

DIRECTIONAL CONTROL ISO 5599-2 VALVES W65 SERIES

PRODUCT CATALOG





ISO 5599-2 Valves W65 Series Product Overview

The ROSS® ISO 5599-2 valves W65 Series are base mounted spool and sleeve valves that conform to the ISO standards 5599-2 mounting interface. The W65 series has a base electrical connector which eliminates the need to disconnect wires to remove the valve. Manifold bases feature the option for modular plug-together electrical connections terminating at end plates, offering a 25-pin D-sub or 19-pin round interface. Automotive connector option mounted to individual conduit cover. The ISO Valves W65 Series are adaptable to Serial Bus System.

These ISO Size 1, 2, and 3 valves are available as, 2- and 3-position, 5-ported 4-way solenoid pilot or pressure controlled valves with either internal or external pilot supply.

Solenoid Pil	Solenoid Pilot Controlled			
Single Solenoid	Double Solenoid	Pressure Controlled		

Illustration examples.

Spool and Sleeve Design

Mounting Options

Pilot Supply

Spool and Sleeve construction for high dirt tolerance; there are no seals to wear out
Individual sub-base or manifold base mounting
Internal or external

Pilot Operation Provides high shifting force with low power consumption

		1 51	Availabl	e Inlet P	ort Sizes	S		i	unction	s			
		10					5/2		5/3				
Actuation	ISO Size	1/8	1/4	3/8	1/2	3/4	Single	Double	Power Center	Closed Center	Open Center	Maximum Flow C _v	Page
	1	•	•	•			•	•	•	•	•	0.8	2 – 3 4 – 9
Solenoid Control	2			•	•		•	•	•	•	•	1.9	
	3				•	•	•	•	•	•	•	3.8	
	1	•	•	•			•	•	•	•	•	0.8	
Pressure Control	2			•	•		•	•	•	•	•	1.9	2 – 3 10 – 15
	3				•	•	•	•	•	•	•	3.8	10 10
Sub-Bases													16
Manifold Stations, End S	Stations												17
Manifold Accessories													18 – 24

Specifications



	S				
	Function		5/2 and 5/3 Valve		
	Construction Design		Spool and Sleeve		
GENERAL	Actuation		Electrical – Solenoid Pilot Co Pneumatic – Pressure Contro		
	Mounting		Base Mounted		
	Connection		Threaded; G, NPT		
	Manual Override		Flush; metal, non-locking		
		Solenoid Pilot	Ambient	40° to 120°F (4° to 50°C)	
	Townservetows	Controlled	Media	40° to 175°F (4° to 80°C)	
	Temperature	Pressure Controlled	Ambient	400 to 17505 (40 to 0000)	
		Pressure Controlled	Media	40° to 175°F (4° to 80°C)	
OPERATING	PERATING Flow Media		Filtered air		
CONDITIONS	Operating Pressure		ISO Size 1	30 to 150 psig (2 to 10 bar)	
			ISO Size 2 & 3	15 to 150 psig (1 to 10 bar)	
			AllI sizes also available up to 232 psif (16 bar)		
	Pilot Supply Pressure		Minimum 30 psig (2 bar)		
	External Pilot Supply		Must be equal to or greater than inlet pressure		
	Solenoids	115	Rated for continuous duty		
	Operating Voltage (each solenoid)		24 volts DC 110 volts AC, 50 Hz, 120 volts AC 50/60 Hz 230-240 volts AC, 60 Hz		
DATA FOR SOLENOID PILOT	Power Consumption		24 V DC 110-120 V AC 230-240 V AC	5.8 nominal, 6.5 watts maximum watts	
	Enclosure Rating		IP65, IEC 60529		
	Electrical Connection		DIN EN 175301-803 Form A		
	Valve Body	lists	Cast Aluminum		
CONSTRUCTION MATERIAL	Spool	-secial.	Stainless Steel		
	Seals	54	Buna-N		

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

PRODUCT CREDENTIALS						
CSA Certificate of Compliance	CE Conformity Declaration	EAC Conformity Declaration	CRN Certification			
⊕ us	C€	ERC	Available for appropriately tested valves			

5/2 Single Solenoid Pilot Controlled Valves

SOLENOID PILOT CONTROLLED VALVES 5-Way 2-Position Valves Valve Model Number* Size Voltage 230 V AC 24 V DC 110-120 V AC IS0 Port W6576A2401W W6576A2401Z W6576A2401Y 1/8 - 3/8 2 3/8 - 1/2 W6576A3401W W6576A3401Z W6576A3401Y 1/2 - 3/4W6576A4401W W6576A4401Z W6576A4401Y

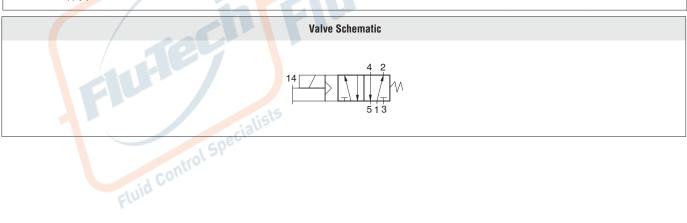
For other voltages, consult ROSS.

The W65 Series has a base electrical connector which eliminates the need to disconnect wires to remove the valve.

This eliminates drop cords, simplifies maintenance and connection to Serial Data Communication systems.

