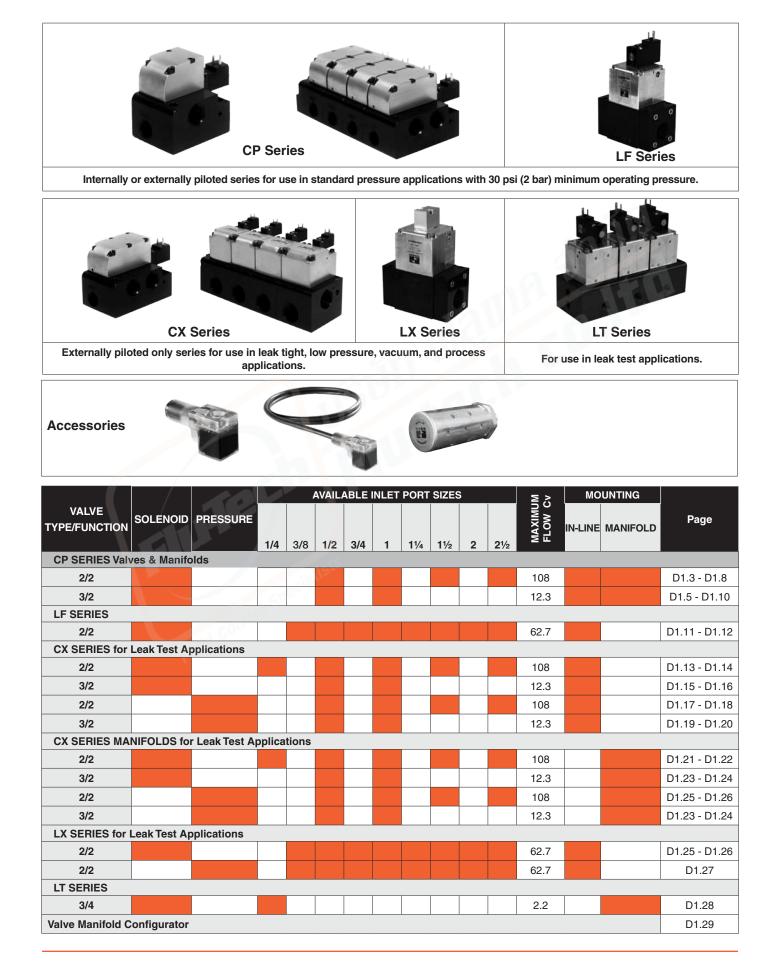


POPPET VALVES DALE SERIES

POPPET VALVES & MANIFOLDS LEAK TIGHT VALVES & MANIFOLDS

ROSS CONTROLS





Dale CP Series

2-Way 2-Position Valves, Spring Assisted Air Return								1 1		
п	ort		Internal Pi	lot Supply		Pilot Po	ort			-
-	ze	Normall		Normally Open		Thread		Avg.	Weight	
			lumber#		lumber#			C _v	lb (kg)	
1	2	NPT Threads	G Threads	NPT Threads	G Threads	NPT	G			
1/2	3/8	CP14NB37101W	CP14DB37101W	CP24NB37101W	CP24DB37101W	10-32 UNF	M5	3.5	1.4 (0.6)	Devel Oliver
1/2	1/2	CP14NB47101W	CP14DB47101W	CP24NB47101W	CP24DB47101W	10-32 UNF	M5	3.5	1.4 (0.6)	Port Sizes 3/8 & 1/2
1	3/4	CP16NB57101W	CP16DB57101W	CP26NB57101W	CP26DB57101W	1/8-27 NPT	G1/8	12.3	3.5 (1.6)	
1	1	CP16NB67101W	CP16DB67101W	CP26NB67101W	CP26DB67101W	1/8-27 NPT	G1/8	12.3	3.5 (1.6)	
1½	1¼	CP18NB77101W	CP18DB77101W	CP28NB77101W	CP28DB77101W	1/8-27 NPT	G1/8	44.9	10.0 (4.6)	
1½	1½	CP18NB87101W	CP18DB87101W	CP28NB87101W	CP28DB87101W	1/8-27 NPT	G1/8	44.9	10.0 (4.6)	
21⁄2	2	CP10NB97101W	CP10DB97101W	CP20NB97101W	CP20DB97101W	1/8-27 NPT	G1/8	108	19.5 (8.9)	
21⁄2	21⁄2	CP10NB07101W	CP10DB07101W	CP20NB07101W	CP20DB07101W	1/8-27 NPT	G1/8	108	19.5 (8.9)	
# V	oltage	e: W=24 VDC; Z=1	10-120 VAC, 50/60	Hz, e.g., CP14NB3	37101 <mark>Z</mark> .					
N	1/2 thru 2 ¹ / ₂ Normally Closed 1/2 & 1 Normally Open 1/2 & 1 No									

EXTERNAL PILOT SUPPLY CONVERSION:

The CP Series valves can be easily field converted to external pilot supply by simply removing existing pipe plug from port X-1, and installing air supply to the X-1 port.

Accessories

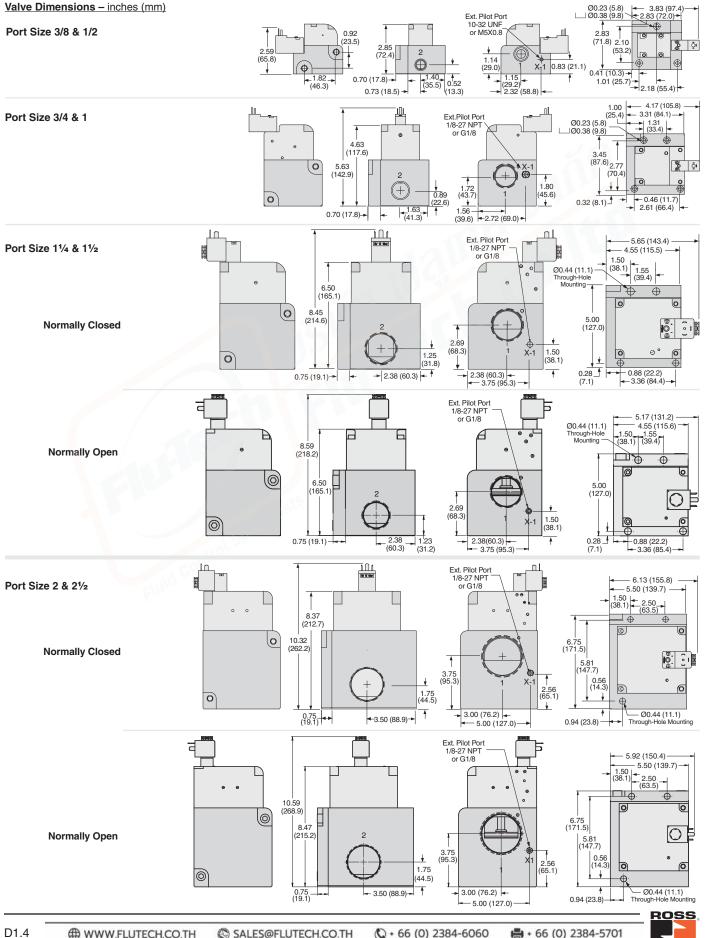
Electrical Connectors							
		- 10 Y	I	Electrical Conne	ctors Model Num	lber	
Valve Port Type Size		Electrical Connector Form	Lighted Cor	nnector Only	Lighted Connector Pre-wired*		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.20		24 Volts DC	120 Volts AC	24 Volts DC	120 Volts AC	
0/0	1/4 - 1	EN 175301-803 Form C	2453K77-W	2453K77-Z	2476K77-W	2476K77-Z	
2/2	11⁄2-21⁄2	EN 175301-803 Form A	936K87-W	936K87-Z	720K77-W	720K77-Z	
*Pre-wi	red connec	tors include a 2 meter (61/2	ft.) cord.				

STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Poppet	Flow Media	Filtered air
Mounting Type	In-line		For liquid applications, consult ROSS.
Solenoids	Rated for continuous duty	Pilot Supply	Internal or External
0010110103	Port Size 1/2 & 1:		30 to 145 psig (2 to 10 bar)
	24 volts DC; 1.5 watts on DC	Operating Pressure	Pilot Supply - Internal or External: 30 to 145 psig (2 to 10 bar)
Voltage/Power Consumption (each solenoid)	110 volts AC, 50 Hz: 5.4 VA 120 volts AC, 60 Hz: 5.0 VA		When external pilot supply, pressure must be equal to or greater than inlet pressure.
	Port Size 1½ & 2½: 24 volts DC; 110 volts AC, 50 Hz; 120 volts AC, 50/60 Hz 5.8 watts nominal on AC and DC, 6.5 watts maximum on AC and DC	Construction Material	Valve Body: Cast Aluminum Poppet: Acetal & Stainless Steel Seals: Buna-N
Enclosure Rating	IP65, IEC 60529		Normally Closed Valves:
Electrical Connection	EN 175301-803 Form A or Form C connector	Manual Override	All Sizes; Non-locking Normally Open Valves:
Tomporatura	Ambient: 40° to 120°F (4° to 50°C)		Port Size 1/2 & 1: Non-locking
Temperature	Media: 40° to 175°F (4° to 80°C)		Port Size 11/2 & 21/2: Locking, turn-to-lock



Dale CP Series

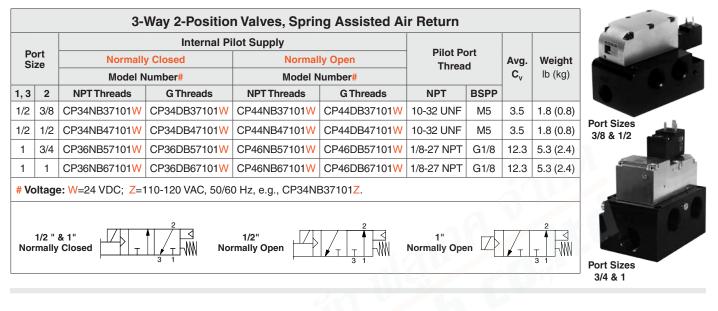


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+ 66 (0) 2384-5701

Dale CP Series



EXTERNAL PILOT SUPPLY CONVERSION:

The CP Series valves can be easily field converted to external pilot supply by simply removing existing pipe plug from port X-1, and installing air supply to the X-1 port.

Accessories

Electrical Connectors								
			Electrical Connectors Model Number					
Valve Type	Port Size	Electrical Connector Form	Lighted Cor	nnector Only	Lighted Connector Pre-wired*			
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			24 Volts DC	120 Volts AC	24 Volts DC	120 Volts AC		
3/2	1/2	EN 175301-803 Form C	2453K77-W	2453K77-Z	2476K77-W	2476K77-Z		
3/2	1	EN 175301-803 Form A	936K87-W	936K87-Z	720K77-W	720K77-Z		
*Pre-wi	*Pre-wired connectors include a 2 meter (61/2 ft.) cord.							

