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Hard copy product catalogues, and CDROMs have been published describing Kuhnke Pneumatics, Solenoids, Relays and Electronics; some divided into different books. A list of current publications is available on this web site or from our sales offices. Some may be available for download, but as substantially larger files.

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Important Note

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Quic-Pics Catalog

Pneumatic Power Valves

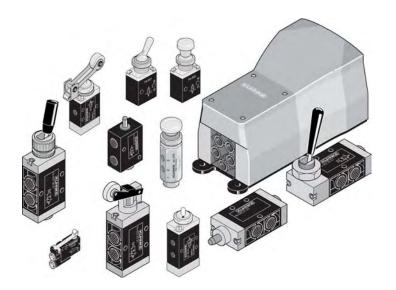
Series 75/76 -

Manual, Mechanical, Pneumatic and Electric Valves

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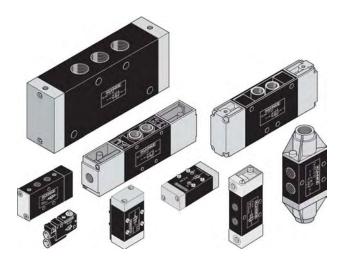


Mechanically and Manually Operated Valves

From micro valves through ¼ ported, heavy duty foot pedals and just about every type of operator needed to fit your application.

Pneumatically Operated Valves

From low pressure amplifiers to ½ inch ported power valves in all types of configurations.

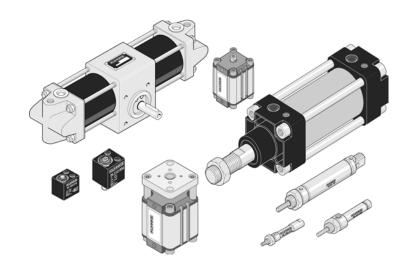


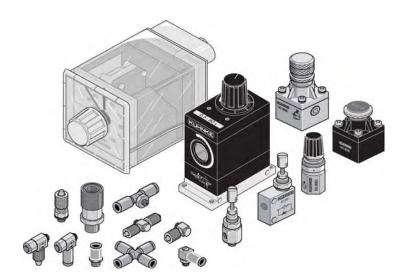
Electrically Operated Valves

A complete line of solenoid operated valves from 10mm wide bodies to $\frac{1}{2}$ inch ported sizes. In spool as well as poppet designs.

Cylinders and Rotary Actuators

Cylinders from 1/8 to 6 inch bores in brass, stainless or aluminum designs. Miniature short stroke cylinders and rotary actuators up to power size movers. And cylinders built to ISO 6431 and other important standards.



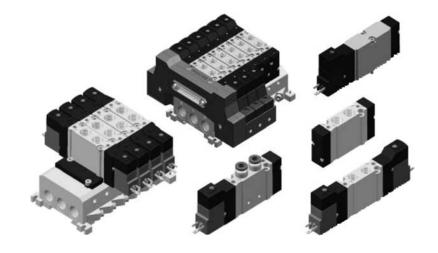


System Accessories

A wide range of pneumatic control system accessories including timers, counters, logic devices, precision regulators, flow controls and miniature pneumatic fittings.

Electronic/Pneumatic System Components

Valve islands incorporating I/O modules for Profi or Can-open bus systems. Valve modules for ASi control systems. Smart cylinders incorporating electronics for bus systems and controllers for cylinder load/speed control.



Notes

Kuhnke Power Valves

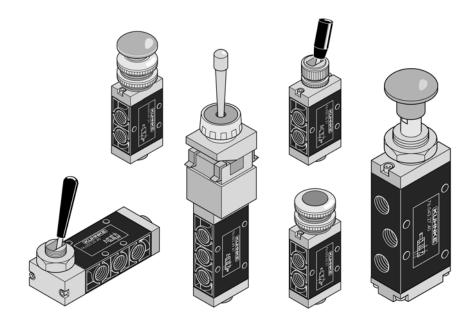


Manually Operated Valves

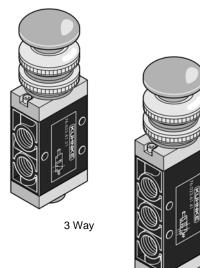
Kuhnke's manually operated valves have a wide variety of operators to satisfy most applications involving man-machine interface of pneumatic systems.

General purpose pushbuttons, toggle switches, knob operators, key switches, selector switches and foot pedals are available in 3 or 4 way standard manual as well as air pilot assisted designs. An assortment of maintained position, spring return, latching and pneumatic reset versions round out the selection.

Manually operated valves are constructed of aluminum die cast and machined bodies. Valves with ports in both NPT and Metric threads are available to satisfy connection preferences. Spool and sleeve design provides dependable long life service.



Mushroom Head Pushbutton, 1/8 Ports



Mushroom Heads provide easy palm operation of valve. Mushroom diameter is 1 3/8 inch. Button can be mounted in panels up to 1/2 inch thick or mounted via through body holes.