Size	•	Flow C _V	Ave	Average Response Constants*			
ISO	Port	1-2 M		F		Weight Ib (kg)	
180	ruit	1-2		1-2	2-3		
1	1/8 - 3/8	1.0	29	3.5	4.9	1.5 (0.7)	
2	3/8 - 1/2	2.3	41	1.5	2.4	2.0 (1.0)	
3	1/2 - 3/4	3.4	51	0.8	1.1	3.5 (1.6)	

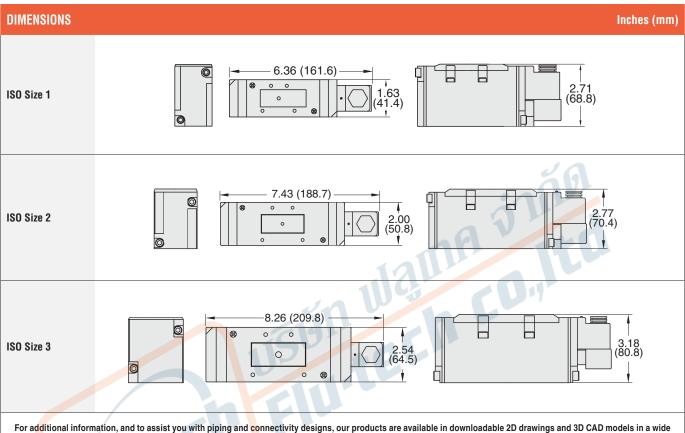
Valve Response Time — Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.



^{*} Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages, for use with or without serial bus system.



5/2 Single Solenoid Pilot Controlled Valves



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Fluid Control Specialists

5/2 Double Solenoid Pilot Controlled Valves

SOLENOID PILOT CONTROLLED VALVES 5-Way 2-Position Valves Valve Model Number* Size Voltage 230 V AC 24 V DC 110-120 V AC IS0 Port W6576A2407W W6576A2407Z W6576A2407Y 1/8 - 3/8 2 3/8 - 1/2 W6576A3407W W6576A3407Z W6576A3407Y 1/2 - 3/4W6576E4407W W6576E4407Z W6576E4407Y

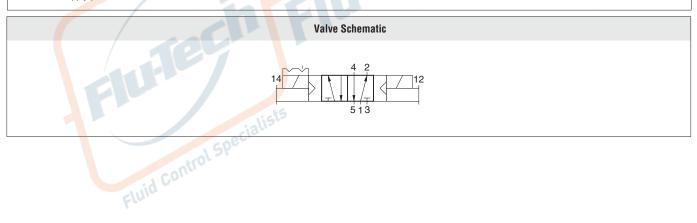
For other voltages, consult ROSS.

The W65 Series has a base electrical connector which eliminates the need to disconnect wires to remove the valve.

This eliminates drop cords, simplifies maintenance and connection to Serial Data Communication systems.

Siz	е	Flow C _V	Ave	rage Response Con <mark>st</mark>	Weight	
ISO	Port	1-2	M			Weight Ib (kg)
180	FUIL	1-2		1-2	2-3	
1	1/8 - 3/8	1.0	17	3.5	4.9	2.0 (1.0)
2	3/8 - 1/2	2.3	20	1.5	2.5	2.5 (1.2)
3	1/2 - 3/4	3.4	20	0.8	1.1	4.0 (1.9

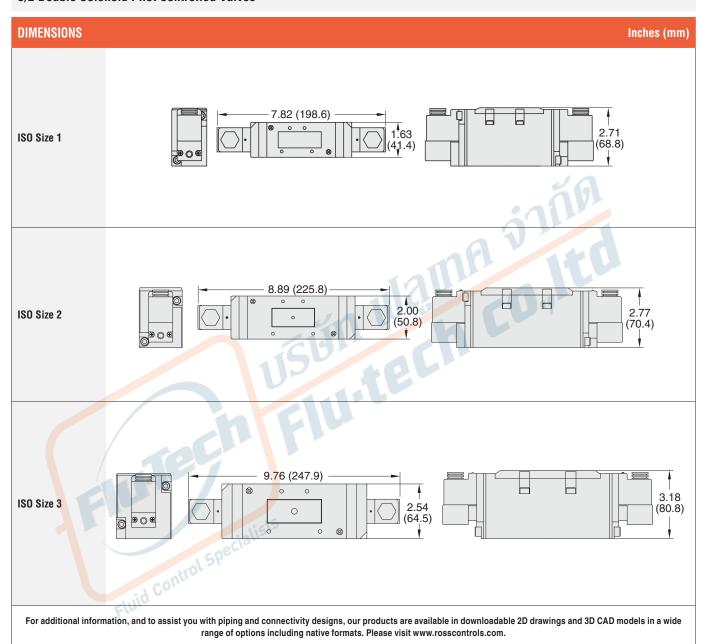
Valve Response Time — Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.



^{*} Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages, for use with or without serial bus system.



