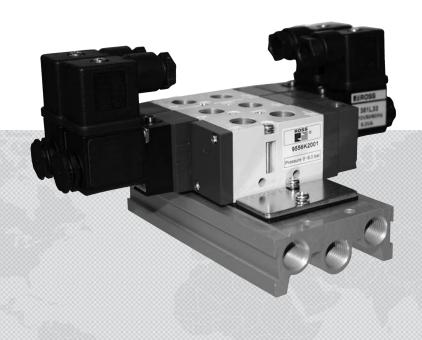


PRODUCT INFORMATION

DIRECTIONAL CONTROL VALVES

95 SERIES

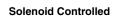


ROSS CONTROLS

IN-LINE DIRECTIONAL VALVES AND MANIFOLDS- KEY FEATURES

- 24 volts DC and 110 volts AC options for solenoid control
- Available with 1/8, 1/4, 3/8, and 1/2 port options
- Flexible mounting in-line or manifold
- Resilient seal spool construction
- Compact size
- High flow capacity
- Lube or non-lube service
- Manual overrides
- Pressure ports located in valve body







Pressure Controlled



Manifold Options

VALVETVDE	AVAILABLE PORT SIZES				MAX. FLOW	MOUNTING		Dono
VALVE TYPE	1/8	1/4	3/8	1/2	Cv	IN-LINE	MANIFOLD	Page
SOLENOID PILOT CONTROLLED								
3/2 NC/NO Spring return					2.6			D4.3
5/2 Spring Return					4.5			D4.4
5/2 Detented					4.5			D4.5
5/3 Spring Center					2.2			D4.6
PRESSURE CONTROLLED								
3/2 NC/NO Spring return					2.6			D4.7
5/2 Spring Return					4.5			D4.8
5/2 Detented					4.5			D4.9
5/3 Spring Center					3.4			D4.10
MANIFOLD BLOCKS, OPTIONS, & ACCE	SSORIES							
Manifold Blocks (3/2 Valves)								D4.11
Manifold Blocks (5/2 & 5/3 Valves)								D4.12
Manifold Blanking Plates								D4.11 - D4.12
Pilot Coils & Connectors								D4.11 - D4.12
Silencers								D4.11 - D4.12



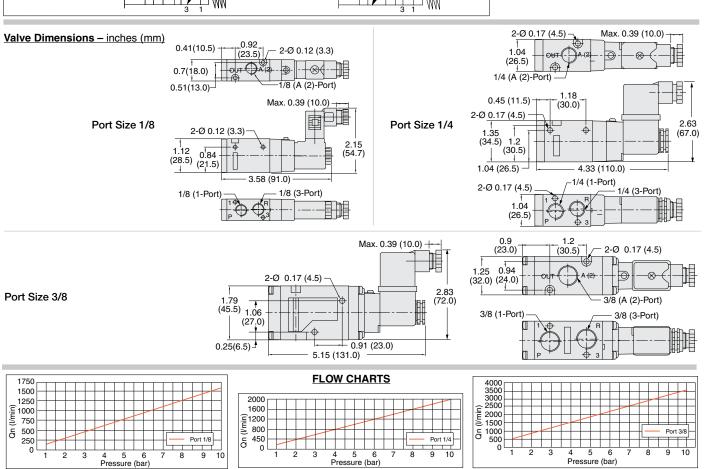


D4

Single Solenoid Pilot Controlled Valves

	3-Way 2-Position Valves, Single Solenoid, Spring Return								
Po	ort	Normall	y Closed	Normal	Avg.	Weight lb (kg)			
Si	ze	Valve Mode	el Number#	Valve Mode					
1, 2	3	NPT Threads	G Threads	NPT Threads	G Threads	V	ib (Ng)		
1/8	1/8	9573K1001W	D9573K1001W	9574K1001W	D9573K1001W	0.9	0.38 (0.17)		
1/4	1/4	9573K2001W	D9573K2001W	9574K2001W	D9573K2001W	1.3	0.70 (0.32)		
3/8	3/8	9573K3001W	D9573K3001W	9574K3001W	D9573K3001W	2.6	1.15 (0.52)		
# Vc	# Voltage: W=24 VDC; Z=110-120 VAC, 50/60 Hz, e.g., 9573K1001Z.								
	Normally Closed 12 Normally Open 10 12 Normally Open 10 12 12 12 12 12 12 12 12 12 12 12 12 12								





Solenoid and Connector included.

