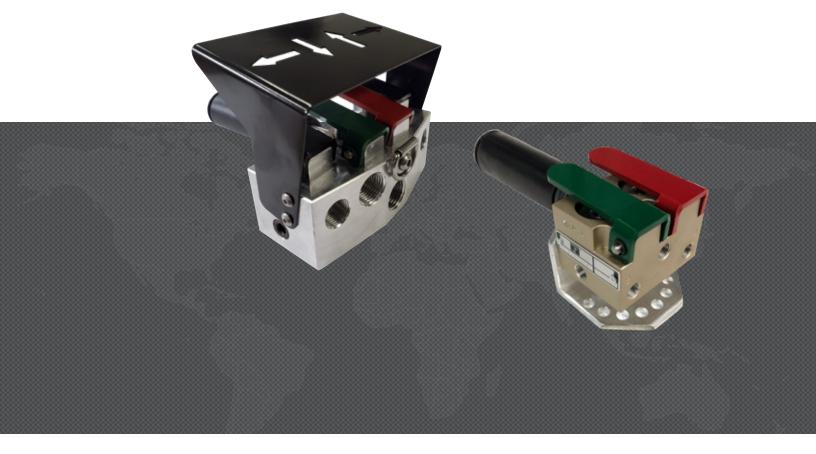


Manual Control Valves Pendant Valves

PRODUCT CATALOG





ROSS Pendant Control Valves are ergonomically designed for ease of use. The durable construction is designed to withstand the toughest environments. The high-flow capacity allows for speed of operation, while the variable stroke allows for optimized control by the operator.

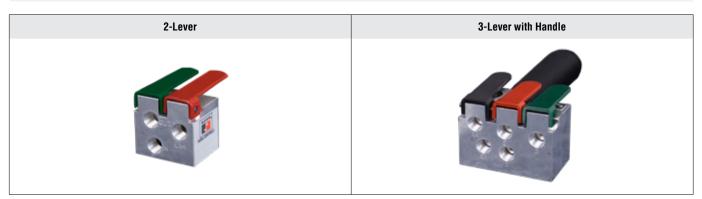


Illustration examples.

FEATURES

 Long Life High-Flow 	• Variable Control • High Speed • Feathering Capabilities • Dirt Tolerant • Poppet Design • Ergonomic Design
Single 3/2	The Single 3/2 pendant control valve may be used anywhere that requires manual pressure control or signaling. Some applications include small single acting cylinders, vacuum cup automation and other material handling devices. Pendant control valves are also used as an air pilot for a larger directional control valve. ROSS offers a wide range of Remote Air Pilot Directional Control Valves with porting 1/4" to 2-1/2".
Dual 2/2	The Dual 2/2 pendant control valve can be used in various material handling applications: Load Balancers, Lift Assists and Articulating Arms or anywhere a simple 2-way air signal is needed.
Dual 3/2	The Dual 3/2 pendant control valve can be used in various material handling applications: Air Hoists, Double Acting Cylinders, End Effectors (clamping/gripping) and vacuum cup automation. Bi-directional Air Motors can be controlled by the Dual 3/2 or used in a circuit with a larger directional control valve to run large Air Motors. ROSS offers a wide range of Remote Air Pilot Directional Control Valves with porting 1/4" to 2-1/2".
Triple 3/2	The Triple 3/2 pendant control allows the convenience of three separate signals and can be used in many of the above automation functions.
Quad 3/2	The Quad 3/2 pendant control is frequently used in Air Hoist with Air Trolley systems. It can also be used in many of the above applications with the convenience of four signals in one handle.
ROSS/FLEX [®] Solutions	To optimize your application, ROSS offers a rapid response engineering design approach to deliver products specific to your automation needs. If you need to combine various functions in one pendant control, contact ROSS.