Silencers								
Port	Thread	Model Number		Avg. C _v	Dimensions inches (mm)		Weight	
Size	Туре	NPT Threads	R/Rp Threads	Avg. C _v	Width	Length	lb (kg)	
1/2	Male	5500A4003	D5500A4003	4.7	1.3 (32)	3.6 (91)	0.2 (0.1)	
1	Male	5500A6003	D5500A6003	14.6	2.0 (51)	5.4 (138)	0.6 (0.3)	
Procesure Panao: 0 to 200 psig (0 to 20 bar) maximum Elow Modia: Eiltorod air								

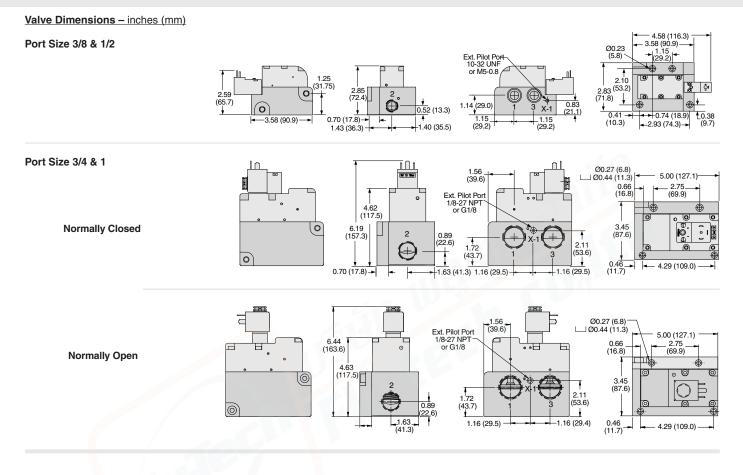
Pressure Range: 0 to 290 psig (0 to 20 bar) maximum. Flow Media: Filtered air.

STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Poppet	Flow Media	Filtered air
Mounting Type	In-line		For liquid applications, consult ROSS.
Solenoids	Rated for continuous duty		Internal or External
3016110105	Port Size 1/2:		30 to 145 psig (2 to 10 bar)
	24 volts DC; 1.5 watts on DC	Operating Pressure	Pilot Supply - Internal or External: 30 to 145 psig (2 to 10 bar)
Voltage/Power Consumption (each solenoid)	110 volts AC, 50 Hz: 5.4 VA; 120 volts AC, 60 Hz: 5.0 VA	operating recourt	When external pilot supply, pressure must be equal to or greater than inlet pressure.
	Port Size 1: 24 volts DC; 110 volts AC, 50 Hz; 120 volts AC, 50/60 Hz 5.8 watts nominal on AC and DC, 6.5 watts maximum on AC and DC	Construction Material	Valve Body: Cast Aluminum Poppet: Acetal & Stainless Steel Seals: Buna-N
Enclosure Rating	IP65, IEC 60529		Normally Closed Valves:
Electrical Connection	EN 175301-803 Form A or Form C connector	Manual Quantida	All Sizes; Non-locking
Tomporatura	Ambient: 40° to 120°F (4° to 50°C)	Manual Override	Normally Open Valves: Port Size 1/2: Non-locking
Temperature	Media: 40° to 175°F (4° to 80°C)		Port Size 1: Locking, turn-to-lock

ROSS,

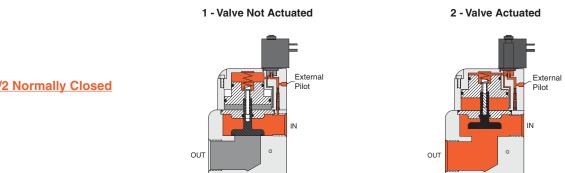
Dale CP Series



ROSS/FLEX® Looking for a different solution?

ROSS/FLEX® Customer defined application specific solutions that reduce cost, improve productivity and provide a perfect fit.

Valve Operation Overview





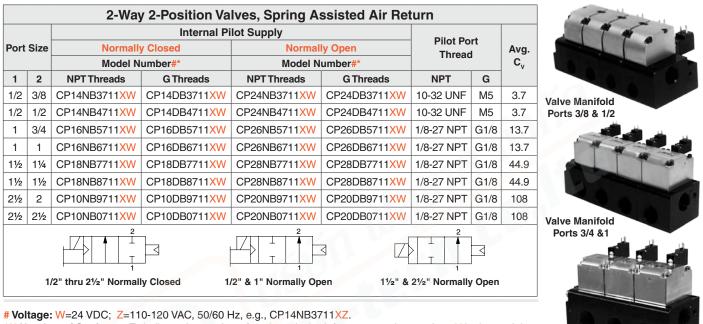


Dale CP Series

Valve Manifold

Ports 11/4 thru 21/2

Manifolds can be ordered from two to ten stations. Complete valves-on-manifold assemblies can be ordered to fit your precise requirements. For preassembled manifold valves with the same model number, select the model number from the table below. For ordering the Dale CP Series manifold valves with different valve functions, please see page B1.24 for manifold configurator.



*X Number of Stations – To indicate the number of stations desired, for 2 to 9 stations,replace X in the model number with the specific number of stations, for 10 stations replace X with 0, e.g., CP14NB37114W (4 = 4 Stations), CP14NB37110W, (0 = 10 Stations). Contact ROSS for 1 station valve manifolds or refer to single CX Valve product page.

EXTERNAL PILOT SUPPLY CONVERSION:

The CP Series valves can be easily field converted to external pilot supply by simply removing existing pipe plug from port X-1, and installing air supply to the X-1 port.

ACCESSORIES - Electrical Connectors								
Mahar	Devit	Electrical Occurrentes	Electrical Connectors Model Number					
Valve Type	Port Size		Lighted Cor	nnector Only	Lighted Connector Pre-wired*			
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.20		24 Volts DC	120 Volts AC	24 Volts DC	120 Volts AC		
2/2	1/4 - 1	EN 175301-803 Form C	2453K77-W	2453K77-Z	2476K77-W	2476K77-Z		
2/2	1½-2½	EN 175301-803 Form A	936K87-W	936K87-Z	720K77-W	720K77-Z		
* .			(())					

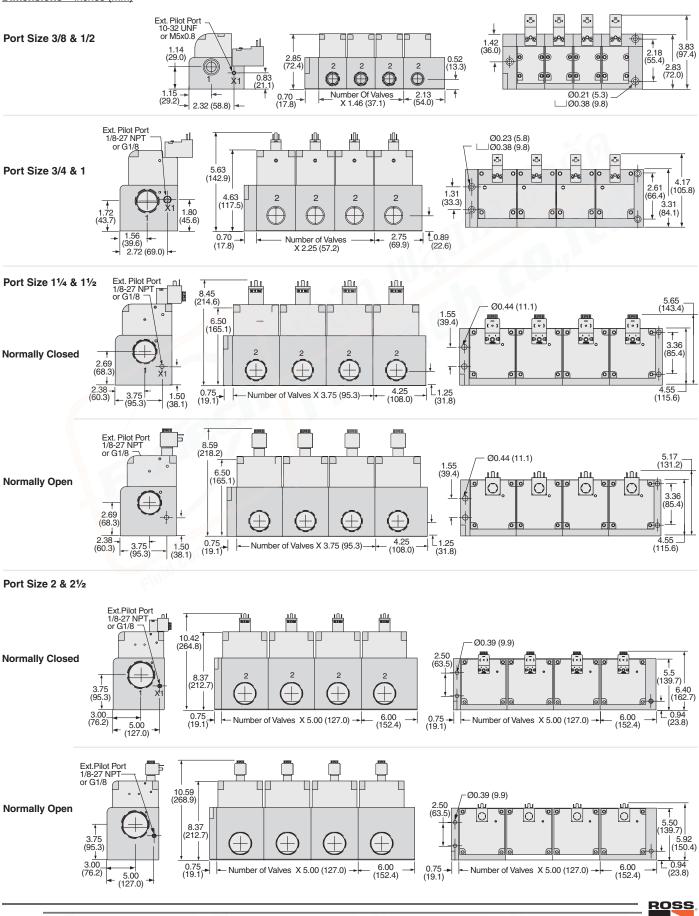
*Pre-wired connectors include a 2 meter (61/2 ft.) cord.

STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Poppet	Flow Media	Filtered air
Mounting Type	In-line		For liquid applications, consult ROSS.
Solenoids	Rated for continuous duty	Pilot Supply	Internal or External
5016110105	Port Size 1/2 & 1:		30 to 145 psig (2 to 10 bar)
	24 volts DC; 1.5 watts on DC	Operating Pressure	Pilot Supply - Internal or External: 30 to 145 psig (2 to 10 bar)
Voltage/Power Consumption	110 volts AC, 50 Hz: 5.4 VA 120 volts AC. 60 Hz: 5.0 VA		When external pilot supply, pressure must be equal to or greater
(each solenoid)	Port Size 1½ & 2½:		than inlet pressure. Valve Body: Cast Aluminum
	24 volts DC; 110 volts AC, 50 Hz; 120 volts AC, 50/60 Hz	Construction Material	Poppet: Acetal & Stainless Steel
	5.8 watts nominal on AC and DC, 6.5 watts maximum on AC and DC		Seals: Buna-N
Enclosure Rating	IP65, IEC 60529		Normally Closed Valves:
Electrical Connection	EN 175301-803 Form A or Form C connector	Manual Override	All Sizes; Non-locking Normally Open Valves:
Temperature	Ambient: 40° to 120°F (4° to 50°C)		Port Size 1/2 & 1: Non-locking
Temperature	Media: 40° to 175°F (4° to 80°C)		Port Size 11/2 & 21/2: Locking, turn-to-lock



Dimensions - inches (mm)



Dale CP Series

Manifolds can be ordered from two to ten stations. Complete valves-on-manifold assemblies can be ordered to fit your precise requirements. For preassembled manifold valves with the same model number, select the model number from the table below.

For ordering the Dale CP Series manifold valves with different valve functions, please see page B1.24 for manifold configurator.

		3-Way	y 2-Position Va	alves, Spring A	Assisted Air R	eturn			-
			Internal Pi	lot Supply		Pilot Po			
Port	Size	Normally	y Closed	Normal	ly Open	Threa		Avg.	
		Model N	umber#*	Model Number#*		meau		Cv	
1, 3	2	NPT Threads	GThreads	NPT Threads	G Threads	NPT	G		
1/2	3/8	CP34NB3711XW	CP34DB3711XW	CP44NB3711XW	CP44DB3711XW	10-32 UNF	M5	3.6	10
1/2	1/2	CP34NB4711XW	CP34DB4711XW	CP44NB4711XW	CP44DB4711XW	10-32 UNF	M5	3.6	Valve Mani
1	3/4	CP36NB5711XW	CP36DB5711XW	CP46NB5711XW	CP46DB5711XW	1/8-27 NPT	G1/8	12.3	Ports 3/8 8
1	1	CP36NB6711XW	CP36DB6711XW	CP46NB6711XW	CP46DB6711XW	1/8-27 NPT	G1/8	12.3	
*X N num Stat	Numb nber v tions)	per of Stations – T with the specific nur , CP14NB37110W,	mber of stations, for (0 = 10 Stations).	ber of stations desi r 10 stations replac	B3711XZ. red, for 2 to 9 static e X with 0, e.g., CF Valve product pag	14NB37114			
									Valve Man Ports 3/4
		1/2" & 1" Norm	ally Closed	1/2" Normally Ope	en 1" Nor	mally Open			

EXTERNAL PILOT SUPPLY CONVERSION:

The CP Series valves can be easily field converted to external pilot supply by simply removing existing pipe plug from port X-1, and installing air supply to the X-1 port.