Manifolds and Accessories ordered separately, refer to page D4.11. For other options, consult ROSS.

Construction Design	Spool
Mounting Type	In-line or manifold mounted
Solenoids	AC or DC power; Rated for continuous duty
Voltage	24 volts DC: 110 volts AC, 50/60 Hz
Power Consumption (each solenoid)	2.5 watts on DC; 3.6 VA holding on 50/60 Hz
Enclosure Rating	IP 65, IEC 60529
Electrical Connection	Port Size 1/8: MICRO-MINI EN 175301-803 connector
LICCUICAI COIIIICCIIOII	Port Size 1/4 & 3/8: EN 175301-803 Industrial Form B connector

Temperature	Ambient/Media: 41° to 140°F (5° to 60°C)
Flow Media	Filtered air
Pilot Supply	Internal
Operating Pressure	22.5 to 150 psig (1.5 to 10 bar)
Construction Material	Valve Body: Bar Stock Aluminum Spool: Stainless Steel Seals: Buna-N
Manual Override	Pushbutton, non-locking

Valves available with installed prewired connectors, please consult ROSS.





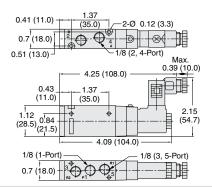
Single Solenoid Pilot Controlled Valves

	5-Way 2-Position Valves, Single Solenoid, Spring Return								
Port Size		Valve Model Number#			Weight				
1, 2, 4	1, 2, 4 3, 5 NPT Thread		G Threads	C _v	lb (kg)				
1/8	1/8	9576K1001W	D9576K1001W	0.9	0.43 (0.20)	14 / 1 / 1			
1/4	1/8	9576K2001W	D9576K2001W	1.3	0.80 (0.36)	12			
3/8	3/8	9576K3001W	D9576K3001W	2.6	1.29 (0.59)	513 ''''			
1/2	1/2	9576K4001W	D9576K4001W	4.5	1.66 (0.75)				
# Voltag	# Voltage: W=24 VDC; Z=110-120 VAC, 50/60 Hz, e.g., 9576K1001Z.								

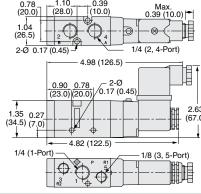


Valve Dimensions - inches (mm)

Port Size 1/8

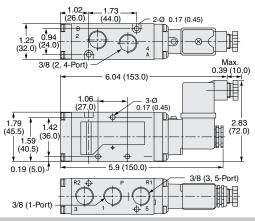


Port Size 1/4

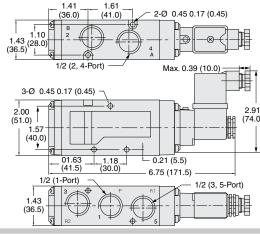


Port Size 3/8

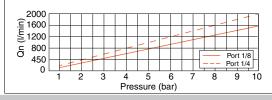
D4

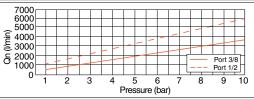


Port Size 1/2



FLOW CHARTS





Solenoid and Connector included.

Manifolds and Accessories ordered separately, refer to page D4.12. For other options, consult ROSS.

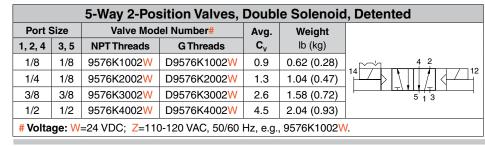
Valves available with installed prewired connectors, please consult ROSS.

STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Spool		
Mounting Type	In-line or manifold mounted		
Solenoids	AC or DC power; Rated for continuous duty		
Voltage	24 volts DC: 110 volts AC, 50/60 Hz		
Power Consumption (each solenoid)	2.5 watts on DC; 3.6 VA holding on 50/60 Hz		
Enclosure Rating	IP 65, IEC 60529		
Electrical Connection	Port Size 1/8: MICRO-MINI EN 175301-803 connector Port Size 1/4 & 3/8: EN 175301-803 Industrial Form B connector		