5/2 Double Solenoid Pilot Controlled Valves



5/3 Double Solenoid Pilot Controlled Valves

SOLENOID PILOT CONTROLLED VALVES 5-Way 2-Position Valves Valve Model Number* Size **Center Position** Voltage 110-120 V AC IS0 Port 24 V DC 230 V AC 1/4 - 3/8W6577A2902W W6577A2902Z W6577A2902Y Power Center 2 3/8 - 1/2W6577A3901W W6577A3901Z W6577A3901Y 3 3/8 - 3/4W6577A4900W W6577A4900Z W6577A4900Y 1 1/4 - 3/8W6577A2401W W6577A2401Z W6577A2401Y 2 **Closed Center** 3/8 - 1/2W6577A3401W W6577A3401Z W6577A3401Y 3 3/8 - 3/4W6577A4401W W6577A4401Z W6577A4401Y 1 1/4 - 3/8W6577A2407W W6577A2407Z W6577A2407Y 2 W6577A3407W W6577A3407Z W6577A3407Y Open Center 3/8 - 1/23 3/8 - 3/4W6577A4407W W6577A4407Z W6577A4407Y

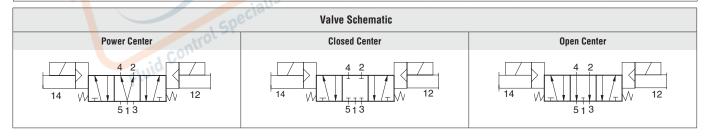
For other voltages, consult ROSS.

The W65 Series has a base electrical connector which eliminates the need to disconnect wires to remove the valve.

This eliminates drop cords, simplifies maintenance and connection to Serial Data Communication systems.

	Size	Flow C _V	Average Response Constants*			Woight
180	Deut	1-2	NA.	F		- Weight Ib (kg)
ISO	Port	1-2	M	1-2	2-3	, -/
1	1/8 - 3/8	1. <mark>0</mark>	30	3.5	5.0	2.0 (1.0)
2	3/8 - 1/2	2.3	40	1.5	2.5	2.5 (1.2)
3	1/2 - 3/4	3.4	50	0.8	1.1	4.0 (1.9)

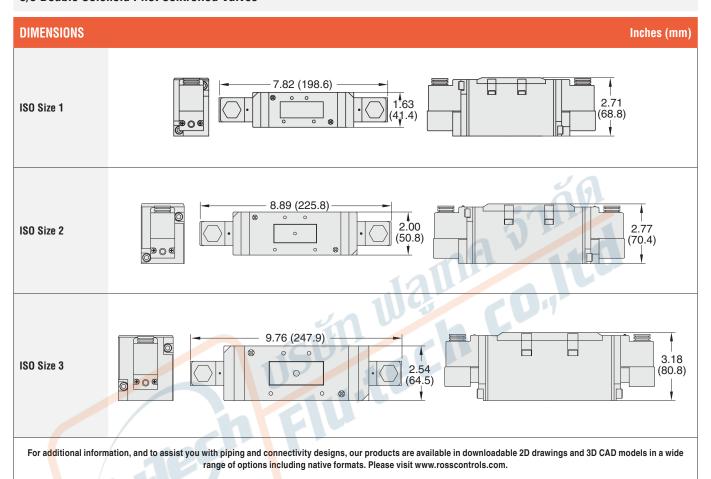
Valve Response Time — Response Time (msec) = $M + (F \cdot V)$. This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.



^{*} Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages, for use with or without serial bus system.



5/3 Double Solenoid Pilot Controlled Valves





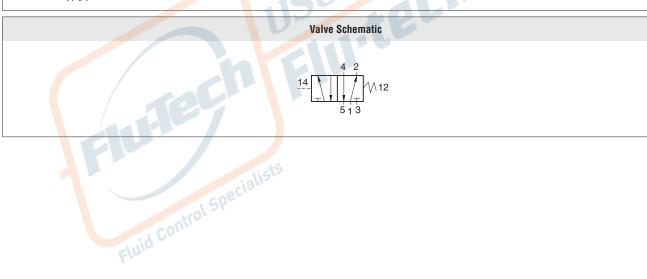
5/2 Single Pressure Controlled Valves

PRESSURE CONTROLLED VALVES 5-Way 2-Position Valves Size Valve Model Number* IS0 Port 1 1/8 - 3/8 W6556A2411 2 3/8 - 1/2W6556A3411 3 1/2 - 3/4 W6556A4411 For other voltages, consult ROSS.

^{*} Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages, for use with or without serial bus system.

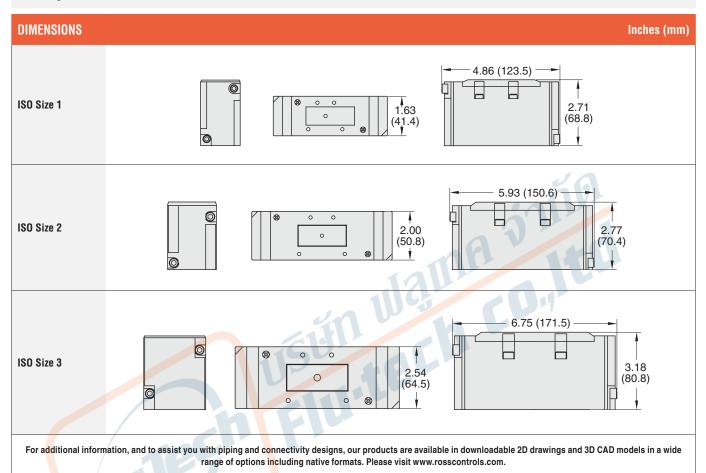
Size	e	Flow C _V	Ave	rage Response Const	Weight	
ISO	Port	1-2	10		Q FV	
130	roit	1-2	1-2 M	1-2	2-3	
1	1/8 - 3/8	1.0	29	3.5	4.9	0.8 (0.4)
2	3/8 - 1/2	2.3	41	1.5	2.4	1.5 (0.7)
3	1/2 - 3/4	3.4	51	0.8	1.1	3.0 (1.4)

Valve Response Time — Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.





