

SAFE EXHAUST DOUBLE VALVES DM^{2®} Series C

PRODUCT CATALOG



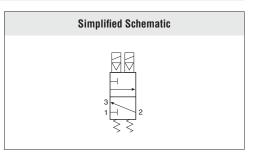


Safe Exhaust Control Reliable Double Valves DM^{2®} Series C Product Overview



Safe Exhaust Safety Function

The DM^{2®} Series C valve safety function is to shut off supply or pneumatic energy and to exhaust any pneumatic energy from downstream of the valve.



The DM^{2®} Series C Safe Exhaust valves are dual valves used to block the supply and remove the downstream pressure from the circuit or machine. It is integrated into the electrical safety system to remove potentially hazardous energy in order to provide employees safe access to a machine or zone. By quickly removing the pneumatic energy with a safety valve, determined by the risk assessment, the safety system integrity is maintained allowing the employee to complete their tasks and safely and rapidly.

	VALVE FEATURES
Redundant Control	Redundant control can achieve Category 4, PL e, when used with proper safety controls
Dynamic Monitoring	Monitoring, and air flow control functions are simply integrated into two identical valve elements
Dynamic Memory	Asynchronous movement of valve elements is detected by the dynamic monitoring and the valve latches in the safe condition, resulting in a residual outlet pressure of less than 1% of supply
Valve Reset	Can only be accomplished by the integrated electrical (solenoid) reset; the valve cannot be reset by removing and re-applying supply pressure
Poppet Design	Dirt tolerant, wear compensating for quick response and high flow capacity
PTFE Backup Piston Rings	Enhances valve endurance enabling operation with or without in-line lubrication
Status Indicator	Includes a pressure switch with both normally open (NO) and normally closed (NC) contacts to provide status feedback to the control system indicating whether the valve is in the lockout or ready-to-run condition
Silencer	High flow, clog resistant silencer included
Mounting	Base mounted for ease of valve replacement, captive valve-to-base mounting screws
Flexible Piping	Inlet and outlet ports on both sides (plugs for unused ports included)
Intermediate Pilots (Basic Size 12 and 30 valves only)	Increases pilot air flow for fast valve response, making it possible to use the same size solenoids as valve sizes 2, 4 & 8, thereby reducing electrical power requirements for these larger valves
SISTEMA Library	Available for download at rosscontrols.com
These valves are not d	esigned for controlling clutch/brake mechanisms on mechanical power presses,

These valves are not designed for controlling clutch/brake mechanisms on mechanical power presses see DM^{2®} Series D double valves for mechanical power press applications.

