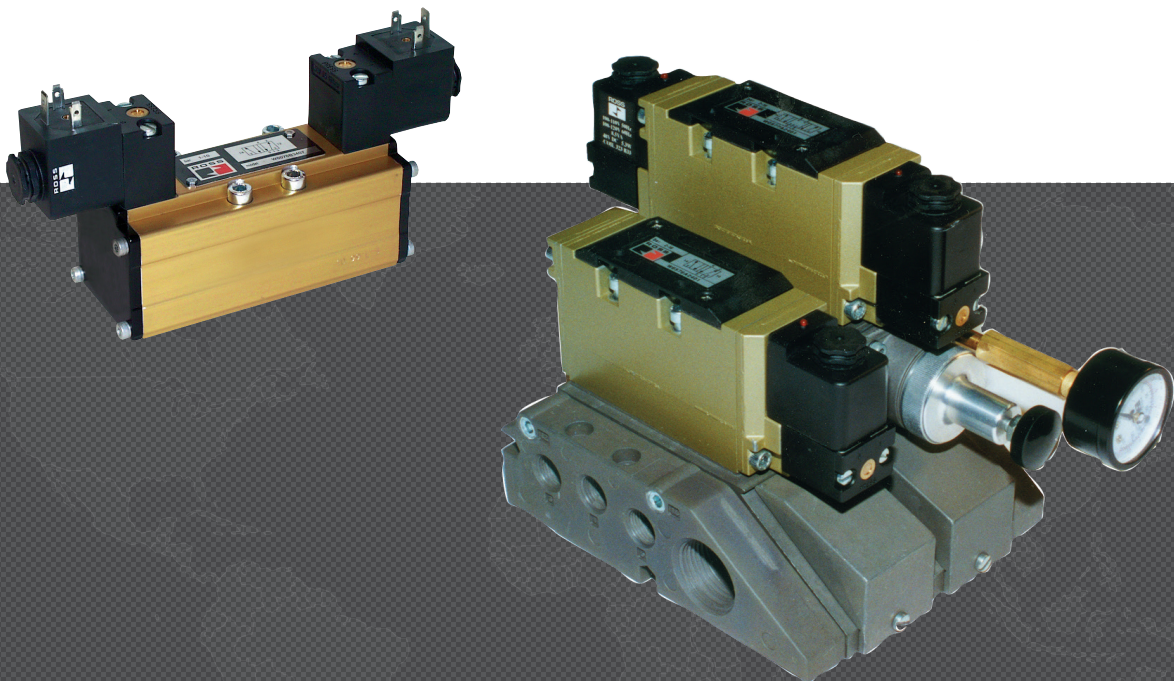




ISO 5599-1 & 5599-2 VALVES W60 & W64, W65 SERIES



PRODUCT BULLETIN

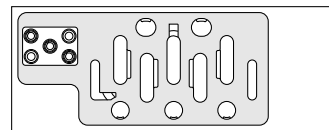
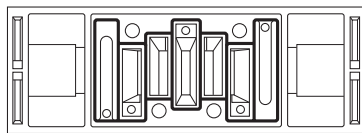
ISO W60, W64, & W65 SERIES VALVES – KEY FEATURES

- ISO Sizes 1, 2, & 3
- 5/2 Single, 5/2 Double, & 5/3 Double Solenoid Pilot & Pressure Controlled Valves
- Available with Buna-N and Fluoroelastomer seals for a wide temperature and resistance range
- W60 Series - Precision Finish Stainless Steel Spool & Sleeve internals that provide high shifting speed, long life, non-lube service, and easy maintenance
- W64 Series - Poppet construction is highly tolerant to dirty air
- W65 Series - Precision Finish Stainless Steel Spool & Sleeve internals that provide high shifting speed, long life, non-lube service, and easy maintenance
 - Serial Bus Communication compatible
 - Plug-In valve to base electrical connector eliminates need to disconnect wires to remove valve

Standard Definitions

5599-1: Drop-cord Standards for Sizes 1, 2, 3

5599-2: Plug-in Standards for Size 1, 2, 3



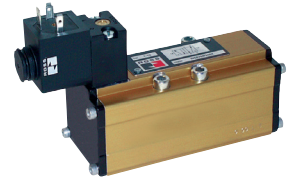
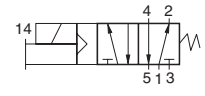
VALVE TYPE	VALVE SERIES	DESCRIPTION		AVAILABLE PORT SIZES									FUNCTIONS					Page				
		ISO Size	Spool & Sleeve	Poppet	1/8	1/4	3/8	1/2	3/4	1	1¼	1½	3/2 Single	5/2 Single	5/2 Double	5/3 Closed Center	5/3 Open Center		5/3 Pressure Center	Max Flow (Cv)	Solenoid Control	Direct Solenoid Control
ISO 5599-1	W60	1																0.8				3 - 7
	W60	2																1.9				3 - 7
	W60	3																3.8				3 - 7
	W64	1																1.0				3 - 7
	W64	2																2.0				3 - 7
	W64	3																4.0				3 - 7
Single Sub-Bases & Manifold Bases																					8 - 9	
Manifold Kits & Accessories																					9 - 11	
ISO 5599-2	W65	1																0.8				12 - 14
	W65	2																1.9				12 - 14
	W65	3																3.8				12 - 14
Sub-Bases & Modular Manifold Bases																					15	
Accessories for Sub-Bases & Modular Manifold Bases																					16	
Single Sub-Bases & Modular Manifold Bases																					17	
End Station Kits & Accessories																					18 - 19	

Solenoid Controlled Valves

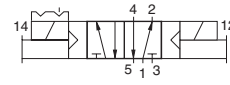
ISO 5599-1
W60 Series



5-Way 2-Position Valves, Single Solenoid Pilot Controlled, Spring Return							
ISO Size	Port Size	Valve Model Number#*	Avg. C _v	Average Response Constants**			Weight lb (kg)
				M	F		
					In-Out	Out-Exh.	
1	1/8 - 3/8	W6076B2401W	0.8	29	3.5	4.9	1.5 (0.7)
2	3/8 - 1/2	W6076B3401W	1.9	41	1.5	2.4	2.3 (1.1)
3	1/2 - 3/4	W6076B4401W	3.8	51	0.8	1.1	3.5 (1.6)



5-Way 2-Position Valves, Double Solenoid Pilot Controlled, Detented							
ISO Size	Port Size	Valve Model Number#*	Avg. C _v	Average Response Constants**			Weight lb (kg)
				M	F		
					In-Out	Out-Exh.	
1	1/8 - 3/8	W6076B2407W	0.8	17	3.5	4.9	1.8 (0.9)
2	3/8 - 1/2	W6076B3407W	1.9	20	1.5	2.5	2.7 (1.2)
3	1/2 - 3/4	W6076E4407W	3.8	20	0.8	1.1	3.9 (1.8)



#Voltage: W=24 VDC; Z=110-120 VAC, 50/60 Hz, e.g., W6076B2401Z. For other voltages, consult ROSS.

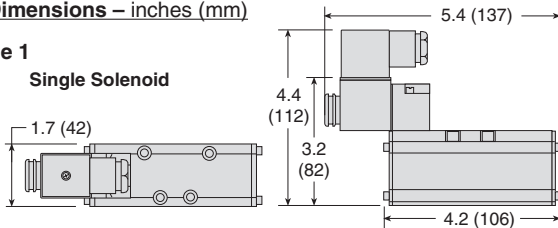
* Sub-bases and manifold bases ordered separately, refer to page 8-9.

** 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.

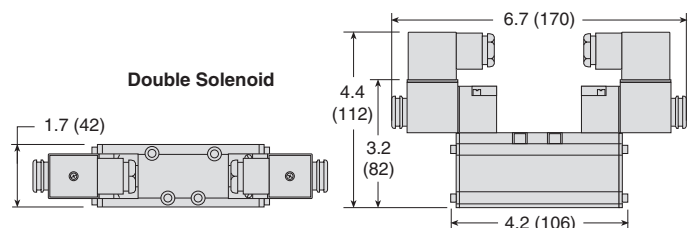
Valve Dimensions – inches (mm)

ISO Size 1

Single Solenoid

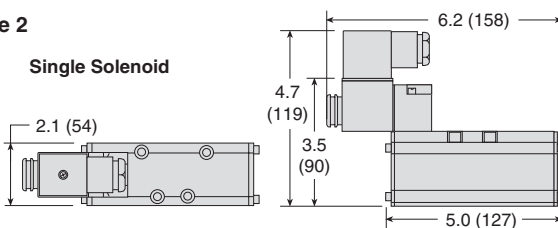


Double Solenoid

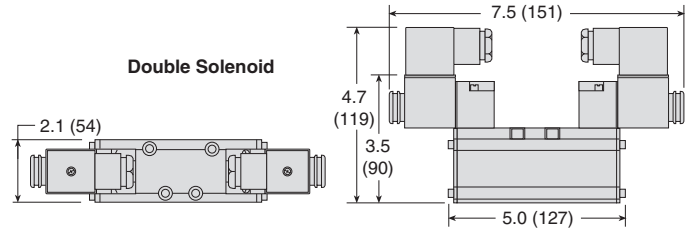


ISO Size 2

Single Solenoid

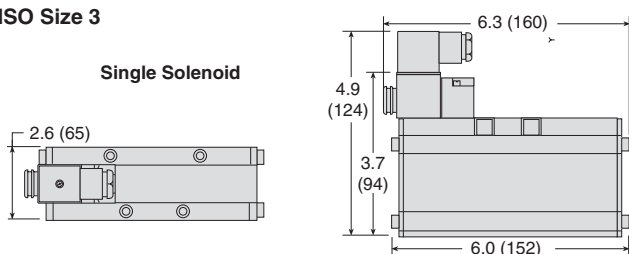


Double Solenoid

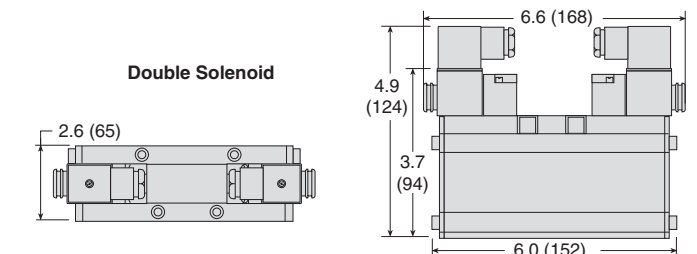


ISO Size 3

Single Solenoid



Double Solenoid



Options: Indicator Light (in electrical connectors), refer to page 11. Accessories ordered separately, refer to page 10-11.

