

DIRECTIONAL CONTROL ISO 5599-1 Valves W60 & W64 Series

<section-header>



ISO 5599-1 Valves W60 Series **Product Overview**

The ROSS® ISO 5599-1 valves W60 Series are base mounted spool and sleeve valves that conform to the ISO standards 5599-1 mounting interface.

These ISO Size 1, 2, and 3 valves are available as, 2- and 3-position, 5-ported 4-way valves. Solenoid pilot options include a nonlocking manual override, and either internal or external pilot supply.



Illustration examples.

VALVE FEATURES					
Spool Design	Spool and Sleeve construction with no seals to wear out				
Mounting Options	Individual sub-base or manifold base mounting				
Pilot Operation	Provides high shifting force with low power consumption				
Pilot Supply	Internal or external; selected automatically				
External Pilot Supply	Suitable for vacuum service				

	. c 6	Ror _	Availabl	e iniet P	ort Sizes	5		I	unction	s			
	eluid						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 Cv	Page
	1	•	•	•			•	•	•	•	•	0.8	
Solenoid Control	2			•	•		•	•	•	•	•	1.9	2 - 3 4 - 9
	3				•	•		•	•	•	•	3.8	
	1	•	•	•			•	•	•	•	•	0.8	
Pressure Control	2			•	•		•	•	•	•	•	1.9	2 – 3 10 – 15
	3				•	•	•	•	•	•	•	3.8	
Sub-Bases	•						•					•	26 – 28
Manifold Bases													29 – 33
Manifold Accessories													34 – 36

Specifications



	STANDARD SPECIFICATIONS					
			5/2 and 5/3 Valve			
	Construction Design S		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)		
		Controlled	Media	40° to 175°F (4° to 80°C)		
	Temperature		Ambient			
		Pressure Controlled	Media	40° to 175°F (4° to 80°C)		
OPERATING CONDITIONS	Flow Media		Filtered air			
	Operating Pressure		Vacuum to 150 psig (Vacuum to 10 bar)			
	Pilot Supply Pressure		ISO Size 1	Minimum 30 psig (2 bar)		
			ISO Size 2 & 3	Minimum 15 psig (1 bar)		
	External Pilot Supply		Must be equal to or greater than inlet pressure			
	Solenoids	113	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			
ELECTRICAL DATA FOR SOLENOID PILOT	Power Consumption	cn r	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		Bar Stock Aluminum			
CONSTRUCTION MATERIAL	Spool	cneclat	Stainless Steel			
	Seals	l or	Buna-N			
	IMPORTANT NOT	E: Please read carefully a	nd thoroughly all of the CAUTI	IONS, WARNINGS on the inside back cover.		

	PRODUCT CREDENTIALS						
CSA Certificate of Compliance	UL Certification for the U.S. and CANADA Markets	CE Conformity Declaration	EAC Conformity Declaration	CRN Certification			
	CRU eus Solenoid Pilot Valves Only	CE	EAC	Available for appropriately tested valves			

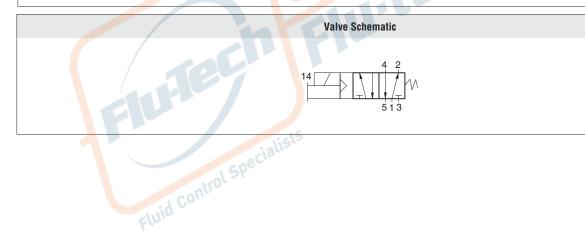
5/2 Single Solenoid Pilot Controlled Valves

SOLENOID PILOT CONTROLLED VALVES 5-Way 2-Position Valve							
	Size	Valve Model Number*					
·	5126	Voltage					
ISO	Port	24 V DC	110-120 V AC	230 V AC			
1	1/8 - 3/8	W6076B2401W	W6076B2401Z	W6076B2401Y			
2	3/8 - 1/2	W6076B3401W	W6076B3401Z	W6076B3401Y			
3	1/2 - 3/4	W6076B4401W	W6076B4401Z	W6076B4401Y			
For other voltages, o	For other voltages, consult ROSS.						

* Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages.

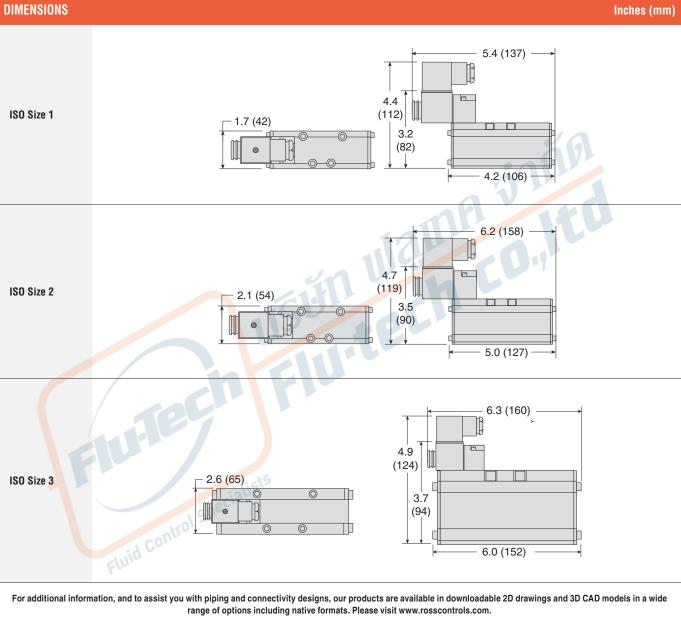
Siz	e	Flow Cv	Ave	rage Response Const	Wajahi	
0.91	Dort	1.0	М		F	Weight Ib (kg)
ISO	Port	1-2	IVI	1-2	2-3	
1	1/8 - 3/8	0.8	29	3.5	4.9	1.5 (0.7)
2	3/8 - 1/2	1.9 🗸	41	1.5	2.4	2.3 (1.1)
3	1/2 - 3/4	3.8	51	0.8	1.1	3.5 (1.6)

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.



Valve Technical Data

5/2 Single Solenoid Pilot Controlled Valves







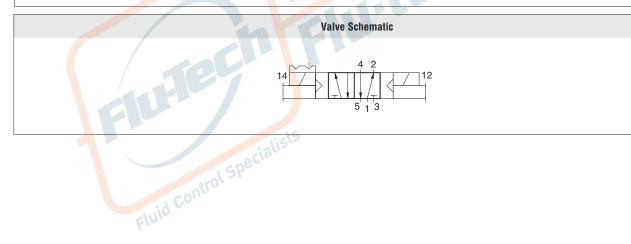
5/2 Double Solenoid Pilot Controlled Valves

SOLENOID PILOT CONTROLLED VALVES 5-Way 2-Position Valv							
	Size	Valve Model Number*					
	5126						
ISO	Port	24 V DC	110-120 V AC	230 V AC			
1	1/8 - 3/8	W6076B2407W	W6076B2407Z	W6076B2407Y			
2	3/8 - 1/2	W6076B3407W	W6076B3407Z	W6076B3407Y			
3	1/2 - 3/4	W6076E4407W W6076E4407Z W6076E4407Y					
For other voltages, o	For other voltages, consult ROSS.						

* Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages.

Size	9	Flow Cv	Average Response Constants*			Weight
0.01	Dout					Weight Ib (kg)
ISO	Port	1-2	1-2 M	1-2	2-3	
1	1/8 - 3/8	0.8	17	3.5	4.9	1.8 (0.9)
2	3/8 - 1/2	1.9	20	1.5	2.5	2.7 (1.2)
3	1/2 - 3/4	3.8	20	0.8	1.1	3.9 (1.8)

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.

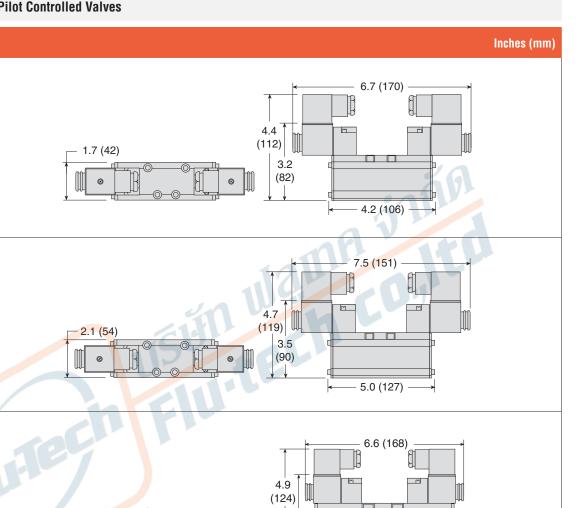


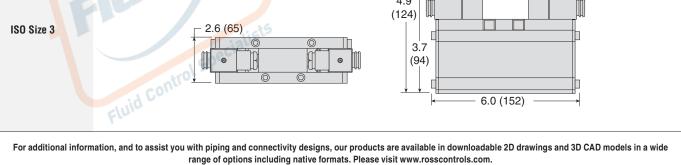
DIMENSIONS

ISO Size 1

ISO Size 2

5/2 Double Solenoid Pilot Controlled Valves







5/3 Double Solenoid Pilot Controlled Valves

NOID PILOT CONT	ROLLED VALVES				5-Way 2-Position Va
		Size		Valve Model Number*	
Center Position	·	5126		Voltage	
-	ISO	Port	24 V DC	110-120 V AC	230 V AC
	1	1/4 - 3/8	W6077A2951W	W6077A2951Z	W6077A2951Y
Power Center	2	3/8 - 1/2	W6077A3945W	W6077A3945Z	W6077A3945Y
-	3	3/8 - 3/4	W6077B4934W	W6077B4934Z	W6077B4934Y
	1	1/4 - 3/8	W6077B2401W	W6077B2401Z	W6077B2401Y
Closed Center	2	3/8 - 1/2	W6077B3401W	W6077B3401Z	W6077B3401Y
-	3	3/8 - 3/4	W6077B4401W	W6077B4401Z	W6077B4401Y
	1	1/4 - 3/8	W6077B2407W	W6077B2407Z	W6077B2407Y
Open Center	2	3/8 - 1/2	W6077B3407W	W6077B3407Z	W6077B3407Y
-	3	3/8 - 3/4	W6077B4407W	W6077B4407Z	W6077B4407Y

For other voltages, consult ROSS.

* Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages.

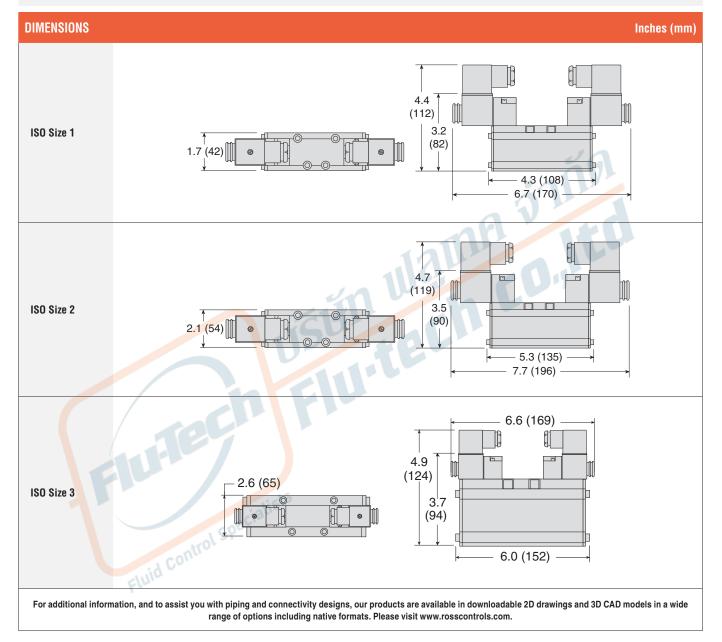
Siz	ze	Flow C _v	Ave	Weight		
ISO	Port	Port 1-2			F	
130	PUIL	1-2	М	1-2	2-3	lb (kg)
1	1/8 - 3/8	0.8	30	3.5	5.0	1.8 (0.9)
2	3/8 - 1/2	1.9	40	1.5	2.5	2.8 (1.3)
3	1/2 - 3/4	3.8	50	0.8	1.1	4.0 (1.8)

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.

Valve Schematic							
Power Center	Closed Center	Open Center					
4 2 14 W 12 513							

5/3 Double Solenoid Pilot Controlled Valves





5/2 Single Pressure Controlled Valves

PRESSURE CONTROLLED VALVES	3	5-Way 2-Position Valves
:	Size	Valve Model Number*
ISO	Port	
1	1/8 - 3/8	W6056B2411
2	3/8 - 1/2	W6056B3411
3	1/2 - 3/4	W6056B4411

* Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages.

