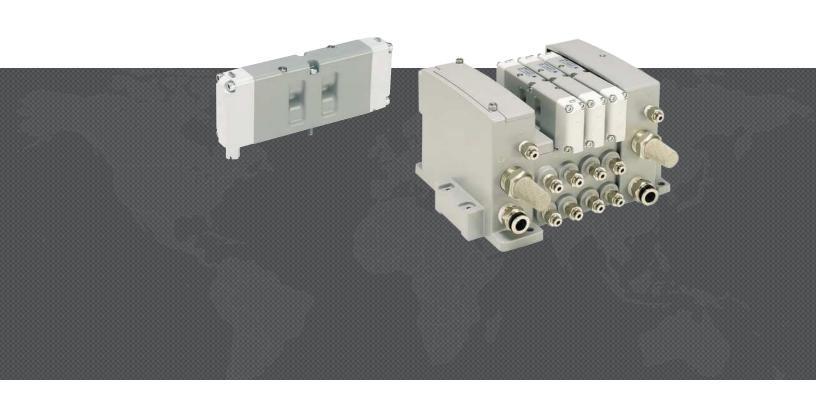


# DIRECTIONAL CONTROL ISO 15407-2 VALVES W66 SERIES

# PRODUCT CATALOG





# ISO 15407-2 Valves W66 Series Product Overview

The ROSS® 15407-2 valves W66 Series are base mounted spool and sleeve valves that conform to the ISO standards 15407-2 mounting interface. Manifold bases feature modular plug-together electrical connections terminating at end plates, offering a variety of terminal strip or multi-pin interfaces.

These ISO Size 0 (26mm) and 00 (18mm) valves are available as, 2- and 3-position, 5-ported 4-way valves. Solenoid pilot options include a locking or non-locking override, and either internal or external pilot supply. The spool and sleeve design means there are no seals to wear out.

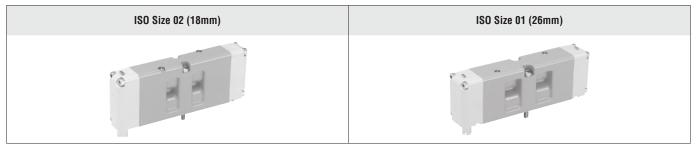
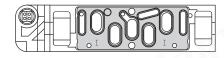


Illustration examples.

15407-2: Plug-in Standards for Size 01 (26mm) & Size 02 (18mm) Wide Valves



VALVE FEATURES				
Spool and Sleeve Design	Spool and Sleeve construction for high dirt tolerance; no seals to wear out			
Mounting Options	Individual sub-base or manifold base mounting			
Pilot Supply	Internal or external; suitable for vacuum service (with external pilot supply)			
Pilot Operation	Provides high shifting force with low power consumption			

7	Port	Sizes	Functions			Actuation					
\ \		) P	5,	/2		5/3					
ISO Size	1/8	1/4	Single	Double	Closed Center	Open Center	Pressure Center	Solenoid Control	Maximum Flow C <sub>v</sub>	Page	
02 (18mm)	•		•	•	•	•	•	•	1.0	0.7	
01 (26mm)		•	•	•	•	•		•	2.5	3 – 7	
Sub-Bases & Manifold Bases					8 – 9						
Accessories and Options										10	