ACCESSORIES

Elect	Electrical Connectors							
Value	Deut	Electrical Oceanottes	Electrical Connectors Model Number					
Valve Port Type Size		Electrical Connector Form	Lighted Cor	nnector Only	Lighted Connector Pre-wired*			
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0		24 Volts DC	120 Volts AC	24 Volts DC	120 Volts AC		
3/2	1/2	EN 175301-803 Form C	2453K77-W	2453K77-Z	2476K77-W	2476K77-Z		
3/2	1	EN 175301-803 Form A	936K87-W	936K87-Z	720K77-W	720K77-Z		
*Pre-wi	red conr	ectors include a 2 meter (6	51/2 ft.) cord.					

Silencers

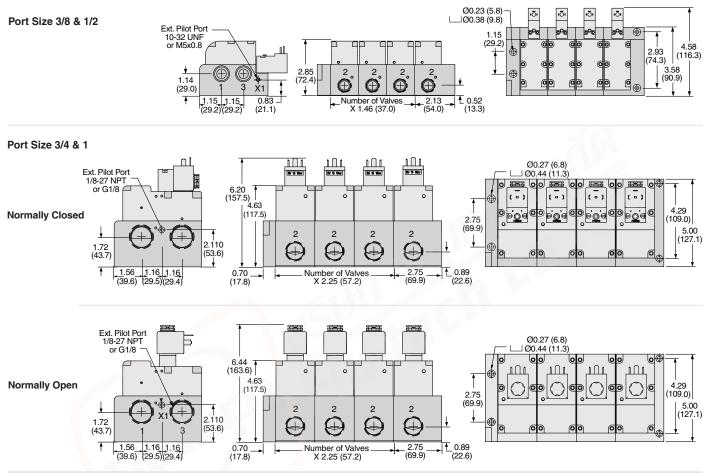
Port	Thread	d Model Number		Ava C	Dimension	Weight	
Size Type		NPT Threads	G Threads	Avg. C _v	Width	Length	lb (kg)
1/2	Male	5500A4003	D5500A4003	4.7	1.3 (32)	3.6 (91)	0.2 (0.1)
1	Male	5500A6003	D5500A6003	14.6	2.0 (51)	5.4 (138)	0.6 (0.3)
Pressure Range: 0 to 290 psig (0 to 20 bar) maximum. Flow Media: Filtered air.							

STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Poppet	Flow Media	Filtered air
Mounting Type	In-line		For liquid applications, consult ROSS.
Solenoids	Rated for continuous duty	Pilot Supply	Internal or External
0010110103	Port Size 1/2:		30 to 145 psig (2 to 10 bar)
	24 volts DC; 1.5 watts on DC	Operating Pressure	Pilot Supply - Internal or External: 30 to 145 psig (2 to 10 bar)
Voltage/Power Consumption (each solenoid)	110 volts AC, 50 Hz: 5.4 VA; 120 volts AC, 60 Hz: 5.0 VA		When external pilot supply, pressure must be equal to or greater than inlet pressure.
	Port Size 1: 24 volts DC; 110 volts AC, 50 Hz; 120 volts AC, 50/60 Hz 5.8 watts nominal on AC and DC, 6.5 watts maximum on AC and DC	Construction Material	Valve Body: Cast Aluminum Poppet: Acetal & Stainless Steel Seals: Buna-N
Enclosure Rating	IP65, IEC 60529		Normally Closed Valves:
Electrical Connection	EN 175301-803 Form A or Form C connector	Manual Quantida	All Sizes; Non-locking
Tomporatura	Ambient: 40° to 120°F (4° to 50°C)	Manual Override	Normally Open Valves: Port Size 1/2: Non-locking
Temperature	Media: 40° to 175°F (4° to 80°C)		Port Size 1: Locking, turn-to-lock



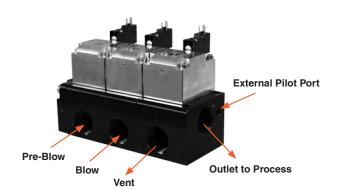
Dimensions - inches (mm)



ROSS/FLEX® Looking for a different solution?

ROSS/FLEX[®] Customer defined application specific solutions that reduce cost, improve productivity and provide a perfect fit.

Blow Molding Application Example



The CP & CX compact flexible manifold design eliminates piping, reduces system volume, provides fast consistent actuation and delivers an amazing flow rate up to 100 Cv.

Dale LF Series

			2-Way 2-Position Valves, Spring Assisted Ai							and the second s				
Port Size				Normally Open Model Number#		Pilot Port Thread		Avg. C _v	Weight Ib (kg)	A COLORED				
1	2	NPT Threads	G Threads	NPT Threads	G Threads	NPT G		NPT G		NPT G		v		
3/8	3/8	LF13NB37101W	LF13DB37101W	LF23NB37101W	LF23DB37101W	1/8-27 NPT	G1/8	3.6	1.5 (0.7)					
1/2	1/2	LF14NB47101W	LF14DB47101W	LF24NB47101W	LF24DB47101W	1/8-27 NPT	G1/8	3.6	1.5 (0.7)					
3/4	3/4	LF15NB57101W	LF15DB57101W	LF25NB57101W	LF25DB57101W	1/8-27 NPT	G1/8	12.2	3.5 (1.6)	Ports 3/8 th				
1	1	LF16NB67101W	LF16DB67101W	LF26NB67101W	LF26DB67101W	1/8-27 NPT	G1/8	12.2	3.5 (1.6)					
1¼	1¼	LF17NB77101W	LF17DB77101W	LF27NB77101W	LF27DB77101W	1/8-27 NPT	G1/8	36.1	9.3 (4.2)	a !				
1½	1½	LF18NB87101W	LF18DB87101W	LF28NB87101W	LF28DB87101W	1/8-27 NPT	G1/8	36.1	9.3 (4.2)	inb				
2	2	LF19NB97101W	LF19DB97101W	LF29NB97101W	LF29DB97101W	1/8-27 NPT	G1/8	62.7	19.3 (8.8)	B				
21⁄2	21⁄2	LF10NB07101W	LF10DB07101W	LF20NB07101W	LF20DB07101W	1/8-27 NPT	G1/8	62.7	19.3 (8.8)					
# Vo	oltage	e: W=24 VDC; Z= ⁻	10-120 VAC, 50/6	0 Hz, e.g., LF13NE	37101 <mark>Z</mark> .			6						
							2							
		Normally C	losed	3/8" thru 1" Normal	ly Open	1¼" thru 2½"	Normal	ly Oper	n l	Ports 1 ¹ / ₄ thru				

The LF Series provides superior performance over a diaphragm valve with a rugged poppet design, bi-directional flow and high cycle life.



The LF & LX Series provides superior performance over a ball valve with solenoid actuation, shifting speed, cycle life, and most important, a cost effective alternative.

Diaphragm II Valve Pe

Improved Performance



Ball Valve

EXTERNAL PILOT SUPPLY CONVERSION:

The LF Series valves can be easily field converted to external pilot supply by simply removing existing pipe plug from port X-1, and installing air supply to the X-1 port.

Acc	ACCESSORIES – Electrical Connectors							
Valve	Devit	Electrical Composter	E	lectrical Connectors Model Number				
Type	Port Size	Electrical Connector Form	Lighted Cor	nnector Only	Lighted Connector Pre-wired*			
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.20		24 Volts DC	120 Volts AC	24 Volts DC	120 Volts AC		
2/2	3/8 - 1	EN 175301-803 Form C	2453K77-W	2453K77-Z	2476K77-W	2476K77-Z		
2/2	1 ¼-2½	EN 175301-803 Form A	936K87-W	936K87-Z	720K77-W	720K77-Z		
*Pre-wi	*Pre-wired connectors include a 2 meter (6½ ft.) cord.							

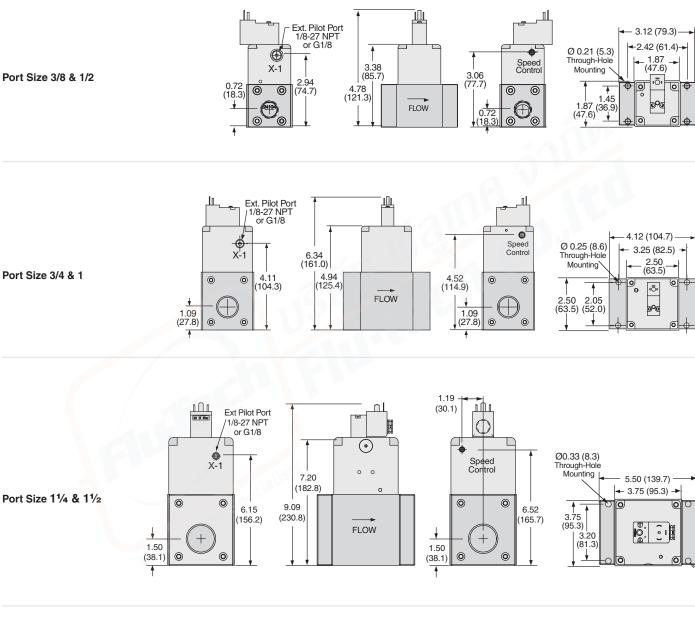
STANDARD SPECIFICATIONS (for valves on this page):

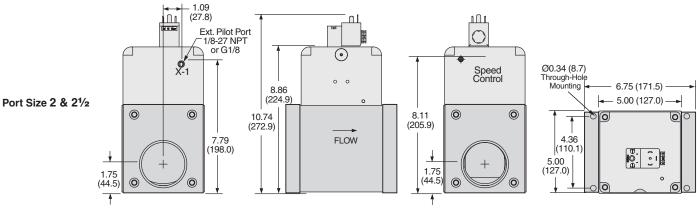
Construction Design	Poppet	Flow Media	Filtered air
Mounting Type	In-line		For liquid applications, consult ROSS.
0 51	Rated for continuous duty	Pilot Supply	Internal or External
	Port Size 3/8 thru 1:		30 to 145 psig (2 to 10 bar)
	24 volts DC; 1.5 watts on DC	Operating Pressure	Pilot Supply - Internal or External: 30 to 145 psig (2 to 10 bar)
Voltage/Power Consumption	110 volts AC, 50 Hz: 5.4 VA 120 volts AC. 60 Hz: 5.0 VA	oporaning r roooaro	When external pilot supply, pressure must be equal to or greater
(each solenoid)	Port Size 1½ thru 2½:		than inlet pressure.
			Valve Body: Cast Aluminum
		Construction Material	Poppet: Acetal & Stainless Steel
	5.8 watts nominal on AC and DC, 6.5 watts maximum on AC and DC		Seals: Buna-N
Enclosure Rating	IP65, IEC 60529		Normally Closed Valves:
Electrical Connection	EN 175301-803 Form A or Form C connector	Manual Override	All Sizes; Non-locking Normally Open Valves:
Tomporature	Ambient: 40° to 120°F (4° to 50°C)	Inalial Over lue	Port Size 1/2 & 1: Non-locking
Temperature	Media: 40° to 175°F (4° to 80°C)		Port Size 11/2 & 21/2: Locking, turn-to-lock