Specifications



		ST	ANDARD SPE	CIFICATIO	NS		
	Function		3/2 Normally Cl	osed Valve			
GENERAL C	Construction Design		Dual Poppet				
	Actuation		Electrical				
	Mounting	Туре					
	Mounting	Orientation	Vertically with p	ilot solenoids o	on top		
	Connection		Threaded; G, N	PT			
	Monitoring				Ily during each actuating and de-actuating movement ory and requires an overt act to reset unit after lockout		
	Minimum Operation Fre	quency	Once per month	, to ensure pro	pper function		
	T	Ambient	15° to 122°F (-	10° to 50°C)			
	Temperature	40° to 175°F (4	° to 80°C)				
OPERATING Conditions	Flow Media		Filtered, lubricat	ted or unlubric	ated (mineral oils according to DIN 51519, viscosity classes 32-46)		
CONDITIONO	On another Deserves		Valve	2	45 to 150 psig (3.1 to 10.3 bar)		
	Operating Pressure	Basic Size	4, 8, 12, 30	30 to 120 psig (2.1 to 8.3 bar)			
	Solenoids	According to VDE 0580. Enclosure rating according to DIN 400 50 IP 65 Three solenoids, rated for continuous duty					
	Operating Voltage		24 volts DC 110 volts AC, 50 Hz; 120 volts AC, 50/60 Hz 230 volts AC 50/60 Hz				
	Power Consumption (each solenoid)		Valve Basic Size	2, 4, 12, 30	24 V DC, 110/120 V AC, 230 V AC – 5.8 watts nominal, 6.5 watts maximum		
ELECTRICAL DATA ELECTRICAL		Primary Solenoids		8	24 V DC – 15 watts 110/120 V AC – 36 VA inrush and 24.6 VA holding 230 V AC – 32 VA inrush and 22 VA holding		
DATA		Reset Solenoids	All Valve B	24 V DC, 110/120 V AC, 230 V AC – 5.8 watts nominal, 6.5 watts maximum			
	Enclosure Rating		IP65, IEC 60529				
	Electrical Connection		DIN EN 175301-803 Form A, or M12				
	Mechanical Pressure S (Status Indicator) Ratin		NO/NC Contacts - 0.1 A, 125/250 volts AC; 0.1 A, 30 volts DC; 0.3 A, 60 volts DC				
	Solid State Pressure Se (Status Indicator) Ratin		Supply Voltage - 8-30 volts DC Current Consumption <4mA				
0011070-0010	Valve Body		Cast Aluminum				
CONSTRUCTION MATERIAL	Poppet		Acetal and Stain	less Steel			
	Seals		Buna-N				
		ists	Category	CAT 4, PL e			
	Functional October D. 1		B _{10D}	20,000,000			
SAFETY DATA	Functional Safety Data		PFH _D	7.71x10 ⁻⁹			
	contre		MTTFD	301.9 (n _{op} : 6	62400)		
	Vibration/Impact Resist	tance	Tested to DIN EN	N 60068-2-6			

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.

		PRODUC	T CREDENTIALS			
Safety Category	DGUV (German Social Accident Insurance)	CE Conformity Declaration	EAC Conformity Declaration	ISO Standard	CSA Certificate of Compliance	CRN Certification
Cat. 4 PL e	HSM 6608 Sibbernet sayrin Sibbernet sayrin	CE	EAC	ISO 13849-1:2015		Available for appropriately tested valves

Ordering Information

3-Way 2-Position Valves MODEL NUMBER CONFIGURATOR DM2C D 2 1 **B21** A Series Thread Other Options' **Reset Type** Connector Description G D Solenoid NPT Ν Solenoids Connector not included DIN EN 175301-803 Solenoid Reset **Port Size** Basic Form A Leave Mechanical Pressure Size **DIN EN Connector included** Outlet Exhaust Blank Inlet Switch** 3/4 1/4 1/4 B20 M12 Solid State Pressure 2 M12 Built-in Connector included 3/8 3/8 3/4 B21 (24 V DC only) Sensor* 4 1/2 1/2 1 B42 Solenoids 3/4 3/4 1 A54 Solenoid Reset Adapter DIN EN to M12 8 1 1 1 A55 Connector included M12 Mechanical Pressure 005 (24 V DC only) 12 1-1/2 A66 Switch* 1 1 30 1-1/2 2 2-1/2 A88 Solid State Pressure M12 Built-in Connector included Sensor* Voltage* See options for connectors or wiring kits. *If the specific status indicator option is selected. 24 volts DC А 110 volts AC. 50 Hz: В 120 volts AC, 50/60 Hz **Status Indicator** C** 230 volts AC, 50/60 Hz Mechanical Pressure Switch, DIN EN 175301-803 Form A 1 * For other voltages consult ROSS. 2 Solid State Pressure Sensor, M12 * 230 V AC not available in the U.S. (OSHA regulations limit None Х control voltage to no more than 120 volts AC). Port Size Flow Cv Weight# **Basic Size** lb (Kg) 2 1 3 1-2 2-3 1/4 1/4 3/4 1.7 2.6 2 5.3 (2.4) 3/8 2.2 3/8 3/4 3.6 4 1/2 1/2 1 3.0 6.5 5.9 (2.6)

4.2

4.3

8.7

20

30 1-1/2 # Valve and base assembly with status indicator.