# **Specifications**

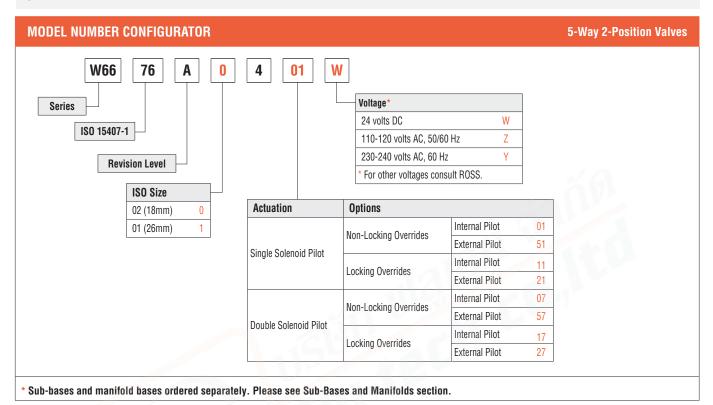


	Function		5/2 and 5/3 Valve	5/2 and 5/3 Valve		
	Construction Design		Spool and Sleeve			
	Actuation		Electrical – Solenoid Pilot (	Controlled		
GENERAL	Mounting		Sub-Base or Manifold			
	Connection		Threaded; G, NPT			
	Manual Override		Flush; rubber, non-locking			
	Townsustans	Solenoid Pilot	Ambient	F9 to 1009F / 1F9 to F090)		
	Temperature	Controlled	Media	5° to 120°F (-15° to 50°C)		
	Flow Media		Filtered air			
OPERATING	Operating Pressure		Vacuum to 145 psig (Vacuu	Vacuum to 145 psig (Vacuum to 9.9 bar)		
CONDITIONS	Pilot Supply Pressure	5/2 Valves	ISO Size 02 (18mm)	30 psig (2.07 bar)		
			ISO Size 01 (26mm)	25 psig (1.73 bar)		
		5/3 Valves	35 psig (2.41 bar)			
	External Pilot Supply		Must be equal to or greate	Must be equal to or greater than inlet pressure		
	Solenoids		Bi-polar, surge suppression (	(standard)		
ELECTRICAL	Operating Voltage (each solenoid)		24 volts DC 120 volts AC 60 Hz 230-240 volts AC, 60 Hz	9 9 11		
DATA FOR SOLENOID PILOT	Power Consumption			24 V DC – 6 watts 120 V AC – 11 VA inrush, 8.5 VA holding 230-240 V AC – 11 VA inrush, 8.5 VA holding		
	Indicator Light		One per solenoid	One per solenoid		
	Valve Body		Cast Aluminum	Cast Aluminum		
CONSTRUCTION	End Caps	1 41	Polybutylene Terephthalate	(PBT)		
MATERIAL	Fasteners		Zinc Plated Steel			
	Coils		Thermoset Plastic	Thermoset Plastic		

	PROD	UCT CREDENTIALS	
CSA Certificate of Compliance	CE Conformity Declaration	EAC Conformity Declaration	CRN Certification
c s	C€	ERC	Available for appropriately tested valves

# **Ordering Information**

#### 5/2 Solenoid Pilot Controlled Valves



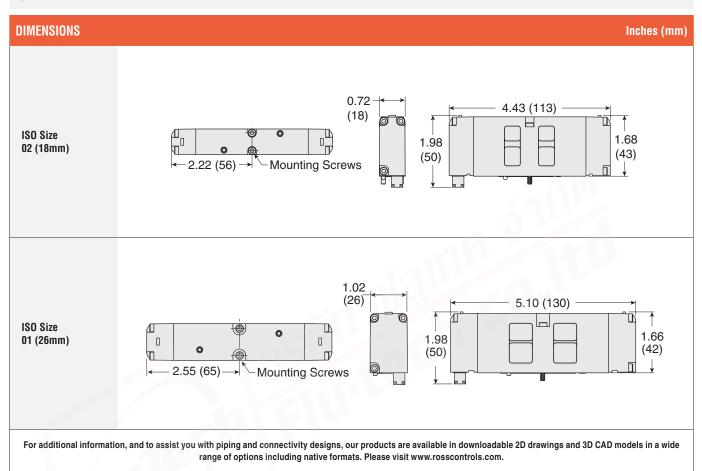
ISO Size	Valve Actuation	Flow C <sub>V</sub>	<b>Weight</b> Ib (kg)
00 (10 mm)	Single Solenoid Pilot	0.55	0.3 (0.15)
02 (18 mm)	Double Solenoid Pilot	0.55	0.4 (0.16)
04 (00,000)	Single Solenoid Pilot	4.4	0.6 (0.25)
01 (26mm)	Double Solenoid Pilot	1.1	

Valve Schematic			
Single Solenoid Pilot Controlled	Double Solenoid Pilot Controlled		
Sol. 14 D T T T W	Sol. 14		