STANDARD SPECIFICATIONS

Construction Design	Spool and Sleeve	Flow Media	Filtered air
Mounting Type	Base	Pilot Supply	Internal or External; Selected automatically
Solenoids	Rated for continuous duty	Operating Pressure	Vacuum to 150 psig (10 bar) Pilot Supply - Internal or External: ISO Size 1: Minimum 30 psig (2 bar) ISO Size 2 & 3: Minimum 15 psig (1 bar) <i>When external pilot supply, pressure must be equal to or greater than inlet pressure.</i>
Voltage	24 volts DC; 110 volts AC, 50 Hz; 120 volts AC, 50/60 Hz		Construction Material
Power Consumption (each solenoid)	5.8 watts nominal on AC and DC; 6.5 watts maximum on AC and DC	Manual Override	Flush; Metal, non-locking
Enclosure Rating	IP65, IEC 60529		
Electrical Connections	EN 175301-803 Form A connector		
Temperature	Ambient/Media: 40° to 175°F (4° to 80°C) <i>For other temperature ranges, consult ROSS.</i>		

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



5-Way 3-Position Valves, Double Solenoid Pilot Controlled									
ISO Size	Port Size	Valve Model Number#*			Avg. C _v	Average Response Constants**			Weight lb (kg)
		Power Center	Closed Center	Open Center		M	F		
							In-Out	Out-Exh.	
1	1/8 - 3/8	W6077A2951W	W6077B2401W	W6077B2407W	0.8	30	3.5	5.0	1.8 (0.9)
2	3/8 - 1/2	W6077A3945W	W6077B3401W	W6077B3407W	1.9	40	1.5	2.5	2.8 (1.3)
3	1/2 - 3/4	W6077B4934W	W6077B4401W	W6077B4407W	3.8	50	0.8	1.1	4.0 (1.8)

Power Center

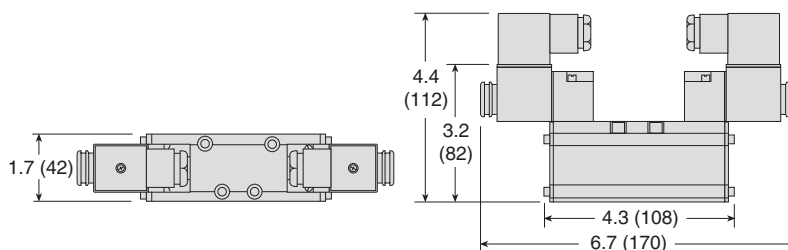
Closed Center

Open Center

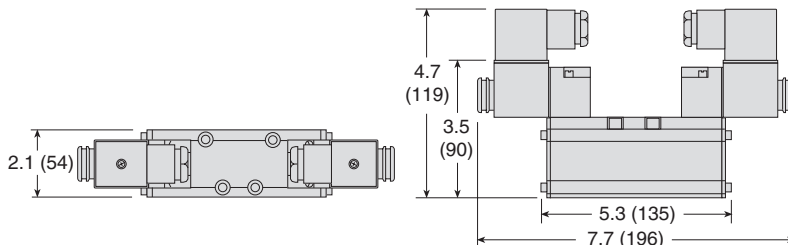
#Voltage: W=24 VDC; Z=110-120 VAC, 50/60 Hz, e.g., W6077A2951Z. For other voltages, consult ROSS.
 * Sub-bases and manifold bases ordered separately, refer to page 8-9.
 ** Valve Response Time – Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.

Valve Dimensions – inches (mm)

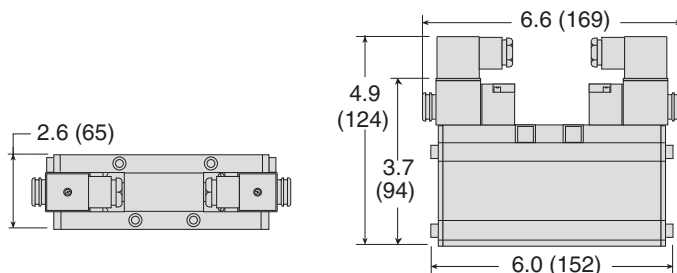
ISO Size 1



ISO Size 2



ISO Size 3



Options: Indicator Light (in electrical connectors), refer to page 11. Accessories ordered separately, refer to page 10-11.

STANDARD SPECIFICATIONS

Construction Design	Spool and Sleeve	Flow Media	Filtered air	
Mounting Type	Base	Pilot Supply	Internal or External; Selected automatically	
Solenoids	Rated for continuous duty	Operating Pressure	Vacuum to 150 psig (10 bar)	
Voltage	24 volts DC; 110 volts AC, 50 Hz; 120 volts AC, 50/60 Hz		Pilot Supply - Internal or External: ISO Size 1: Minimum 30 psig (2 bar) ISO Size 2 & 3: Minimum 15 psig (1 bar)	
Power Consumption (each solenoid)	5.8 watts nominal on AC and DC; 6.5 watts maximum on AC and DC		When external pilot supply, pressure must be equal to or greater than inlet pressure.	
Enclosure Rating	IP65, IEC 60529	Construction Material	Valve Body: Bar Stock Aluminum Spool: Stainless Steel Seals: Buna-N	
Electrical Connections	EN 175301-803 Form A connector	Manual Override	Flush; Metal, non-locking	
Temperature	Ambient/Media: 40° to 175°F (4° to 80°C) For other temperature ranges, consult ROSS.			

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

5-Way 2-Position Valves, Single Pressure Controlled, Spring Return

ISO Size	Port Size	Valve Model Number*	Avg. C _v	Average Response Constants**			Weight lb (kg)	
				M	F			
					In-Out	Out-Exh.		
1	1/8 - 3/8	W6056B2411	0.8	29	3.5	4.9	0.8 (0.4)	
2	3/8 - 1/2	W6056B3411	1.9	41	1.5	2.4	1.5 (0.7)	
3	1/2 - 3/4	W6056B4411	3.8	51	0.8	1.1	3.0 (1.4)	



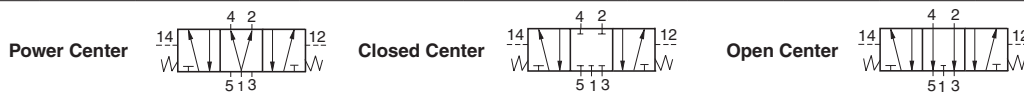
5-Way 2-Position Valves, Double Pressure Controlled, Detented

ISO Size	Port Size	Valve Model Number*	Avg. C _v	Average Response Constants**			Weight lb (kg)	
				M	F			
					In-Out	Out-Exh.		
1	1/8 - 3/8	W6056B2417	0.8	17	3.5	5.0	0.8 (0.4)	
2	3/8 - 1/2	W6056B3417	1.9	20	1.5	2.5	1.5 (0.7)	
3	1/2 - 3/4	W6056E4417	3.8	20	0.8	1.1	3.0 (1.4)	



5-Way 3-Position Valves, Double Pressure Controlled

ISO Size	Port Size	Valve Model Number*			Avg. C _v	Average Response Constants**			Weight lb (kg)
		Power Center	Closed Center	Open Center		M	F		
							In-Out	Out-Exh.	
1	1/8 - 3/8	W6057A2934	W6057B2411	W6057B2417	0.8	30	3.5	5.0	1.0 (0.5)
2	3/8 - 1/2	W6057A3933	W6057B3411	W6057B3417	1.9	40	1.5	2.5	1.5 (0.7)
3	1/2 - 3/4	W6057A4937	W6057B4411	W6057B4417	3.8	50	0.8	1.1	3.0 (1.4)

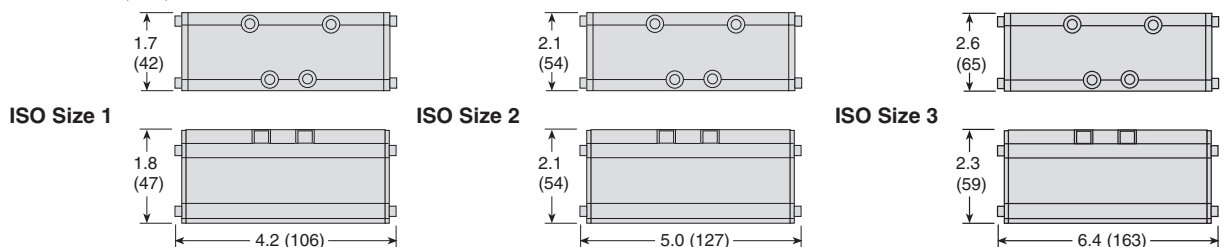


* Sub-bases and manifold bases ordered separately, refer to page 8-9.

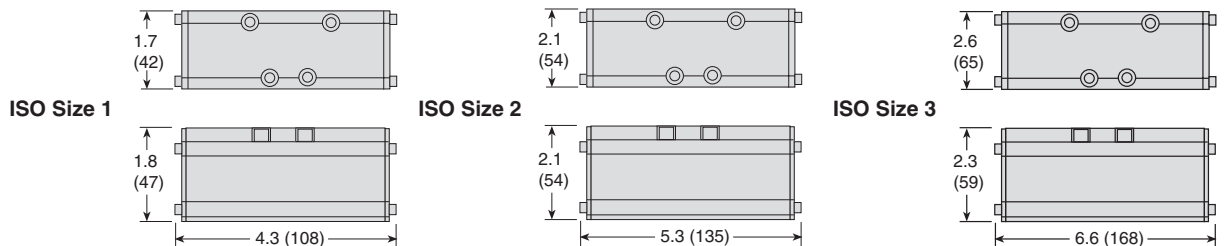
** Valve Response Time – Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.

Valve Dimensions – inches (mm)

5/2 Valves



5/3 Valves



Accessories ordered separately, refer to page 10-11.