ROSS

Dale LF Series

Valve Dimensions - inches (mm)







Leak Tight Dale CX Series

			2-Way 2	2-Position Valv	ves, Air Returr	า			
			External P	ilot Supply					
Port Size		Normally	y Closed	Normal	Pilot Port Thread		Avg.	Weight	
		Model Number#		Model Number#		linead		Cv	lb (kg)
1	2	NPT Threads G Threads NPT Threads G Threads		NPT	G				
1/4	1/4	CX12NB27501W	CX12DB27501W	CX22NB27501W	CX22DB27501W	10-32 UNF	M5	0.9	1.3 (0.6)
1/2	3/8	CX14NB37501W	CX14DB37501W	CX24NB37501W	CX24DB37501W	10-32 UNF	M5	3.5	1.4 (0.6)
1/2	1/2	CX14NB47501W	CX14DB47501W	CX24NB47501W	CX24DB47501W	10-32 UNF	M5	3.5	1.4 (0.6)
1	3/4	CX16NB57501W	CX16DB57501W	CX26NB57501W	CX26DB57501W	1/8-27 NPT	G1/8	12.3	3.5 (1.6)
1	1	CX16NB67501W	CX16DB67501W	CX26NB67501W	CX26DB67501W	1/8-27 NPT	G1/8	12.3	3.5 (1.6)
1½	1¼	CX18NB77501W	CX18DB77501W	CX28NB77501W	CX28DB77501W	1/8-27 NPT	G1/8	44.9	10.0 (4.6)
1½	1½	CX18NB87501W	CX18DB87501W	CX28NB87501W	CX28DB87501W	1/8-27 NPT	G1/8	44.9	10.0 (4.6)
21⁄2	2	CX10NB97501W	CX10DB97501W	CX20NB97501W	CX20DB97501W	1/8-27 NPT	G1/8	108	19.5 (8.9)
21⁄2	21⁄2	CX10NB07501W	CX10DB07501W	CX20NB07501W	CX20DB07501W	1/8-27 NPT	G1/8	108	19.5 (8.9)
# Vo	ltage:	W=24 VDC; Z=11	0-120 VAC, 50/60	Hz, e.g., CX12NB	27501 <mark>Z</mark> .				
		1/4" thru 21⁄2" Nor	mally Closed	1/4" thru 1" Norn	nally Open	1½" & 2½"	Vormally	Open	

Note: The CX Series valves on this page require an external pilot supply.

	2	K	6
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Port Sizes 3/8 & 1/2



Port Sizes I/4, 3/4 thru 21/2

ACCESSORIES – Electrical Connectors

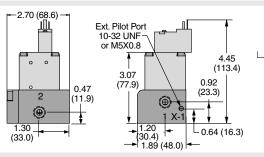
Value	Dert	Electrical Compostor	I	Electrical Conne	ctors Model Num	ber	
Valve Type	Port Size	Electrical Connector Form	Lighted Cor	nnector Only	Lighted Connector Pre-wired*		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00		24 Volts DC	120 Volts AC	24 Volts DC	120 Volts AC	
0/0	1/4 - 1	EN 175301-803 Form C	2453K77-W	2453K77-Z	2476K77-W	2476K77-Z	
2/2	11/2-21/2	EN 175301-803 Form A	936K87- <mark>W</mark>	936K87-Z	720K77-W	720K77-Z	

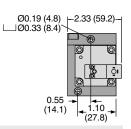
*Pre-wired connectors include a 2 meter (61/2 ft.) cord.

Valve Dimensions - inches (mm)

Port Size 1/4

See page D1.14 for all size valves dimensions on this page.





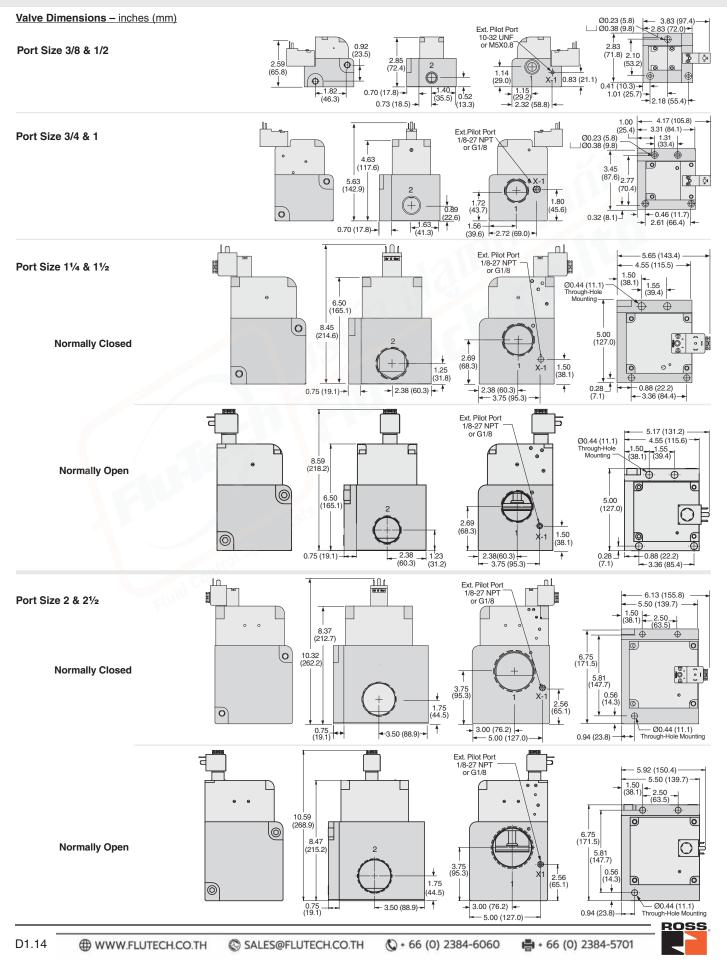
STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Poppet	Pilot Supply	External	
Mounting Type	In-line		Port Size 1/4: Vacuum to 250 psig (vacuum to 17.2 bar)	
Solenoids Voltage/Power Consumption (each solenoid)	Rated for continuous duty Port Size 1/4 thru 1: 24 volts DC; 1.5 watts on DC 110 volts AC, 50 Hz: 5.4 VA 120 volts AC, 60 Hz: 5.0 VA Port Size 1½ thru 2½: 24 volts DC; 110 volts AC, 50 Hz: 120 volts AC, 50/60 Hz	Operating Pressure	Port Size 1½ thru 2½: Vacuum to 145 psig (vacuum to 10 bar Pilot Supply - External: Port Size 1/4: 70 to 145 psig (5 to 10 bar) Port Size 1½ thru 2½: 30 to 145 psig (2 to 10 bar) Pilot supply pressure must be equal to or greater than inleg pressure. Valve Body: Cast Aluminum	
Enclosure Rating	5.8 watts nominal on AC and DC, 6.5 watts maximum on AC and DC IP65, IEC 60529	Construction Material	Poppet: Acetal & Stainless Steel Seals: Buna-N Normally Closed Valves:	
Electrical Connection	EN 175301-803 Form A or Form C connector		All Sizes; Non-locking	
Temperature	Ambient: 40° to 120°F (4° to 50°C) Media: 40° to 175°F (4° to 80°C)	Manual Override	Normally Open Valves: Port Size 1/2 &1: Non-locking Port Size 1½ & 2½: Locking, turn-to-lock	
Flow Media	Filtered air For liquid applications, consult ROSS.			

ROSS



Leak Tight Dale CX Series



			External P	ilot Supply					
Port	Size	Normally	y Closed	Normally Open Model Number#*		Pilot Port Thread		Avg. C _v	Weight
		Model N	umber#*						lb (kg)
1, 3	2	NPT Threads	G Threads	NPT Threads	G Threads	NPT G			
1/2	3/8	CX34NB37501W	CX34DB37501W	CX44NB37501W	CX44DB37501W	10-32 UNF	M5	3.5	1.8 (0.8)
1/2	1/2	CX34NB47501W	CX34DB47501W	CX44NB47501W	CX44DB47501W	10-32 UNF	M5	3.5	1.8 (0.8)
1	3/4	CX36NC57501W	CX36DC57501W	CX46NC57501W	CX46DC57501W	1/8-27 NPT	G1/8	12.3	5.3 (2.4)
1	1	CX36NC67501W	CX36DC67501W	CX46NC67501W	CX46DC67501W	1/8-27 NPT	G1/8	12.3	5.3 (2.4)
ŧ Ve	oltage	e: W=24 VDC; Z=1	10-120 VAC, 50/60	Hz, e.g., CX34NB	37501 <mark>Z</mark> .		_	ă (
							2		
		1/2" & 1" No	ormally Closed	1/2" Norma	lly Open	1" Norma	lly Ope	n	

Port Sizes 3/4 & 1

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D1.15

ACCESSORIES

Electrical Connectors									
			Electrical Connectors Model Number						
Valve Type	Port Size	Electrical Connector Form	Lighted Cor	nnector Only	Lighted Connector Pre-wired*				
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			24 Volts DC	120 Volts AC	24 Volts DC	120 Volts AC			
3/2	1/2	EN 175301-803 Form C	2453K77-W	2453K77-Z	2476K77-W	2476K77-Z			
3/2	1	EN 175301-803 Form A	936K87-W	936K87-Z	720K77-W	720K77-Z			
* .									

*Pre-wired connectors include a 2 meter (6½ ft.) cord.

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Silencers

Port	Thread	Mod	el Number	Ave C	Dimension	s inches (mm)	Weight	
Size	Туре	NPT Threads	R/Rp Threads	Avg. C _v	Width	Length	lb (kg)	
1/2	Male	5500A4003	D5500A4003	4.7	1.3 (32)	3.6 (91)	0.2 (0.1)	
1	Male	5500A6003	D5500A6003	14.6	2.0 (51)	5.4 (138)	0.6 (0.3)	
Pressure Range: 0 to 290 psig (0 to 20 bar) maximum. Flow Media: Filtered air.								

STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Poppet	Flow Modio	Filtered air	
Mounting Type	In-line	Flow Media	For liquid applications, consult ROSS.	
Solenoids	Rated for continuous duty	Pilot Supply	External	
	Port Size 1/2: 24 volts DC; 1.5 watts on DC		Vacuum to 145 psig (vacuum to 10 bar)	
V III /D 0 II	110 volts AC, 50 Hz: 5.4 VA	Operating Pressure	Pilot Supply - External: 50 to 145 psig (3.4 to 10 bar)	
Voltage/Power Consumption (each solenoid)	120 volts AC, 60 Hz: 5.0 VA Port Size 1:		Pilot supply pressure must be equal to or greater than inlet pressure.	
	24 volts DC; 110 volts AC, 50 Hz; 120 volts AC, 50/60 Hz 5.8 watts nominal on AC and DC, 6.5 watts maximum on AC and DC	Construction Material	Valve Body: Cast Aluminum Poppet: Acetal & Stainless Steel	
Enclosure Rating	IP65, IEC 60529		Seals: Buna-N	
Electrical Connection	EN 175301-803 Form A or Form C connector		Normally Closed Valves: All Sizes; Non-locking	
Tomporatura	Ambient: 40° to 120°F (4° to 50°C)	Manual Override	Normally Open Valves:	
Temperature	Media: 40° to 175°F (4° to 80°C)		Port Size 1/2: Non-locking Port Size 1: Locking, turn-to-lock	

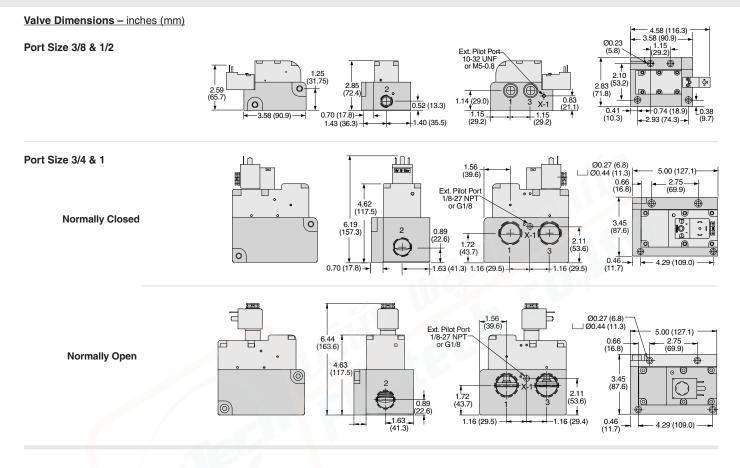
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ROSS,

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

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Leak Tight Dale CX Series

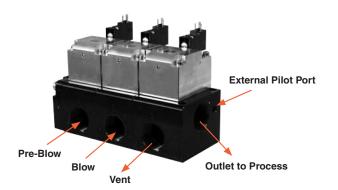


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Blow Molding Application Example

The CP & CX compact flexible manifold design eliminates piping, reduces system volume, provides fast consistent actuation and delivers an amazing flow rate up to 100 Cv.





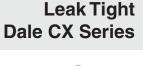
Pressure Controlled Valves

External Pilot Supply

	2-Way 2-Position Valves, Air Return							
		External Pilot Supply						
Port Size		Normally Closed		Pilot Po		Avg. C _v	Weight	
		Model N	Model Number*		Thread		lb (kg)	
1	2	NPT Threads	G Threads	NPT	G			
1/2	3/8	CX14NB35501	CX14DB35501	10-32 UNF	M5	3.5	1.4 (0.6)	
1/2	1/2	CX14NB45501	CX14DB45501	10-32 UNF	M5	3.5	1.4 (0.6)	
1	3/4	CX16NB55501	CX16DB55501	1/8-27 NPT	G1/8	12.3	3.5 (1.6)	
1	1	CX16NB65501	CX16DB65501	1/8-27 NPT	G1/8	12.3	3.5 (1.6)	
1½	1¼	CX18NB75501	CX18DB75501	1/8-27 NPT	G1/8	44.9	10.0 (4.6)	
1½	1½	CX18NB85501	CX18DB85501	1/8-27 NPT	G1/8	44.9	10.0 (4.6)	
21⁄2	2	CX10NB95501	CX10DB95501	1/8-27 NPT	G1/8	108	19.5 (8.9)	
21⁄2	21⁄2	CX10NB05501	CX10DB05501	1/8-27 NPT	G1/8	108	19.5 (8.9)	

3-Way 2-Position Valves, Spring Assisted Air Return

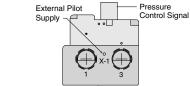
Pilot Port







Port Size		Normally	Pilot H		Ave C	Weight			
		Model N	umber*		au	Avg. C _v	lb (kg)		
1, 3	2	NPT Threads	G Threads	NPT	G				
1/2	3/8	CX34NB35501	CX34DB35501	10-32 UNF	M5	3.5	1.4 (0.6)		
1/2	1/2	CX34NB45501	CX34DB45501	10-32 UNF	M5	3.5	1.4 (0.6)		
1	3/4	CX36NC55501	CX36DC55501	1/8-27 NPT	G1/8	12.3	3.5 (1.6)		
1	1	CX36NC65501	CX36DC65501	1/8-27 NPT	G1/8	12.3	3.5 (1.6)		



Note: The Dale Series pressure controlled valves require both an external pilot supply and a control signal to operate the valve. When a pressure control signal is applied the valve shifts to the open position.

ACCESSORIES FOR 3/2 VALVES

Silencers							
Port Thread Model Number			Avg.	Dimension	Weight		
Size	Туре	NPT Threads	R/Rp Threads	Cv	Width	Length	lb (kg)
1/2	Male	5500A4003	D5500A4003	4.7	1.3 (32)	3.6 (91)	0.2 (0.1)
1	1 Male 5500A6003 D5500A6003 14.6 2.0 (51) 5.4 (138) 0.6 (0.3)						
Pressure Range: 0 to 290 psig (0 to 20 bar) maximum. Flow Media: Filtered air.							

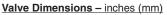
STANDARD SPECIFICATIONS (for valves on this page):

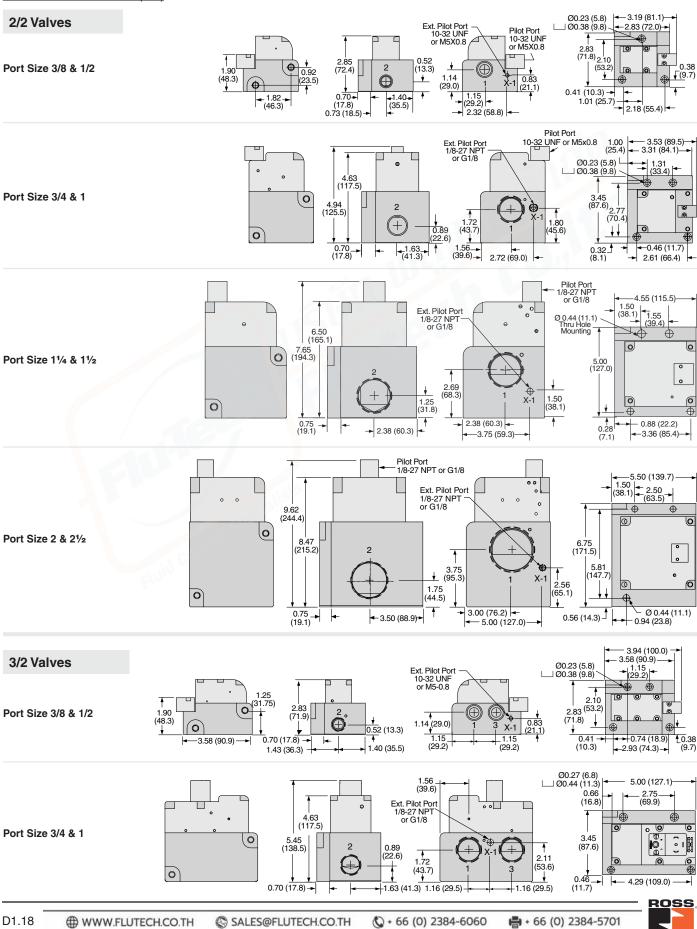
Construction Design	Poppet		Vacuum to 250 psig (vacuum to 17.2 bar)
Mounting Type	In-line		Pilot Supply:
Temperature	Ambient: 40° to 120°F (4° to 50°C)	Operating Pressure	2/2 Valves: 30 to 250 psig (2 to 17.2 bar) 3/2 Valves: 50 to 250 psig (3.4 to 17.2 bar)
Temperature	Media: 40° to 175°F (4° to 80°C)		Pilot supply pressure must be equal to or greater than inlet
Flow Madia	Filtered air		pressure.
Flow Media	For liquid applications, consult ROSS.		Valve Body: Cast Aluminum
Pilot Supply	External	Construction Material	Poppet: Acetal & Stainless Steel
			Seals: Buna-N



Pressure Controlled Valves

Leak Tight Dale CX Series





Manifolds can be ordered from two (2) to ten (10) stations. Complete valves-on-manifold assemblies can be ordered to fit your precise requirements. For preassembled manifold valves with the same model number, select the model number from the table below.

For ordering the Dale CX Series manifold valves with different valve functions, please see page B1.24 for manifold configurator.

	2-Way 2-Position Valves, Air Return										
			External P	ilot Supply					Valve Manifold Ports 3/8 & 1/2		
	ort ize	Normally	y Closed	Normal	ly Open	Pilot Port Thread C _v		Thread Avg.		Avg.	
		Model N	umber#*	Model N	umber#*					C _v	
1	2	NPT Threads	G Threads	NPT Threads	G Threads	NPT	G				
1/4	1/4	CX12NB2751XW	CX12DB2751XW	CX22NB2751XW	CX22DB2751XW	10-32 UNF	M5	0.9			
1/2	3/8	CX14NB3751XW	CX14DB3751XW	CX24NB3751XW	CX24DB3751XW	10-32 UNF	M5	3.5			
1/2	1/2	CX14NB4751XW	CX14DB4751XW	CX24NB4751XW	CX24DB4751XW	10-32 UNF	M5	3.5			
1	3/4	CX16NB5751XW	CX16DB5751XW	CX26NB5751XW	CX26DB5751XW	1/8-27 NPT	G1/8	12.3	Valve Manifold		
1	1	CX16NB6751XW	CX16DB6751XW	CX26NB6751XW	CX26DB6751XW	1/8-27 NPT	G1/8	12.3	Ports 3/4 &1		
1½	1¼	CX18NB7751XW	CX18DB7751XW	CX28NB7751XW	CX28DB7751XW	1/8-27 NPT	G1/8	44.9			
1½	1½	CX18NB8751XW	CX18DB8751XW	CX28NB8751XW	CX28DB8751XW	1/8-27 NPT	G1/8	44.9	and the second s		
21⁄2	2	CX10NB9751XW	CX10DB9751XW	CX20NB9751XW	CX20DB9751XW	1/8-27 NPT	G1/8	108			
21⁄2	21⁄2	CX10NB0751XW	CX10DB0751XW	CX20NB0751XW	CX20DB0751XW	1/8-27 NPT	G1/8	108			
	1/4" thru 2½" Normally Closed 1/4" thru 1" Normally Open 1½" & 2½" Normally Open Valve Manifold Ports 1/4, 1¼ thru 2½ 1/4" thru 2½ 1/4" thru 2½ 1/4" thru 2½ 1/4" thru 2½										

Voltage: W=24 VDC; Z=110-120 VAC, 50/60 Hz, e.g., e.g., CX12NB2751XZ.