Decembrish	Orifice PB		Catalog Number	
Description	(Body No.)	Color	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Spring Return	6mm	Red	75022-61-21	76022-61-21
2	1/8 Port (1S)	Black	75022-61-23	76022-61-23
	(13)	Green	75022-61-24	76022-61-24
4 Way Spring Return	6mm	Red	75023-61-41	76023-61-41
4 2	1/8 Port	Black	75023-61-43	76023-61-43
513	(2S)	Green	75023-61-44	76023-61-44

Flush Head Pushbutton, 1/8 Ports

4 Way





Flush Head pushbuttons are used to prevent accidental operation or provide flat panel appearance. Button is flush with shroud surface and diameter is 1 3/8 inch.

D	Orifice Port PB		Catalog Number		
Description	on (Body No.)		NPT Ports (USA Std.)	Metric Ports (European Std.)	
3 Way Spring Return	6	Red	75022-62-21	76022-62-21	
□ • • • • • • • • • • • • • • • • • • •	6mm 1/8 Port (1S)	Black	75022-62-23	76022-62-23	
T P T T T T T T T	(10)	Green	75022-62-24	76022-62-24	
4 Way Spring Return	C	Red	75023-62-41	76023-62-41	
4 2	6mm 1/8 Port	Black	75023-62-43	76023-62-43	
513	(2S)	Green	75023-62-44	76023-62-44	

Operating pressure range is 0 to 145 PSI. Actuation force @ 90 PSI, is approx. 7.9 Lbs.

For normally open function on 3 way valve reverse connect ports 1-3. For 2 way operation, plug port 3.

Panel mounting hole is 1 3/16 inch (30mm) diameter. Above panel dimensions are 1.375" Dia. x .875" H. (Mushroom) or .375" H. (Flush Head). Behind panel dimensions of 3 way valve – 3.25" D x 1.375" H x .75" W; 4 way valve- 4" D x 1.375" H x .75" W. Allow space for fittings and tubing. Valve through body mounting holes are 3/16" diameter.

For valve specifications see appendix. For detail dimensions contact factory.

Mushroom Head Pushbutton, Air Pilot Assisted, 1/8 Ports

Mushroom Heads provide easy operation of valve. An internal air pilot assist using the supply air, reduces the force necessary to operate valve to 14 ounces.

Description	Orifice Port	РВ	Catalog	Number
Description	(Body No.)	Color	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Spring Return	6mm	Red	75022-65-21	76022-65-21
()	1/8 Port (1S)	Black	75022-65-23	76022-65-23
3 1	(13)	Green	75022-65-24	76022-65-24
4 Way Spring Return	6	Red	75023-65-41	76023-65-41
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6mm 1/8 Port (2S)	Black	75023-65-43	76023-65-43
513	(20)	Green	75023-65-44	76023-65-44





4 Way

Shrouded Head Pushbutton, Air Pilot Assisted, 1/8 Ports

Shroud Head prevents accidental operation. Button is flush with shroud surface and the diameter is 1 1/8 inches. Operating force 14 ounces.

December	Orifice Port	РВ	Catalog	Number
Description	(Body No.)	Color	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Spring Return	6mm	Red	75022-66-21	76022-66-21
2	1/8 Port (1S)	Black	75022-66-23	76022-66-23
	(10)	Green	75022-66-24	76022-66-24
4 Way Spring Return	6mm	Red	75023-66-41	76023-66-41
4 2	1/8 Port	Black	75023-66-43	76023-66-43
513	(2S)	Green	75023-66-44	76023-66-44





4 Way

Operating pressure range is 35 to 145 PSI. Minimum operating pressure is 35 PSI. Actuation force @ 90 PSI, is approx. 14 ozs. Panel mounting hole is 7/8 inch (22mm) diameter. Above panel dimensions are 1.375" Dia. x 1" H. (Mushroom) or .625" H. (Shroud Head). Behind panel dimensions of 3 way valve – 3.75" D x 1.375" H x .75" W; 4 way valve – 4.25" D x 1.375" H x .75" W. Allow space for fittings and tubing.

Valve through body mounting holes are 3/16" diameter.

For valve specifications see appendix. For detail dimensions contact factory.

Toggle Lever, Panel Mounted, 2 Position





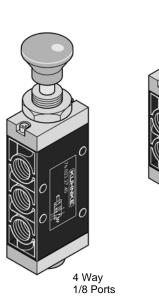
Toggle Lever valves can be used to manually switch air supplies on equipment. Valves are designed for panel mounting. Handles have a contemporary black molded grip and require 3.4 lbs. of force to operate.

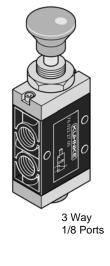
Description	(Rody I	Port		Catalog Number	
Description		Size	NPT Ports (USA Std.)	Metric Ports (European Std.)	
3 Way Maintained Position	6mm (1S)	1/8	75022-26-21	76022-26-21	
4 Way Maintained Position	6mm (2S)	1/8	75023-26-41	76023-26-41	

Knob valves have a small travel of about ¼ inch and can be easily operated with the palm of a hand. Knobs are constructed of sturdy black molded material. Available in spring return, pneumatic return and push-pull versions.