STANDARD SPECIFICATIONS

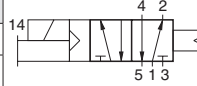
Construction Design	Spool and Sleeve	Operating Pressure	Vacuum to 150 psig (10 bar)
Mounting Type	Base		Pilot Supply:
Temperature	Ambient/Media: 40° to 175°F (4° to 80°C) For other temperature ranges, consult ROSS.	Construction Material	ISO Size 1: Minimum 30 psig (2 bar) ISO Size 2 & 3: Minimum 15 psig (1 bar) Pilot supply pressure must be equal to or greater than inlet pressure.
Flow Media	Filtered air		Valve Body: Bar Stock Aluminum Spool: Stainless Steel Seals: Buna-N
Pilot Supply	External		

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

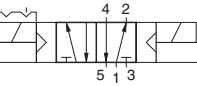
Solenoid Pilot Controlled Valves



5-Way 2-Position Valves, Single Solenoid Pilot Controlled, Air Return								
ISO Size	Port Size	Valve Model Number#*		Avg. C _v	Average Response Constants**			Weight lb (kg)
		Std. Temp.	High Temp.		M	F		
					In-Out	Out-Exh.		
1	1/8 - 3/8	W6476B2401W	W6476B2402W	1.0	33	2.9	5.9	1.3 (0.6)
2	3/8 - 1/2	W6476B3401W	W6476B3402W	2.0	33	1.2	2.3	1.8 (0.8)
3	1/2 - 3/4	W6476B4401W	W6476B4402W	4.0	50	0.7	1.2	2.8 (1.3)



5-Way 2-Position Valves, Double Solenoid Pilot Controlled, Detented								
ISO Size	Port Size	Valve Model Number#*		Avg. C _v	Average Response Constants**			Weight lb (kg)
		Std. Temp.	High Temp.		M	F		
					In-Out	Out-Exh.		
1	1/8 - 3/8	W6476B2407W	W6476B2408W	1.0	16	2.9	5.6	1.8 (0.8)
2	3/8 - 1/2	W6476B3407W	W6476B3408W	2.0	16	1.2	2.3	2.3 (1.0)
3	1/2 - 3/4	W6476B4407W	W6476B4408W	4.0	16	0.7	1.1	3.3 (1.5)



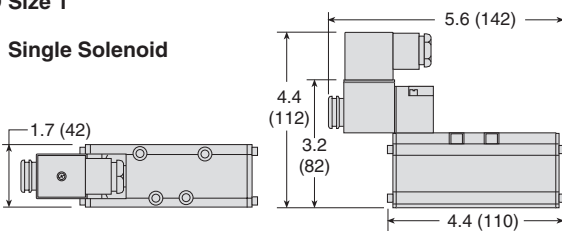
#Voltage: W=24 VDC; Z=110-120 VAC, 50/60 Hz, e.g., W6476B2401Z. For other voltages, consult ROSS.

* Sub-bases and manifold bases ordered separately, refer to page 8-9.

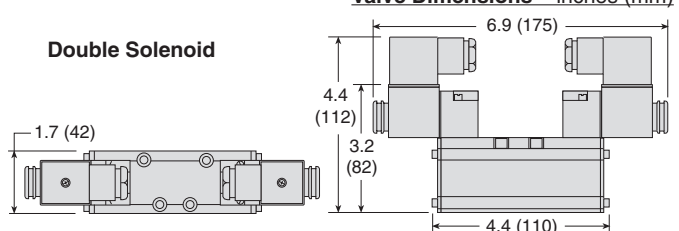
** Valve Response Time – Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.

ISO Size 1

Single Solenoid

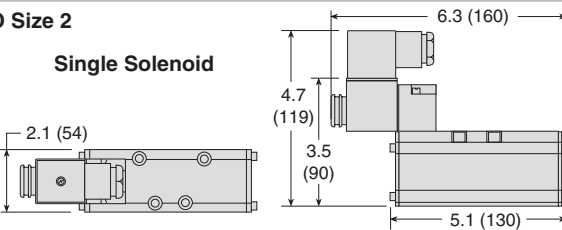


Double Solenoid

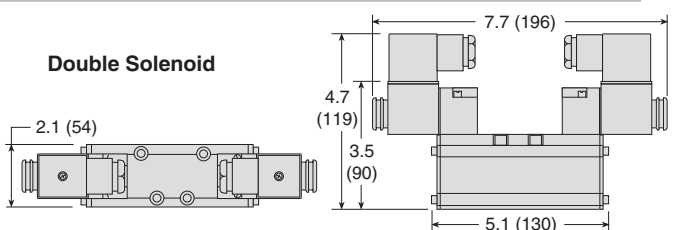


ISO Size 2

Single Solenoid

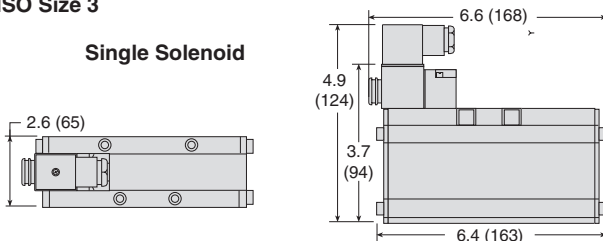


Double Solenoid

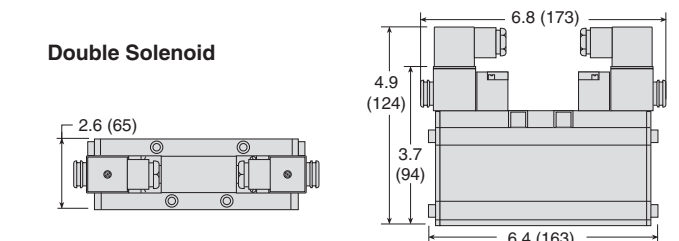


ISO Size 3

Single Solenoid



Double Solenoid



Valve Dimensions – inches (mm)

Options: Indicator Light (in electrical connectors); refer to page 11. Accessories ordered separately, refer to page 10-11.

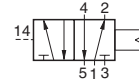
STANDARD SPECIFICATIONS

Construction Design	Poppet	Temperature - Media	Standard Temp: 40° to 175°F (4° to 80°C) High Temp: 40° to 220°F (4° to 105°C) For other temperature ranges, consult ROSS.
Mounting Type	Base	Flow Media	Filtered air
Solenoids	Rated for continuous duty	Pilot Supply	Internal or External; Selected automatically
Voltage	24 volts DC; 110 volts AC, 50 Hz; 120 volts AC, 50/60 Hz	Operating Pressure	Pilot Supply - Internal or External: 30 to 150 psig (2 to 10 bar) When external pilot supply, pressure must be equal to or greater than inlet pressure.
Power Consumption (each solenoid)	5.8 watts nominal on AC and DC; 6.5 watts maximum on AC and DC	Construction Material	Valve Body: Bar Stock Aluminum Poppet: Aluminum & Stainless Steel Seals: Buna-N or Fluorocarbon
Enclosure Rating	IP65, IEC 60529	Manual Override	Flush; Metal, non-locking
Electrical Connections	EN 175301-803 Form A		
Temperature - Ambient	Standard Temp: 40° to 120°F (4° to 50°C) High Temp: 40° to 175°F (4° to 80°C)		

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

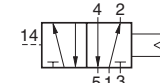
5-Way 2-Position Valves, Single Pressure Controlled, Air Return

ISO Size	Port Size	Valve Model Number*		Avg. C _v	Average Response Constants**			Weight lb (kg)
		Std. Temp.	High Temp.		M	F		
						In-Out	Out-Exh.	
1	1/8 - 3/8	W6456B2411	W6456B2412	1.0	33	2.9	5.9	0.8 (0.4)
2	3/8 - 1/2	W6456B3411	W6456B3412	2.0	33	1.2	2.3	1.3 (0.6)
3	1/2 - 3/4	W6456B4411	W6456B4412	4.0	50	0.7	1.2	2.3 (1.1)



5-Way 2-Position Valves, Double Pressure Controlled, Detented

ISO Size	Port Size	Valve Model Number*		Avg. C _v	Average Response Constants**			Weight lb (kg)
		Std. Temp.	High Temp.		M	F		
						In-Out	Out-Exh.	
1	1/8 - 3/8	W6456B2417	W6456B2418	1.0	16	2.9	5.6	1.8 (0.8)
2	3/8 - 1/2	W6456B3417	W6456B3418	2.0	16	1.2	2.3	2.3 (1.0)
3	1/2 - 3/4	W6456B4417	W6456B4418	4.0	18	0.7	1.1	3.3 (1.5)

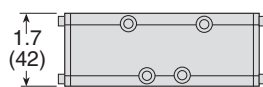


* Sub-bases and manifold bases ordered separately, refer to page 8-9.

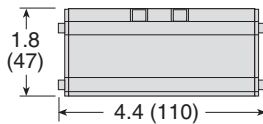
** Valve Response Time – Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.

Valve Dimensions – inches (mm)

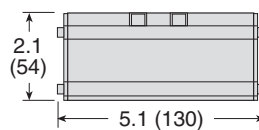
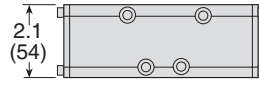
Single Pressure Controlled



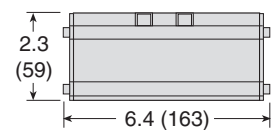
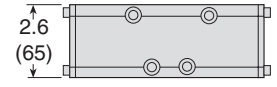
ISO Size 1



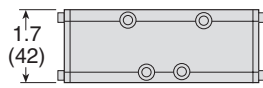
ISO Size 2



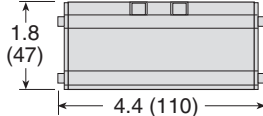
ISO Size 3



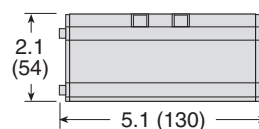
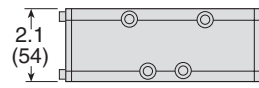
Double Pressure Controlled



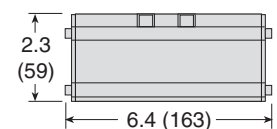
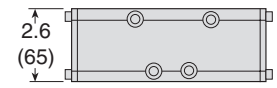
ISO Size 1



ISO Size 2



ISO Size 3



Accessories ordered separately, refer to page 10-11.