7	Temperature	Ambient/Media: 41° to 140°F (5° to 60°C)
	Flow Media	Filtered air
1	Pilot Supply	Internal
1	Operating Pressure	22.5 to 150 psig (1.5 to 10 bar)
	Construction Material	Valve Body: Bar Stock Aluminum Spool: Stainless Steel Seals: Buna-N
1	Manual Override	Pushbutton, non-locking

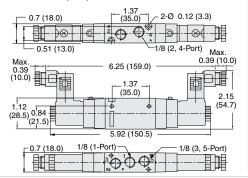
Double Solenoid Pilot Controlled Valves



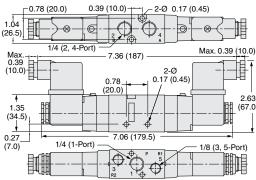


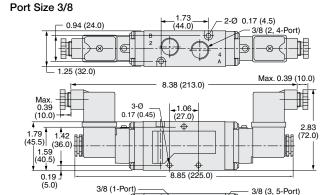
Valve Dimensions - inches (mm)

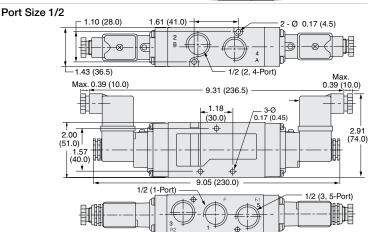
Port Size 1/8



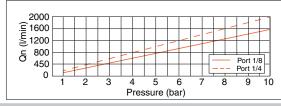
Port Size 1/4

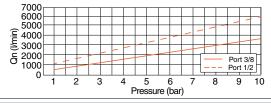






FLOW CHARTS





Solenoid and Connector included.

Manifolds and Accessories ordered separately, refer to page D4.12. For other options, consult ROSS.

Valves available with installed prewired connectors, please consult ROSS.

STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Spool
Mounting Type	In-line or manifold mounted
Solenoids	AC or DC power; Rated for continuous duty
Voltage	24 volts DC: 110 volts AC, 50/60 Hz
Power Consumption (each solenoid)	2.5 watts on DC; 3.6 VA holding on 50/60 Hz
Enclosure Rating	IP 65, IEC 60529
Electrical Connection	Port Size 1/8: MICRO-MINI EN 175301-803 connector Port Size 1/4 & 3/8: EN 175301-803 Industrial Form B connector

Online Version

02/19/20

Temperature	Ambient/Media: 41° to 140°F (5° to 60°C)
Flow Media	Filtered air
Pilot Supply	Internal
Operating Pressure	22.5 to 150 psig (1.5 to 10 bar)
Construction Material	Valve Body: Bar Stock Aluminum Spool: Stainless Steel Seals: Buna-N
Manual Override	Pushbutton, non-locking

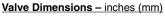




Double Solenoid Pilot Controlled Valves

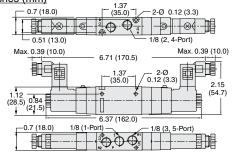
	5-Way 3-Position Valves, Double Solenoid, Spring Center									
Port Size		Power Center		Closed	d Center	Open				
POI t	Size	Valve Model Number#		Valve Mod	lel Number#	Valve Mod	Avg.	Weight lb (kg)		
1, 2, 4	3, 5	NPT Threads	G Threads	NPT Threads G Threads		NPT Threads	G Threads	C _v	ib (kg)	
1/8	1/8	9577K1019W	D9577K1019W	9577K1010W	D9577K1010W	9577K1007W	D9577K1007W	0.7	0.70 (0.32)	
1/4	1/8	9577K2019W	D9577K2019W	9577K2010W	D9577K2010W	9577K2007W	D9577K2007W	1.1	1.26 (0.57)	
3/8	3/8	9577K3019W	D9577K3019W	9577K3010W	D9577K3010W	9577K3007W	D9577K3007W	2.2	1.71 (0.78)	
1/2	1/2	9577K4019W	D9577K4019W	9577K4010W	D9577K4010W	9577K4007W	D9577K4007W	4.5	2.41 (1.09)	
# Vol	# Voltage: W=24 VDC; Z=110-120 VAC, 50/60 Hz, e.g., 9577K1019Z.									
Pow Cent	tor L	4 2 14 W _T 513	/ _T / _M 12	Closed Center	4 2 W T 1 1 3	Open Cente	1 r 1 t 1 1 1	2 3	/ 12	