8

12

FluTec

3/4

1

1

Safety Solutions Options

Safe Air Entry System Assemblies with DM^{2®} Series C Double Valves

Air Entry System Assemblies with manual Lockout L-O-X® valve, air preparation FRL combinations, and Safe Exhaust Double Valves are available.

FLU-TECH CO.,LTD

3/4

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1

2

1

1

1-1/2

2 - 1/2

For information please visit www.rosscontrols.com.



8.4 (3.7)

15.3 (3.7)

34.7 (15.1)

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9.4

9.4

17

55

Valve De-actuated (ready-to-run)

The flow of inlet air pressure into the crossover passages is restricted by the size of the passage between the stem and the valve body opening. Flow is sufficient to quickly pressurize pilot supply/timing chambers A and B. The inlet poppets prevent air flow from crossover passages into the outlet chamber. Air pressure acting on the inlet poppets and return pistons securely hold the valve elements in the closed position. (Air passages shown out of position and reset adapter omitted for clarity.)

Valve Actuated

Energizing the pilot valves simultaneously applies pressure to both pistons, forcing the internal parts to move to their actuated (open) position, where inlet air flow to crossover passages is fully open, inlet poppets are fully open and exhaust poppets are fully closed. The outlet is then quickly pressurized, and pressure in the inlet, crossovers, outlet, and timing chambers are quickly equalized. De-energizing the pilots quickly causes the valve elements to return to the ready-to-run position.

Valve Locked-out

Whenever the valve elements operate in a sufficiently asynchronous manner, either on actuation or de-actuation, the valve will move to a locked-out position. In the locked-out position, one crossover and its related timing chamber will be exhausted, and the other crossover and its related timing chamber will be fully pressurized.

The valve element (side B) that is partially actuated has pilot air available to fully actuate it, but no air pressure on the return piston to fully de-actuate the valve element. Air pressure in the crossover acts on the differential of side B stem diameters creating a latching force. Side A is in a fully closed position, and has no pilot air available to actuate, but has full pressure on the inlet poppet and return piston to hold the element in the fully closed position. Inlet air flow on side A into its crossover is restricted, and flows through the open inlet poppet on side B, through the outlet into the exhaust port, and from the exhaust port to atmosphere. Residual pressure in the outlet is less than 1% of inlet pressure. The return springs are limited in travel, and can only return the valve elements to the intermediate (locked-out) position. Sufficient air pressure acting on the return pistons is needed to return the valve elements to a fully closed position.

Resetting the Valve

The valve will remain in the locked-out position, even if the inlet air supply is removed and re-applied.

A remote reset signal must be applied to reset the valve. Reset is accomplished by momentarily pressurizing the reset port. Actuation of the reset piston physically pushes the main valve elements to their closed position. Inlet air fully pressurizes the crossovers and holds the inlet poppets on seat. Actuation of the reset piston opens the reset poppet, thereby, immediately exhausting pilot supply air, thus, preventing valve operation during reset (Reset adapter added to illustration.). De-actuation of reset pistons causes the reset poppets to close and pilot supply to fully pressurize. Reset pressure can be applied by a remote 3/2 normally closed valve, or from an optional 3/2 normally closed solenoid mounted on the reset adapter. De-actuation of reset pistons causes the reset poppets to close and pilot supply to fully pressurize. Reset are pappled by a remote 3/2 normally closed valve, or from an optional 3/2 normally closed solenoid, or a manual push button mounted on the reset adapter.

Status Indicator

The status indicator pressure switch will actuate when the main valve is operating normally, and will de-actuate when the main valve is in the locked-out position or inlet pressure is removed. This device is not part of the valve lockout function, but, rather, only reports the status of the main valve.