## **Valve Technical Data**

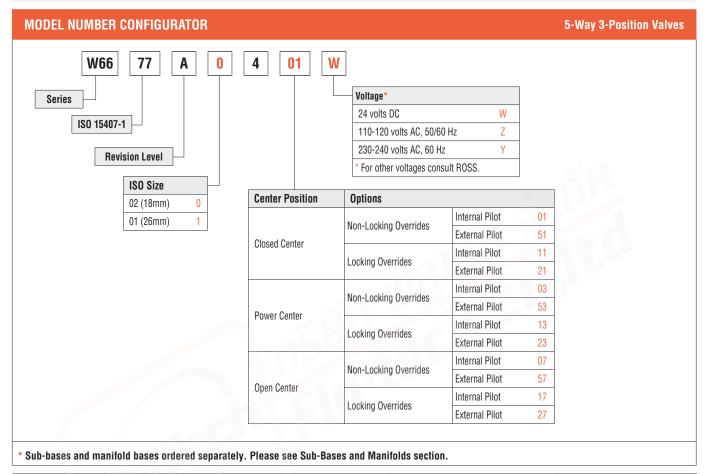


#### 5/2 Solenoid Pilot Controlled Valves



# **Ordering Information**

#### 5/3 Double Solenoid Pilot Controlled Valves



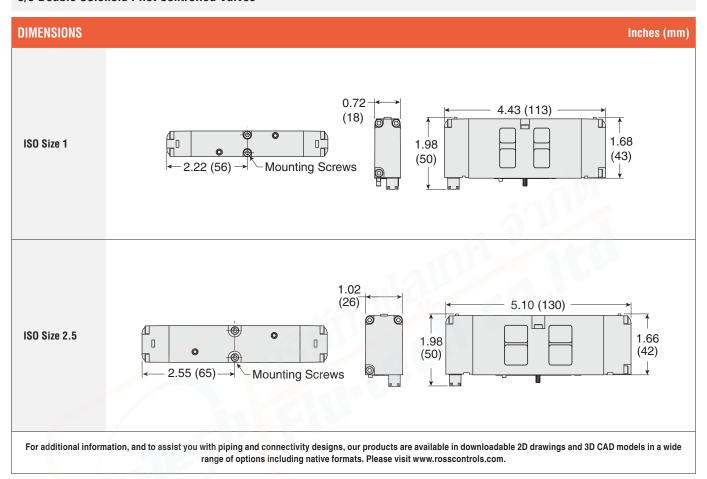
ISO Size	Valve Actuation	Flow Cv	<b>Weight</b> Ib (kg)
02 (18 mm)	Double Solenoid Pilot	0.55	0.4 (0.16)
01 (26mm)	Double Solenoid Pilot	1.1	0.6 (0.25)

	Valve Schematic					
Closed Center	Power Center	Open Center				
#14 D T T T T T T T T T T T T T T T T T T	#14	#14 D #12 #12				

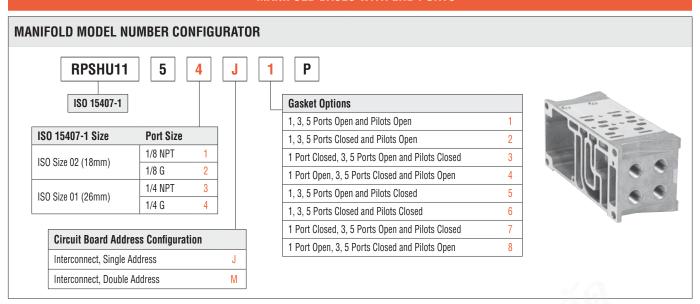
## **Valve Technical Data**



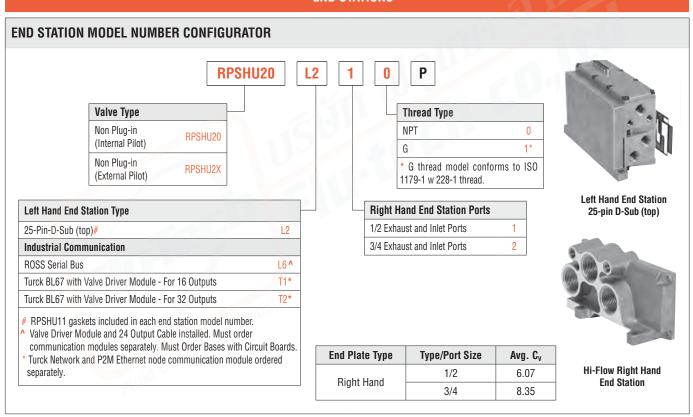
#### 5/3 Double Solenoid Pilot Controlled Valves