Siz	e	Flow Cv Average Response Constants*		Average Response Constants*		
160	Dert	1.0	54			Weight Ib (kg)
ISO	Port	1-2	1-2 M	1-2	2-3	
1	1/8 - 3/8	0.8	29	3.5	4.9	0.8 (0.4)
2	3/8 - 1/2	1.9	41	1.5	2.4	1.5 (0.7)
3	1/2 - 3/4	3.8	51	0.8	1.1	3.0 (1.4)

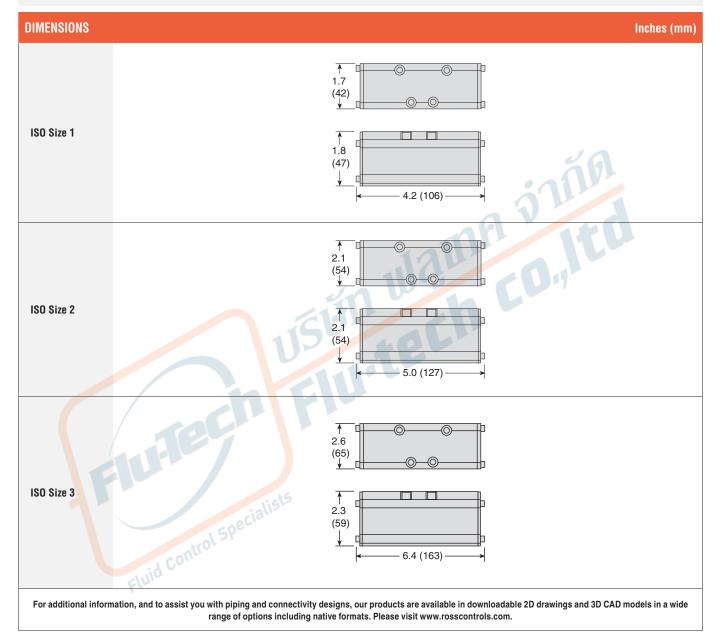
Valve Response Time – Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.

Valve Schematic 2 4 12 Fluid Control Specialists

Valve Technical Data

5/2 Single Pressure Controlled Valves





5/2 Double Pressure Controlled Valves

PRESSURE CONTROLLED VALVES	3	5-Way 2-Position Valves
5	Size	Valve Model Number*
ISO	Port	
1	1/8 - 3/8	W6056B2417
2	3/8 - 1/2	W6056B3417
3	1/2 - 3/4	W6056E4417

* Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages.

Siz	e	Flow C _v Average Response Constants		Average Response Constants*		
ISO	Port	1-2	м	F	3	Weight Ib (kg)
130	FUIL	1-2	М	1-2	2-3	
1	1/8 - 3/8	0.8	17	3.5	5.0	0.8 (0.4)
2	3/8 - 1/2	1.9	20	1.5	2.5	1.5 (0.7)
3	1/2 - 3/4	3.8	20	0.8	1.1	3.0 (1.4)

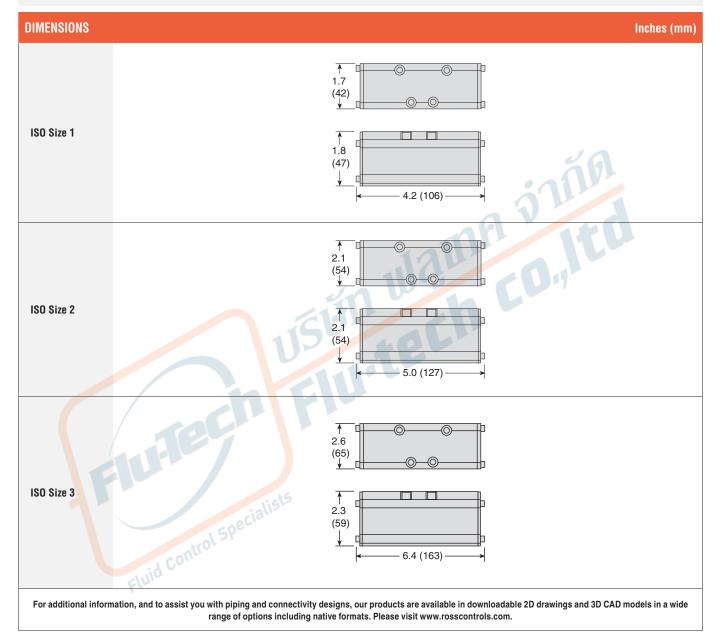
Valve Response Time – Response Time (msec) = $M + (F \cdot V)$. This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.

Valve Schematic Fluid Control Specialists

Valve Technical Data

5/2 Double Pressure Controlled Valves





5/3 Double Pressure Controlled Valves

		Size	Velue Medel Number*
Center Position		Size	Valve Model Number*
	ISO	Port	24 V DC
	1	1/8 - 3/8	W6057A2934
Power Center	2	3/8 - 1/2	W6057A3933
	3	1/2 - 3/4	W6057A4937
	1	1/8 - 3/8	W6057B2411
Closed Center	2	3/8 - 1/2	W6057B3411
	3	1/2 - 3/4	W6057B4411
	1	1/8 - 3/8	W6057B2417
Open Center	2	3/8 - 1/2	W6057B3417
	3	1/2 - 3/4	W6057B4417

* Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages.

Size	9	Flow Cv	Average Response Constants*		ants*	Woight
160	Dort	1-2	F		F	Weight Ib (kg)
ISO	Port	1-2	М	1-2	2-3	
1	1/8 - 3/8	0.8	30	3.5	5.0	1.0 (0.5)
2	3/8 - 1/2	1.9	40	1.5	2.5	1.5 (0.7)
3	1/2 - 3/4	3.8	50	0.8	1.1	3.0 (1.4)

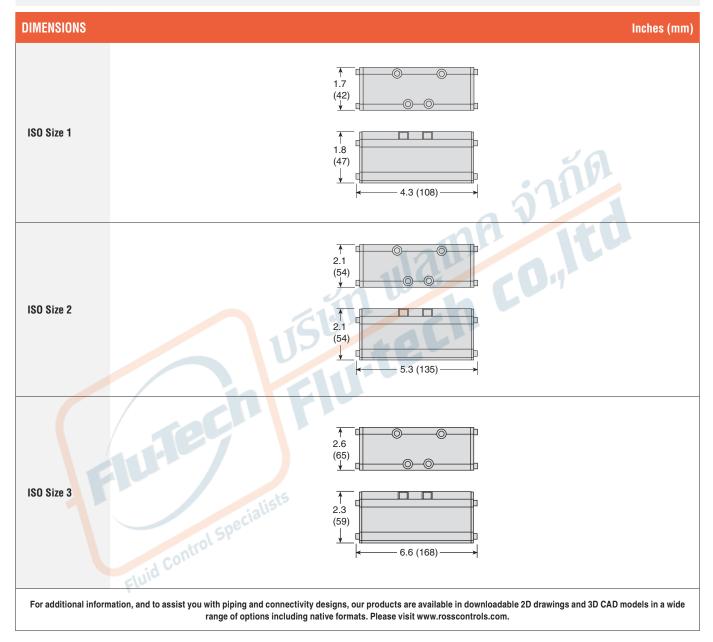
Valve Response Time – Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.

	Valve Schematic	
Power Center	Closed Center	Open Center
	estatists $\frac{14}{W_{T}} + \frac{4}{5} + \frac{2}{13} + \frac{12}{W}$	$\begin{array}{c} 4 \\ 14 \\ W \\ T \\ 51 \\ 3 \end{array}$

Valve Technical Data

5/3 Double Pressure Controlled Valves





ISO 5599-1 Valves W64 Series Product Overview

The ROSS® ISO 5599-1 valves W64 Series are base mounted poppet valves that conform to the ISO standard 5599-1 mounting interface.