	Orifice	Port	Catalog	Number
Description	(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Push-Pull Knob (Maintained Position)	6mm (1S)	1/8	75022-27-00	76022-27-00
	8mm (3S)	1/4	75042-27-00	76042-27-00
3 Way Knob Spring Return	6mm (1S)	1/8	75022-27-21	76022-27-21
	8mm (3S)	1/4	75042-27-21	76042-27-21
3 Way Push-Pull Knob Pneumatic Reset*	6mm (1S)	1/8	75022-27-22	76022-27-22
210				
4 Way Push-Pull Knob (Maintained Position)	6mm (2S)	1/8	75023-27-40	76023-27-40
T 13	8mm (4S)	1/4	75043-27-40	76043-27-40
4 Way Knob Spring Return	6mm (2S)	1/8	75023-27-41	76023-27-41
T 13	8mm (4S)	1/4	75043-27-41	76043-27-41
4 Way Push-Pull Knob Pneumatic Reset*	6mm (2S)	1/8	75023-27-42	76023-27-42
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8mm (4S)	1/4	75043-27-42	76043-27-42

Knob Operator, 2 Position







1/4 Ports



^{*} Pneumatic Reset Valves operate manually or are returned by a pneumatic signal (35 PSI minimum) applied to an auxiliary 1/8 port.

Operating pressure range is 0-145 PSI. Actuation force @ 90 PSI: 1/8 port approx. 3.4 Lbs., 1/4 port 11.3 Lbs.

For normally open function on 3 way valves reverse connect ports 1-3. For 2 way operation, plug port 3.

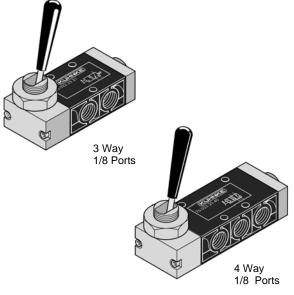
Page mounting hole size for 1/8-ported valves is 5/8 inch diameter, for 1/4-ported valves 7/8 inch Above

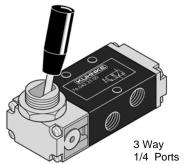
Panel mounting hole size for 1/8-ported valves is 5/8 inch diameter, for 1/4-ported valves, 7/8 inch. Above panel dimensions: 1/8-ported are 1" Dia. x 1.5" H: 1/4-ported- 1.5" Dia. x 2.25" H.

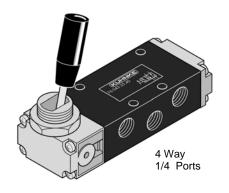
Typical behind panel dimensions of 4 way 1/8 ported valves are 2.5" D x 1.375" W x .75" H; 1/4 ported valves- 4" D x 2" W x 1" H. For 3 way valves subtract .75" from depth. For pneumatic return add 1" to depth dimension. Allow space for fittings and tubing.

For valve specifications see appendix. For detail dimensions contact factory.

Lever Operator, 2 Position







Lever valves can be used to manually switch air supplies on equipment or operate cylinders and other devices. Valves can be panel mounted or fastened to a surface via body mounting holes. Handles have a contemporary black molded grip and require 3.4 lbs. of force to operate. Valves are available in spring return, pneumatic return and maintained position versions.

Description	Orifice	Port	Catalog Number		
Description	(Body No.)		NPT Ports (USA Std.)	Metric Ports (European Std.)	
3 Way Maintained Position	6mm (1S)	1/8	75022-25-00	76022-25-00	
2 2 3 1	8mm (3S)	1/4	75042-25-00	76042-25-00	
3 Way Spring Return	6mm (1S)	1/8	75022-25-21	76022-25-21	
	8mm (3S)	1/4	75042-25-21	76042-25-21	
3 Way Pneumatic Reset*	6mm (1S)	1/8	75022-25-22	76022-25-22	
3 1	8mm (3S)	1/4	75042-25-22	76042-25-22	
4 Way Maintained Position	6mm (2S)	1/8	75023-25-40	76023-25-40	
513	8mm (4S)	1/4	75043-25-40	76043-25-40	
4 Way Spring Return	6mm (2S)	1/8	75023-25-41	76023-25-41	
	8mm (4S)	1/4	75043-25-41	76043-25-41	
4 Way Pneumatic Reset*	6mm (2S)	1/8	75023-25-42	76023-25-42	
9 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8mm (4S)	1/4	75043-25-42	76043-25-42	

^{*} Pneumatic Reset Valves operate manually or are returned by a pneumatic signal (35 PSI minimum) applied to an auxiliary 1/8 port. Operating pressure range is 0-145 PSI. Actuation force @ 90 PSI, is approx. 3.4 Lbs.

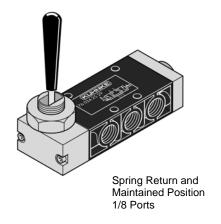
For normally open function on 3 way valves, reverse connect ports 1-3. For 2 way operation, plug port 3.

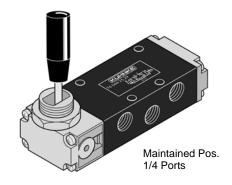
Panel mounting hole size for 1/8-ported valves is 5/8 inch diameter, for 1/4 ported valves, 7/8 inch. Through body mounting holes are 3/16" dia. Typical dimensions of 4 way 1/8 ported valves are 3.75" L x 1.375" W x .75" D. For 1/4 ported valves: 4.75" L x 2" W x 1" D. For 3 way valves subtract .75" from L dimension. For pneumatic return valves add 1" to L dimension. Allow space for fittings and tubing.