5/2 Single Pressure Controlled Valves





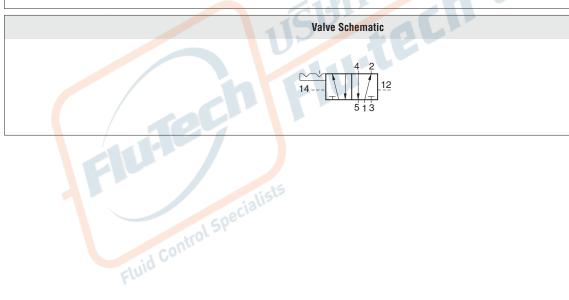
5/2 Double Pressure Controlled Valves

PRESSURE CONTROLLED VALVES	3	5-Way 2-Position Valves
	Size	Valve Model Number*
ISO	Port	- Valve model Number
1	1/8 - 3/8	W6556A2417
2	3/8 - 1/2	W6556A3417
3	1/2 - 3/4	W6556A4417

^{*} Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages, for use with or without serial bus system.

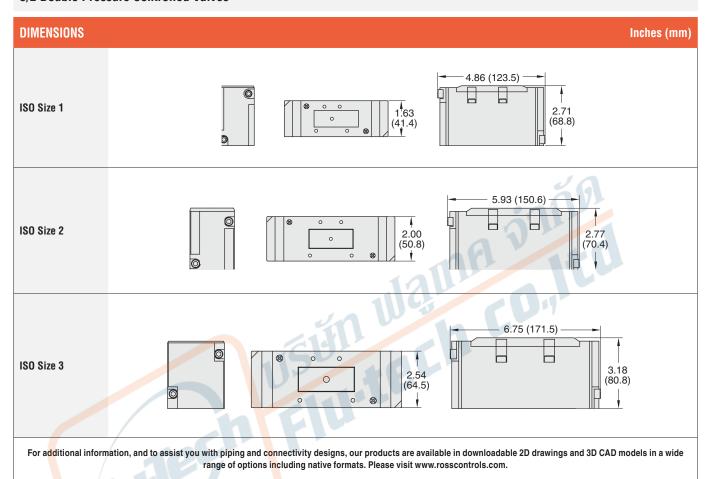
Size	e	Flow C _V	Ave	rage Response Const	Weight		
ISO	Port	1-2	М	I	F		
130	Full	1-2	1-2 IVI	1-2	2-3	lb (kg)	
1	1/8 - 3/8	1.0	17	3.5	5.0	0.8 (0.4)	
2	3/8 - 1/2	2.3	20	1.5	2.5	1.5 (0.7)	
3	1/2 - 3/4	3.4	20	0.8	1.1	3.0 (1.4)	

Valve Response Time — Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.





5/2 Double Pressure Controlled Valves





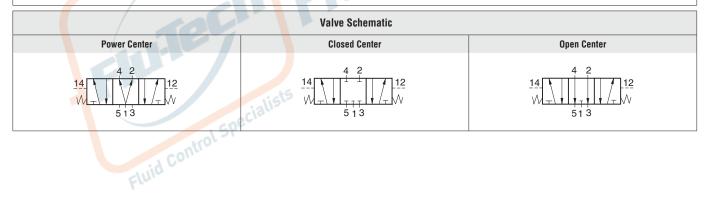
5/3 Double Pressure Controlled Valves

PRESSURE CONTROLLED VALVES			5-Way 3-Position Valves
Center Position	:	Size	Valve Model Number*
Genter Position	ISO	Port	24 V DC
Power Center	2	3/8 - 1/2	W6557A3901
Power Genter	3	1/2 - 3/4	W6557A4900
	1	1/8 - 3/8	W6557A2411
Closed Center	2	3/8 - 1/2	W6557A3411
	3	1/2 - 3/4	W6557A4411
	1	1/8 - 3/8	W6557A2417
Open Center	2	3/8 - 1/2	W6557A3417
	3	1/2 - 3/4	W6557A4417

^{*} Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages, for use with or without serial bus system.

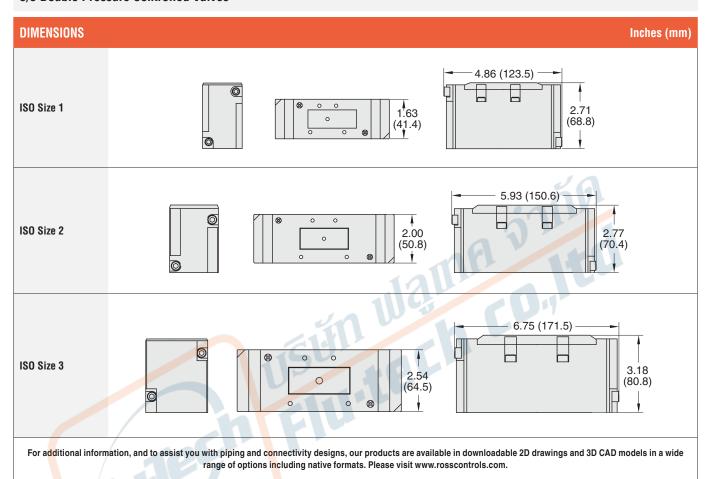
Size		Flow Cv	Ave	Wainh			
ISO	Port	1-2	M	F D'7		Weight Ib (kg)	
180	ruit	1-2	M	1-2	2-3		
1	1/8 - 3/8	1.0	30	3.5	5.0	0.8 (0.4)	
2	3/8 - 1/2	2.3	40	1.5	2.5	1.5 (0.7)	
3	1/2 - 3/4	3.4	50	0.8	1.1	3.0 (1.4)	

Valve Response Time − Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.