Specifications



	Function	2/2 and 3/2 Valve			
	Construction Design	Poppet			
GENERAL	Actuation	Pneumatic	Manual		
GENERAL	Mounting	Туре	Line mounted		
	Mounting	Orientation	Hanging I-bolt and rigid dial mount		
	Connection	Threaded;	NPT, G		
	Temperature	Ambient			
		Media	-40° to 175°F (-40° to 80°C)		
OPERATING		For temperatures below 40°F (For temperatures below 40° F (4° C) air must be free of water vapor to prevent formation of ice.		
CONDITIONS		For temperatures below -40°F	For temperatures below -40° F (-40° C), consult ROSS.		
	Flow Media	Filtered air	Filtered air		
	Operating Pressure	0 to 150 psig (0 to 10 bar)			
	Valve Body	Aluminum			
CONSTRUCTION MATERIAL	Poppet	Stainless Steel			
	Seals	Buna-N	Buna-N		

3/2 Valve – High Flow with Variable Control



Illustration examples.

Port Size	Number of	Number of	Protective	Valve Model Number		Flow			
FUIL SIZE	Levers	Handles	Cover	NPT Thread	G Thread	C _v (NI/min)			
2/9	0 Lovor	022	With	2025A3232	D2025A3232				
3/0	3/8 2-Lever		2-Level	2-Level	One	Without	2025A3231	D2025A3231	
	4 Lover	One	With	2025A4432	D2025A4432	2.0 (2000)			
1/2	4-Lever	Olle	Without	2025A4431	D2025A4431				
	6-Lever	Two	Without	2025A4631	D2025A4631				

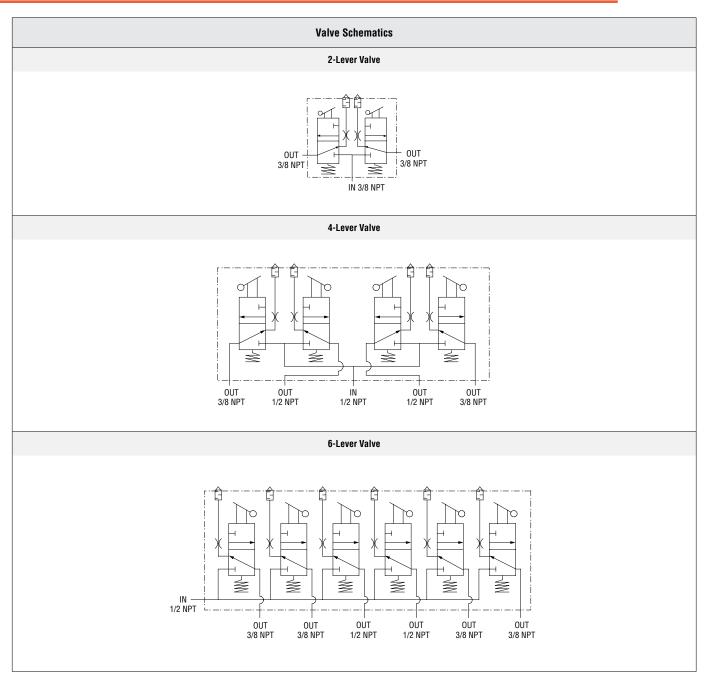
Dimensions

Valve Technical Data

Downloadable CAD models available.

Valve Technical Data







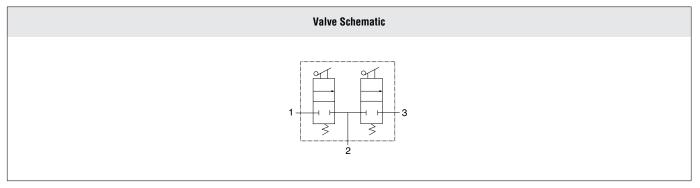
Ordering Information

2/2 Valve – Rigid Dial Mount with Designed Control



Illustration example.

Port Size Valve Type	Valve Type	Number of	Number of Handles	Valve Model Number		ow I/min)
	Levers		NPT Thread	1-2	2-3	
1/4	Dual High Flow	iah-Flow Two	None	2025A2901	0.7 (700)	0.6 (50)
1/4	1/4 Dual High-Flow		One	3900A0378	0.7 (720)	0.6 (50)



Dimensions Valve Technical Data
Downloadable CAD models available.



3/2 Valve – Rigid Dial Mount with Designed Control



Illustration examples.