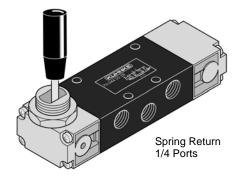
Lever Operator, 4 Way, 3 Position

Three position valves are used mostly to position cylinders manually. The operator controls the cylinder direction by moving the lever side to side. Valves with all ports open in the center position allow the cylinder piston rod to move freely, while valves with all ports closed in the center position will hold the cylinder in the desired position when the lever is returned to center. Valves can be panel or body mounted.

5	Orifice	Port	Catalog	Number
Description	(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
Spring Return to Center All ports open in center position.	6mm (2S)	1/8	75024-25-28	76024-25-28
% T T T T T T T T T T T T T T T T T T T	8mm (4S)	1/4	75044-25-28	76044-25-28
Maintained Position All ports open in center position.	6mm (2S)	1/8	75024-25-29	76024-25-29
513	8mm (4S)	1/4	75044-25-29	76044-25-29
Spring Return to Center All ports <i>closed</i> in center position.	6mm (2S)	1/8	75024-25-38	76024-25-38
% 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8mm (4S)	1/4	75044-25-38	76044-25-38
Maintained Position All ports <i>closed</i> in center position.	6mm (2S)	1/8	75024-25-39	76024-25-39
2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8mm (4S)	1/4	75044-25-39	76044-25-39





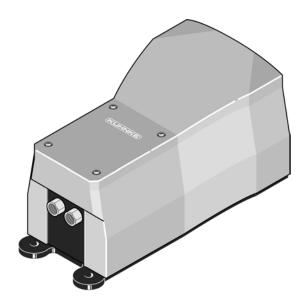


Operating pressure range is 0-145 PSI. Actuation force @ 90 PSI, is approx. 3.4 Lbs.

Panel mounting hole size for 1/8-ported valves is 5/8 inch diameter, for 1/4-ported valves, 7/8 inch. Through body mounting holes are 3/16" dia. Typical dimensions of spring return 1/8 ported valves are 4" L x 1.375" W x .75" D. For 1/4 ported valves: 5.375" L x 2" W x 1" D. Above panel dimensions including handle for 1/8-ported valves – 2.5", 1/4-ported valves –3.375". Allow space for fittings and tubing.

For valve specifications see appendix. For detail dimensions contact factory.

Foot Pedal, 3 Way, 1/8 Ports



Foot pedal valves can be used to operate devices which hold work pieces in place on bench workstations or perform punching or drilling operations on production pieces. Housing shields pedal preventing accidental operation. Enclosure is constructed of polycarbonate and available in high visibility yellow or blue colors.

.	Orifice		Catalog	Number
Description	Port	Color	NPT Ports**	Metric Ports
3 Way Spring Return Normally Closed	2mm 1/8	Yellow	(USA Std.) 75026-68-21	(European Std.) 76026-68-21
	2mm 1/8	Blue	75026-69-21	76026-69-21
3 Way Latch/Unlatch Normally Closed	2mm 1/8	Yellow	75026-68-29	76026-68-29
74 T N	2mm 1/8	Blue	75026-69-29	76026-69-29

^{**} For NPT versions, a metric ported foot pedal unit is supplied with NPT fitting adaptor kits.

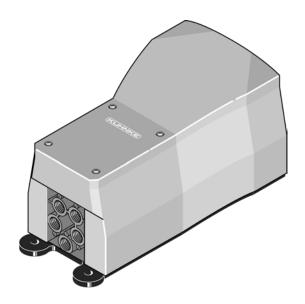
Operating pressure range is 0 to 145 PSI. Actuation force @ 90 PSI, is approx. 8 lbs.

Enclosure dimensions are 9 " L x 5 5/8" W x 4 5/8" H. Enclosure- polycarbonate, valve body die cast aluminum housing with Buna N seals. Foot pedals with 2mm orifice valves have an internal non-accessible exhaust port.

Foot Pedal, 1/4 Ports

Foot pedals are available in 3 or 4 way spring return or maintained versions. Latching pedals can be used to lock work pieces in place, while spring return units can be used to perform work operations like punching, pressing etc.

	Orifice		Catalog	Number
Description	Port	Color	NPT Ports** (USA Std.)	Metric Ports (European Std.)
3 Way Spring Return Normally Closed	8mm 1/4	Yellow	75046-68-21	76046-68-21
	8mm 1/4	Blue	75046-69-21	76046-69-21
3 Way Spring Return Normally Open				
	8mm 1/4	Blue	75046-69-31	76046-69-31
3 Way Latch/Unlatch Normally Closed	8mm 1/4	Yellow	75046-68-29	76046-68-29
7-V , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 ,	8mm 1/4	Blue	75046-69-29	76046-69-29
3 Way Latch/Unlatch Normally Open				
7-V 7-1 1 W	8mm 1/4	Blue	75046-69-30	76046-69-30
4 Way Spring Return	8mm 1/4	Yellow	75047-68-41	76047-68-41
7 1 1 W	8mm 1/4	Blue	75047-69-41	76047-69-41
4 Way Latch/Unlatch	8mm 1/4	Yellow	75047-68-49	76047-68-49
5 1 3	8mm 1/4	Blue	75047-69-49	76047-69-49



^{**} For NPT versions, a metric ported foot pedal unit is supplied with NPT fitting adaptor kits.

Operating pressure range is 0 to 145 PSI. Actuation force @ 90 PSI, is approx. 8 lbs.