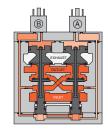


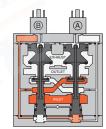
Status Indicator in normal ready-to-run position

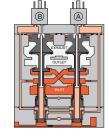
Basic Size 12 and 30 valves require relatively large pilots to actuate and de-actuate the main valve elements. In order to achieve extremely quick valve response for such large pilots, a 2-stage solenoid pilot system is incorporated into the design. This keeps the required electrical current to operate the pilots to a minimum.

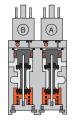
Valve Basic Size 12 & 30 Pilots



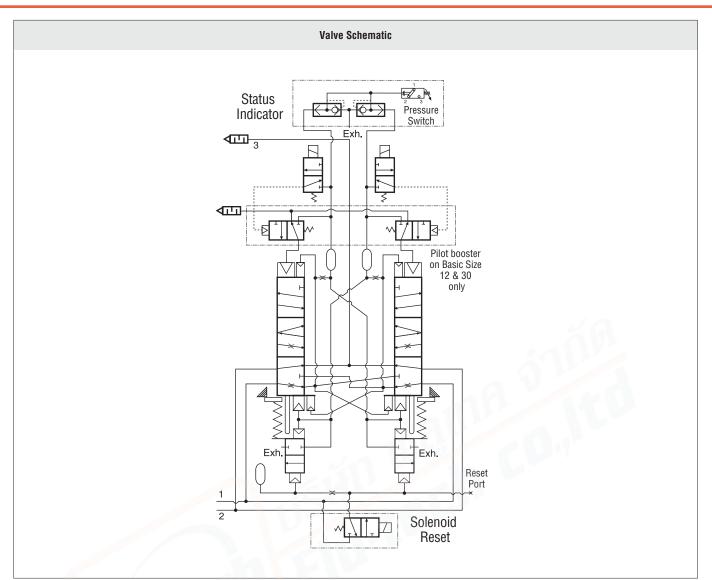


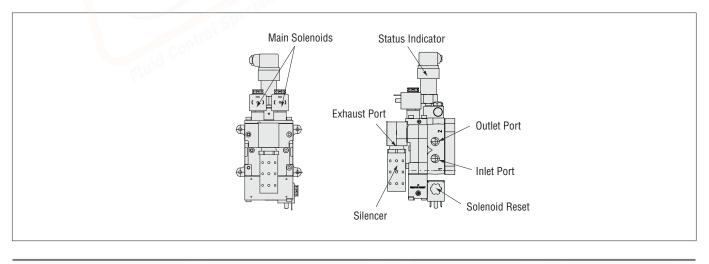






Valve Technical Data



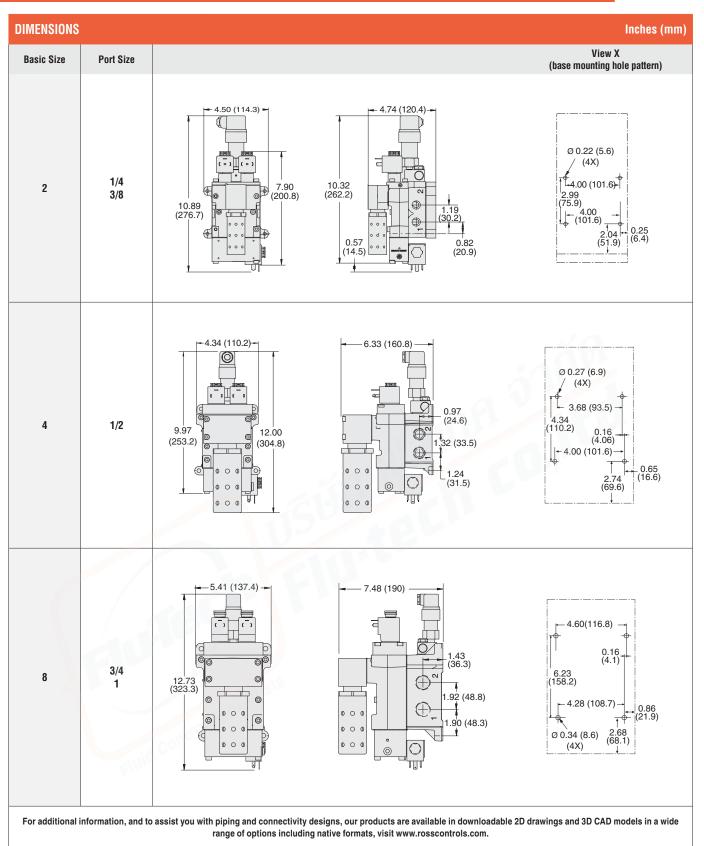


Valve Technical Data

Flu-Tech

FLU-TECH CO.,LTD





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Valve Technical Data

Flu-Tec

MENSIONS	D. (C)		Inches (m View X
Basic Size	Port Size		(base mounting hole pattern)
12	1		9.42 (239.3) 1.67 (42.4) 7.47 (189.7) 0.57 (14.5) (40.4) 1.61 (40.4)
30	2	9.85 (250.2) 9.85 (250.2) 16.87 (428.5) 0 0 0 0 0 0	11.82 (300.3) + 1.95 (49.5) + 0.50 (12.7)

range of options including native formats, visit www.rosscontrols.com.

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Accessories & Options



		PRE	SSURE S	STATUS INDICATION			
Dressure Curitakas	Indicator 1	уре		Connector Type	Model Number	Port Thread	Factory Preset psi (bar)