*X Number of Stations – To indicate the number of stations desired, for 2 to 9 stations, replace X in the model number with the specific number of stations, for 10 stations replace X with 0, e.g., CX12NB27514W (4 = 4 Stations), CX12NB27510W, (0 = 10 Stations).

The CX Series valve	s on this page require a	an external pilot supply.
	o on ano page regane e	an external phot ouppiy.

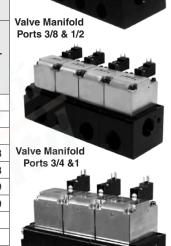
ACCESSORIES – Electrical Connectors							
Electrical Connectors Model Number						ber	
Valve Type	Port Size	Electrical Connector Form	Lighted Connector Only		Lighted Connector Pre-wired*		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.20		24 Volts DC	120 Volts AC	24 Volts DC	120 Volts AC	
2/2	1/4 - 1	EN 175301-803 Form C	2453K77-W	2453K77-Z	2476K77-W	2476K77-Z	
2/2	11⁄2-21⁄2	EN 175301-803 Form A	936K87-W	936K87-Z	720K77-W	720K77-Z	

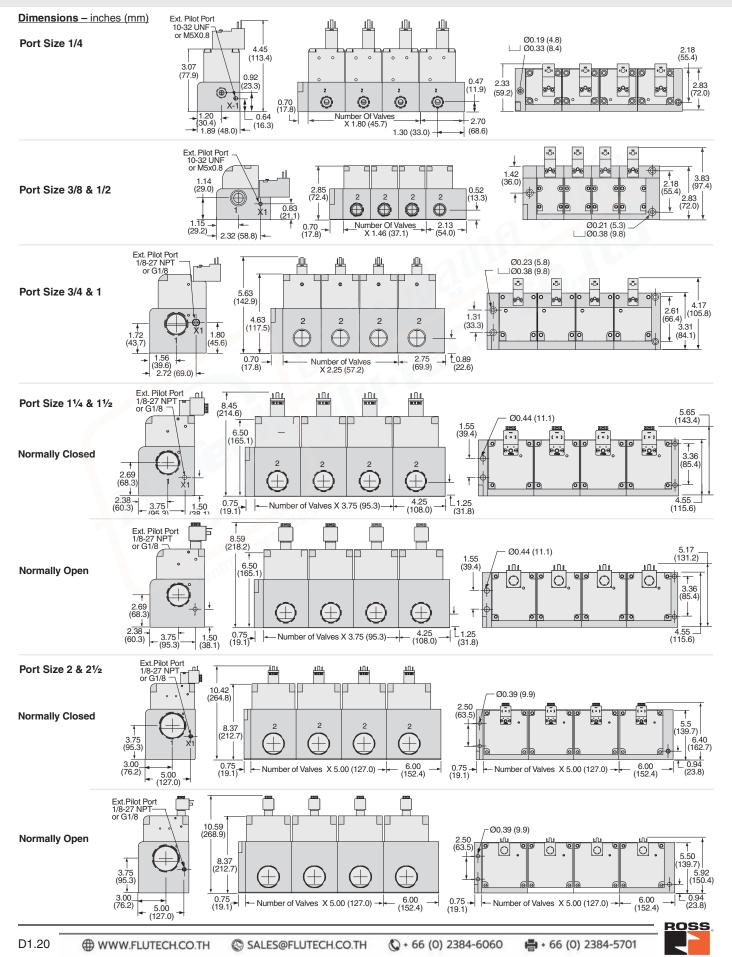
*Pre-wired connectors include a 2 meter (61/2 ft.) cord.

STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Poppet	Flow Media	Filtered air
Mounting Type	In-line		For liquid applications, consult ROSS.
Solenoids	Rated for continuous duty	Pilot Supply	External
Voltage/Power Consumption (each solenoid)	Port Size 1/4 thru 1: 24 volts DC; 1.5 watts on DC 110 volts AC, 50 Hz: 5.4 VA 120 volts AC, 60 Hz: 5.0 VA Port Size 1½ & 2½: 24 volts DC; 110 volts AC, 50 Hz; 120 volts AC, 50/60 Hz 5.8 watts nominal on AC and DC, 6.5 watts maximum on AC and DC	Operating Pressure	Port Size 1/4: Vacuum to 145 psig (vacuum to 10 bar) Port Size 1/2 thru 2½: Vacuum to 145 psig (vacuum to 10 bar) Pilot Supply - External: Port Size 1/4: 70 to 145 psig (5 to 10 bar) Port Size 1/2 thru 2½: 30 to 145 psig (2 to 10 bar) Pilot supply pressure must be equal to or greater than inlet pressure. Valve Body: Cast Aluminum
Enclosure Rating	IP65, IEC 60529	Construction Material	Poppet: Acetal & Stainless Steel
Electrical Connection	EN 175301-803 Form A or Form C connector		Seals: Buna-N
Temperature	Ambient: 40° to 120°F (4° to 50°C) Media: 40° to 175°F (4° to 80°C)	Manual Override	Normally Closed Valves: All Sizes; Non-locking Normally Open Valves:
			Port Size 1/2 & 1: Non-locking Port Size 11/2 & 21/2: Locking, turn-to-lock

Leak Tight **Dale CX Series**





Leak Tight **Dale CX Series**

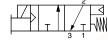
Manifolds can be ordered from two (2) to ten (10) stations. Complete valves-on-manifold assemblies can be ordered to fit your precise requirements.

For preassembled manifold valves with the same model number, select the model number from the table below. For ordering the Dale CX Series manifold valves with different valve functions, please see page B1.24 for manifold configurator.

	3-Way 2-Position Valves, Spring Assisted Air Return								
	_								
Port Size Normally Closed			Normal	ly Open	Pilot Port Tl	Avg.			
	Model Number#* Model Number#*				umber#*			Cv	
1, 3	2	NPT Threads	G Threads	NPT Threads	G Threads	NPT	G		
1/2	3/8	CX34NB3751XW	CX34DB3751XW	CX44NB3751XW	CX44DB3751XW	10-32 UNF	M5	3.6	
1/2	1/2	CX34NB4751XW	CX34DB4751XW	CX44NB4751XW	CX44DB4751XW	10-32 UNF	M5	3.6	
1	3/4	CX36NC5751XW	CX36DC5751XW	CX46NC5751XW	CX46DC5751XW	1/8-27 NPT	G1/8	12.3	
1	1	CX36NC6751XW	CX36DC6751XW	CX46NC6751XW	CX46DC6751XW	1/8-27 NPT	G1/8	12.3	
# V	oltac		10 120 \/AC 50/60		751 77				

Voltage: W=24 VDC; Z=110-120 VAC, 50/60 Hz, e.g., CX34NB3751XZ.

*X Number of Stations - To indicate the number of stations desired, for 2 to 9 stations, replace X in the model number with the specific number of stations, for 10 stations replace X with 0, e.g., CX34NB37514W (4 = 4 Stations), CX34NB37510W, (0 = 10 Stations).





1/2" & 1" Normally Closed







Valve Manifold Ports 3/8 & 1/2



Valve Manifold Ports 3/4 & 1

Note: The CX Series valves on this page require an external pilot supply.

Accessories

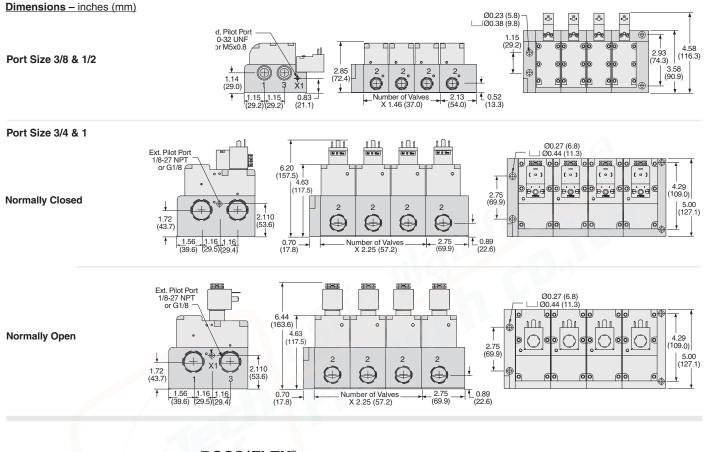
				Electrical Conne	ctors Model Num	ıber	
Valve Port Type Size		Electrical Connector Form	Lighted Co	nnector Only	Lighted Connector Pre-wired*		
Туре	3126	Tom	24 Volts DC	120 Volts AC	24 Volts DC	120 Volts AC	
3/2	1/2	EN 175301-803 Form C	2453K77-W	2453K77-Z	2476K77-W	2476K77-Z	
3/2	1	EN 175301-803 Form A	936K87-W	936K87-Z	720K77-W	720K77-Z	
*Pre-wi	red con <mark>n</mark>	ectors include a 2 meter (61/2	ft.) cord.				
Silencers							

Port	Thread	Mod	el Number	Ave C	Dimensions inches (mm)		Weight
Size	Туре	NPT Threads	G Threads	Avg. C _v	Width	Length	lb (kg)
1/2	Male	5500A4003	D5500A4003	4.7	1.3 (32)	3.6 (91)	0.2 (0.1)
1 Male 5500A6003 D5500A6003 14.6 2.0 (51) 5.4 (138) 0.6 (0.3)					0.6 (0.3)		
Pressure Range: 0 to 290 psig (0 to 20 bar) maximum. Flow Media: Filtered air.							

STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Poppet	Flow Media	Filtered air
Mounting Type	In-line		For liquid applications, consult ROSS.
Solenoids	Rated for continuous duty	Pilot Supply	External
Colonoldo	Port Size 1/2:		Vacuum to 145 psig (vacuum to 10 bar)
Voltage/Power Consumption (each solenoid)	24 volts DC; 1.5 watts on DC	Operating Pressure	Pilot Supply - External: 50 to 145 psig (3.4 to 10 bar)
	110 volts AC, 50 Hz: 5.4 VA 120 volts AC, 60 Hz: 5.0 VA	oporating Proceeds	Pilot supply pressure must be equal to or greater than inlet pressure.
	Port Size 1: 24 volts DC; 110 volts AC, 50 Hz; 120 volts AC, 50/60 Hz 5.8 watts nominal on AC and DC, 6.5 watts maximum on AC and DC	Construction Material	Valve Body: Cast Aluminum Poppet: Acetal & Stainless Steel Seals: Buna-N
Enclosure Rating	IP65, IEC 60529		Normally Closed Valves:
Electrical Connection	EN 175301-803 Form A or Form C connector	Manual Quarrida	All Sizes; Non-locking
Tomporatura	Ambient: 40° to 120°F (4° to 50°C)	Manual Override	Normally Open Valves: Port Size 1/2 & 1: Non-locking
Temperature	Media: 40° to 175°F (4° to 80°C)		Port Size 11/2 & 21/2: Locking, turn-to-lock

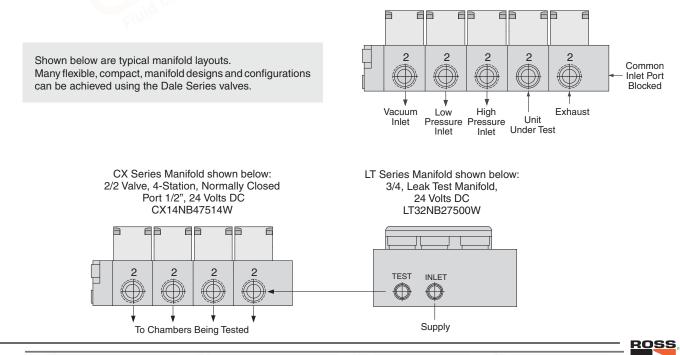




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Leak Test Systems using Dale CX & LT Series Valves



Pressure Controlled Valve Manifolds

Leak Tight Dale CX Series

Manifolds can be ordered from two (2) to ten (10) stations.

Complete valves-on-manifold assemblies can be ordered to fit your precise requirements.

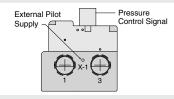
For preassembled manifold valves with the same model number, select the model number from the table below.

For ordering the Dale CX Series manifold valves with different valve functions, please see page B1.24 for manifold configurator.

2-Way 2-Positio				n Valves, Air Return			
	ort		External Pilot Supply		External Pilot Supply Pilot Port		
	ze		y Closed	Threa		Avg.	
		Model N	lumber*			Cv	
1	2	NPT Threads	G Threads	NPT	G		
1/2	3/8	CX14NB3551X	CX14DB3551X	10-32 UNF	M5	3.7	
1/2	1/2	CX14NB4551X	CX14DB4551X	10-32 UNF	M5	3.7	2
1	3/4	CX16NB5551X	CX16DB5551X	1/8-27 NPT	G1/8	13.7	
1	1	CX16NB6551X	CX16DB6551X	1/8-27 NPT	G1/8	13.7	
1½	1¼	CX18NB7551X	CX18DB7551X	1/8-27 NPT	G1/8	44.9	
1½	1½	CX18NB8551X	CX18DB8551X	1/8-27 NPT	G1/8	44.9	
21⁄2	2	CX10NB9551X	CX10DB9551X	1/8-27 NPT	G1/8	108	
21⁄2	21⁄2	CX10NB0551X	CX10DB0551X	1/8-27 NPT	G1/8	108	
		3-Way 2-Po	sition Valves,	Spring A	ssiste	d Air	Return
		External P	ilot Supply	Pilot Po	ort		
	ort ize	Normall	y Closed	Threa		Avg.	
		Model N	lumber*			Cv	
1, 3	2	NPT Threads	G Threads	NPT	BSPP		
1/2	3/8	CX34NB3551X	CX34DB3551X	10-32 UNF	M5	3.6	3 1
1/2	1/2	CX34NB4551X	CX34DB4551X	10-32 UNF	M5	3.6	
1	3/4	CX36NC5551X	CX36DC5551X	1/8-27 NPT	G1/8	12.3	
1	1	CX36NC6551X	CX36DC6551X	1/8-27 NPT	G1/8	12.3	

*X Number of Stations – To indicate the number of stations desired, for 2 to 9 stations, replace X in the model number with the specific number of stations, for 10 stations replace X with 0, e.g., CX14NB35516 (4 = 4 Stations), CX14NB35510, (0 = 10 Stations).

Note: The Dale Series pressure controlled valves require both an external pilot supply and a control signal to operate the valve. When a pressure control signal is applied the valve shifts to the open position.



ACCESSORIES FOR 3/2 VALVES

Silencers									
Port	Thread	d Model Number			Dimension	Weight			
Size	Туре	NPT Threads	R/Rp Threads	Cv	Width	Length	lb (kg)		
1/2	Male	5500A4003	D5500A4003	4.7	1.3 (32)	3.6 (91)	0.2 (0.1)		
1	Male	5500A6003	D5500A6003	14.6	2.0 (51)	5.4 (138)	0.6 (0.3)		
Pressu	Pressure Range: 0 to 290 psig (0 to 20 bar) maximum. Flow Media: Filtered air.								

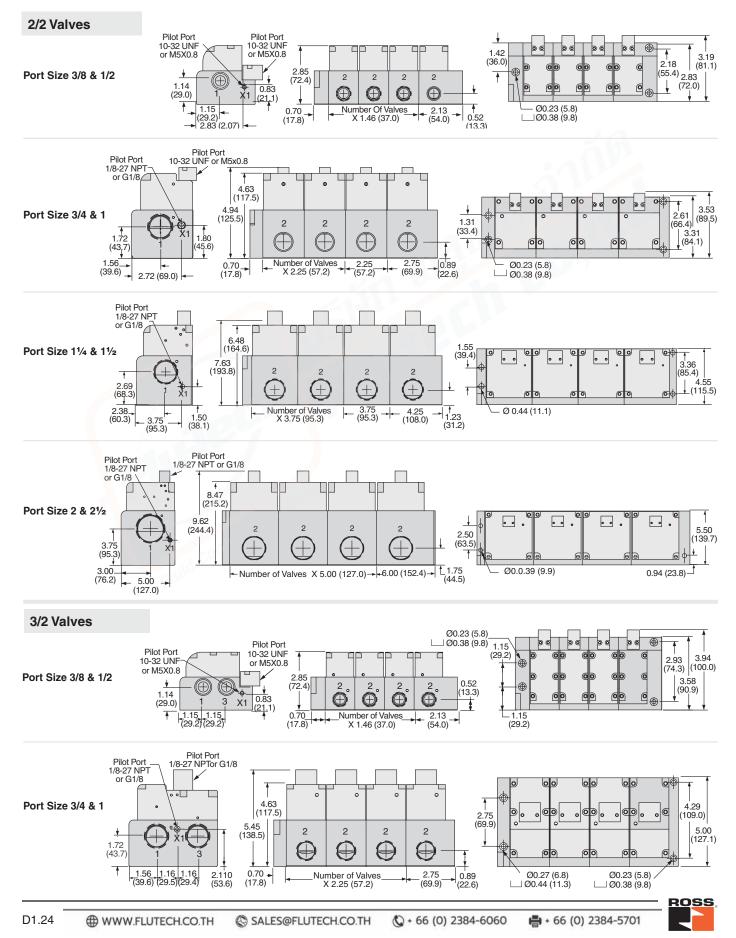
Note: For manifolds requiring different valves types, consult ROSS.

STANDARD SPECIFICATIONS	(for valves on this page):
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Construction Design	Poppet		Vacuum to 250 psig (vacuum to 17.2 bar)		
Mounting Type	In-line		Pilot Supply:		
Tomporatura	Ambient: 40° to 120°F (4° to 50°C)	Operating Pressure	2/2 Valves: 30 to 250 psig (2 to 17.2 bar) 3/2 Valves: 50 to 250 psig (3.4 to 17.2 bar) Pilot supply pressure must be equal to or greater than in		
Temperature	Media: 40° to 175°F (4° to 80°C)				
51 M F	Filtered air		pressure.		
Flow Media	For liquid applications, consult ROSS.		Valve Body: Cast Aluminum		
Pilot Supply	External	Construction Material	Poppet: Acetal & Stainless Steel		
i not oupply	Extornul	1	Seals: Buna-N		

Pressure Controlled Valve Manifolds

Dimensions - inches (mm)



Leak Tight **Dale LX Series**

			2-Way	2-Position Valv	ves, Air Return	I			
	ort ize	Normally	y Closed	Normal	ly Open	Pilot Port T	hread	Avg.	Weight
		Model N	lumber#	Model N	lumber#			Cv	lb (kg)
1	2	NPT Threads	G Threads	NPT Threads	G Threads	NPT	G		
3/8	3/8	LX13NB37501W	LX13DB37501W	LX23NB37501W	LX23DB37501W	1/8-27 NPT	G1/8	3.6	1.5 (0.7)
1/2	1/2	LX14NB47501W	LX14DB47501W	LX24NB47501W	LX24DB47501W	1/8-27 NPT	G1/8	3.6	1.5 (0.7)
3/4	3/4	LX15NB57501W	LX15DB57501W	LX25NB57501W	LX25DB57501W	1/8-27 NPT	G1/8	12.2	3.5 (1.6)
1	1	LX16NB67501W	LX16DB67501W	LX26NB67501W	LX26DB67501W	1/8-27 NPT	G1/8	12.2	3.5 (1.6)
1¼	1¼	LX17NB77501W	LX17DB77501W	LX27NB77501W	LX27DB77501W	1/8-27 NPT	G1/8	36.1	9.3 (4.2)
1½	1½	LX18NB87501W	LX18DB87501W	LX28NB87501W	LX28DB87501W	1/8-27 NPT	G1/8	36.1	9.3 (4.2)
2	2	LX19NB97501W	LX19DB97501W	LX29NB97501W	LX29DB97501W	1/8-27 NPT	G1/8	62.7	19.3 (8.8)
21⁄2	21⁄2	LX10NB07501W	LX10DB07501W	LX20NB07501W	LX20DB07501W	1/8-27 NPT	G1/8	62.7	19.3 (8.8)
# V	oltage	e: W=24 VDC; Z=1	10-120 VAC, 50/60	Hz, e.g., LX13NB3	7501 <mark>Z</mark> .				
			2		2		2		
		Normally Clo	sed	3/8" thru 1" Norma	ally Open	11⁄4" & 21⁄2"	Normally	y Open	

The LF & LX Series provides superior performance over a diaphragm valve with a rugged poppet design, bi-directional flow and high cycle life.



The LF & LX Series provides superior performance over a ball valve with solenoid actuation, shifting speed, cycle life, and most important, a cost effective alternative.

Diaphragm Valve

Improved Performance

Cost Ball Valve Effective

Note: The LX Series valves on this page require an external pilot supply.