These ISO Size 1, 2, and 3 valves are available as standard and high temperature valves, 2- and 3-position, 5-ported 4-way valves. Solenoid pilot options include a non-locking manual override, and either internal or external pilot supply.



	VALVE FEATURES
Poppet Design	Highly tolerant of contaminated air and are self compensating for wear
Mounting Options	Individual sub-base or manifold base mounting
Pilot Operation	Provides high shifting force with low power consumption
Pilot Supply	Internal or external; selected automatically
External Pilot Supply	Suitable for vacuum service

		-trol	Availabl	e Inlet P	ort Sizes	;	Functions						
							5,	/2		5/3		Maximum	
Actuation	ISO Size	1/8	1/4	3/8	1/2	2 3/4	Single	Double	Power Center	Closed Center	Open Center	Flow C _v	Page
	1	•	•	•			•	•	•	•	•	0.8	16 – 17 18 – 21
Solenoid Control	2			•	•		•	•	•	•	•	1.9	
	3				•	•	•	•	•	•	•	3.8	
	1	•	•	•			•	•		•	•	0.8	
Pressure Control	2			•	•		•	•	•	•	•	1.9	16 – 17 22 – 25
	3				•	•	•	•	•	•	•	3.8	-
Sub-Bases									26 – 28				
Manifold Bases								29 – 33					
Manifold Accessories													34 - 36

Specifications



		STANI	DARD SPECIFICATIO	INS			
	Function		5/2 and 5/3 Valve				
	Construction Design		Poppet				
GENERAL	Actuation		Electrical – Solenoid Pilot Controlled Pneumatic – Pressure Controlled				
	Mounting		Base Mounted				
	Connection		Threaded; G, NPT				
	Manual Override		Flush; metal, non-locking]			
				Ambient	40° to 120°F (4° to 50°C)		
			Standard Temperature	Media	40° to 175°F (4° to 105°C)		
		Solenoid Pilot Controlled		Ambient	40° to 175°F (4° to 80°C)		
		Controlled	High Temperature	Media	40° to 220°F (4° to 105°C)		
	Temperature			For other temperatu	re ranges, consult ROSS.		
		Pressure Controlled	Standard Temperature	Ambient			
OPERATING CONDITIONS				Media	40° to 120°F (4° to 50°C)		
CONDITIONS				Ambient			
				Media	40° to 175°F (4° to 80°C)		
			0	For other temperature ranges, consult ROSS.			
	Flow Media		Filtered air				
	Operating Pressure		30 to 150 psig (2 to 10 bar)				
	External Pilot Supply		Must be equal to or greater than inlet pressure				
	Solenoids		Rated for continuous duty	у			
	Operating Voltage (each solenoid)		24 volts DC 100-110 volts AC, 50 Hz, 100-130 volts AC 60 Hz 230-240 volts AC, 60 Hz				
ELECTRICAL DATA FOR SOLENOID PILOT	Power Consumption	Specialists	24 V DC 110-120 V AC 230-240 V AC 5.8 nominal, 6.5 watts maximum watts				
	Enclosure Rating	Specia	IP65, IEC 60529				
	Electrical Connection		DIN EN 175301-803 Form	n A			
	Valve Body		Bar Stock Aluminum				
CONSTRUCTION	Poppet		Aluminum & Stainless Ste	موا			
MATERIAL	Seals		Buna-N or Fluorocarbon				

PRODUCT CREDENTIALS											
CSA Certificate of Compliance	CE Conformity Declaration	EAC Conformity Declaration	CRN Certification								
	CE	EAC	Available for appropriately tested valves								

5/2 Single Solenoid Pilot Controlled Valves

SOLENOID PILOT CONTROLLED VALVES

		Valve Model Number*									
	Size		Standard Temperature		High Temperature						
		Voltage			Voltage						
ISO	Port	24 V DC	110-120 V AC	230 V AC	24 V DC	110-120 V AC	230 V AC				
1	1/8 - 3/8	W6476B2401W	W6476B2401Z	W6476B2401Y	W6476B2402W	W6476B2402Z	W6476B2402Y				
2	3/8 - 1/2	W6476B3401W	W6476B3401Z	W6476B3401Y	W6476B3402W	W6476B3402Z	W6476B3402Y				
3	1/2 - 3/4	W6476B4401W	W6476B4401Z	W6476B4401Y	W6476B4402W	W6476B4402Z	W6476B4402Y				

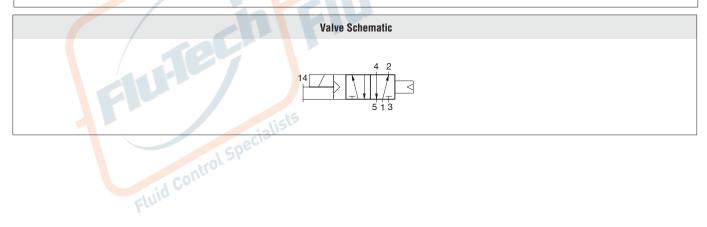
5-Way 2-Position Valves

For other voltages, consult ROSS.

* Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages.

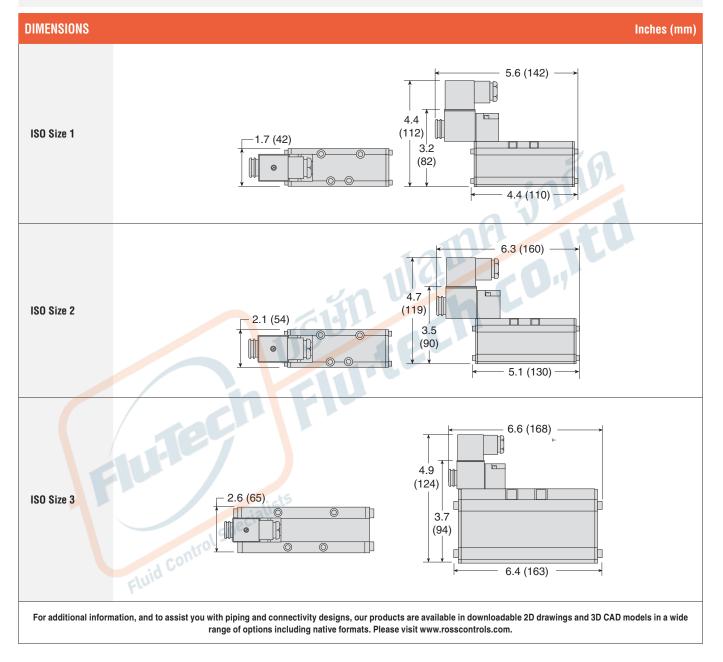
Size		Flow C_{ν}	Ave	Weight		
ISO	Port 1	1-2	М	1-2	2-3	Weight Ib (kg)
1	1/8 - 3/8	1.0 🗸	33	2.9	5.9	1.3 (0.6)
2	3/8 - 1/2	2.0	33	1.2	2.3	1.8 (0.8)
3	1/2 - 3/4	4.0	50	0.7	1.2	2.8 (1.3)

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.