Pressure Switches for Status Indicator	Mechanical Press	ura Switch	DIN EN	175301-803 Form A	1104A30	- M10x1	22 (1.5) falling
	Weenamear Fress			M12	1153A30	WITOXT	22 (1.5) failing
	Solid State Press	ure Sensor		M12	1335B30W	M10x1	17 (1.2) falling
	Indicator 1	уре		Connector Type	Model Numb	ier	Factory Preset psi (bar)
Status Indicator	Mechanical Press	ure Switch	DIN EN	175301-803 Form A	Y670B94		22 (1.5) falling
Assemblies	Solid State Press	ure Sensor		M12	Y766B94#	17 (1.2) falling	
	# Not compatible with manufactured before			red before 3/2021, e.g., D Y670B94.	M2CDA4***or DM2CN	IA4***. For Size	4 valves
		ENEF	RGY REL	EASE VERIFICATION	I		
Pressure Switches	Verification Type	Installation I	Location	Connector Type	Model Number	Factory Pre psi (bar)	
Pressure Switches	Electrical	Downstr	eam DIN EN 175301-803 Form A		586A86	5 (0.3) fall	ing 1/8 NPT
Redundant Pressure	Verification Type	Installation I	Location	Connector Type	Model Number	Factory Pre	
Switch Assembly	Electrical (Dual)	Downstream		DIN EN 175301-803 Form A	RC026-13	5 (0.3) fall	ing 3/8 NPT
			Co	nnectors Pinout	100	1-1-	
	Mechanical Pres	ssure Switch	1		Solid Stat	e Pressure Sen	sor
DIN EN 175301-80			M12			M12	



1 - Common 2 - Normally Closed 3 - Normally Open G - Ground



1 - Common	
2 - Normally Closed	
3 - Not Used	
4 - Normally Open	

Ρ ~~~ -0-t-0-PNP NO+NC 3

1

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2

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1, 2, 3, 4 - Pin PNP - Switched Positive NO - Normally Open NC - Normally Closed