5/3 Double Pressure Controlled Valves



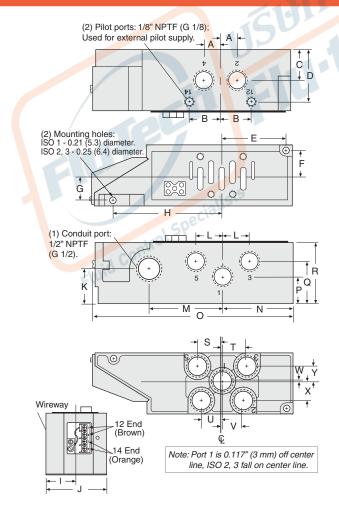


Sub-Bases – Side and Bottom-Ported

SIDE AND BOTTOM-PORTED SUB-BASES						
Size Port Location Model Number						
ISO	Port		G Thread	NPT Thread		
1	3/8	Side/Bottom	D950N91	972N91		
0	1/2	Side	D953N91	953N91		
2	1/2	Side/Bottom	_	954N91		
3	3/4	Side/Bottom	D958N91	_		



DIMENSIONS Inches (mm)



	ISO Size							
	1	2	3					
Α	0.5 (13)	0.6 (16)	0.8 (21)					
В	1.0 (26)	1.3 (33)	1.8 (45)					
С	0.8 (21)	1.2 (31)	1.3 (34)					
D	1.5 (38)	1.9 (49)	2.7 (70)					
Е	1.6 (39)	2.3 (57)	2.5 (63)					
F	0.9 (23)	1.1 (29)	1.5 (39)					
G	0.9 (23)	1.1 (29)	1.4 (36)					
Н	3.6 (92)	4.3 (108)	5.4 (137)					
I	1.1 (29)	1.4 (35)	1.8 (45)					
J	2.3 (58)	2.8 (70)	3.5 (90)					
K	0.9 (24)	1.5 (37)	1.8 (47)					
L	0.9 (22)	1.1 (27)	1.5 (38)					
M	2.4 (60)	3.0 (75)	4.1 (104)					
N	1.8 (46)	2.5 (64)	2.7 (69)					
0	6.5 (164)	7.8 (197)	9.3 (235)					
Р	0.8 (21)	1.1 (28)	1.3 (34)					
Q	1.3 (34)	1.7 (44)	2.0 (51)					
R	1.9 (47)	2.4 (60)	3.3 (85)					
S	0.8 (21)	1.1 (27)	1.6 (42)					
Т	1.1 (27)	1.1 (27)	1.6 (42)					
U	0.5 (13)	0.9 (22)	1.1 (27)					
V	0.6 (15)	0.9 (22)	1.1 (27)					
W	0.3 (8)	0.1 (3)	0.8 (20)					
Χ	0.7 (17)	0.8 (20)	0.8 (20)					
Υ	0.6 (16)	0.9 (20)	0.8 (20)					

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Manifold Stations, End Stations



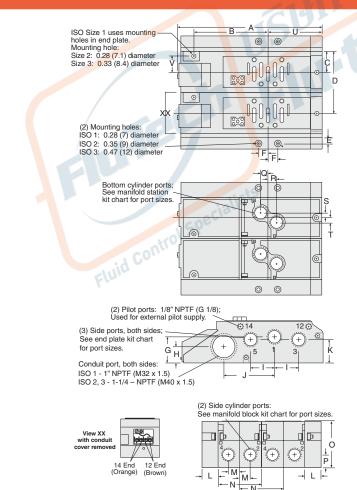
MANIFOLD STATION ASSEMBLY						
	Size	Dowt Location	Model Number*			
ISO	Port	Port Location	G Thread	NPT Thread		
1	3/8	End/Bottom	D960N91	960N91		
2	1/2	End/Bottom	D962N91	962N91		
3	3/4	End/Bottom	D964N91	964N91		

^{*} Includes a manifold assembly, socket head screws, nuts and seals.

Assembled manifolds also available, consult ROSS.