Valve Technical Data

5/2 Single Solenoid Pilot Controlled Valves





5/2 Double Solenoid Pilot Controlled Valves

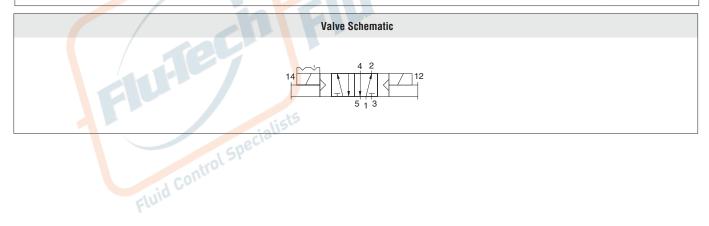
SOLEN	SOLENOID PILOT CONTROLLED VALVES 5-Way 2-Position Valves									
Valve Model Number*										
Size Standard Temperature				High Temperature						
		Voltage			Voltage					
ISO	Port	24 V DC	110-120 V AC	230 V AC	24 V DC	110-120 V AC	230 V AC			
1	1/8 - 3/8	W6476B2407W	W6476B2407Z	W6476B2407Y	W6476B2408W	W6476B2408Z	W6476B2408Y			
2	3/8 - 1/2	W6476B3407W	W6476B3407Z	W6476B3407Y	W6476B3408W	W6476B3408Z	W6476B3408Y			
3	1/2 - 3/4	W6476B4407W	W6476B4407Z	W6476B4407Y	W6476B4408W	W6476B4408Z	W6476B4408Y			

For other voltages, consult ROSS.

* Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages.

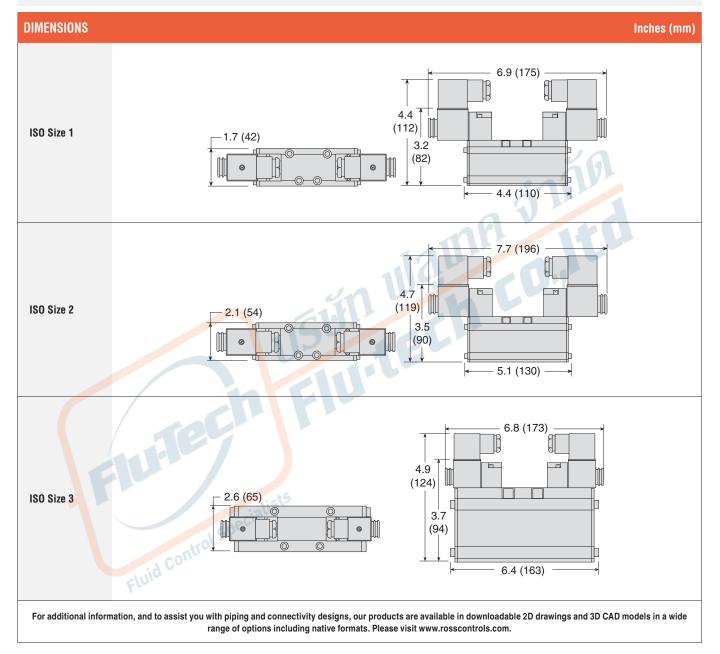
Size		Flow Cv	Ave	Weight		
ISO	Port 1	1-2	м		Weight Ib (kg)	
150	TUILI	1-2	IN I	1-2	2-3	
1	1/8 - 3/8	1.0 🗸	16	2.9	5.6	1.8 (0.8)
2	3/8 - 1/2	2.0	16	1.2	2.3	2.3 (1.0)
3	1/2 - 3/4	4.0	16	0.7	1.1	3.3 (1.5)

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 Solenoid Pilot Controlled Valves





5/2 Single Pressure Controlled Valves

PRESSURE CONTROLLED V	ALVES		5-Way 2-Position Valves
S	ize	Valve Mode	el Number*
ISO	Port	Standard Temperature	High Temperature
1	1/8 - 3/8	W6456B2411	W6456B2412
2	3/8 - 1/2	W6456B3411	W6456B3412
3	1/2 - 3/4	W6456B4411	W6456B4412

* Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages.

Fluid Control Specialists

Size		Flow Cv	Ave	Wainhi		
160	Port 1	1.0	5.4		Weight Ib (kg)	
ISO	Port I	1-2	М	1-2	2-3	
1	1/8 - 3/8	1.0	33	2.9	5.9	0.8 (0.4)
2	3/8 - 1/2	2.0	33	1.2	2.3	1.3 (0.6)
3	1/2 - 3/4	4.0	50	0.7	1.2	2.3 (1.1)

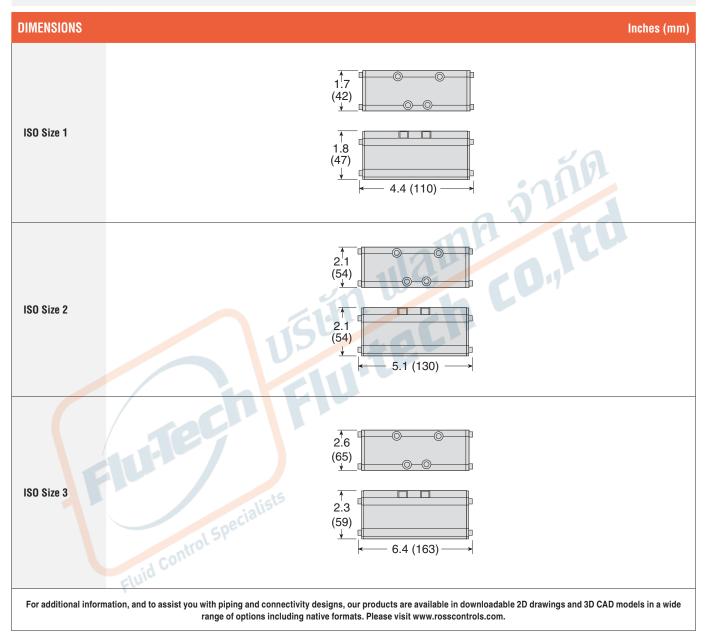
Valve Response Time – Response Time (msec) = $M + (F \cdot V)$. This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.

Valve Schematic

Valve Technical Data

5/2 Single Pressure Controlled Valves





5/2 Double Pressure Controlled Valves

PRESSURE CONTROLLED V	ALVES		5-Way 2-Position Valves
S	ize	Valve Mode	el Number*
ISO	Port	Standard Temperature	High Temperature
1	1/8 - 3/8	W6456B2417	W6456B2418
2	3/8 - 1/2	W6456B3417	W6456B3418
3	1/2 - 3/4	W6456B4417	W6456B4418

* Sub-bases and manifold bases ordered separately. Please see Sub-Bases and Manifolds pages.