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Accessories & Options

Flu-Tec

			ELEC	TRICAL	CON	NECTOR	S				
			Cabl	le	Ŋ	Length	Cable		Kit N	umber	
	Connection Type	Connector Type	Field	E-d O	Quantity	meters	Diameter	Without	Li	ghted Connect	or
Pre-wired			End 1	End 2	a	(feet)	mm	Light	24 V DC	120 V AC	230 V AC
Connector Kits	Solenoid	DIN EN 175301-803	Connector	Flying	4	5 (16.4)	6	2283H77	2532H77-W	2532H77-Z	2532H77-Y
	and	Form A	CONNECTOR	leads	4	10 (32.8)	6	2284H77	2533H77-W	2533H77-Z	2533H77-Y
	Status Indicator	M12	Connector	Flying	4	5 (16.4)	6	2288H77	-	-	-
	Indicator	5-pin, Female	Connector	leads	4	10 (32.8)	6	2289H77	-	-	-
		_	Cabl	le	ty	Length	Cable		Model	Number	
	Connection Type	Connector Type	Fuld	E-d O	Quantity	meters	Diameter	Without	Li	ghted Connect	or
Pre-wired			End 1 End 2 🗟 (feet)	mm	Light	24 V DC	120 V AC	230 V AC			
Connectors	Solenoid	DIN EN 175301-803	Connector	Flying	1	0 (C E)	6	721K77	720K77-W	720K77-Z	720K77-Y
	Soleliolu	Form A	Connector	leads	1	2 (6.5)	10	371K77	383K77-W	383K77-Z	383K77-Y
	Status	M12	Connector	Flying	1	5 (16.4)	6	2241H77	-	-	-
	Indicator	5-pin, Female		leads	1	10 (32.8)	6	2242H77	-	-	-
	Connection	Connector	ttina	tit	Cable		Model Number				
Connectors	Туре	Туре		ection	Ouantity	Diamete	er Withou	t Liaht	Light	ted Connector	
(no cable)								<u> </u>	24 V DC	120 V AC	230 V AC
	Solenoid	DIN EN 175301-80		le grip	1					936K87-Z	936K87-Y
		FOITITA	Form A 1/2" NPT of		1	-	723	(77 72	24K77-W	724K77-Z	724K77-Y
				Connecto	ors Pi	nout					
	Sole	noid						Status Ind	licator		
DIN EN 175301-8	803 Form A	M12	2		DIN	EN 175301-80	3 Form A			M12	
G 2 - B 2 - B 1 2 - G	G - Green/Yellow Ground)		- Blue - Black		$\begin{bmatrix} 3 \\ 4 \\ 3 \\ - 2 \end{bmatrix}$	2 - G 3 - B 4 - G	rey lack reen/Yellov	· .		1, 2, 3, 4 - Pin PNP - Switche NO - Normally NC - Normally	ed Positive Open

