)	10	0.90	0.90	1.8 (0.8)		
	1/2	1/2	3.1 (3100)	4.3 (4200)	10	0.89	0.73			
	1/2	1	5.6 (5500)	8.1 (8000)	26	0.50	0.66			
3/4	3/4	1	7.0 (6900)	9.3 (9200)	26	0.36	0.55	4.3 (1.9)		
	1	1	7.8 (7700)	10 (9800)	26	0.35	0.50			
	1	1-1/2	19 (19000)	26 (26000)	79	0.22	0.22			
1-1/4	1-1/4	1-1/2	21 (21000)	27 (27000)	79	0.18	0.18	10.3 (4.6)		
	1-1/2	1-1/2	22 (22000)	27 (27000)	79	0.15	0.15			





4/2 Pressure Controlled Valves



Accessories

EXHAUST SILENCERS



Illustration example.

	SPECIFICATIONS		Silencer Material		Pressure Range psig (bar)		Schematic	
			Alı	uminum	0-290 (0-20) r	0-20) maximum —		
	Port Size	Thread Type	Flow	Model	Number	Dime inches		nm) Weight Ib (kg)
Silencers		,,,,	C _v (NI/min)	NPT Thread	R/Rp Thread	Length	Hex Size (D)	
	1/2	Male	6.8 (6700)	5500A4003	D5500A4003	3.6 (9)	1.25 (32)	0.2 (0.1)
	1	Male	18 (18000)	5500A6003	D5500A6003	5.4 (14)	2.0 (51)	0.9 (0.4)
	1-1/2	Female	39 (38000)	5500A8001	D5500A8001	5.7 (14)	2.5 (64)	1.3 (0.6)
	2-1/2	Female	104 (100000)	5500A9002	D5500A9002	4.0 (102)	5.7 (145)	2.9 (1.4)

FEMALE SILENCER CONNECTORS

	Material	Fitting Pipe Size	Thread Type	Model Number		THE REAL PROPERTY.
Hex Nipples	matorial	r ming r ipo oizo	rmoud typo	NPT Thread	BSPT Thread	
TIOX HIPPIOS	Steel	1-1/2	Male - Male	488J27	122J39	
	Steel	2-1/2	Male - Male	490J27	123J39	





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SOLENOID PILOT INDICATOR LIGHT KITS



Illustration example.

Indicator Light Kits

Kit Number				
24 V DC	110-120 V AC, 50-60 Hz	230 V AC, 50-60 Hz		
862K87-W	862K87-Z	862K87-Y		

To visually verify valve operation, indicator light kits are available for single solenoid models. Indicator lights are standard on double solenoid valves. The indicator light is illuminated when the solenoid is energized.

SOLENOID PILOT MANUAL OVERRIDE KITS

Flush Button	Extended Button	Extended Button with Palm

Illustration examples.

Manual Override Kits

	Manual Override Type	Kit Number		
	Manual Overriue Type	Locking Type	Non-Locking Type	
	Flush Button	792K87	790K87	
Extended Button Extended Button with Palm		-	791K87	
		_	984H87	

Flush rubber button, non-locking manual override is standard on solenoid models.

Each of the buttons in the override kits is made of metal and is spring-returned. The locking type button, however, can be kept in the actuated position by turning the slot in the top of the button with a screwdriver.

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Notes

CAUTIONS, WARNINGS And STANDARD WARRANTY



ROSS OPERATING VALVE, ROSS CONTROLS®, ROSS DECCO®, and AUTOMATIC VALVE INDUSTRIAL, collectively the "ROSS Group".

PRE-INSTALLATION or SERVICE

- 1. Before servicing a valve or other pneumatic component, be sure all sources of energy are turned off, the entire pneumatic system is shut down and exhausted, and all power sources are locked out (ref: OSHA 1910.147, EN 1037).
- 2. All ROSS Group Products, including service kits and parts, should be installed and/or serviced only by persons having training and experience with pneumatic equipment. Because any product can be tampered with and/or need servicing after installation, persons responsible for the safety of others or the care of equipment must check ROSS Group Products on a regular basis and perform all necessary maintenance to ensure safe operating conditions.
- 3. All applicable instructions should be read and complied with before using any fluid power system to prevent harm to persons or equipment. In addition, overhauled or serviced valves must be functionally tested prior to installation and use. If you have any questions, call your nearest ROSS Group location.
- 4. Each ROSS Group Product should be used within its specification limits. In addition, use only ROSS Group components to repair ROSS Group Products.

WARNINGS

Failure to follow these instructions can result in personal injury and/or property damage.