STANDARD SPECIFICATIONS

Construction Design	Poppet	Flow Media	Filtered air
Mounting Type	Base	Pilot Supply	External
Temperature	Ambient/Media: Standard Temp: 40° to 175°F (4° to 80°C) High Temp: 40° to 220°F (4° to 105°C)	Operating Pressure	30 to 150 psig (2 to 10 bar)
	For other temperature ranges, consult ROSS.		Pilot supply pressure must be equal to or greater than inlet pressure.

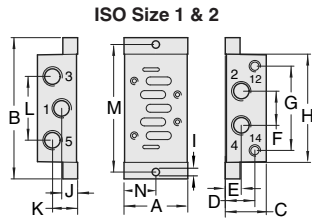
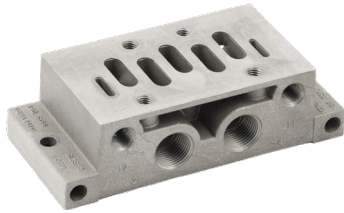
IMPORTANT NOTE: Please read carefully and thoroughly all of the **CAUTIONS, WARNINGS** on the inside back cover.

Single Bases

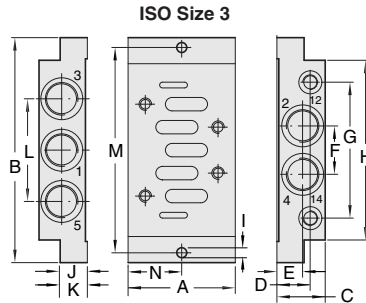
for ISO 5599-1 Valves W60 & W64 Series

ISO 5599-1 Single Bases, Side Ports

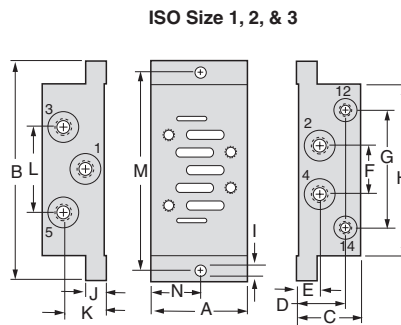
ISO Size	Port Size			Model Number	
	2, 4	1, 3, 5	12, 14	NPT Threads	G Threads
1	1/4	1/4	1/8	2076C01	D2076C01
2	3/8	3/8	1/8	2078C01	D2078C01
3	1/2	1/2	1/8	2080C01	D2080C01



	Dimensions inches (mm)		
	ISO 1	ISO 2	ISO 3
A	1.81 (46)	2.20 (56)	2.80 (71)
B	4.33 (110)	4.88 (124)	5.87 (149)
C	1.18 (30)	1.42 (36)	1.26 (32)
D	0.85 (21.5)	1.02 (26)	0.87 (22)
E	0.39 (10)	0.55 (14)	0.67 (17)
F	0.94 (24)	1.18 (30)	1.26 (32)
G	2.38 (60.5)	3.91 (74)	3.54 (90)
H	3.27 (83)	3.74 (95)	2.69 (119)
I	0.22 (5.5)	2.56 (6.5)	0.26 (6.6)
J	0.41 (10.5)	0.41 (10.5)	0.67 (17)
K	0.77 (19.5)	0.87 (22)	0.67 (17)
L	1.69 (43)	2.20 (56)	2.67 (68)
M	3.86 (98)	4.41 (112)	5.35 (136)
N	0.90 (23)	1.10 (28)	1.40 (35.5)



ISO Size	Port Size			Model Number*
	2, 4	1, 3, 5	12, 14	NPT Threads
1	1/8	1/4	1/8	654K91
	3/8	3/8	1/8	642K91
2	1/2	1/2	1/8	643K91
3	3/4	3/4	1/2	644K91

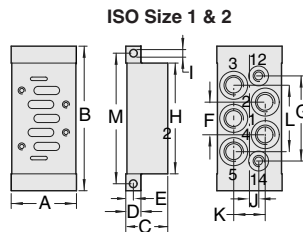
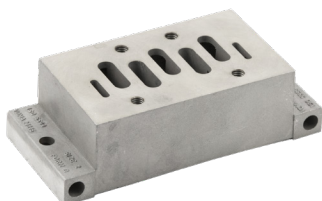


	Dimensions inches (mm)		
	ISO 1	ISO 2	ISO 3
A	1.89 (48)	2.24 (57)	2.80 (71)
B	4.33 (110)	4.88 (124)	5.87 (149)
C	1.26 (32)	1.57 (40)	1.26 (32)*
D	0.93 (24)	1.18(30)	0.87 (22)
E	0.41 (38)	0.55 (14)	0.67 (17)
F	0.94 (24)	1.18 (30)	1.26 (32)
G	2.28 (58)	2.92 (74)	3.54 (90)
H	3.27 (83)	3.74 (95)	2.69 (119)
I	0.22 (6)	0.26 (7)	0.26 (7)
J	0.41 (38)	0.55 (14)	0.67 (17)
K	0.85 (22)	1.02 (26)	0.59 (15)
L	1.70 (43)	2.20 (56)	2.68 (68)
M	3.86 (22)	4.41 (112)	5.35 (136)

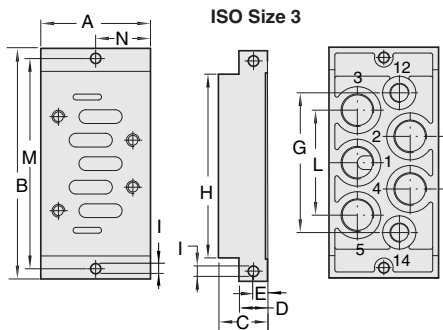
* 1.77 (45) on sub-base 644K91.

ISO 5599-1 Single Bases, Bottom Ports

ISO Size	Port Size			Model Number	
	2, 4	1, 3, 5	12, 14	NPT Threads	G Threads
1	1/4	1/4	1/8	2077C01	D2077C01
2	3/8	3/8	1/8	2079C01	D2079C01
3	1/2	1/2	1/8	2081C01	D2081C01



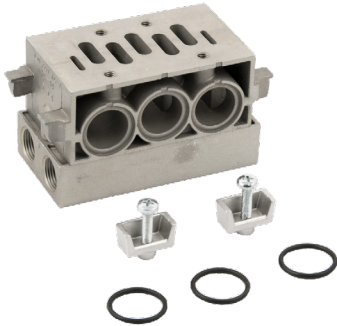
	Dimensions inches (mm)		
	ISO 1	ISO 2	ISO 3
A	1.81 (46)	2.20 (56)	2.80 (71)
B	4.33 (110)	4.88 (124)	5.87 (149)
C	1.18 (30)	1.42 (36)	1.26 (32)
D	0.39 (10)	0.51 (13)	0.71 (18)
E	0.20 (5)	0.26 (6.5)	0.35 (9)
F	0.94 (24)	1.18 (30)	1.26 (32)
G	2.36 (60)	2.87 (73)	3.54 (90)
H	3.27 (83)	3.74 (95)	2.69 (119)
I	0.22 (5.5)	2.56 (6.5)	0.26 (6.6)
J	0.41 (10.5)	0.41 (10.5)	-
K	0.91 (23)	1.06 (27)	-
L	1.81 (46)	2.24 (57)	-
M	3.86 (98)	4.41 (112)	5.35 (136)
N	-	-	1.40 (35.5)



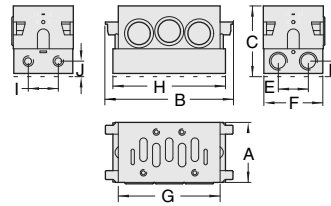
ISO 5599-1 Manifold Bases, Side Ports

ISO Size	Port Size		Model Number	
	2, 4	12, 14	NPT Threads	G Threads
1	1/4	1/8	2002K91	D2002K91
2	3/8	1/8	2003K91	D2003K91
3	1/2	1/8	2004K91	D2004K91

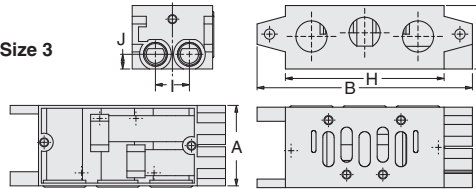
In addition to the manifold stations, an end station kit must be ordered for each manifold installation.



ISO Size 1 & 2



ISO Size 3



	Dimensions inches (mm)		
	ISO 1	ISO 2	ISO 3
A	1.69 (43)	2.20 (56)	2.80 (71)
B	4.33 (110)	4.72 (120)	7.48 (190)
C	2.05 (52)	2.60 (66)	2.20 (56)
D	0.39 (10)	0.57 (14.5)	-
E	0.87 (22)	1.10 (28)	-
F	1.65 (42)	2.17 (55)	-
G	2.95 (75)	3.74 (95)	-
H	3.50 (89)	4.13 (105)	5.51 (140)
I	0.87 (22)	1.10 (28)	1.18 (30)
J	0.39 (10)	0.57 (14.5)	0.51 (13)

Connectors and gaskets are included with each manifold base.
The ISO Size 1 & 2 manifold bases contain 3 O-rings and 2 connector brackets.

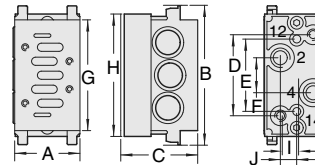
ISO 5599-1 Manifold Bases, Bottom Ports

ISO Size	Port Size		Model Number	
	2, 4	12, 14	NPT Threads	G Threads
1	1/4	1/8	1997K91	D1997K91
2	3/8	1/8	1998K91	D1998K91
3	1/2	1/8	1999K91	D1999K91

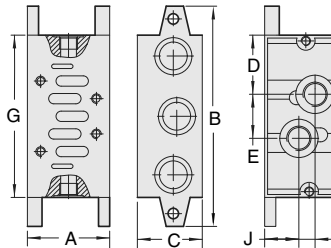
In addition to the manifold stations, an end station kit must be ordered for each manifold installation.