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Options



			JUNCTIO	N BOX (OPTIONS			
	Connec	J-Box tion Type	J-Box	Cab	le Connector Type	Length meters (feet)	Cable Quantity	Kit Number
Wiring Kits with J-Box	Control System	Solenoids / Status Indicator	Quantity	End 1	End 2		Quantity	
J-DUX	10-pin Mini	M12 (5-pin)	1	M12	DIN EN 175301 Form A	·803 1.0 (3.3)	4	2249H77
			1	M12	M12	1.0 (3.3)	4	2250H77
	Connection Type	3	Cable Conne			Length	Cable	Kit Number
		End 1	End 2	Ca	ble Conductors	3.7 (12)	Quantity	2253H77
10-Pin MINI Cables	J-Box to				18-gauge	6.1 (20)	1	2253H77
	Control System	10-pin Mini	Flying lea	ds	wire	9.1 (30)	1	2255H77
						15.2 (50)	1	2256H77
Outlet Port Pressure		Port Splitter		Cab	e Connector Type	Length	Cable	
Monitoring Wiring	Port Connectors	Number of Ports	Splitter Quantity	End 1	End 2	meters (feet)	Quantity	Kit Number
Kit	M12	3	1	M12	DIN EN 175301-8 Form A	03 1.0 (3.3)	1	2251H77
		Con	nectors Pin	out and V	/iring Diagram	162	7.1	
				J-Box Wi	ring			
$(V-) 2 \circ \\ 3 \circ \\ 4 \circ \\ 5 \circ \\ 6 \circ \\ 7 \circ \\ 8 \circ \\ 9 \circ \\ 10 \circ \\ (7 \circ \\ 8 \circ \\ 9 \circ \\ 10 \circ \\ (6 \circ \\ 9 \circ \\ (6 \circ \\ 9 \circ \\ (6 \circ \\ 9 \circ \\ (7 \circ \\ (6 \circ \\ (7 \circ \\ (7 \circ \\ (7 \circ \\ (7 \circ \\ (9 \circ \\ (7 \circ \\ ($			500		5 (46.9) ► 0 0 0 0 0 0 0 0 0 0 0 0 1.4 (35.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		90 (73.6) →	2.0 ▲ Ø 0.18 (4.5) ↓
	il		10-P	in MINI C	able			
PIN # 1 +24 V DC 2 Common V DC 3 - 4 Solenoid A 5 Solenoid B	Wire Colors Orange Blue White w/Bla Red w/Black Green w/Bla	6 7 ck 8 9	'Remote R 3 -	alve Fault		Wire Colors Orange w/Black Red Green/Yellow Black White	<	
		Outlet F	Port Pressur	e Monito	ring – Port Splitte	r	1	
+00.6- (10) 0.4 A, B (1) A, B (1)				30 20	$ \begin{array}{c} C & A \\ & 1 & 0 \\ & 2 & 0 \\ & 3 & 0 \\ & 3 & 0 \\ & 4 & 0 \\ & 5 & 0 \end{array} $		0 1 0 2 	A & B Female C Male

Options

NOISE REDUCTION SILENCERS

	Valve Basic Size	Kit Nu						
		R/Rp Thread	NPT Thread	The second s				
	2	2328H77	2323H77					
	4	2329H77	2324H77					
High Flow Noise Reduction	8	2329H77	2325H77					
	12	2330H77	2326H77	111				
Silencer Kits	30	2331H77	2327H77					
	* Kits include all plumbing required for installation.							
	Reduces the Exponentially Perceived Noise (EPNdB), Impact noise reduction in the 35–40 dB range. Recommended for air exhaust applications for pressures up to 125 psig (8.6 bar). Pressure Range – 125 psig (8.6 bar) maximum.							

Flow		Pressure Range			
50mm (E/3)	Width	Height (R/Rp)	Height (NPT)	Depth	psig (bar)
800 (378)	4.96 (126.1)	16.05 (407.7)	14.24 (361.7)	5.73 (145.5)	10
800 (378)	4.34 (110.2)	21.40 (543.6)	19.06 (484.1)	7.27 (184.7)	
800 (378)	5.41 (137.4)	23.52 (597.4)	21.18 (538.0)	8.41 (213.6)	0-125 (0-8.6)
2080 (982)	6.74 (117.2)	28.20 (716.3)	25.85 (656.6)	10.66 (270.8)	maximum
7200 (3398)	9.85 (250.2)	41.55 (1055.4)	41.55 (1055.4)	13.47 (342.1)	
	scfm (L/s) 800 (378) 800 (378) 800 (378) 2080 (982)	scfm (L/s) Width 800 (378) 4.96 (126.1) 800 (378) 4.34 (110.2) 800 (378) 5.41 (137.4) 2080 (982) 6.74 (117.2)	Flow scfm (L/s) inches Width Height (R/Rp) 800 (378) 4.96 (126.1) 16.05 (407.7) 800 (378) 4.34 (110.2) 21.40 (543.6) 800 (378) 5.41 (137.4) 23.52 (597.4) 2080 (982) 6.74 (117.2) 28.20 (716.3)	Scfm (L/s) Width Height (R/Rp) Height (NPT) 800 (378) 4.96 (126.1) 16.05 (407.7) 14.24 (361.7) 800 (378) 4.34 (110.2) 21.40 (543.6) 19.06 (484.1) 800 (378) 5.41 (137.4) 23.52 (597.4) 21.18 (538.0) 2080 (982) 6.74 (117.2) 28.20 (716.3) 25.85 (656.6)	Flow scfm (L/s) Width Height (R/Rp) Height (NPT) Depth 800 (378) 4.96 (126.1) 16.05 (407.7) 14.24 (361.7) 5.73 (145.5) 800 (378) 4.34 (110.2) 21.40 (543.6) 19.06 (484.1) 7.27 (184.7) 800 (378) 5.41 (137.4) 23.52 (597.4) 21.18 (538.0) 8.41 (213.6) 2080 (982) 6.74 (117.2) 28.20 (716.3) 25.85 (656.6) 10.66 (270.8)