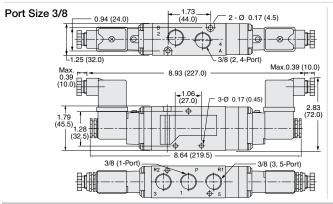


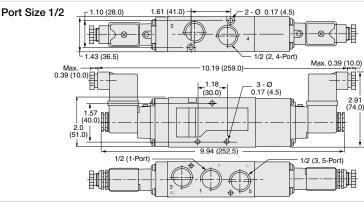


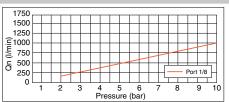
Port Size 1/8

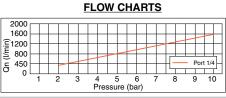
D4

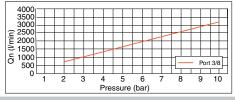












Solenoid and Connector included.

Manifolds and Accessories ordered separately, refer to page D4.12. For other options, consult ROSS.

Valves available with installed prewired connectors, please consult ROSS.

STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Spool	Temperature	Ambient/Media: 41° to 140°F (5° to 60°C)
Mounting Type	In-line or manifold mounted	Flow Media	Filtered air
Solenoids	AC or DC power; Rated for continuous duty	Pilot Supply	Internal
Voltage	24 volts DC: 110 volts AC, 50/60 Hz	Operating Pressure	22.5 to 150 psig (1.5 to 10 bar)
Power Consumption (each solenoid)	2.5 watts on DC; 3.6 VA holding on 50/60 Hz	Construction Material	Valve Body: Bar Stock Aluminum Spool: Stainless Steel
Enclosure Rating	IP 65, IEC 60529		Seals: Buna-N
	Port Size 1/8: MICRO-MINI EN 175301-803 connector	Manual Override	Pushbutton, non-locking
Electrical Confidention	Port Size 1/4 & 3/8: EN 175301-803 Industrial Form B connector		

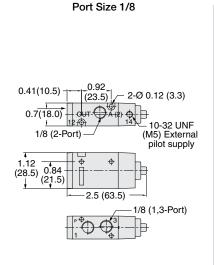


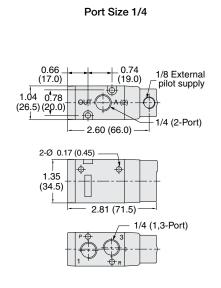
Single Pressure Controlled Valves

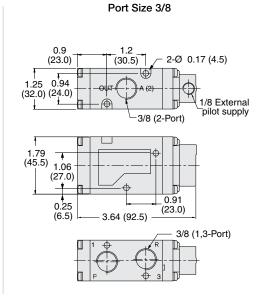
	3-Way 2-Position Valves, Single Pilot, Spring Return									
Po	ort		Normall	y Closed	Normal	ly Open				
Size		Signal Port Thread	Valve Model Number		Valve Mod	Avg.	Weight lb (kg)			
1, 2					NPT Threads	G Threads	0 _v	is (kg)		
1/8	1/8	10-32 UNF	9553K1000	D9553K1000	9554K1000	D9553K1000	0.9	0.26 (0.12)		
1/4	1/4	1/8	9553K2000	D9553K2000	9554K2000	D9553K2000	1.3	0.51 (0.23)		
3/8	3/8 3/8 1/8		9553K3000	D9553K3000	9554K3000	D9553K3000	2.6	0.86 (0.39)		
	Nor	mally Closed	12	2 / 4	Normally Open	10	2			



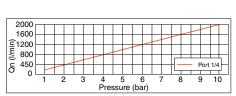
Valve Dimensions - inches (mm)



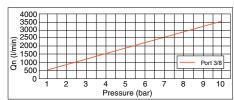




1500 1250 (SE 1000 (SE 1000 (SE 500 (SE 500 Pressure (bar)



FLOW CHARTS



Manifolds and Accessories ordered separately, refer to page D4.11. For other options, consult ROSS.