#### **MANIFOLD BASES WITH END PORTS**



#### **END STATIONS**



#### **BLANK STATIONS**

	ISO Size	Model Number*	
Diank Stations	02 (18mm)	RPS5634P	100 000
Blank Stations	01 (26mm)	RPS5534P	
	* Includes: Blank Station Plate, Gasket, and Mounti	ng Bolts.	



#### **GASKET KITS**

	Pilots Status	Kit Diagram Reference	Description	Kit Number
		1	Supply & Exhaust & Pilots Open	RPSHU11P
		2	Supply Closed, Exhaust & Pilots Open	RPSHU12P
Gasket Kits	Gasket Kits Pilots Opened	3	Supply & Exhaust Closed, Pilots Open	RPSHU13P
Manifold to Manifold		4	Supply & Pilots Open, Exhaust Closed	RPSHU14P
Pilots Blocked		5	Supply & Exhaust Open, Pilots Closed	RPSHU15P
	6	Supply & Pilots Closed, Exhaust Open	RPSHU16P	
	7	Supply & Exhaust & Pilots Closed	RPSHU17P	
	8	8	Supply Open, Exhaust & Pilots Closed	RPSHU18P



1 – Supply & Exhaust & Pilots Open



2 - Supply Closed, Exhaust & Pilots Open



3 - Supply & Exhaust Closed, Pilots Open



4 - Supply & Pilots Open, Exhaust Closed



5 - Supply & Exhaust Open, Pilots Closed



6 - Supply & Pilots Closed, Exhaust Open



7 - Supply & Exhaust & Pilots Close



8 - Supply Open, Exhaust & Pilots Closed

#### **INTERPOSED SUPPLY & EXHAUST MODULES**

Interposed Supply & Exhaust Modules

ISO Size	Outlet Port	Model Number*		
100 0120		G Thread	NPT Thread	
02 (18mm)	Supply	RPS561600P	RPS561601P	
	Exhaust	RPS561700P	RPS561701P	
01 (26mm)	<mark>Su</mark> pply	RPS551600P	RPS551601P	
	Exhaust	RPS551700P	RPS551701P	

<sup>\*</sup> Used on Size 00 & Size 0 valves to provide a pressure or exhaust path to individual valves.



#### INTERPOSED FLOW CONTROL

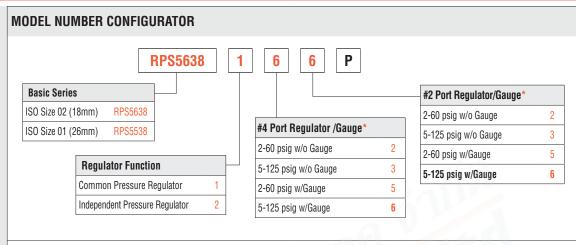
### Interposed Flow Controls

ISO Size	Model Number*
02 (18mm)	RPS5635P
01 (26mm)	RPS5535P

<sup>\*</sup> 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.



#### INTERPOSED PRESSURE REGULATORS



#### Pressure Regulators

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

Remote Air Pilot Operated for hard-to-reach pressure control Unregulated Pilot Pressure to valve for consistent valve shifting regardless of pressure adjustment.



#### **GAUGE ADAPTER**

# Gauge Adapter Kit

Description	Kit 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 02 Regulators. Both kits are required on all Size 01 & 02 Regulators when the Regulator is on the last Station on the Right (14) End.

#### **SILENCERS**

	Port Size	Thread Type	Model Number		Flow	Pressure Range
Silencers			R/Rp Thread	NPT Thread	Avg. C <sub>v</sub>	psig (bar)
	1/4	Male	D5500A2003	5500A2003	2.1	0-290 (0-20) maximum