ISO Size 1 & 2



ISO Size 3

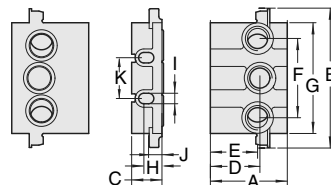


	Dimensions inches (mm)		
	ISO 1	ISO 2	ISO 3
A	1.69 (43)	2.20 (56)	2.80 (71)
B	4.33 (110)	4.72 (120)	7.48 (190)
C	2.05 (52)	2.60 (66)	2.20 (56)
D	2.28 (58)	2.73 (69.5)	2.01 (51)
E	1.57 (40)	2.44 (62)	1.50 (38)
F	0.79 (20)	1.18 (30)	-
G	2.28 (58)	2.73 (69.5)	5.51 (140)
H	3.50 (89)	4.13 (105)	-
I	0.35 (9)	0.55 (14)	0.55 (14)
J	0.43 (11)	0.55 (14)	0.16 (29.5)

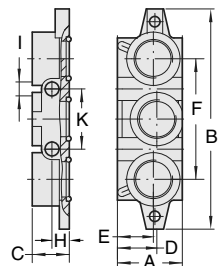
End Station Kits - ISO Size 1, 2, & 3

ISO Size	Port Size		Model Number	
	1, 3, 5		NPT Threads	G Threads
1	3/8		723K86	D723K86
2	1/2		724K86	D724K86
3	1		731K86	D731K86

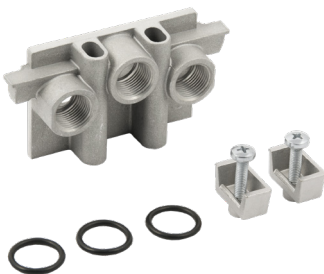
ISO Size 1 & 2



ISO Size 3



	Dimensions inches (mm)		
	ISO 1	ISO 2	ISO 3
A	2.05 (52)	2.60 (66)	2.20 (56)
B	3.94 (100)	4.72 (120)	7.48 (190)
C	0.87 (22)	1.02 (26)	1.26 (32)
D	1.53 (39)	1.67 (42.5)	1.34 (34)
E	1.22 (31)	1.59 (40.5)	1.22 (31)
F	2.17 (55)	2.68 (68)	4.09 (104)
G	2.95 (75)	3.74 (95)	-
H	0.55 (14)	0.61 (15.5)	0.59 (15)
I	0.28 (7)	0.35 (9)	0.47 (12)
J	0.39 (10)	0.45 (11.5)	-
K	1.10 (28)	1.38 (35)	2.05 (52)



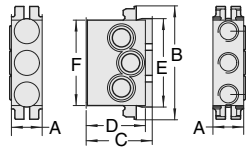
Manifold Kits & Accessories

Air Supply Module Top & Bottom Ports - ISO Size 1 & 2

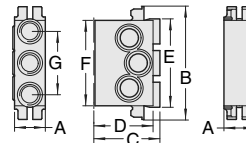
ISO Size	Ports Size	Model Number			
		Top Ports		Bottom Ports	
		NPT Threads	BSPP Threads	NPT Threads	G Threads
1	3/8	725K86	D725K86	727K86	D727K86
2	1/2	726K86	D726K86	728K86	D728K86



Top Ports ISO Size 1 & 2



Bottom Ports ISO Size 1 & 2

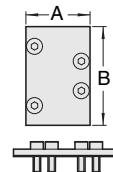


	Dimensions inches (mm)	
	ISO 1	ISO 2
A	1.06 (27)	1.06 (27)
B	3.94 (100)	4.72 (120)
C	2.28 (58)	2.71 (69)
D	2.05 (52)	2.60 (66)
E	3.07 (78)	3.74 (95)
F	2.95 (75)	3.74 (95)
G	2.20 (56)	2.20 (56)

Blanking Plate Kits - ISO Size 1, 2, & 3

ISO Size	Model Number
1	2602H77
2	2603H77
3	2604H77

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



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

Assembly Kits - ISO Size 1 & 2

ISO Size	Model Number
1	732K86
2	733K86

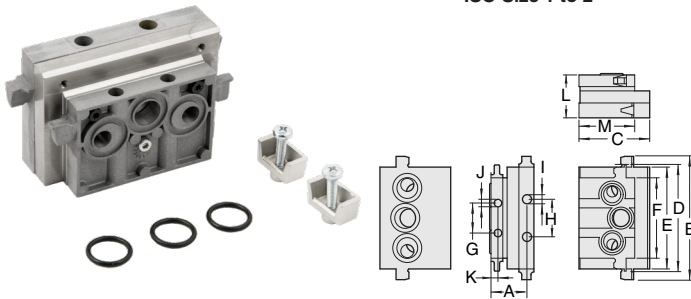


Transition Modules - ISO Size 1, 2 & 3

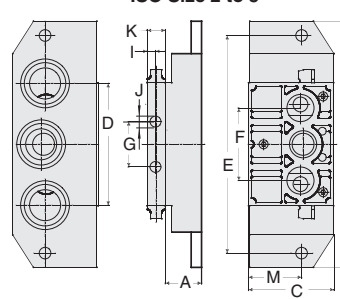
ISO Size	Model Number
1 to 2	729K86
2 to 3	730K86

Different size ISO valves can be used in the same manifold installation by means of transition module. The inlet and exhaust ports of two different size manifold stations are connected by means of a transition module installed between the two stations.

ISO Size 1 to 2



ISO Size 2 to 3



	Dimensions inches (mm)	
	ISO 1 & 2	ISO 2 to 3
A	1.32 (33.5)	1.10 (28)
B	4.72 (120)	7.48 (190)
C	2.60 (66)	2.60 (66)
D	3.94 (100)	3.94 (100)
E	3.74 (95)	6.61 (168)
F	2.95 (75)	2.20 (56)
G	1.10 (28)	1.38 (35)
H	1.38 (35)	-
I	0.34 (8.5)	2.56 (6.5)
J	0.28 (7)	0.34 (8.5)
K	2.56 (6.5)	0.56 (14)
L	1.58 (40)	-
M	2.05 (52)	1.61 (41)

Blocking Disks - ISO Size 1 & 2

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



ISO Size	Model Number
1	319A40
2	320A40
3	321A40

Independent Pressure Modules

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.

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

Interposed Pressure Regulators

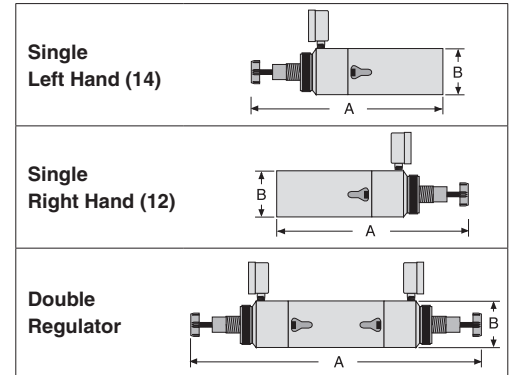
Interposed pressure regulator controls pressure through the base-mounted valve. Single pressure regulator available with left hand (14) and right hand (12) orientation. Single pressure regulators provide the same regulated pressure at both outlet ports.

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



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

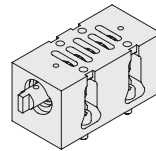
ISO Size	Regulator Dimensions – inches (mm)		
	A (Single)	A (Double)	B (Single/Double)
1	7.3 (186)	13.2 (336)	1.5 (39)
2	8.3 (211)	14.8 (376)	2.0 (51)
3	10.5 (267)	18.3 (465)	2.5 (64)



Interposed Shut-Off

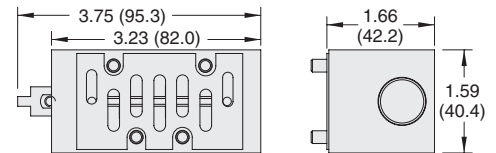
Manually actuated with a 1/4 turn, the interposed shut-off isolates all ports, including the pilot.

ISO Size	Part Number
1	1871B91
2 & 3	Please contact ROSS.



ISO Size 1

Dimensions - inches (mm)



Interposed Flow Controls (for W60 Series valves only)

ISO Size	Model Number
1	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.

Electrical Connectors

Electrical Connector	Electrical Connector Type	Cord Length meters (feet)	Cord Diameter	Electrical Connector Model Number		
				Without Light	Lighted Connector*	
					24 Volts DC	120 Volts AC
EN 175301-803 Form A	Prewired Connector (18 gauge)	2 (6½)	6-mm	721K77	720K77-W	720K77-Z
	Connector for threaded conduit (1/2 inch electrical conduit fittings)	–	–	723K77	724K77-W	724K77-Z
	Connector Only	–	–	937K87	936K87-W	936K87-Z



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

Silencers

Port Size	Thread Type	Model Number		Avg. C _v	Dimensions inches (mm)		Weight lb (kg)
		NPT Threads	R/Rp Threads		Width	Length	
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	4.7	1.3 (32)	3.6 (91)	0.2 (0.1)
3/4	Male	5500A5013	D5500A5013	5.1	1.3 (32)	3.6 (91)	0.2 (0.1)



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

Solenoid Pilot Controlled Valves

5-Way 2-Position Valves, Single Solenoid Pilot Controlled, Spring Return				
ISO Size	Port Size	Valve Model Number#*	Avg. C _v	Weight lb (kg)
1	1/4 - 3/8	W6576A2401W	1.0	1.5 (0.7)
2	3/8 - 1/2	W6576A3401W	2.3	2.0 (1.0)
3	1/2 - 3/4	W6576A4401W	3.4	3.5 (1.6)



5-Way 2-Position Valves, Double Solenoid Pilot Controlled, Detented				
ISO Size	Port Size	Valve Model Number*	Avg. C _v	Weight lb (kg)
1	1/4 - 3/8	W6576A2407W	1.0	2.0 (1.0)
2	3/8 - 1/2	W6576A3407W	2.3	2.5 (1.2)
3	1/2 - 3/4	W6576A4407W	3.4	4.0 (1.9)



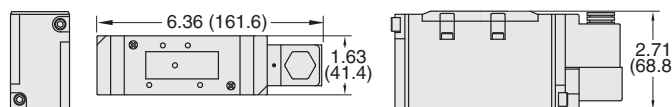
#Voltage: W=24 VDC; Z=110-120 VAC, 50/60 Hz, e.g., W6576A2401Z. For other voltages, consult ROSS.