	STANDARD SPECIFICATIONS (for valves on this page):									
Construction Design	Spool	On anoting Dragging	22.5 to 150 psig (1.5 to 10 bar)							
Mounting Type	In-line or manifold mounted	nifold mounted Operating Pressure								
Temperature	Ambient/Media: 41° to 140°F (5° to 60°C)		Valve Body: Bar Stock Aluminum							
Flow Media	Filtered air	Construction Material	Spool: Stainless Steel Seals: Buna-N							
Pilot Supply	External		Pushbutton, non-locking							





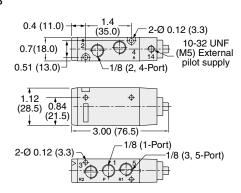
Single Pilot Pressure Controlled Valves

	5-Way 2-Position Valves, Single Pilot, Spring Return										
Port Size		Signal Port	Valve Mod	lel Number	Avg.	Weight					
1, 2, 4	3, 5	Thread	NPT Threads	G Threads	C _v	lb (kg)	4 2				
1/8	1/8	1/8	9556K1001	D9556K1001	0.9	0.26 (0.12)	14 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
1/4	1/8	1/8	9556K2001	D9556K2001	1.3	0.48 (0.22)	513				
3/8	3/8	1/8	9556K3001	D9556K3001	2.6	1.02 (0.46)	513				
1/2	1/2	1/8	9556K4001	D9556K4001	4.5	1.39 (0.63)					

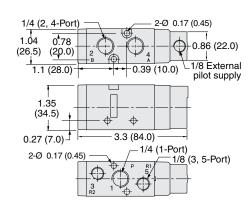


Valve Dimensions - inches (mm)

Port Size 1/8

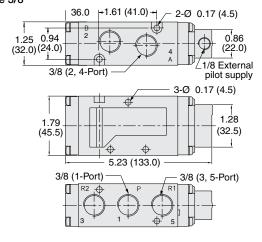


Port Size 1/4

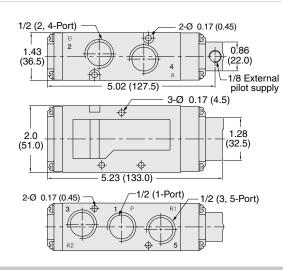


Port Size 3/8

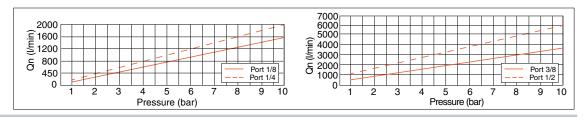
D4



Port Size 1/2



FLOW CHARTS



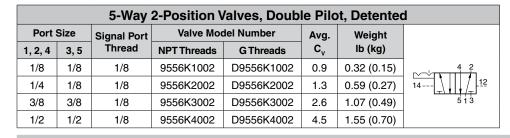
Manifolds and Accessories ordered separately, refer to page D4.12. For other options, consult ROSS.

	STANDARD SPECIFICATIONS (for valves on this page):									
Construction Design	Construction Design Spool		22.5 to 150 psig (1.5 to 10 bar)							
Mounting Type	In-line or manifold mounted		Pilot supply pressure must be equal to or greater than inlet pressure.							
Temperature	Ambient/Media: 41° to 140°F (5° to 60°C)	Construction Material	Valve Body: Bar Stock Aluminum Spool: Stainless Steel							
Flow Media	Filtered air		Seals: Buna-N							
Pilot Supply	External	Manual Override	Pushbutton, non-locking							



D4

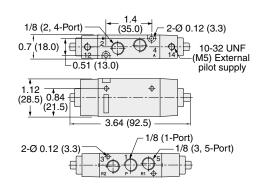
Double Pressure Controlled Valves



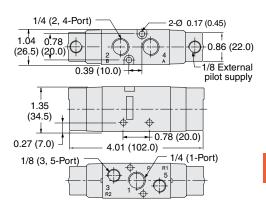


Valve Dimensions - inches (mm)

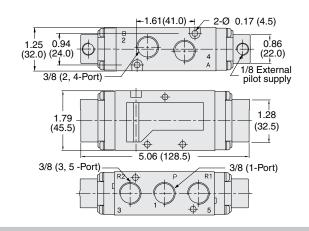
Port Size 1/8



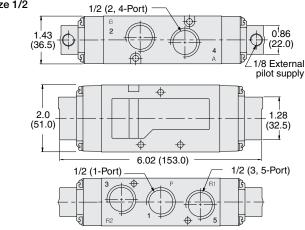
Port Size 1/4



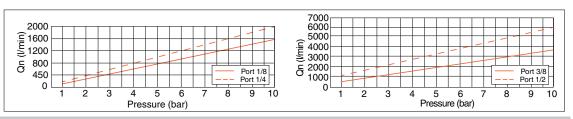
Port Size 3/8



Port Size 1/2



FLOW CHARTS



Manifolds and Accessories ordered separately, refer to page B4.12. For other options, consult ROSS.