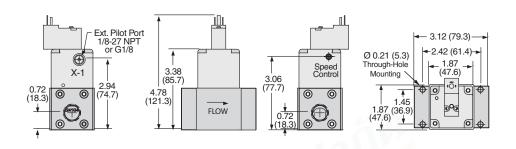
ACCESSORIES – Electrical Connectors									
Malara	Dent	Electrical Occurrentes	Electrical Connectors Model Number						
Valve Type	Port Size	Electrical Connector Form	Lighted Connector Only		Lighted Connector Only Lighted Connector P			ctor Pre-wired*	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.20		24 Volts DC	120 Volts AC	24 Volts DC	120 Volts AC			
0/0	3/8 - 1	EN 175301-803 Form C	2453K77-W	2453K77-Z	2476K77-W	2476K77-Z			
2/2	1 ¼-2½	EN 175301-803 Form A	936K87-W	936K87-Z	720K77-W	720K77-Z			
*Pre-wired connectors include a 2 meter (61% ft) cord									

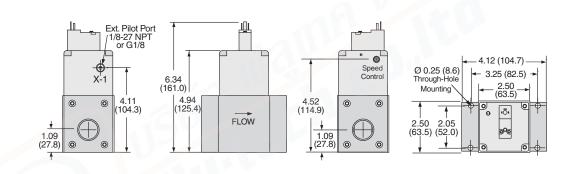
STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Poppet	Flow Media	Filtered air		
Mounting Type	In-line		For liquid applications, consult ROSS.		
Solenoids	Rated for continuous duty	Pilot Supply	External		
Solellolus	Port Size 3/8 thru 1:		Vacuum to 145 psig (vacuum to 10 bar)		
		Operating Pressure	Pilot Supply - External: 30 to 145 psig (2 to 10 bar)		
Voltage/Power Consumption (each solenoid)	110 volts AC, 50 Hz: 5.4 VA 120 volts AC, 60 Hz: 5.0 VA		Pilot supply pressure must be equal to or greater than inlet pressure.		
	Port Size 1¼ thru 2½: 24 volts DC; 110 volts AC, 50 Hz; 120 volts AC, 50/60 Hz 5.8 watts nominal on AC and DC, 6.5 watts maximum on AC and DC	Construction Material	Valve Body: Cast Aluminum Poppet: Acetal & Stainless Steel Seals: Buna-N		
Enclosure Rating	IP65, IEC 60529		Normally Closed Valves:		
Electrical Connection	EN 175301-803 Form A or Form C connector	Manual Override	All Sizes; Non-locking Normally Open Valves:		
Tomporatura	Ambient: 40° to 120°F (4° to 50°C)		Port Size 1/2 & 1: Non-locking		
Temperature	Media: 40° to 175°F (4° to 80°C)		Port Size 11/2 & 21/2: Locking, turn-to-lock		

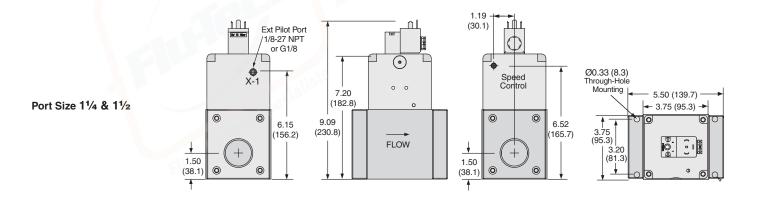
Valve Dimensions - inches (mm)

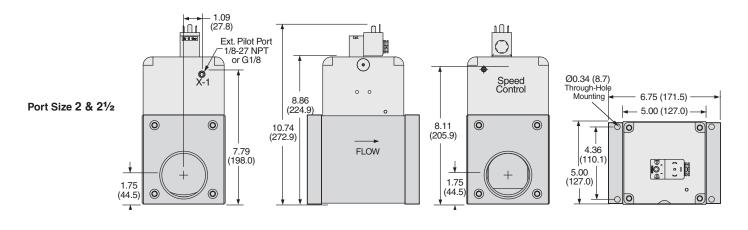
Port Size 3/8 & 1/2

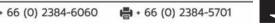




Port Size 3/4 & 1



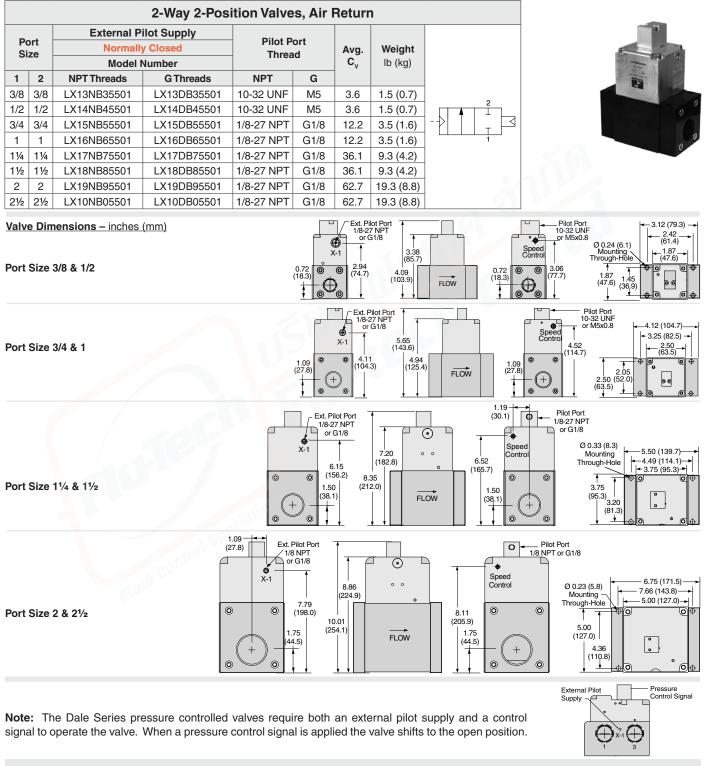






Pressure Controlled Valves

Leak Tight Dale LX Series

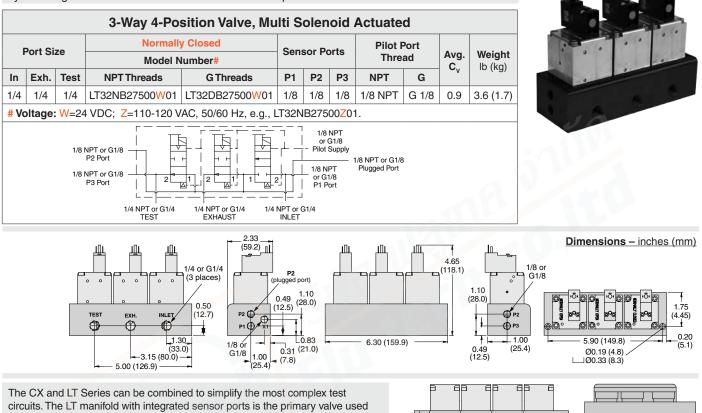


	STANDARD SPECIFICATIO	NS (for valves on this	page):		
Construction Design	Poppet		Vacuum to 250 psig (vacuum to 17.2 bar)		
Mounting Type	In-line	Operating Pressure	Pilot Supply: 30 to 250 psig (2 to 17.2 bar) Pilot supply pressure must be equal to or greater than inle pressure.		
Temperature	Ambient: 40° to 120°F (4° to 50°C)	oporaning i rocouro			
Temperature	Media: 40° to 175°F (4° to 80°C)]			
Flow Media	Filtered air	Construction Material	Valve Body: Cast Aluminum Poppet: Acetal & Stainless Steel		
FIOW MEUIA	For liquid applications, consult ROSS.		Seals: Buna-N		
Pilot Supply	External				



Leak Tight Dale LT Series

The LT Series valves can be field configured for flow, pressure decay, or differential pressure testing by selecting different combinations of the three sensor ports.



circuits. The LT manifold with integrated sensor ports is the primary valve used for the fill, isolate and test functions. In this example the test port of the LT is connected to the CX manifold allowing four chambers to be tested one at a time. The flexibility of combining the LT and CX manifolds creates a compact package, reduces leak paths, and provides an all in one test solution.



Н

Supply

TEST INLET

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Accessories

Elect	Electrical Connectors										
Value	Deut				Electrica	I Conne	ctors	Model Nun	nber		
Valve Type	Port Size	Electrical Conne Form	ctor	Lighted Co	onnector	Only	Ligl	nted Conne	ctor F	Pre-wired*	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.20			24 Volts DC	DC 120 Volts AC		24 Volts DC		120 Volts AC		
1/4	3/8 - 1	EN 175301-803 Fo	rm C	2453K77-W	24531	K77-Z 247		2476K77-W		2476K77-Z	
*Pre-wired connectors include a 2 meter (6½ ft.) cord.											
Silenc	Silencers										
Port	Thread	hread Model Numb		ber	A	Dimension		s inches (m	m) Weight		
Size	Туре	NPT Threads	s R/Rp Threads Avg. C		Avg. C _v	Wid	th	Length	1	lb (kg)	
1/4	Male	5500A2003	D5	500A2003	2.1	0.9 (2	21)	2.2 (55)	0.1 (0.1)	
Pressure Range: 0 to 290 psig (0 to 20 bar) maximum. Flow Media: Filtered air.											

STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Poppet	Flow Media	Filtered air For liguid applications, consult ROSS.			
Mounting Type Solenoids	In-line DC power; Rated for continuous duty	Pilot Supply	Internal or External			
Voltage/Power Consumption	24 volts DC; 1.5 watts on DC 110 volts AC, 50 Hz: 5.4 VA	Operating Pressure	2 to 145 psig (0.13 to 10 bar) Pilot Supply - Internal or External: 50 to 145 psig (3.4 to 10 bar)			
(each solenoid) Enclosure Rating	120 volts AC, 60 Hz: 5.0 VA IP65, IEC 60529		When external pilot supply, pressure must be equal to or greater than inlet pressure.			
Electrical Connection	EN 175301-803 Form A or Form C connector	Construction Material	Valve Body: Cast Aluminum Poppet: Acetal & Stainless Steel			
Temperature	Ambient/Media: 40° to 120°F (4° to 50°C)		Seals: Buna-N			



CP & CX Series Assembled Valve Manifold Configurator

This form can be used when your application requires either a CP or CX Series valve manifold with different valve functions to provide you with complete valve manifold assemblies to fit your precise requirements.

Manifolds can be ordered from two to ten stations. For other combinations, contact ROSS for more information.

of Stations	2 3 4 5 6 7 8 9 10 □ □ □ □ □ □ □ □ □ □ □	Comp	atible Combinations
ort Thread: alve Series alve Type:		 Different port 2 size (i.e., valve 1 = 1/2") 	or 120 volts AC Solenoid Pilot Valves s with same port 1 size
/alve Position Number	Valve Model Number*	Valve Position Number	Valve Model Number**
1		1	CX14NB37511W
2	50	2	CX14NB37511W
3		3	CX24NB37511W
4		4	CX24NB37511W
5		5	Blank
6		6	CX14NB47511W
7		7	CX24NB47511W
8	dalists	8	CX14NB35511
9	trol Spe	9	
10	uid com	10	
	r CX Valve product pages for Valve Model Numbers. to indicate base with blocking plate.	**Example given for	an eight station manifold.
Nan Con	ne: npany Name:	Date	
	Iress:		
City	, State, Zip Code:		
	e-mail:		

to obtain pre-assemble model number, price, and delivery.