END STATIONS					
Size Model Number*					
ISO Port	G Thread	NPT Thread			
1 3/8	D493N86	4 <mark>93N86</mark>			
2 1/2	D494N86	494N86			
3 3/4	D495N86	495N86			

DIMENSIONS Inches (mm)



	ISO Size					
	1	2	3			
Α	7.2 (183)	9.0 (229)	10.6 (270)			
В	4.9 (125)	6.0 (152)	7.1 (180)			
С	1.0 (26)	1.3 (33)	1.7 (43)			
D	3.1 (79)	3.9 (100)	5.1 (128)			
Е	0.6 (14)	0.6 (16)	0.6 (15)			
F	0.6 (14)	0.7 (17)	1.0 (26)			
G	1.3 (34)	1.7 (42)	1.8 (46)			
Н	1.0 (25)	1.2 (30)	1.2 (31)			
ı	1.1 (28)	1.4 (35)	2.1 (52)			
J	2.5 (64)	3.1 (79)	4.1 (104)			
K	1.2 (31)	1.6 (40)	1.7 (42)			
L	0.9 (22)	1.0 (25)	1.2 (30)			
M	0.5 (13)	0.6 (16)	0.8 (21)			
N	2.1 (53)	2.6 (67)	3.4 (86)			
0	2.2 (55)	2.6 (66)	3.1 (78)			
Р	0.6 (16)	0.9 (22)	0.8 (20)			
Q	0.5 (13)	0.6 (15)	0.7 (18)			
R	0.5 (13)	0.6 (15)	0.8 (21)			
S	0.3 (7)	0.3 (8)	0.5 (13)			
T	0.3 (7)	0.3 (8)	0.5 (12)			
U	2.0 (51)	2.8 (67)	3.1 (79)			
V		1.0 (26)	1.3 (31)			

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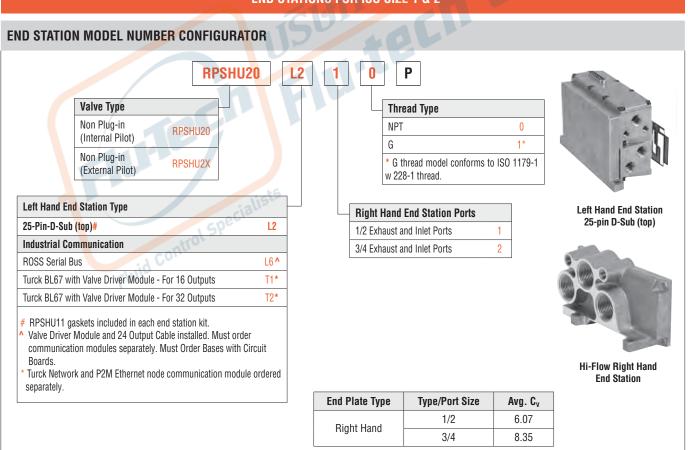
Interconnect, Double Address

MANIFOLD BASES FOR ISO SIZE 1 & 2

MANIFOLD MODEL NUMBER CONFIGURATOR RPSHU11 P 5 5 1 ISO 15407-1 **Gasket Options** 1, 3, 5 Ports Open and Pilots Open ISO 15407-1 Size **Port Size** 1, 3, 5 Ports Closed and Pilots Open 2 3/8 NPT 5 ISO Size 1 1 Port Closed, 3, 5 Ports Open and Pilots Closed 3 3/8 BSPP 6 1 Port Open, 3, 5 Ports Closed and Pilots Open 4 1/2 NPT 7 ISO Size 2 1, 3, 5 Ports Open and Pilots Closed 8 1/2 BSPP 1, 3, 5 Ports Closed and Pilots Closed 6 1 Port Closed, 3, 5 Ports Open and Pilots Closed **Circuit Board Address Configuration** 1 Port Open, 3, 5 Ports Closed and Pilots Open Interconnect, Single Address J

END STATIONS FOR ISO SIZE 1 & 2

M





BLANK STATIONS

Blank Stations

ISO Size	Model Number*			
1	RPS4034CP			
2	RPS4134CP			
3	RPS4234CP			
* In dude - Division Division Division Date - October and Manualizar Date				



INTERPOSED FLOW CONTROL

Interposed Flow Control

ISO Size	Port Size	Model N	lumber*
100 0.120		G Thread	NPT Thread
1	1/8"	RPS401501CP	RPS401500CP
2	1/8"	RPS411501CP	RPS411500CP
3	1/8"	RPS421501CP	RPS421500CP

^{*} Includes: Pilot Port Access Plate, Gasket and Mounting Studs.



GASKET KITS

	Pilots Status	Diagram Reference	Description	Kit Number
		1	Supply & Exhaust & Pilots Open	RPSHU11P
	Dilata Onesad	2 Supply Closed, Exhaust & Pilots Open		RPSHU12P
Gasket Kits	Pilots Opened	3	Supply & Exhaust Closed, Pilots Open	RPSHU13P
Manif <mark>ol</mark> d to Manifold		4	Supply & Pilots Open, Exhaust Closed	RPSHU14P
		5	Supply & Exhaust Open, Pilots Closed	RPSHU15P
	Dilata Black of	6	Supply & Pilots Closed, Exhaust Open	RPSHU16P
	Pilots Blocked	7	Supply & Exhaust & Pilots Closed	RPSHU17P
		8	Supply Open, Exhaust & Pilots Closed	RPSHU18P



1 – Supply & Ex<mark>haust & Pi</mark>lots Open



3 - Supply & Exhaust Closed, Pilots Open



5 - Supply & Exhaust Open, Pilots Closed



7 - Supply & Exhaust & Pilots Closed



2 - Supply Closed, Exhaust & Pilots Open



4 - Supply & Pilots Open, Exhaust Closed



6 - Supply & Pilots Closed, Exhaust Open



8- Supply Open, Exhaust $\overline{\&$ Pilots Closed

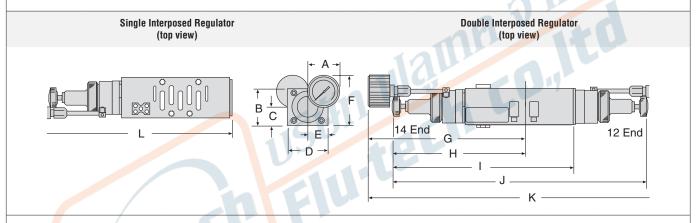
^{*} Includes: Blank Station Plate, Gasket, and Mounting Bolts.