	STANDARD SPECIFICATIONS (for valves on this page):									
Construction Design	Spool	Operating Pressure	22.5 to 150 psig (1.5 to 10 bar)							
Mounting Type	In-line or manifold mounted	· · · · · · · · · · · · · · · · · · ·	Pilot supply pressure must be equal to or greater than inlet pressure.							
Temperature	Ambient/Media: 41° to 140°F (5° to 60°C)	Construction Material	Valve Body: Bar Stock Aluminum Spool: Stainless Steel							
Flow Media	Filtered air		Seals: Buna-N							
Pilot Supply	External	Manual Override	Pushbutton, non-locking							

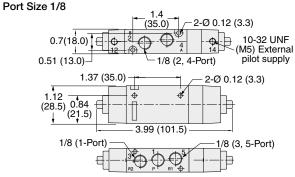




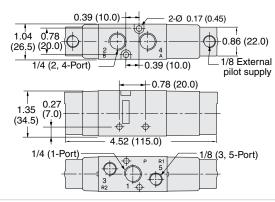
	5-Way 3-Position Valves, Double Pilot, Spring Center											
Da	+ 0		Signal	Power	Center	Closed	d Center	Open	Center	Avg.	Weight	
PO	Port		Port	Valve Mod	Valve Model Number		Valve Model Number		Valve Model Number			
1, 2	2, 4	3, 5	Thread	NPT Threads	G Threads	NPT Threads	G Threads	NPT Threads	G Threads	C _v	lb (kg)	
1/	8	1/8	10-32 UNF	9557K1019	D9557K1019	9557K1010	D9557K1010	9557K1007	D9557K1007	0.7	0.38 (0.17)	
1/-	4	1/8	1/8	9557K2019	D9557K2019	9577K2010	D9577K2010	9557K2007	D9557K2007	1.1	0.51 (0.23)	
3/	8	3/8	1/8	9557K3019	D9557K3019	9557K3010	D9557K3010	9557K3007	D9557K3007	2.2	1.39 (0.63)	
1/3	2	1/2	1/8	9557K4019	D9557K4019	9557K4010	D9557K4010	9557K4007	D9557K4007	3.4	1.98 (0.90)	
	Power 14 7 12 Closed 14 7 12 Center Center Center 513 Conter 513											





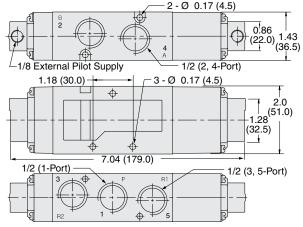


Port Size 1/4

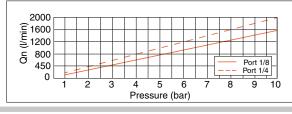


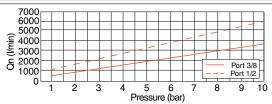
Port Size 3/8 1.61(41.0) -2-Ø 0.17 (4.5) 0.94 0.80 (22_i0)(32_{.0}) 0.86 ∠1/8 External Pilot Supply 3/8 (2, 4-Port) ш Φ 1.79 1.28 (45.5) (32,5) 7.04 (179.0) 3/8 (1-Port) 3/8 (3, 5 -Port)





FLOW CHARTS





Manifolds and Accessories ordered separately, refer to page D4.12. For other options, consult ROSS.

	STANDARD SPECIFICATIONS (for valves on this page):									
Construction Design	Spool	Operating Pressure	30 to 150 psig (2 to 10 bar)							
Mounting Type	In-line or manifold mounted	Operating Fressure	Pilot supply pressure must be equal to or greater than inlet pressure.							
Temperature	Ambient/Media: 41° to 140°F (5° to 60°C)		Valve Body: Bar Stock Aluminum							
Flow Media	Media Filtered air		Spool: Stainless Steel Seals: Buna-N							
Pilot Supply	External	Manual Override	Pushbutton, non-locking							



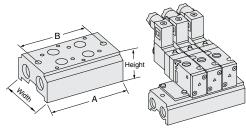
for 3/2- Spring Return or Detented Valves