Dimensions reflect valve with installed silencer.

Flu-Tec

บริษัท ฟลูเทค จำกัด 845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270 **FLU-TECH CO.,LTD** 845/3-4 Thepharak RD., T.Thepharak, A.Muang, Samutprakarn 10270 THAILAND

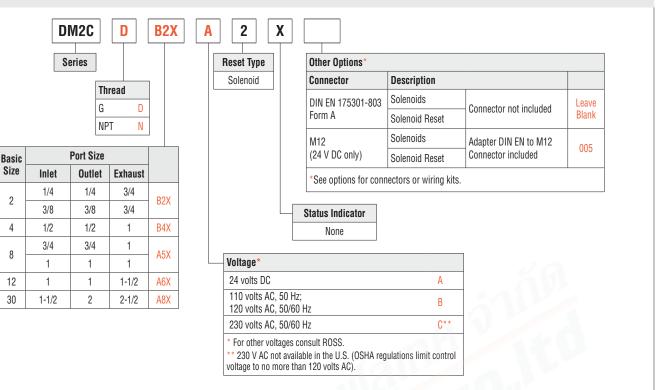
Tel. 0 2384 6060, Fax 0 2384 5701, Email : sales@flutech.co.th, www.flutech.co.th



3-Way 2-Position Valves

REPLACEMENT VALVES (VALVE ONLY NO BASE)

MODEL NUMBER CONFIGURATOR



REPLACEMENT SUB-BASES

Valve Basic	Valve Basic Po			Status Indicator	Sub-Base Mode	el Number	Weight
Size Inlet Outlet Exhaust			G Thread	NPT Thread	lb (kg)		
	1/4	1/4	0/4	No	YD1872C91	Y1872C91	1.7 (0.8)
0	1/4	1/4	3/4	Yes	YD1873C91	Y1873C91	2.1 (1.0)
2	2/0	2/0	3/4	No	YD1874C91	Y1874C91	1.7 (0.8)
	3/8	3/8	3/4	Yes	YD1875C91	Y1875C91	2.1 (1.0)
4	1/2	1/2	1	No	YD1697C91	Y1697C91	1.7 (0.8)
4	1/2			Yes	YD1698C91	Y1698C91	2.3 (1.1)
	0/4	0/4		No	YD1701C91	Y1701C91	3.6 (1.6)
	3/4	3/4		Yes	YD1702C91	Y1702C91	4.2 (1.9)
8		1	1.000	No	YD1703C91	Y1703C91	3.6 (1.6)
	ľ		Lal Spe	Yes	YD1704C91	Y1704C91	4.2 (1.9)
10		100	1 1/0	No	YD1705C91	Y1705C91	6.2 (2.8)
12	1	d	1-1/2	Yes	YD1706C91	Y1706C91	6.8 (3.1)
20	1 1/0	0	0.1/0	No	YD1709C91	Y1709C91	12.0 (5.4)
30	1-1/2	2	2-1/2	Yes	YD1710C91	Y1710C91	12.6 (5.7)



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