Fluid Control Specialists

Size		Flow C _v	Ave	Weight		
160	Devi 1	1.0	D.A.	I	Weight Ib (kg)	
ISO	Port 1	1-2	М	1-2	2-3	
1	1/8 - 3/8	1.0	16	2.9	5.6	1.8 (0.8)
2	3/8 - 1/2	2.0	16	1.2	2.3	2.3 (1.0)
3	1/2 - 3/4	4.0	18	0.7	1.1	3.3 (1.5)

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.

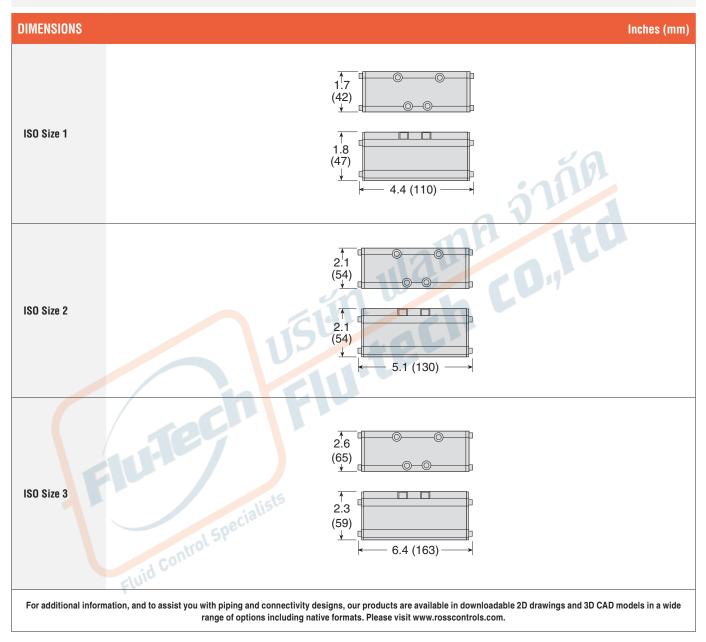
Valve Schematic

14

Valve Technical Data

5/2 Double Pressure Controlled Valves





Single Bases – Side Ported

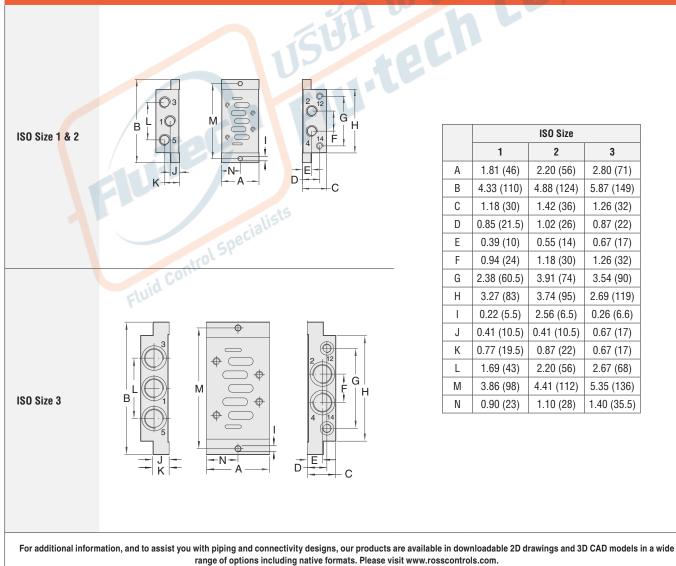
SIDE PORTED SINGLE BASES										
	Size Model Number									
100		Port		0 Thread	NDT Thread					
ISO	2, 4	1, 3, 5	12, 14	- G Thread	NPT Thread					
1	1/4	1/4	1/8	D2076C01	2076C01					
2	3/8	3/8	1/8	D2078C01	2078C01					
3	1/2	1/2	1/8	D2080C01	2080C01					
	ISO Size 1 & 2			ISO Size 3						
······································										





DIMENSIONS

Inches (mm)



Single Bases – Side Ported



SIDE PORTED SINGLE BASES

Size				Model Number				
0.91		Port		NDT Thread				
ISO	2, 4	1, 3, 5	12, 14	NPT Thread				
- 1	1/8	1/4	1/8	654K91				
I	3/8	3/8	1/8	642K91				
2	1/2	1/2	1/8	643K91				
3	3/4	3/4	1/2	644K91				

* NPT port thread only.



DIMENSIONS

IENSIONS					Inche
	ISU!			ISO Size	
			1	2	3
		A	1.89 (48)	2.24 (57)	2.80 (71
		В	4.33 (110)	4.88 (124)	5.87 (149)
		С	1.26 (32)	1.57 (40)	1.26 (32)*
3	2	D	0.93 (24)	1.18(30)	0.87 (22)
	G G	E	0.41 (38)	0.55 (14)	0.67 (17)
BL 💮 M		F	0.94 (24)	1.18 (30)	1.26 (32)
		G	2.28 (58)	2.92 (74)	3.54 (90)
5		Н	3.27 (83)	3.74 (95)	2.69 (119)
		I	0.22 (5.5)	0.26 (7)	0.26 (6.6)
		J	0.41 (10.5)	0.55 (14)	0.67 (17)
	C→	К	0.85 (22)	1.02 (26)	0.59 (15)
Fluid Contro		L	1.70 (43)	2.20 (56)	2.68 (68)
FLUIC		Μ	3.86 (98)	4.41 (112)	5.35 (136)
		* 1.7	'7 (45) on sub-	base 644K91	

Single Bases – Bottom Ported

BOTTOM PO	ORTED SINGLE E	BASES						
		Size			М	odel Number		
160		Port		C Thread			NDT The	and .
ISO	2, 4	1, 3, 5	12, 14	G Thread			NPT Thi	ead
1	1/4	1/4	1/8	D2077C01			20770	
2	3/8	3/8	1/8	D2079C01			20790	
3	1/2	1/2	1/8	D2081C01			20810	01
		Size 1 & 2]		-	ISO Size 3		
DIMENSIONS	3			in Wit	h	C		Inches (mr
ISO Size 1 &					A B C D E F	1 1.81 (46) 4.33 (110) 1.18 (30) 0.39 (10) 0.20 (5) 0.94 (24)	ISO Size 2.20 (56) 4.88 (124) 1.42 (36) 0.51 (13) 0.26 (6.5) 1.18 (30)	3 2.80 (71) 5.87 (149) 1.26 (32) 0.71 (18) 0.35 (9) 1.26 (32)
ISO Size 3				$ \begin{array}{c} $	G H J K L M N	2.36 (60) 3.27 (83) 0.22 (5.5) 0.41 (10.5) 0.91 (23) 1.81 (46) 3.86 (98) -	2.87 (73) 3.74 (95) 2.56 (6.5) 1.06 (27) 2.24 (57) 4.41 (112) -	3.54 (90) 2.69 (119) 0.26 (6.6) - - 5.35 (136) 1.40 (35.5)
For additional	information, and to as			ns, our products are available in d prmats. Please visit www.rosscor			ngs and 3D CAD	models in a wide