Manifold Bases for 3/2 Valves

Valve Port Size	Base Port Size	Base 2 Valves Unit		4 Valv	4 Valves Unit		6 Valves Unit		es Unit	10 Valves Unit	
		Port Size Model Number		Model Number M		Model	Model Number		Model Number		Number
1, 2, 3	1, 3	NPT Threads	G Threads	NPT Threads	G Threads	NPT Threads	G Threads	NPT Threads	G Threads	NPT Threads	G Threads
1/8	1/4	1472H91	D1472H91	1474H91	D1474H91	1476H91	D1476H91	1478H91	D1478H91	1480H91	D1480H91
1/4	1/4	1492H91	D1492H91	1494H91	D1494H91	1496H91	D1496H91	1498H91	D1498H91	1500H91	D1500H91

Valve	Base	_	Numbers of Valves Unit							
Port Size	Port Size	Base Dimensions	2	4	6	8	10			
1, 2, 3	1, 3	Difficitions	Dimensions – inches (mm)							
	1/4	Height	0.98 (25)	0.98 (25)	0.98 (25)	0.98 (25)	0.98 (25)			
1/8		Length (A)	2.32 (59)	3.82 (97)	5.31 (135)	6.81 (173)	8.31 (211)			
1/0		Length (B)	1.85 (47)	3.35 (85)	4.84 (123)	6.34 (161)	7.83 (199)			
		Width	1.65 (42)	1.65 (42)	1.65 (42)	1.65 (42)	1.65 (42)			
		Height	1.06 (27)	1.06 (27)	1.06 (27)	1.06 (27)	1.06 (27)			
1/4	1/4	Length (A)	3.03 (77)	5.16 (131)	7.28 (185)	9.41 (239)	11.53 (293)			
1/4	1/4	Length (B)	2.60 (66)	4.72 (120)	6.85 (174)	8.98 (228)	11.10 (282)			
		Width	1.97 (50)	1.97 (50)	1.97 (50)	1.97 (50)	1.97 (50)			







MANIFOLD	Valve Port Size	Kit Number	Description
BLANKING KITS	1/8	1813H77	Manifold blanking kits include blanking
	1/4	1814H77	plate, manifold gasket and mounting bolts.



ACCESSORIES & OPTIONS

	Connector	Valve	Model Number*					
	Form	Form Port Size						
Electrical	EN 175301-803 MICRO-MINI	1/8	1766L77	1780L77				
Connectors	EN 175301-803 Industrial Form B connector	1/4, 3/8	1767L77	1781L77				
	*3-Pin Electrical Connectors with LED & Surge Suppressor							



Silencers

Port	Thread	Model Number			Dimension	s inches (mm)	Weight			
Size	Туре	NPT Threads	R/Rp Threads	C _v	Width	Length	ength lb (kg)			
1/8	Male	5500A1003	D5500A1003	1.2	0.9 (21)	2.2 (55)	0.1 (0.1)	, T_		
1/4	Male	5500A2003	D5500A2003	2.1	0.9 (21)	2.2 (55)	0.1 (0.1)			
3/8	Male	5500A3013	D5500A3013	2.7	0.9 (21)	2.2 (55)	0.1 (0.1)			
Pressi	Pressure Range: 0 to 290 psig (0 to 20 bar) maximum. Flow Media: Filtered air.									



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





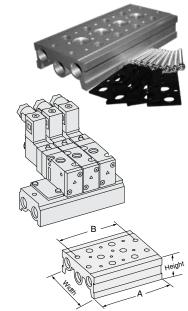
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Manifold Bases for 5/2 & 5/3 Valves

Valv	/e	Base	Base 2 Valves Unit		4 Valv	4 Valves Unit		6 Valves Unit		8 Valves Unit		10 Valves Unit	
Port Size		Port Size	Model Number		Model Number		Model Number		Model Number		Model Number		
1, 2, 4	3, 5	1, 3, 5	NPT Threads	G Threads	NPT Threads	G Threads	NPT Threads	G Threads	NPT Threads	G Threads	NPT Threads	G Threads	
1/8	1/8	1/4	1392H91	D1392H91	1394H91	D1394H91	1396H91	D1396H91	1398H91	D1398H91	1390H91	D1390H91	
1/4	1/8	1/4	1412H91	D1412H91	1414H91	D1414H91	1416H91	D1416H91	1418H91	D1418H91	1420H91	D1420H91	
3/8	3/8	3/8	1432H91	D1432H91	1434H91	D1434H91	1436H91	D1436H91	1438H91	D1438H91	1440H91	D1440H91	
1/2	1/2	1/2	1652H91	D1652H91	1654H91	D1654H91	1656H91	D1656H91	1658H91	D1658H91	1650H91	D1650H91	