* Sub-bases and manifold bases ordered separately, refer to page 15 or page 18 when used with serial bus system.

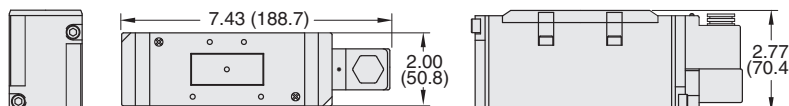
Valve Dimensions – inches (mm)

Single Solenoid

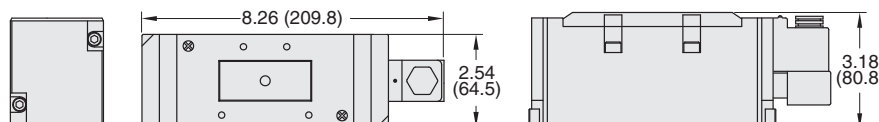
ISO Size 1



ISO Size 2

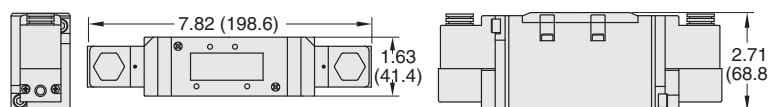


ISO Size 3

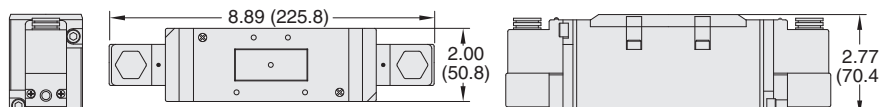


Double Solenoid

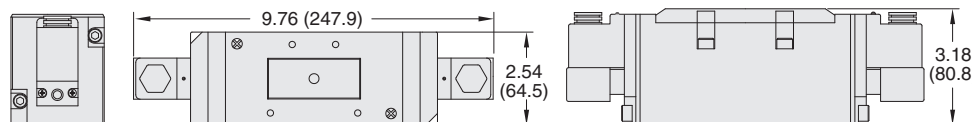
ISO Size 1



ISO Size 2



ISO Size 3



Accessories ordered separately, refer to page 16 thru 19 when used with serial bus system.

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.

STANDARD SPECIFICATIONS

Construction Design	Spool and Sleeve	Pilot Supply	Internal or External; Selected automatically
Mounting Type	Base	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) All sizes also available up to 232 psig (16 bar)
Solenoid	Rated for continuous duty		Pilot Supply - Internal or External: Minimum 30 psig (2 bar) <i>When external pilot supply, pressure must be equal to or greater than inlet pressure.</i>
Voltages	24 volts DC; 110-120 volts AC, 50/60 Hz	Indicator Light	Included, one per solenoid
Power Consumption (each solenoid)	3.5 watts on DC (at 10 bar); 6.5 VA holding on 50 or 60 Hz	Construction Material	Valve Body: Cast Aluminum Spool: Stainless Steel Seals: Buna-N
Temperature	Ambient: 40° to 120°F (4° to 50°C)	Manual Override	Flush; Metal, non-locking
	Media: 40° to 175°F (4° to 80°C) <i>For other temperature ranges, consult ROSS.</i>		
Flow Media	Filtered air		

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

Solenoid Pilot Controlled Valves

ISO 5599-2
W65 Series



5-Way 3-Position Valves, Double Solenoid Pilot Controlled						
ISO Size	Port Size	Valve Model Number#*			Avg. C _v	Weight lb (kg)
		Power Center	Closed Center	Open Center		
1	1/4 - 3/8	W6577A2902W	W6577A2401W	W6577A2407W	1.0	2.0 (1.0)
2	3/8 - 1/2	W6577A3901W	W6577A3401W	W6577A3407W	2.3	2.5 (1.2)
3	1/2 - 3/4	W6577A4900W	W6577A4401W	W6577A4407W	3.4	4.0 (1.9)

Power Center	Closed Center	Open Center

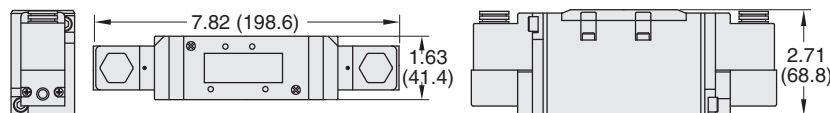


#Voltage: W=24 VDC; Z=110-120 VAC, 50/60 Hz, e.g., W6577A2902W. For other voltages, consult ROSS.

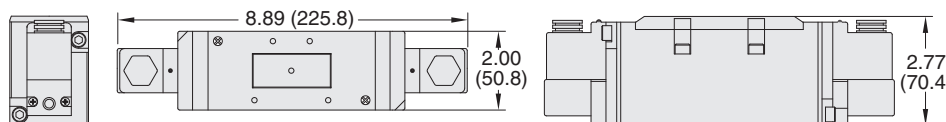
* Sub-bases and manifold bases ordered separately, refer to page 15 or page 18 when used with serial bus system.

Valve Dimensions – inches (mm)

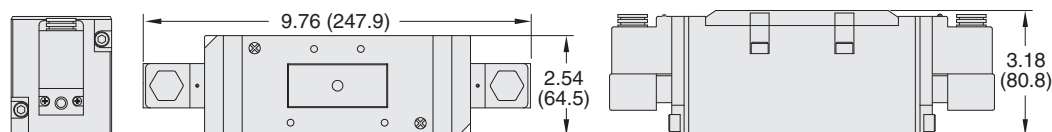
ISO Size 1



ISO Size 2



ISO Size 3



Accessories ordered separately, refer to page 16 thru 19 when used with serial bus system.

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.

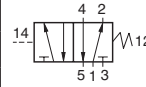
STANDARD SPECIFICATIONS

Construction Design	Spool and Sleeve	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) All sizes also available up to 232 psig (16 bar)
Mounting Type	Base		Pilot Supply - Internal or External: Minimum 30 psig (2 bar) <i>When external pilot supply, pressure must be equal to or greater than inlet pressure.</i>
Solenoids	Rated for continuous duty	Indicator Light	Included, one per solenoid
Voltage	24 volts DC; 110-120 volts AC, 50/60 Hz	Construction Material	Valve Body: Cast Aluminum Spool: Stainless Steel Seals: Buna-N
Power Consumption (each solenoid)	3.5 watts on DC (at 10 bar); 6.5 VA holding on 50 or 60 Hz	Manual Override	Flush; Metal, non-locking
Temperature	Ambient: 40° to 120°F (4° to 50°C) Media: 40° to 175°F (4° to 80°C) <i>For other temperature ranges, consult ROSS.</i>		
Flow Media	Filtered air		
Pilot Supply	Internal or External; Selected automatically		

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

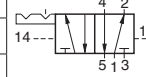
5-Way 2-Position Valves, Single Pressure Controlled, Spring Return

ISO Size	Port Size	Valve Model Number*	Avg. C _v	Weight lb (kg)
1	1/4 - 3/8	W6556A2411	1.0	0.8 (0.4)
2	3/8 - 1/2	W6556A3411	2.3	1.5 (0.7)
3	1/2 - 3/4	W6556A4411	3.4	3.0 (1.4)



5-Way 2-Position Valves, Double Pressure Controlled, Detented

ISO Size	Port Size	Valve Model Number*	Avg. C _v	Weight lb (kg)
1	1/4 - 3/8	W6556A2417	1.0	0.8 (0.4)
2	3/8 - 1/2	W6556A3417	2.3	1.5 (0.7)
3	1/2 - 3/4	W6556A4417	3.4	3.0 (1.4)



5-Way 3-Position Valves, Double Pressure Controlled

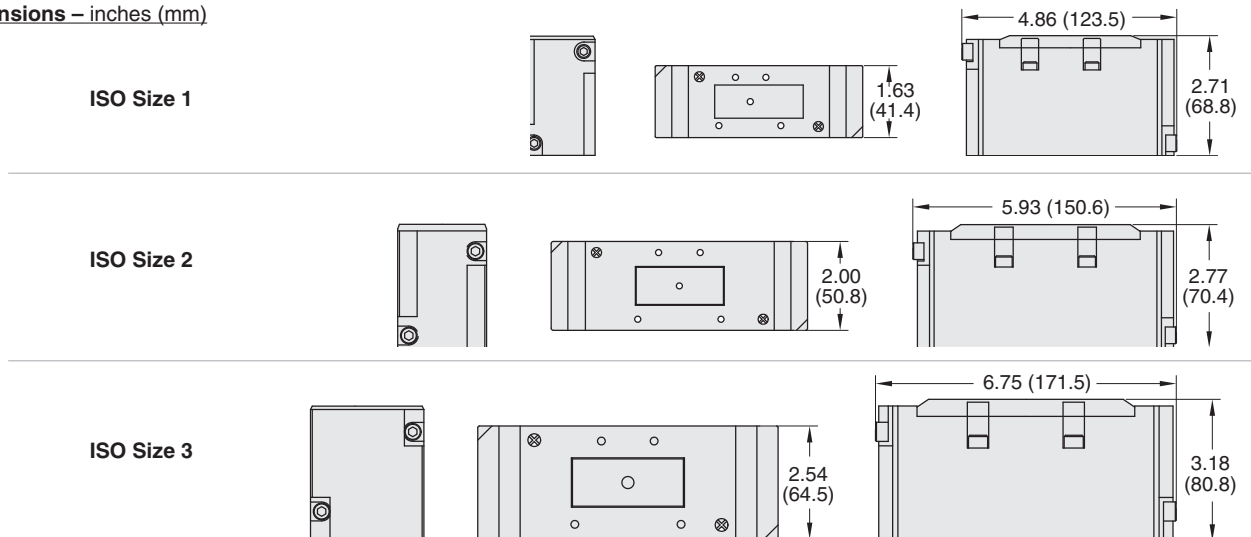
ISO Size	Port Size	Valve Model Number*			Avg C _v	Weight lb (kg)
		Power Center	Closed Center	Open Center		
1	1/4 - 3/8	—	W6557A2411	W6557A2417	1.0	0.8 (0.4)
2	3/8 - 1/2	W6557A3901	W6557A3411	W6557A3417	2.3	1.5 (0.7)
3	1/2 - 3/4	W6557A4900	W6557A4411	W6557A4417	3.4	3.0 (1.4)

 Power Center	 Closed Center	 Open Center
-------------------------	--------------------------	------------------------



* Sub-bases and manifold bases ordered separately, refer to page 15 or page 18 when used with serial bus system.