Manifold Bases – Side Ported



SIDE PORTED MANIFOLD BASES Size Model Number Port ISO G Thread NPT Thread 2, 4 12, 14 1 1/4 1/8 D2002K91 2002K91 3/8 2 1/8 D2003K91 2003K91 D2004K91 2004K91 3 1/2 1/8 ISO Size 1 & 2 ISO Size 3 In addition to the manifold stations, an end station kit must be ordered for each manifold installation. Connectors and gaskets are included with each manifold base. The ISO Size 1 & 2 manifold bases contain 3 O-rings and 2 connector brackets. DIMENSIONS Inches (mm) Н ISO Size ISO Size 1 & 2 1 2 3 1.69 (43) 2.20 (56) 2.80 (71) А В 4.33 (110) 4.72 (120) 7.48 (190) С 2.05 (52) 2.60 (66) 2.20 (56) D 0.39 (10) 0.57 (14.5) _ Ε 0.87 (22) 1.10 (28) _ F 1.65 (42) 2.17 (55) _ С G 2.95 (75) 3.74 (95) _ -H Н 3.50 (89) 4.13 (105) 5.51 (140) R ISO Size 3 L 0.87 (22) 1.10 (28) 1.18 (30) J 0.39 (10) 0.57 (14.5) 0.51 (13) θ Ð ſŊIJ Α ÷

For additional information, and to assist you with piping and connectivity designs, our products are available in downloadable 2D drawings and 3D CAD models in a wide range of options including native formats. Please visit www.rosscontrols.com.

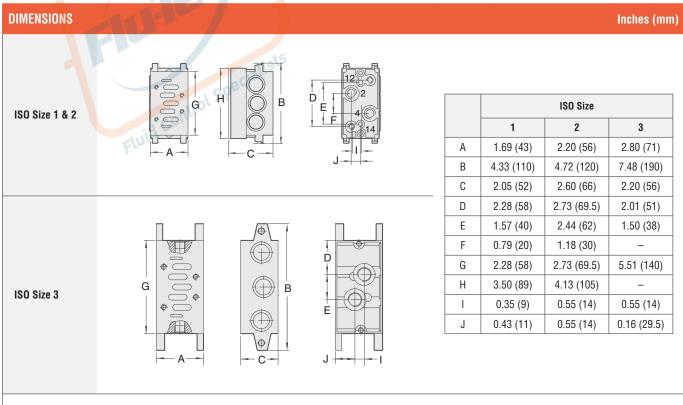
Manifold Bases – Bottom Ported

	D MANIFOLD BASES			
	Size		Model	Number
10.0	Pc	rt	0 Thread	NDT Thread
ISO	2, 4	12, 14	G Thread	NPT Thread
1	1/4	1/8	D2002K91	2002K91
2	3/8	1/8	D2003K91	2003K91
3	1/2	1/8	D2004K91	2004K91
	ISO Size 1 & 2		ISO	Size 3
	1000001			ะอุกัค



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

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



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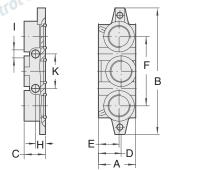
Manifold End Stations

DIMENSIONS

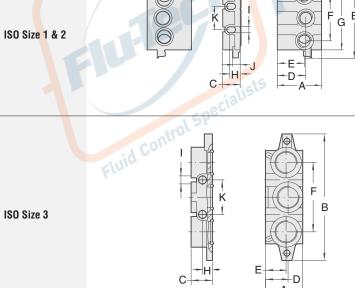
END STATIONS									
	Size	Model Number							
ISO	Port	- G Thread	NPT Thread						
130	1, 3, 5	G Tilleau	NFT IIIeau						
1	3/8	D723K86	723K86						
2	1/2	D724K86	724K86						
3	1	D731K86	731K86						
IS	50 Size 1 & 2	ISOS	Size 3						



В Ġ D



		ISO Size	
	1	2	3
А	2.05 (52)	2.60 (66)	2.20 (56)
В	3.94 (100)	4.72 (120)	7.48 (190)
С	0.87 (22)	1.02 (26)	1.26 (32)
D	1.53 (39)	1.67 (42.5)	1.34 (34)
Е	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)	-
Н	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)



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Inches (mm)

Manifold Air Supply Modules

AIR SUPPLY MO	DULES TOP & BO	OTTOM PORTS				
	Size			Model I	Number	
160	P	ort	Top I	Ports	Botton	1 Ports
ISO	2, 4	12, 14	G Thread	NPT Thread	G Thread	NPT Thread
1	1/4	1/8	D1997K91	725K86	D727K86	727K86
2	3/8	1/8	D1998K91	726K86	D728K86	728K86
	Top Ports	ISO SIze 1 & 2			Bottom Ports ISO Size 1 & 2	





 Top Ports

 ISO Size 1 & 2

	ISO	Size
	1	2
A	1.06 (27)	1.06 (27)
В	3.94 (100)	4.72 (120)
С	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)

Inches (mm)

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TRANSITION MODULES	

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

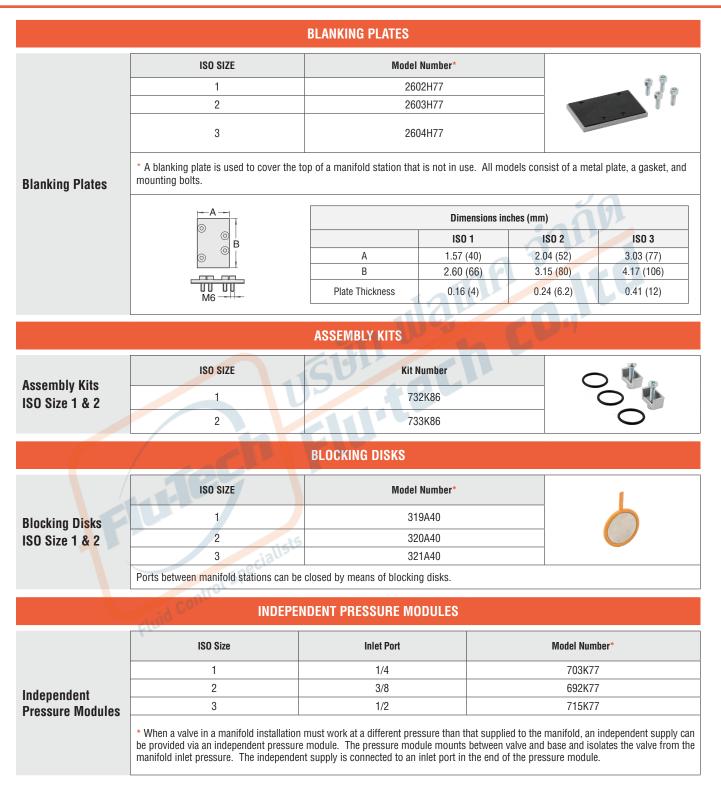


Different size ISO valves can be used in the same manifold installation by means of transition module. The inlet and exhaust ports of two different size manifold stations are connected by means of a transition module installed between the two stations.