Port Size Valve Type	Valve Type Number of Levers Number of Handles NPT Thread	Number of Handles	Valve Model Number		ow I/min)	
			NPT Thread	1-2	2-3	
1/4	Single	0.20	None	2025A2910		
1/4		Siligie	One	One	3900A1023	
1/8	Dual	Two	None	2025A1900	0.0 (040)	0.4 (410)
1/0			One	3900A0379	0.2 (240)	0.4 (410)
1/4	T ())	Three	None	2025A2902		
1/4	Triple	Three	One	3900A0407		

Valve Schematics						
1-Lever Valve	2-Lever Valve	3-Lever Valve				



Ordering Information

3/2 Valve – Rigid Dial Mount with Designed Control and Hand Lever



Illustration example.

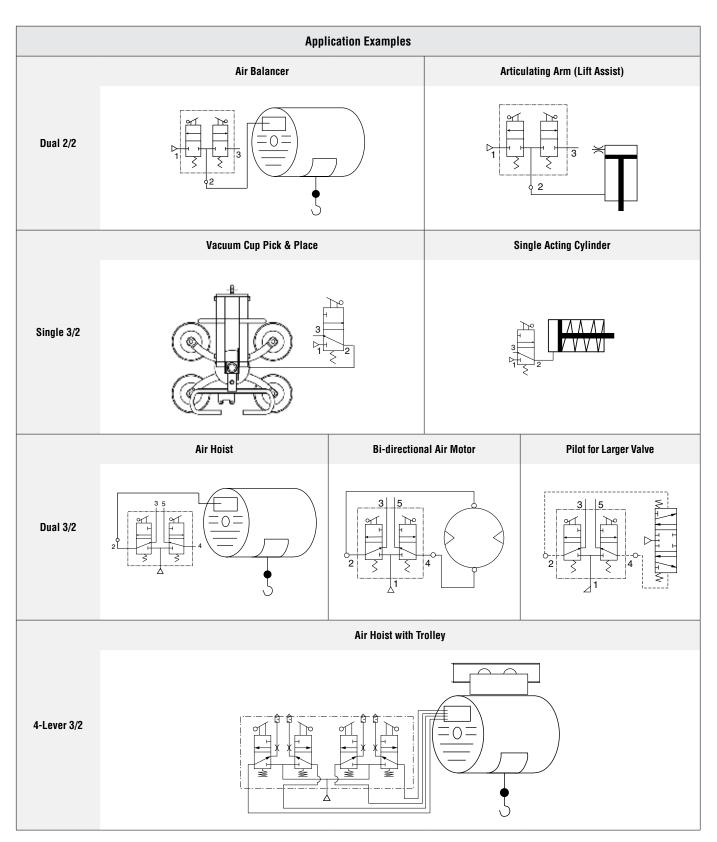
Port Size Valve Type	rt Size Valve Type Number of Number of Handles		Valve Model Number		ow I/min)		
		Levers	NPT Thread	1-2	2-3		
1/4	1/4 Single	Cinalo	0.00	None	2025A2904	0.0 (0.10)	0.4 (410)
1/4		le One	One	3900A1111	0.2 (240)	0.4 (410)	

Dimensions Valve Technical Data
Downloadable CAD models available.



APPLICATIONS

Air Hoists • Air Motors • Articulating Arms • Air Winches • Cylinder Actuation • End Effectors (clamps) • Remote Pilot Signal for another Valve • Air Balancers • Lift Assist • Vacuum Pick & Place

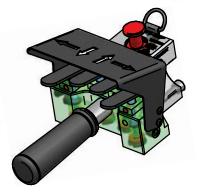


ROSS/FLEX® Engineering Design Services will match your Pendant Control needs.

Does your application need a slightly different Pendant Control Valve? Our rapid response engineers will work directly with your team to develop a specific solution for your needs. Using ROSS/FLEX[®] methodology allows new products to be developed in days and weeks, instead of months and years. Top companies worldwide rely on ROSS/FLEX[®] to quickly solve problems and improve productivity.

- * # of Levers
- * Lever Colors
- * 2-way, 3-way, 4-way Combinations
- * Specific Flows
- * Various Mounting
- * Port Sizes and Thread Types
- * Corrosion Protection Coatings
- * Brass, Stainless Steel or other Materials
- * E-Stop Options
- * Air Balancer Designs
- * Available for Private Label







Air Balancer Designs

Auxiliaries						
Energy Isolation L-O-X®	Flow Control	Remote Air Control Valves	Air Preparation FRL's			





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