Valve Dimensions – inches (mm)



Accessories ordered separately, refer to page 16 thru 19 when used with serial bus system.

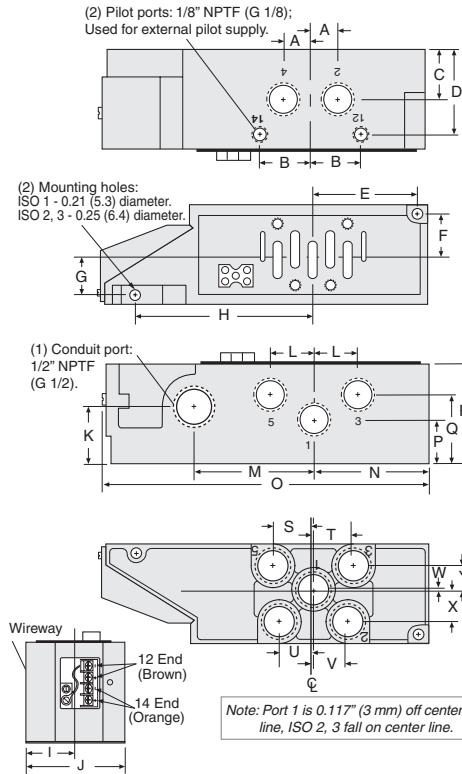
STANDARD SPECIFICATIONS

Construction Design	Spool and Sleeve	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) All sizes also available up to 232 psig (16 bar) Pilot Supply: Minimum 30 psig (2 bar) Pilot supply pressure must be equal to or greater than inlet pressure.
Mounting Type	Base	
Temperature	Ambient/Media: 40° to 175°F (4° to 80°C) For other temperature ranges, consult ROSS.	
Flow Media	Filtered air	
Pilot Supply	External	
		Construction Material Valve Body: Cast Aluminum Spool: Stainless Steel Seals: Buna-N

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

Side and Bottom-Ported Sub-Bases

ISO Size	Port Threads	Port Size	Sub-Base Model Number
1	NPT	3/8 Side/Bottom	972N91
	G	3/8 Side	D950N91
2	NPT	1/2 Side	953N91
	NPT	1/2 Side/Bottom	954N91
3	G	1/2 Side	D953N91
	NPT	3/4" Side/Bottom	958N91
	G	3/4 Side/Bottom	D958N91

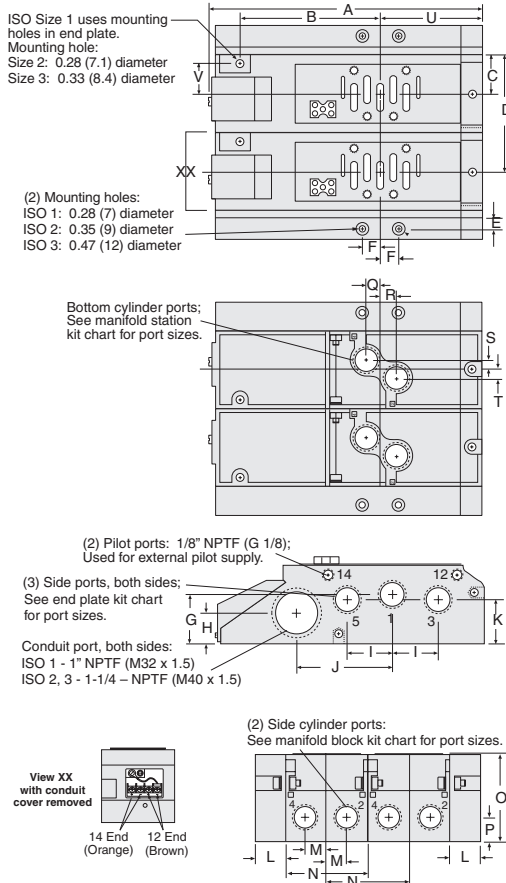


	Dimensions inches (mm)		
	ISO 1	ISO 2	ISO 3
A	0.5 (13)	0.6 (16)	0.8 (21)
B	1.0 (26)	1.3 (33)	1.8 (45)
C	0.8 (21)	1.2 (31)	1.3 (34)
D	1.5 (38)	1.9 (49)	2.7 (70)
E	1.6 (39)	2.3 (57)	2.5 (63)
F	0.9 (23)	1.1 (29)	1.5 (39)
G	0.9 (23)	1.1 (29)	1.4 (36)
H	3.6 (92)	4.3 (108)	5.4 (137)
I	1.1 (29)	1.4 (35)	1.8 (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)
O	6.5 (164)	7.8 (197)	9.3 (235)
P	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)
T	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)
X	0.7 (17)	0.8 (20)	0.8 (20)
Y	0.6 (16)	0.9 (20)	0.8 (20)

Bottom and End-Ported Manifold Bases

Each manifold station assembly includes a manifold assembly, socket head screws, nuts and seals.
Each end station kit includes left and right end plates, socket head screws, nuts and seals.

Manifold Station Assembly			
ISO Size	Port Size	Model Number	
		NPT Threads	G Threads
1	3/8" End/Bottom	960N91	D960N91
2	1/2" End/Bottom	962N91	D962N91
3	3/4" End/Bottom	964N91	D964N91



	Dimensions inches (mm)		
	ISO 1	ISO 2	ISO 3
A	7.2 (183)	9.0 (229)	10.6 (270)
B	4.9 (125)	6.0 (152)	7.1 (180)
C	1.0 (26)	1.3 (33)	1.7 (43)
D	3.1 (79)	3.9 (100)	5.1 (128)
E	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)
H	1.0 (25)	1.2 (30)	1.2 (31)
I	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)
O	2.2 (55)	2.6 (66)	3.1 (78)
P	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)

End Station Kit			
ISO Size	Port Size	Model Number	
		NPT Threads	G Threads
1	3/8"	493N86	D493N86
2	1/2"	494N86	D494N86
3	1"	495N86	D495N86

Assembled manifolds also available, consult ROSS.

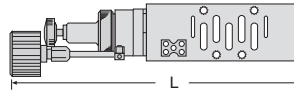
NOTE: Accessories from this page are to be used only with sub-bases and manifolds on page 15.

Interposed Regulators

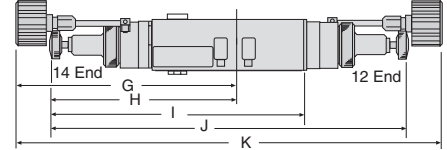
WARNING: Double interposed regulators will reverse output ports, the 12 solenoid will pressurize the 4 port, the 14 solenoid will pressurize the 2 port which may cause unexpected, potentially dangerous cylinder movement at valve pressurization.

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)**.

Single Interposed Regulator (top view)



Double Interposed Regulator (top view)

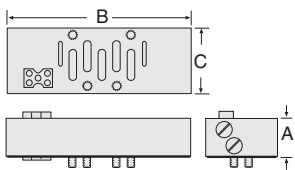


ISO Size	Model Number	Dimensions inches (mm)											
		A	B	C	D	E	F	G	H	I	J	K	L
1 – Single	965N91	1.6 (39)	1.8 (45)	0.9 (23)	1.7 (43)	0.9 (22)	2.5 (63)	6.2 (157)	7.2 (182)	8.0 (204)	11.6 (295)	13.6 (345)	9.0 (229)
1 – Double	966N91	1.6 (39)	1.8 (45)	0.9 (23)	1.7 (43)	0.9 (22)	2.5 (63)	6.2 (157)	7.2 (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)

Flow Control Kits

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.

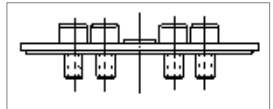
ISO Size	Model Number	Dimensions inches (mm)		
		A	B	C
1	1371N77	0.9 (24)	3.8 (97)	1.7 (43)
2	1372N77	1.3 (33)	5.1 (130)	2.0 (51)
3	1373N77	1.6 (41)	5.6 (142)	2.6 (66)



Blank Station Kits

A blank station plate is used to cover the top of a manifold station not in use.

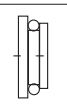
ISO Size	1	2	3
Kit Number	1381N77	1382N77	1383N77



Blocking Disk Kits

A blocking disk closes the ports between manifold stations.

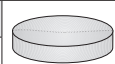
ISO Size	1	2	3
Kit Number	1376N77	1378N77	1380N77



Pilot Port Blocking Plug

The pilot blocking plug blocks the pilot ports between manifold stations.

ISO Size	1	2	3
Kit Number	1375N77	1377N77	1379N77



Transition Plates

To bank different manifold sizes together.

Left Manifold ISO Size	Right Manifold ISO Size	Model Number
1	2	1387N77
2	1	1388N77
2	3	1389N77
3	2	1390N77

Silencers

Port Size	Thread Type	Model Number		Avg. C _v	Dimensions inches (mm)		Weight lb (kg)
		NPT Threads	R/Rp Threads		Width	Length	
1/4	Male	5500A2003	D5500A2003	1.2	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	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.

Manifold Bases & End Station Kits

for ISO Size 1 & 2

for ISO 5599-2 Valves
W65 Series



Manifold Bases for ISO Size 1 & 2

Choose your options (in red) to configure your model number.