NOTE: Accessories from this page are to be used only with sub-bases and manifolds on page 16 & 17.

INTERPOSED PRESSURE REGULATORS

ISO	Model						Din	nensions in	iches (mm)			
Size	Number	Α	В	C	D	E	F	G	Н	I	J	K	L
1 - Single	965N91	1.6 (39)	1.8 (45)	0.9 (23)	1.7 (43)	0.9 (22)	2.5 (63)	6.2 (157)	7.2 (182)	8.0 (204)	11.6 (295)	13.6 (345)	9.0 (229)
1 – Double	966N91	1.6 (39)	1.8 (45)	0.9 (23)	1.7 (43)	0.9 (22)	2.5 (63)	6.2 (157)	7.2 (182)	8.0 (204)	11.6 (295)	13.6 (345)	9.0 (229)
2 – Single	967N91	1.6 (39)	1.8 (45)	0.9 (23)	2.0 (51)	1.0 (26)	2.5 (63)	6.5 (166)	7.5 (191)	9.0 (229)	12.6 (320)	14.6 (370)	10.0 (254)
2 – Double	968N91	1.6 (39)	1.8 (45)	0.9 (23)	2.0 (51)	1.0 (26)	2.5 (63)	6.5 (166)	7.5 (191)	9.0 (229)	12.6 (320)	14.6 (370)	10.0 (254)
3 – Single	969N91	2.1 (52)	2.7 (67)	1.3 (34)	2.6 (66)	1.3 (33)	3.4 (85)	9.5 (242)	8.0 (203)	10.6 (270)	18.2 (463)	15.2 (386)	13.0 (330)
3 – Double	970N91	2.1 (52)	2.7 (67)	1.3 (34)	2.6 (66)	1.3 (33)	3.4 (85)	9.5 (242)	8.0 (203)	10.6 (270)	18.2 (463)	15.2 (386)	13.0 (330)

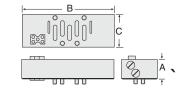
The interposed regulator controls the pressure through the base-mounted valve. These interposed devices are "sandwich" style, mounting between a valve and base or manifold. When using a dual interposed regulator for a W65 Series solenoid valve, the valve must be externally piloted (port 14).



WARNING: Double interposed regulators will reverse output ports, the 12 solenoid will pressurize the 4 port, the 14 solenoid will pressurize the 2 port which may cause unexpected, potentially dangerous cylinder movement at valve pressurization.

INTERPOSED FLOW CONTROL

ISO Size	Model Number	Dimensions inches (mm)				
	410/24	Α	В	C		
1	1371N77	0.9 (24)	3.8 (97)	1.7 (43)		
2	2 1372N77		5.1 (130)	2.0 (51)		
3	3 1373N77		5.6 (142)	2.6 (66)		



The interposed flow control independently adjusts the speed of a cylinder's extend and retract motions. This action is achieved by throttling the flow of exhaust air through ports 3 and 5 by means of a separate needle valve across each of these ports. These interposed devices are "sandwich" style, mounting between a valve and a base or manifold.

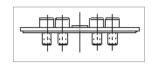


NOTE: Accessories from this page are to be used only with sub-bases and manifolds on page 16 & 17.

BLANK STATION PLATES

Blank Station Plate

	ISO Size	Model Number*	
	1	1381N77	
	2	1382N77	
	3	1383N77	
A blank station plate is used to cover the top of a manifold station not in use.			



PORT BLOCKING DISKS

Port Blocking Disks

ISO Size	Model Number*	
1	1376N77	
2	1378N77	
3	1380N77	
A blocking disk closes the ports between manifold stations.		



PILOT PORT BLOCKING PLUGS

Pilot Port Blocking Plugs

ISO Size	Model Number*	
1	1375N77	
2	1377N77	
3	1379N77	
The pilot blocking plug blocks the pilot ports between manifold stations.		



MANIFOLD TRANSITION PLATES

Manifold Transition Plates

Left Manifold ISO Size	Right Manifold ISO Size	Model Number*
1	2	1387N77
2 ::55	1	1388N77
2 (18118	3	1389N77
3	2	1390N77
To bank different manifold sizes together.		

SILENCERS

Silencers

Port Size	Thread Type	Model Number		Flow	Pressure Range
1 011 0120	imoda typo	R/Rp Thread	NPT Thread	Avg. C _v	psig (bar)
1/4	Male	5500A2003	5500A2003	1.2	
3/8	Male	5500A3013	5500A3013	2.7	0-290 (0-20)
1/2	Male	5500A4003	5500A4003	4.7	maximum
1	Male	5500A6003	5500A6003	14.6	

BLANKING PLATES

ISO SIZE	Model Number*
1	2602H77
2	2603H77
3	2604H77



Blanking Plates

* A blanking plate is used to cover the top of a manifold station that is not in use. Includes: a metal plate, a gasket, and mounting bolts.