Enclosure dimensions are 9 " L x 5 5/8" W x 4 5/8" H. Enclosure- polycarbonate, valve body die cast aluminum housing with Buna N seals.

Panel Drilling Plan

1/8"

Miniature Oil Tight Pushbuttons (22mm)

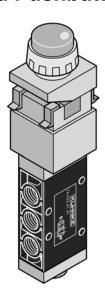
Panel mounted 22mm pushbuttons are designed to fit along side standard industrial electrical pushbuttons to provide a uniform panel appearance and utilize the same drilling hole sizes and spacing. Additionally, items such as legend plates, lock off devices and other standard 22mm accessories can be used to blend air valves with electrical buttons on operator control panels.

This miniature line is available in 3 way and 4 way versions both standard and air pilot assisted. Operators include standard pushbuttons, mushroom heads, selector switches, key operators and wobble sticks.

Operators are cast metal, with a silver finish. Buttons are plastic. Valves are 1/8 ported and have an actuation force of 7.9 lbs for the standard types and 1.8 lbs. for air pilot assisted types.

Miniature pushbutton valves utilize a bayonet mounting system that reduces installation time by eliminating loose washers, spacers and valve assembly. The pushbutton operator is inserted in the panel hole and attached to the valve body by turning the valve into place. 2 clamping screws are then tightened into the back of the panel to secure the unit in place.

Red Pushbutton



Standard raised red pushbutton for momentary actuation.

Description		Orifice Port	Port Catalog		Number
		(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Normally Closed Spring Return		6mm (1S)	1/8	75022-41-21	76022-41-21
4 Way Spring Return	□ T 1 3 W	6mm (2S)	1/8	75023-41-41	76023-41-41
3 Way Air Pilot Assisted Normally Closed Spring Return	2 1 3 1	6mm (1S)	1/8	75022-51-21	76022-51-21
4 Way Air Pilot Assisted Spring Return		6mm (2S)	1/8	75023-51-41	76023-51-41

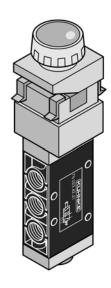
Operating pressure range std. type – 0-145 PSI; air piloted types minimum 35 PSI. Actuation force: std. - 7.9 lbs., air pilot assisted types 1.8 lbs. Above panel dimensions 1.125" dia. x .75" H. Typical behind panel dimensions are 4.75" (3 way), 5.5" (4 way) D. x 1.375" H x .75" W. For valve specifications see appendix. For detail dimensions contact factory.

Panel Mounted 22mm Pushbuttons

Shrouded Head Red Pushbutton

Shrouded Head helps prevent accidental operation of button.

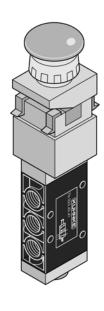
			Port	Catalog Number	
Descrip	tion	(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Normally Closed Spring Return		6mm (1S)	1/8	75022-42-21	76022-42-21
4 Way Spring Return	T 2 W	6mm (2S)	1/8	75023-42-41	76023-42-41
4 Way Pneumatic Reset Only *	513	6mm (2S)	1/8	75023-42-42	76023-42-42
3 Way Air Pilot Assisted Normally Closed Spring Return	2 1 3 1	6mm (1S)	1/8	75022-52-21	76022-52-21
4 Way Air Pilot Assisted Spring Return		6mm (2S)	1/8	75023-52-41	76023-52-41



Mushroom Head Red Pushbutton

Mushroom Head allows for palm operation of valve.

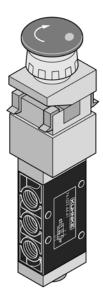
Description		Orifice Port	Port	Catalog	Number	
		(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)	
3 Way Normally Closed Spring Return		6mm (1S)	1/8	75022-43-21	76022-43-21	
4 Way Spring Return	□ T 1 2 W	6mm (2S)	1/8	75023-43-41	76023-43-41	
3 Way Air Pilot Assisted Normally Closed Spring Return	2 1 3 1	6mm (1S)	1/8	75022-53-21	76022-53-21	
4 Way Air Pilot Assisted Spring Return		6mm (2S)	1/8	75023-53-41	76023-53-41	



^{*} Pneumatic Reset PB can only be returned by applying a pneumatic signal (35 PSI min.) to an auxiliary 1/8 port.

Operating pressure range std. type— 0-145 PSI; air piloted types minimum 35 PSI. Actuation force: std. - 7.9 lbs., air pilot assisted types 1.8 lbs. Above panel dim. are 1.125" dia. x .5" H (shroud) or 1.25"H (mushroom). Behind panel dim. are 4" (3 way), 4.5" (4 way) D. x 1.375" H x .75 W. For valve specifications see appendix. For detail dimensions contact factory.

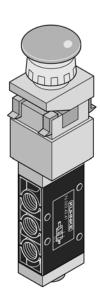
Mushroom Head, Latching, Red Pushbutton (Punch Button)



Push to latch, turn to unlatch. Can be used as an emergency stop button.