Valve Port Size		Base Port Size	Base Dimensions	Numbers of Valves Unit					
				2	4	6	8	10	
1, 2, 4	3, 5	1, 3, 5	Difficitions	Dimensions – inches (mm)					
1/8	1/8	1/4	Height	1.02 (26)	1.02 (26)	1.02 (26)	1.02 (26)	1.02 (26)	
			Length (A)	2.32 (59)	3.81 (97)	5.31 (135)	6.81 (173)	8.31 (211)	
			Length (B)	1.85 (47)	3.35 (85)	4.84 (123)	6.34 (161)	7.83 (199)	
			Width	4.33 (110)	4.33 (110)	4.33 (110)	4.33 (110)	4.33 (110)	
1/4	1/8	1/4	Height	1.06 (27)	1.06 (27)	1.06 (27)	1.06 (27)	1.06 (27)	
			Length (A)	3.29 (83.5)	5.45 (138.5)	7.62 (193.5)	9.78 (248.5)	11.95 (303.5)	
			Length (B)	2.81 (71.5)	4.98 (126.5)	7.15 (181.5)	9.31 (236.5)	7.94 (201.5)	
			Width	2.68 (68)	2.68 (68)	2.68 (68)	2.68 (68)	2.68 (68)	
3/8	3/8	3/8	Height	1.18 (30)	1.18 (30)	1.18 (30)	1.18 (30)	1.18 (30)	
			Length (A)	3.66 (93)	6.26 (159)	8.86 (225)	11.46(291)	14.05 (357)	
			Length (B)	3.15 (80)	5.75 (146)	8.35 (212)	10.94 (278)	13.54 (344)	
			Width	3.43 (87)	3.43 (87)	3.43 (87)	3.43 (87)	3.43 (87)	
1/2	1/2	1/2	Height	1.32 (33.5)	1.32 (33.5)	1.32 (33.5)	1.32 (33.5)	1.32 (33.5)	
			Length (A)	4.05 (103)	7.01 (178)	9.96 (253)	12.91 (328)	15.87 (403)	
			Length (B)	3.46 (88)	6.42 (163)	9.37 (238)	12.32 (313)	15.27 (388)	
			Width	3.86 (98)	3.86 (98)	3.86 (98)	3.86 (98)	3.86 (98)	



	Valve Port Size	Model Number		
MANUEOLD	1/8	1806H77		
MANIFOLD BLANKING KITS	1/4	1807H77		
BLANKING KITS	3/8	1808H77		
	1/2	1809H77		

Manifold blanking kits include blanking plate, manifold gasket and mounting bolts.



ACCESSORIES & OPTIONS

	Connector Form	Valve	Model Number*			
Electrical	Connector Form	Port Size	24 Volts DC	110 Volts AC		
	EN 175301-803 Form A MICRO-MINI	1/8	1766L77	1780L77		
Connectors	EN 175301-803 Industrial Form B connector	1/4, 3/8, 1/2	1767L77	1781L77		
	*3-Pin Electrical Connectors with LED & Sur	ors with LED & Surge Suppressor				



Silencers

D4

Port	Thread	Model Number		Avg.	Dimensions inches (mm)		Weight	
Size	Туре	NPT Threads	R/Rp Threads	C _v	Width	Length	lb (kg)	
1/8	Male	5500A1003	D5500A1003	1.2	0.9 (21)	2.2 (55)	0.1 (0.1)	
1/4	Male	5500A2003	D5500A2003	2.1	0.9 (21)	2.2 (55)	0.1 (0.1)	
3/8	Male	5500A3013	D5500A3013	2.7	0.9 (21)	2.2 (55)	0.1 (0.1)	
1/2	Male	5500A4003	D5500A4003	2.7	1.3 (32)	3.6 (92)	0.2 (0.1)	
Pressure Range: 0 to 290 psig (0 to 20 bar) maximum. Flow Media: Filtered air.							•	



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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.
- 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. Safety 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 safety 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®, N06 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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Other literature is available for engineering, maintenance, and service requirements.

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