FILTRATION and LUBRICATION

- 1. Dirt, scale, moisture, etc., are present in virtually every air system. Although some valves are more tolerant of these contaminants than others, best performance will be realized if a filter is installed to clean the air supply, thus preventing contaminants from interfering with the proper performance of the equipment. The ROSS Group recommends a filter with a 5-micron rating for normal applications.
- 2. All standard ROSS Group filters and lubricators with polycarbonate plastic bowls are designed for compressed air applications only. Use the metal bowl guard, where provided, to minimize danger from high pressure fragmentation in the event of bowl failure. Do not expose these products to certain fluids, such as alcohol or liquefied petroleum gas, as they can cause bowls to rupture, creating a combustible condition and hazardous leakage. Immediately replace crazed, cracked, or deteriorated bowls.
- 3. Only use lubricants which are compatible with materials used in the valves and other components in the system. Normally, compatible lubricants are petroleum base oils with oxidation inhibitors, an aniline point between 180°F (82°C) and 220°F (104°C), and an ISO 32, or lighter, viscosity. Avoid oils with

phosphate type additives which can harm polyurethane components, potentially leading to valve failure which risks personal injury, and/or damage to property.

WARNINGS:

Failure to follow these instructions can result in personal injury and/or property damage.

AVOID INTAKE/EXHAUST RESTRICTION

- 1. Do not restrict air flow in the supply line. To do so could reduce the pressure of the supply air below minimum requirements for the valve and thereby causing erratic action.
- 2. Do not restrict a valve's exhaust port as this can adversely affect its operation. Exhaust silencers must be resistant to clogging and must have flow capacities at least as great as the exhaust capacities of the valves. Contamination of the silencer can result in reduced flow and increased back pressure.

WARNINGS: Failure to follow these instructions can result in personal injury and/or property damage.

SAFETY APPLICATIONS

- 1. Mechanical Power Presses and other potentially hazardous machinery using a pneumatically controlled clutch and brake mechanism must use a press control double valve with a monitoring device. A double valve without a self-contained monitoring device should be used only in conjunction with a control system which assures monitoring of the valve. All double valve installations involving hazardous applications should incorporate a monitoring system which inhibits further operation of the valve and machine in the event of a failure within the valve mechanism.
- 2. Safe Exhaust (dump) valves without a self-contained monitoring device should be used only in conjunction with a control system which assures monitoring of the valve. All Safe Exhaust valve installations should incorporate a monitoring system which inhibits further operation of the valve and machine in the event of a failure within the valve mechanism.
- 3. Per specifications and regulations, the ROSS L-O-X® and L-O-X® with EEZ-ON®, NO6 and N16 Series operation products are defined as energy isolation devices. NOT AS EMERGENCY STOP DEVICES.

WARNINGS:

Failure to follow these instructions can result in personal injury and/or property damage.

STANDARD WARRANTY

All products sold by the ROSS Group are warranted for a one-year period [with the exception of Filters, Regulators and Lubricators ("FRLs") which are warranted for a period of seven (7) years] from the date of purchase. All products are, during their respective warranty periods, warranted to be free of defects in material and workmanship. The ROSS Group's obligation under this warranty is limited to repair, replacement or refund of the purchase price paid for products which the ROSS Group has determined, in its sole discretion, are defective. All warranties become void if a product has been subject to misuse, misapplication, improper maintenance, modification or tampering. Products for which warranty protection is sought must be returned to the ROSS Group freight prepaid.

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Americas	ROSS CONTROLS	USA	Tel: +1-248-764-1800	www.rosscontrols.com
	ROSS CONTROLS CANADA Ltd.	Canada	Tel: +1-416-251-7677	www.rosscanada.com
	ROSS DO BRASIL LTDA	Brazil	Tel: +55-11-4335-2200	www.rosscontrols.com.br
	ROSS EUROPA GmbH	Germany	Tel: +49 (0)6103-7597-100	www.rosseuropa.com
EUROPE	ROSS FRANCE SAS	France	Tel: +33-(0)1-49-45-65-65	www.rossfrance.com
	ROSS PNEUMATROL Ltd.	United Kingdom	Tel: +44 (0)1254 872277	www.rossuk.co.uk
	ROSS CONTROLS INDIA Pvt. Ltd.	India	Tel: +91-44-2624-9040	www.rosscontrolsindia.com
Asia & Pacific	ROSS CONTROLS (CHINA) Ltd.	China	Tel: +86-21-6915-7961	www.rosscontrolschina.com
	ROSS ASIA K.K.	Japan	Tel: +81-42-778-7251	www.rossasia.co.jp
	AUTOMATIC VALVE INDUSTRIAL LLC	USA	Tel: +1-248-474-6700	www.automaticvalve.com
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Other literature is available for engineering, maintenance, and service requirements.

If you need products or specifications not shown in this catalog, please visit ROSS' website, contact ROSS or your ROSS distributor. The ROSS Support Team will be happy to assist you in selecting the best product for your application.

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