.			Port	Catalog Number	
Descrip	tion	(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Normally Closed Maintained Position	T 1 3 1	6mm (1S)	1/8	75022-44-21	76022-44-21
4 Way Maintained Position	(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6mm (2S)	1/8	75023-44-41	76023-44-41
3 Way Air Pilot Assisted Normally Closed Maintained Position		6mm (1S)	1/8	75022-54-21	76022-54-21
4 Way Air Pilot Assisted Maintained Position	T 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	6mm (2S)	1/8	75023-54-41	76023-54-41

Wobble Head Red Pushbutton



Wobble button can be operated by pushing mushroom head down or to the side.

		Orifice Por	Port	Catalog Number	
Descrip	tion	(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Normally Closed Spring Return		6mm (1S)	1/8	75022-45-21	76022-45-21
4 Way Spring Return	(1) 4 2 W	6mm (2S)	1/8	75023-45-41	76023-45-41
3 Way Air Pilot Assisted Normally Closed Spring Return	2 T 3 1	6mm (1S)	1/8	75022-55-21	76022-55-21
4 Way Air Pilot Assisted Spring Return		6mm (2S)	1/8	75023-55-41	76023-55-41

See page 14 for general information on miniature oil tight pushbutton valves.

Operating pressure range std. type– 0-145 PSI: air piloted types minimum 35 PSI. Actuation force: std. - 7.9 lbs., air pilot assisted types 1.8 lbs. Above panel dim. are 1.125" dia. x 1.25'H. Behind panel dimensions are 4" (3 way), 4.5" (4 way) D. x 1.375" H x .75 W.

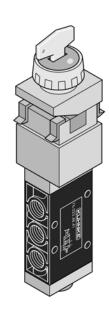
For valve specifications see appendix. For detail dimensions contact factory.

Panel Mounted 22mm Pushbuttons

Key Operated 2 Position Selector

Key provides security for locking off air supply to equipment.

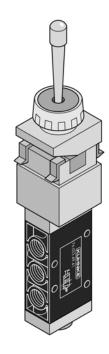
		Orifice (Body	Port Size	Catalog Number	
Descrip	Description			NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Normally Closed Maintained Position	2 W	6mm (1S)	1/8	75022-48-21	76022-48-21
4 Way Maintained Position	2 4 2 W	6mm (2S)	1/8	75023-48-41	76023-48-41
3 Way Air Pilot Assisted Normally Closed Maintained Position		6mm (1S)	1/8	75022-58-21	76022-58-21
4 Way Air Pilot Assisted Maintained Position	\$\frac{4}{513}\text{W}	6mm (2S)	1/8	75023-58-41	76023-58-41



Wobble Stick

Moving stick in any direction operates valve. Spring return to off.

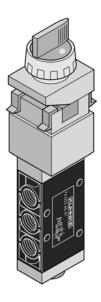
		Orifice Port	Catalog	Number	
Descrip	tion	(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Normally Closed Spring Return		6mm (1S)	1/8	75022-49-21	76022-49-21
4 Way Spring Return	\$\frac{4}{513}\text{W}	6mm (2S)	1/8	75023-49-41	76023-49-41
3 Way Air Pilot Assisted Normally Closed Spring Return	2 N	6mm (1S)	1/8	75022-59-21	76022-59-21
4 Way Air Pilot Assisted Spring Return	2 1 3 N	6mm (2S)	1/8	75023-59-41	76023-59-41



See page 14 for general information on miniature oil tight pushbutton valves.

Operating pressure range std. type– 0-145 PSI: air piloted types minimum 35 PSI. Actuation force: std. - 7.9 lbs., air pilot assisted types 1.8 lbs. Above panel dim. are 1.125" dia. x .5" H (key) or 2.75" H (wobble). Behind panel dimensions are 4" (3 way), 4.5" (4 way) D. x 1.375" H x .75 W. For valve specifications see appendix. For detail dimensions contact factory.

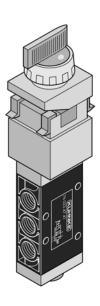
Selector Switch, 2 Position, Short Handle, Black



Selector switch maintains valve position.

Description		Orifice Po	Port	Catalog Number	
		(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Normally Closed Maintained Position	2 W	6mm (1S)	1/8	75022-46-21	76022-46-21
4 Way Maintained Position	\$\frac{4}{513}\text{W}	6mm (2S)	1/8	75023-46-41	76023-46-41
3 Way Air Pilot Assisted Normally Closed Maintained Position		6mm (1S)	1/8	75022-56-21	76022-56-21
4 Way Air Pilot Assisted Maintained Position	5 1 3 W	6mm (2S)	1/8	75023-56-41	76023-56-41

Selector Switch, 2 Position, Long Handle, Black



Selector switch maintains valve position.

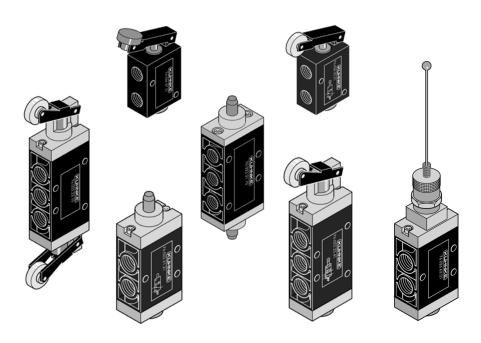
			Port	Catalog Number	
Descrip	tion	(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Normally Closed Maintained Position		6mm (1S)	1/8	75022-47-21	76022-47-21
4 Way Maintained Position	\$\frac{4}{513}\text{W}	6mm (2S)	1/8	75023-47-41	76023-47-41
3 Way Air Pilot Assisted Normally Closed Maintained Position		6mm (1S)	1/8	75022-57-21	76022-57-21
4 Way Air Pilot Assisted Maintained Position	2 1 3 N	6mm (2S)	1/8	75023-57-41	76023-57-41



Mechanically Operated Valves

Kuhnke's mechanically operated power valve selection is available in 2, 3 or 4 way valve designs with a variety of operators including flat levers, plungers, roller levers (limit switch) and antenna versions. Some units are equipped with valve operators on both ends and with pneumatic resets. Valves are available in standard mechanical designs or in air piloted assist versions for low actuation force applications.