⊸ -A	-	
0	0	
0	⊚ B	
		_
Ш М6	UU	_

Dimensions inches (mm)			
ISO 1 ISO 2 ISO 3			
A	1.57 (40)	2.04 (52)	3.03 (77)
В	2.60 (66)	3.15 (80)	4.17 (106)
Plate Thickness	0.16 (4)	0.24 (6.2)	0.41 (12)

BLOCKING DISKS

Blocking Disks ISO Size 1 & 2

ISO SIZE	Model Number*	
1	319A40	
2	320A40	
3	321A40	



Ports between manifold stations can be closed by means of blocking disks.

INDEPENDENT PRESSURE MODULES

Independent Pressure Modules

	ISO Size	Inlet Port	Part Number*
141	1	1/4	703K77
	2	3/8	692K77
1	3	1/2	715K77

^{*} When a valve in a manifold installation must work at a different pressure than that supplied to the manifold, an independent supply can be provided via an independent pressure module. The pressure module mounts between valve and base and isolates the valve from the manifold inlet pressure. The independent supply is connected to an inlet port in the end of the pressure module.

ASSEMBLY KITS

Assembly Kits ISO Size 1 & 2

ISO SIZE	Kit Number
1	732K86
2	733K86





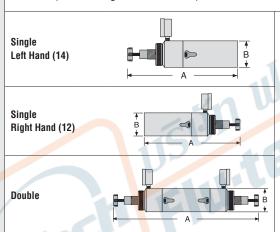
INTERPOSED PRESSURE REGULATORS

	D	Model Number		
ISO Size	Pressure psig (bar)	Single		Db.l.
		Left Hand (14)	Right Hand (12)	Double
1	10 (0.68) to 130 (9)	1300K91	1301K91	1302K91
2	10 (0.68) to 130 (9)	1303K91	1304K91	1305K91
2	5 (0.34) to 60 (4.13)	2044K91	_	_
3	10 (0.68) to 130 (9)	1306K91	1307K91	1308K91

Interposed pressure regulator controls pressure through the base-mounted valve. Single pressure regulator available with left hand (14) and right hand (12) orientation. Single pressure regulators provide the same regulated pressure at both outlet ports.

Double pressure regulators allow the pressure at each outlet port to be set independently. Requires no new piping.

Interposed Regulators





ISO Size	Regulator Dimensions – inches (mm)			
150 5126	A (Single)	A (Double)	B (Single/Double)	
1	7.3 (186)	13.2 (336)	1.5 (39)	
2	8.3 (211)	14.8 (376)	2.0 (51)	
3	10.5 (267)	18.3 (465)	2.5 (64)	

INTERPOSED FLOW CONTROL

Interposed Flow Control for W60 Series Valves

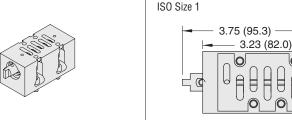
ISO SIZE	Model Number
Lists	701B77
2	702B77
3	722K77

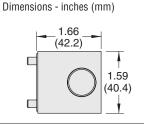
An interposed flow control unit regulates the exhaust flow of air from a pneumatic cylinder, thereby controlling the extension and retraction speeds. Separate controls regulate the air flow from each end of the cylinder. Being located between the valve and base, the unit requires no additional piping.

Interposed Shut-Off

ISO SIZE	Model Number				
1	1871B91				
2 & 3	Please contact ROSS.				

Manually actuated with a 1/4 turn, the interposed shut-off isolates all ports, including the pilot.





ELECTRICAL CONNECTORS

Pre-wired Connectors	Connection Type	Connector - Type	Cable		Launth	ntity	Oakla	Model Number			
			End 1	End 2	Length meters (feet)		Cable Diameter	Without	thout Lighted Connector *		or *
								Light	24 V DC	120 V AC	230 V AC
	Solenoid	DIN EN 175301-803 Form A	Connector	Flying leads	2 (6.5)	1	6-mm	721K77	720K77-W	720K77-Z	720K77-Y
						1	10-mm	371K77	383K77-W	383K77-Z	383K77-Y

	0	Commenter	Fishing.	Quantity	Model Number				
Connectors	Connection Type	Connector Type	Fitting Connection		Without Light	Lighted Connector*			
(no cable)					Without Light	24 V DC	120 V AC	230 V AC	
	Solenoid	DIN EN 175301-803 Form A	Cable grip	1	937K87	936K87-W	936K87-Z	936K87-Y	
			1/2" NPT conduit	1	723K77	724K77-W	724K77-Z	724K77-Y	

^{*}Lights in connectors with a translucent housing can be used as indicator lights to show when solenoids are energized.

Connectors Pinout

DIN EN 175301-803 Form A



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

SILENCERS

Silence	ers

Port Size	Thre <mark>ad</mark> Type	Model N	umber	Flow	Pressure Range psig (bar)		
1 011 0120	Timodu Typo	R/Rp Thread	NPT Thread	Avg. C _v			
1/4	Ma <mark>le</mark>	D5500A2003	5500A2003	2.1			
3/8	Male	D5500A3013	5500A3013	2.7	0-290 (0-20)		
1/2	Male	D5500A4003	5500A4003	4.7	maximum		
3/4	Male	D5500A5013	5500A5013	5.1			
Fluid Control Specialists							