DIMENSIONS

	100 4 0 0	T
	ISO 1 & 2	ISO 2 to 3
A	1.32 (33.5)	1.10 (28)
В	4.72 (120)	7.48 (190)
С	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)
Н	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)	-
М	2.05 (52)	1.61 (41)
	C D E G H I J K L	C 2.60 (66) D 3.94 (100 E 3.74 (95) F 2.95 (75) G 1.10 (28) H 1.38 (35) I 0.34 (8.5) J 0.28 (7) K 2.56 (6.5) L 1.58 (40)

Manifold Accessories



Manifold Accessories



INTERPOSED FLOW CONTROL

	ISO SIZE	Model Number
Interposed Flow	1	701B77
Control	2	702B77
for W60 Series	3	722K77
Valves	An interposed flow control unit regulates the ex	haust flow of air from a pneumatic cylinder, thereby controlling the extension and

retraction speeds. Separate controls regulates 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.
Interneed	Manually actuated with a 1/4 turn, the interp	posed shut-off isolates all ports, including the pilot.
Interposed Shut-Off		ISO Size 1 Dimensions - inches (mm)
		3.75 (95.3) 3.23 (82.0)

INTERPOSED PRESSURE REGULATORS

					Model N	umber	
	ISO Size	Pressur <mark>e</mark> psig (b <mark>ar</mark>)		Si	ngle		Double
			Left Har	nd (14)	Right Ha	nd (12)	Double
	1	10 (0.68) to 130 (9)	1300	K91	2000	K91	1302K91
	2	10 (0.68) to 130 (9)	1303	K91	2001	K91	1305K91
	2	5 (0.34) to 60 (4.13)	2044	K91	-		-
	3.01	10 (0.68) to 130 (9)	1306	K91	1307	K91	1308K91
Interposed Regulators	with left hand both outlet p	sure regulators allow the press	ntation. Singl	e pressure	regulators prov o be set indepe	vide the same	regulated pressure at uires no new piping.

Manifold Accessories

Flu-Tech

FLU-TECH CO.,LTD

				Cal	ole			y			Model	Number	
Pre-wired	Connection Type	Conn Ty				Len meters		Quantity	Cable Diameter	Without	Lig	hted Connec	tor *
Connectors	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		F -	End 1	End 2		()	ğ		Light	24 V DC	120 V AC	230 V AC
	Solenoid	DIN EN 17	75301-803	Connector	Flying	2 (6	3.5)	1	6-mm	721K77	720K77-W	720K77-Z	720K77-Y
	Solellolu	Forr	m A	CONNECTO	leads	2 (0	5.5)	1	10-mm	371K77	383K77-W	383K77-Z	383K77-Y
							y			IV	lodel Number		
Connectors	Connection Type		Connector Type		Fitting Connection	n	Quantity				Lighted	Connector*	
(no cable)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.,,,,			-	ō	Wit	hout Light	24 V	DC 12	O V AC	230 V AC
(Solenoid	DIN E	EN 175301	-803	Cable grip)	1	9	37K87	936K8	7-W 93	6K87-Z	936K87-Y
	301611010		Form A	1/2	2" NPT con	duit	1	7	23K77	724K7	7-W 72	4K77-Z	724K77-Y
	*Lights in conn	ectors with	a transluc	ent housing	can be use	ed as inc	dicator	lights	to show w	hen solend	<mark>ids are ener</mark> g	jized.	
	*Lights in conn	ectors with	a transluc	ent housing			4	lights	to show w	hen solend	ids are enerç	jized.	
	*Lights in conn	ectors with	a transluc	-	Connecto	rs Pinou	ut	lights	to show w	hen solend	ids are enerç	jized.	
	*Lights in conn	ectors with	a transluc	-		rs Pinou 1-803 Fo	ut orm A	2	to show w	hen soleno	ids are energ	jized.	
	*Lights in conn	ectors with	a transluc	-	Connecto	rs Pinou 1-803 Fo 1 - C 2 - N	ut orm A Commo lormall'	n y Clos	ed	then solend	ids are energ	jized.	
	*Lights in conn	ectors with	a transluc	-	Connecto	rs Pinou 1-803 Fo 1 - C 2 - N 3 - N	ut orm A Commo	n y Clos	ed	then soleno	ids are energ	jized.	
	*Lights in conn	ectors with	a transluc	-	Connecto IN EN 17530	rs Pinou 1-803 Fo 1 - C 2 - N 3 - N G - C	ut orm A Commo Vormally Vormally	n y Clos	ed	then soleno	ids are energ	jized.	
	*Lights in conn	ectors with	a transluc	-	Connecto	rs Pinou 1-803 Fo 1 - C 2 - N 3 - N G - C	ut orm A Commo Vormally Vormally	n y Clos	ed	hen soleno	ids are enerç	jized.	
	-			D	Connecto IN EN 17530	rs Pinou 1-803 Fo 1 - C 2 - N 3 - N G - C	ut orm A Commo Vormally Vormally	n y Clos y Ope	eed n	hen soleno	Flow	Pres	sure Range
	-	ectors with		-	Connecto IN EN 17530	rs Pinou 1-803 Fo 1 - C 2 - N 3 - N G - C	ut Commo Jormali Jormali Ground Model	n y Clos y Ope	eed n	C	0.1	Pres	sure Range sig (bar)
Silencers	Po		Thre	D	Connecto IN EN 17530 3 1 3 1 SILENO	rs Pinou 1-803 Fo 1 - C 2 - N 3 - N G - C CERS	ut Commo Vormally Vormally Ground Model	n y Clos y Ope	er	ead	Flow	Pres	
Silencers	Po	rt Size 1/4 3/8	Three	Di 2 E 2 E 2 E	Connecto IN EN 17530 3 1 3 1 SILENO R/ D5	rs Pinou 1-803 Fc 1 - C 2 - N 3 - N G - C CERS	ut prm A Commo Vormally Vormally Ground Model ad	n y Clos y Ope	er NPT Thr	ead 003	Flow Avg. C _v 2.1 2.7	Pres p 	sig (bar) 90 (0-20)
Silencers	Po	rt Size 1/4	Thr	D 2 C C C C C C C C C C C C C C C C C C	Connecto IN EN 17530 3 1 3 1 3 1 5 5 5 5 5 5 5 5	rs Pinou 1-803 Fc 2 - N 3 - N G - C CERS Rp Thre 500A20	ut corm A Commo Jormally Jormally Ground Model ad 003 013	n y Clos y Ope	er NPT Thr 5500A2	ead 003 013	Flow Avg. C _v 2.1	Pres p 	sig (bar)

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