Valves are constructed from zinc or aluminum die cast and machined bodies. Porting can be with either NPT or Metric threads to meet connection preferences. Mechanically operated valves can be either spool or poppet designs depending on valve selection.



Flat Lever Operated, Body Mount, Compact Design



Can be used as end of travel device or thumb valve. Lever travel is 3/8" (10mm). Actuation force is 4.5 Lbs.

		Orifice	Port	Catalog Number	
Descri	ption	(Body No.) Size		NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Normally Closed Spring Return	2 1 1 W	4mm (1bP)	1/8	75026-27-21	76026-27-21
3 Way Normally Open Spring Return	\$	4mm (1aP)	1/8	75026-27-31	76026-27-31

Plunger Operated, Body Mount, Compact Design



Depressing plunger operates valve. Used to detect material position or as an end of travel valve. Plunger travel approx. 3/16 inch (5mm). Actuation force is 13.5 Lbs.

		Orifice Port		Catalog	Number
Descri	Description (Body No.)		Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
2 Way Normally Closed Spring Return	2 W	4mm (1bP)	1/8	75025-21-21	76025-21-21
2 Way Normally Open Spring Return		4mm (1aP)	1/8	75025-21-31	76025-21-31
3 Way Normally Closed Spring Return	T 1 2 W	4mm (1bP)	1/8	75026-21-21	76026-21-21
3 Way Normally Open Spring Return		4mm (1aP)	1/8	75026-21-31	76026-21-31

Plunger Operated, Body Mount

Used as position or end of travel detector. Valve configurations include pneumatic reset types which can be used in conjunction with pushbuttons or other control devices to manually or automatically reset valve. A double plunger is also available which can be used on machine carriages to reverse direction of travel. Operating force is 7.9 Lbs. and plunger travel is approx. 3/16 inch (5mm).

	Description Orific (Body No.)		Port	Catalog	Number
Desci			Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Norm. Closed Spring Return	Z 2 W	6mm (1S)	1/8	75022-21-21	76022-21-21
3 Way Norm. Closed Pneumatic Reset *	210	6mm (1S)	1/8	75022-21-22	76022-21-22
4 Way Spring Return	513 W	6mm (2S)	1/8	75023-21-41	76023-21-41
4 Way Plunger on Both Ends (Maintained)	513	6mm (2S)	1/8	75023-21-10	76023-21-10
4 Way Pneumatic Reset*	4 2 10	6mm (2S)	1/8	75023-21-42	76023-21-42



3 Way



4 Way



4 Way Plunger On Both Ends

Operating pressure range 0-145 PSI. Actuation force @ 90 PSI, is approx. 7.9 Lbs.

For normally open function on 3 way valve reverse connect ports 1-3. For 2 way operation, plug port 3.

For valve specifications see appendix. For detail dimensions contact factory.

^{*} Pneumatic Reset Valves can be returned only by applying a pneumatic signal (35 PSI min.) to an auxiliary 1/8 port.

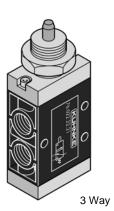
Typical valve body dimensions are 2.5" L (3 way), 3.15" L (4 way) x 1.375" H x .75" W. Add 1" to L dim. for pneumatic reset types. Through body mounting holes 3/16" dia.

Plunger diameter is .25" and extends .669" from valve body. Plunger travel is .1875" +/- .04".

Plunger Operators

Kuhnke Power Valves

Plunger Operated, Nose Mount



Depressing plunger operates valve. Used to detect material position or as an end of travel valve. Plunger travel approx. 3/16 inch (5mm). Actuating force is 7.9 Lbs.

Description		Orifice	Port	Catalog Number	
Desci	ription	(Body No.)			Metric Ports (European Std.)
3 Way Norm. Closed Spring Return	2 T 1 3 1	6mm (1S)	1/8	75022-22-21	76022-22-21
4 Way Spring Return	T 1 2 1 3 M	6mm (2S)	1/8	75023-22-41	76023-22-41



For normally open function on 3 way valve, reverse connect ports 1-3. For 2 way operation, plug port 3.

Typical valve body dimensions are 2.5" L (3 way), 3.15" L (4 way) x 1.375" H x .75" W. Mounting hole 5/8 " diameter.

Through body mounting holes 3/16" dia.

Plunger diameter is .25" and extends .875" from valve body. Plunger travel is .1875" +/- .04".

Plunger Operated, Air Pilot Assist, Nose Mount

Can be used as a door closed switch, material position detector or an end of travel detector. A double plunger is available which can be used on machine carriages to reverse direction of travel. Air pilot assist reduces actuation force to 1.8 lbs., minimum supply pressure 35 PSI.