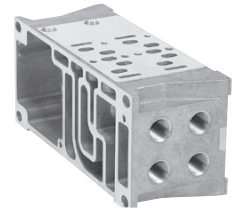
RPSHU11 **5** **8** **M** **1** **P**

ISO Size	Model
ISO 1	RPSHU11
ISO 2	RPSHU11

ISO Size	Port Size	Option
ISO 1	3/8 NPT	5
	3/8 BSPP	6
ISO 2	1/2 NPT	7
	1/2 BSPP	8

Circuit Board Address Configuration	
Interconnect, Single Address	J
Interconnect, Double Address	M

Gasket Options	
1, 3, 5 Ports Open and Pilots Open	1
1, 3, 5 Ports Closed and Pilots Open	2
1 Port Closed, 3, 5 Ports Open and Pilots Closed	3
1 Port Open, 3, 5 Ports Closed and Pilots Open	4
1, 3, 5 Ports Open and Pilots Closed	5
1, 3, 5 Ports Closed and Pilots Closed	6
1 Port Closed, 3, 5 Ports Open and Pilots Closed	7
1 Port Open, 3, 5 Ports Closed and Pilots Open	8



End Station Kits for ISO Size 1 & 2

Choose your options (in red) to configure your model number.

RPSHU20 **L2** **1** **0** **P**

Valve Type	
Plug-in (Internal Pilot)	RPSHU20
Plug-in (External Pilot)	RPSHU2X

Thread Type	
NPT	0
G	1*

*G thread type conforms to ISO 1179-1 w 228-1 threads.

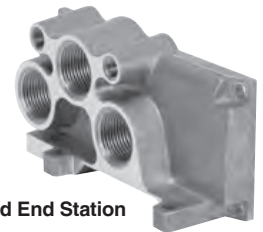
Left Hand End Plate Type	
25-Pin-D-Sub (top)#	L2
Industrial Communication	
ROSS Serial Bus	L6^
Turck BL67 with Valve Driver Module - For 16 Outputs	T1*
Turck BL67 with Valve Driver Module - For 32 Outputs	T2*

RPSHU11 gaskets included in each end station kit.
^ Valve Driver Module and 24 Output Cable installed. Must order communication modules separately. Must Order Bases with Circuit Boards.
* Turck Network and P2M Ethernet node communication module ordered separately.

Right Hand End Station Ports	
1/2 Exhaust and Inlet Ports	1
3/4 Exhaust and Inlet Ports	2



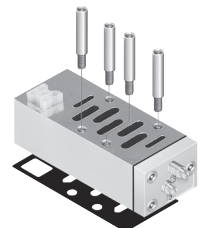
Left Hand End Station
25-pin D-Sub (top)



Hi-Flow - Right Hand End Station

Remote Pilot Access Plate Kits

ISO Size	Port Size	Kit Number		Description
		NPT Threads	G Threads	
1	1/8"	RPS401500CP	RPS401501CP	Kit includes: Pilot Port Access Plate, Gasket and Mounting Studs.
2	1/8"	RPS411500CP	RPS411501CP	
3	1/8"	RPS421500CP	RPS421501CP	



Blank Station Kits

ISO Size	Kit Number	Description
1	RPS4034CP	Kit includes: Blank Station Plate, Gasket, and Mounting Bolts.
2	RPS4134CP	
3	RPS4234CP	



Manifold Bases & End Station Kits for ISO Size 3, Plate and Blank Station Kits

for ISO 5599-2 Valves
W65 Series

Manifold Bases for ISO Size 3

Choose your options (in red) to configure your model number.

RPS4211	69	M	C	P
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Basic Series
ISO 3 RPS4211

Mounting Base Style / Port Size	
Manifold Base: 3/4 NPT Bottom / End Port	69
Manifold Base: 3/4 G Bottom / End Port	60*

*G ISO 1179 specifications.

Enclosures / Lead Length	
Circuit Board, Single Address	J†
Circuit Board, Double Address	M†
† Not Available with Sub-Base Kits.	

Note: When using the Enclosure / Lead Length "J" or "M" option:
 12 volts DC - Maximum number of coils is 13
 24 volts DC - Maximum number of coils is 21
 120 volts AC - Coils limited by the number of pins available in the connector (25-Pin D-Sub = 24 coils, 19-Pin Brad Harrison = 16, 12-Pin M23 = 8)
 240 volts AC - Must use "A" or "C" Option, Lead Wires or Terminal Blocks

End Station Kits for ISO Size 3

Choose your options (in red) to configure your model number.

RPS42	20	L2	0	C	P
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Basic Series
ISO Size 3 5599 RPS42

Options	
25-Pin, D-Sub	L2†*
Industrial Communication	
ROSS Serial Bus Communication	L6**
16 Outputs - Turck Serial Bus Communication Module	T1*
32 Outputs - Turck Serial Bus Communication Module	T2*

† Only Available with End Station Kit Type "20".
 ‡ RPSHU11 gaskets included in each end plate kit.
 * Valve Driver Module and 24 Output Cable Installed. Must order communication modules separately.
 + Must Order Bases with Circuit Boards.
 * Turck Network and P2M Ethernet node communication module ordered separately.

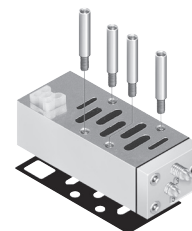
Thread Type	
NPT	0
G	1

Revision Level



Remote Pilot Access Plate Kits

ISO Size	Port Size	Kit Number		Description
		NPT Threads	G Threads	
1	1/8"	RPS401500CP	RPS401501CP	Kit includes: Pilot Port Access Plate, Gasket and Mounting Studs.
2	1/8"	RPS411500CP	RPS411501CP	
3	1/8"	RPS421500CP	RPS421501CP	



Blank Station Kits

ISO Size	Kit Number	Description
1	RPS4034CP	Kit includes: Blank Station Plate, Gasket, and Mounting Bolts.
2	RPS4134CP	
3	RPS4234CP	



Interposed Pressure Regulators

Choose your options (in red) to configure your model number.

RPS4038 **1** **6** **6** **C** **P**

Basic Series	
ISO Size 1	5599-2 RPS4038
ISO Size 2	55992 RPS4138
ISO Size 3	5599-2 RPS4238

Regulator Function	
Common Pressure Regulator	1
Independent Pressure Regulator	2
Selector Regulator	3

#4 Port Regulator / Gauge*	
0**	Line By-Pass Plate
1	1-30 psig w/o Gauge
2	2-60 psig w/o Gauge
3	5-125 psig w/o Gauge
4	1-30 psig w/Gauge
5	2-60 psig w/Gauge
6	5-125 psig w/Gauge
C	Air Pilot w/60 psig Gauge
D	Air Pilot w/160 psig Gauge

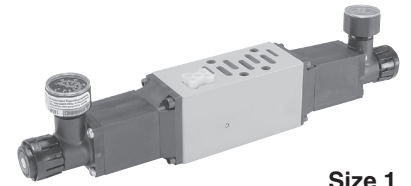
* For Common Pressure Regulator Option, Regulator Gauge callout must be the same number for both Port #4 and Port #2. (Example: 166)

** Pressure Line By-Pass Option can only be used with Independent and Selector Regulators (Option 2 & 3 in Interposed Block Function).

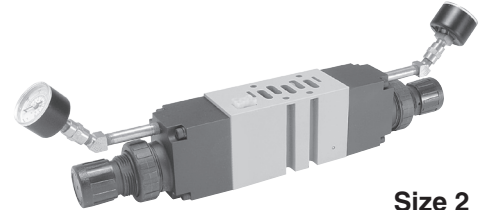
#2 Port Regulator / Gauge*	
0**	Line By-Pass Plate
1	1-30 psig w/o Gauge
2	2-60 psig w/o Gauge
3	5-125 psig w/o Gauge
4	1-30 psig w/Gauge
5	2-60 psig w/Gauge
6	5-125 psig w/Gauge
C	Air Pilot w/60 psig Gauge
D	Air Pilot w/160 psig Gauge

* For Common Pressure Regulator Option, Regulator Gauge callout must be the same number for both Port #4 and Port #2. (Example: 166)

** Pressure Line By-Pass Option can only be used with Independent and Selector Regulators (Option 2 & 3 in Interposed Block Function).



Size 1
(Dual Interposed Regulator Shown)



Size 2
(Dual Interposed Regulator Shown)

Ordering Components

- Manifold Base or Sub-Base Kit required
- Interposed Regulator Kit configured for Internal Pilot as standard
- Order valve as External Pilot

How to Configure Interposed Regulator / Valve Combinations

Internal Pilot Configuration - Pressure in Base Port 1 feeds regulator configured for Internal Pilot which feeds valve configured for External Pilot.

External Pilot Configuration - Size 1, Size 2, Size 3

An External Pilot pressure in Port 12 or 14 of the base feeds thru the Interposed Regulator 12 or 14 galley directly to the 12/14 pilot of the valve.

This configuration takes an External Pilot from the 12 port of the base and passes it thru the regulator to feed the 12 galley of the valve.

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.

Gauge Adapter Kit

Description	Model Number
Gauge Kit	RPS5651160P
1/8" Female to 1/8" Female Coupling	R207P-2*
1/8" Male to 1/8" Male Long Nipple	RVS215PNL-2-15*

* Included in Gauge Kit RPS5651160P.

Included with all Size 00 Regulators. Both kits are required on all Size 0 & 00 Regulators when the Regulator is on the last Station on the Right (14) End.



Interposed Flow Controls

ISO Size	Model Number
1	RPS4035CP
2	RPS4135CP
3	RPS4235CP

Both adjustment screws are located on the 12 end of the unit.

Interposed Flow Control mounts with its own studs, which means the valve uses standard bolts for mounting.

Interposed Flow Control is not to be used as a shut off device and is not bubble tight when needles are fully turned down.

A Interposed Flow Control and Common Port Interposed Regulator may be sandwiched together on a Manifold or Sub-Base. The Interposed Flow Control MUST be located between the manifold/Sub-Base and the Common Port Interposed Regulator.

Silencers

Port Size	Thread Type	Model Number		Avg. C _v	Dimensions inches (mm)		Weight lb (kg)
		NPT Threads	R/Rp Threads		Width	Length	
3/8	Male	5500A3013	D5500A3013	2.7	0.9 (21)	2.2 (55)	0.1 (0.1)
1/2	Male	5500A4003	D5500A4003	4.7	1.3 (32)	3.6 (91)	0.2 (0.1)
3/4	Male	5500A5013	D5500A5013	5.1	1.3 (32)	3.6 (91)	0.2 (0.1)

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





บริษัท ฟลูเทค จำกัด
FLU-TECH CO.,LTD

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