		Orifice	Port	Catalog	Number
Desc	cription	(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Norm. Closed Spring Return	2 W	6mm (1S)	1/8	75022-32-21	76022-32-21
3 Way Norm. Closed Spring Return	7 1 3 1	8mm (6P)	1/4	75046-60-21	76046-60-21
3 Way Norm. Open Spring Return	2 M	8mm (6P)	1/4	75046-60-31	76046-60-31
4 Way Spring Return	513	6mm (2S)	1/8	75023-32-41	76023-32-41
4 Way Spring Return	513	8mm (7P)	1/4	75047-60-41	76047-60-41
4 Way Plunger on Both Ends (Maintained)	513	6mm (10P)	1/8	75027-60-10	76027-60-10
4 Way Plunger on Both Ends (Maintained)	\$\frac{4}{513}\$	8mm (7P)	1/4	75047-60-10	76047-60-10





3 Way 1/8 Ports

4 Way 1/8 Ports



4 Way Plunger On Both Ends

Operating pressure range is 35-145 PSI. Actuation force @ 90 PSI, is approx. 1.8 Lbs.

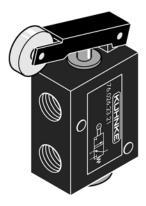
Approximate valve body dimensions for 1/8 ported valves are 3.5" L (4 way body no. 2S) x 1.375" H x .75" W. For body no. 10P- 4.75" L x 2" H x 1" W. Approximate dimensions for 1/4 ported valves are 4.75" L x 2" H x 1" W. Mounting hole 5/8" diameter.

Plunger diameter 5/32" and extends .625" from valve body. Plunger travel is .125".

Roller Lever Operators

Kuhnke Power Valves

Roller Lever Operated, Body Mount, Compact Design



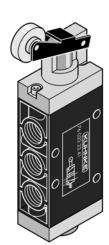
Used as a pneumatic limit switch or position detector. Roller arm travel is 9/16" (14mm). Actuation force is 7.9 Lbs.

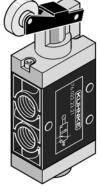
De contration		Orifice Port		Catalog Number	
Descri	Description (Body No.)		Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
2 Way Normally Closed Spring Return	2 W	4mm (1bP)	1/8	75025-23-21	76025-23-21
2 Way Normally Open Spring Return	2 T 1	4mm (1aP)	1/8	75025-23-31	76025-23-31
3 Way Normally Closed Spring Return	2 W	4mm (1bP)	1/8	75026-23-21	76026-23-21
3 Way Normally Open Spring Return		4mm (1aP)	1/8	75026-23-31	76026-23-31

Roller Lever Operated, Body Mount

Used as a pneumatic limit switch or position detector. Roller arm travel is 3/8" (10mm). Actuating force is 4.5 Lbs. Options include valves with pneumatic reset used in conjunction with other controlling devices to reset valve. A double roller lever valve can be used on machine carriages to reverse direction of travel.

		Orifice Port	Catalog	Number	
Desc	cription	(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Norm. Closed Spring Return		6mm (1S)	1/8	75022-23-21	76022-23-21
3 Way Norm. Closed Pneumatic Reset *	2 	6mm (1S)	1/8	75022-23-22	76022-23-22
3 Way Roller Lever Both Ends (Maintained)		6mm (1S)	1/8	75022-23-10	76022-23-10
4 Way Spring Return	⊙ 1 1 3 W	6mm (2S)	1/8	75023-23-41	76023-23-41
4 Way Pneumatic Reset *	513 d10	6mm (2S)	1/8	75023-23-42	76023-23-42
4 Way Roller Lever Both Ends (Maintained)	→ 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1	6mm (2S)	1/8	75023-23-10	76023-23-10





3 Way

4 Way



4 Way Roller Lever Both Ends

For normally open function on 3 way valve, reverse connect ports 1-3. For 2 way operation, plug port 3.

Roller Lever extends 1.343" beyond body and travel is .39" +/- .04".

For valve specifications see appendix. For detail dimensions contact factory.

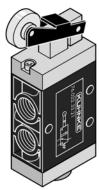
^{*} Pneumatic Reset Valves are returned to the off position only by applying a pneumatic signal (35 PSI min.) to an auxiliary 1/8 port. Operating pressure range is 0-145 PSI. Actuation force @ 90 PSI, is approx. 4.5 Lbs.

Typical valve body dimensions are 2.5" L (3 way), 3.15" L (4 way) x 1.375" H x .75" W. Add 1" to L dim. for pneumatic reset types. Through body mounting holes are 3/16" diameter.

Roller Lever Operators

Kuhnke Power Valves

Roller Lever Operated, Air Pilot Assist, Body Mount







Used as a pneumatic limit switch or position detector. Actuation force is 14 ounces and roller lever travel is approx. 5/32 inch (4mm).

Description		Orifice	Port	Catalog	Number
Desc	ription	(Body No.) Size		NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Norm. Closed Spring Return		6mm (1S)	1/8	75022-33-21	76022-33-21
3 Way Norm. Closed Spring Return		8mm (6P)	1/4	75046-70-21	76046-70-21
3 Way Norm. Open Spring Return		8mm (6P)	1/4	75046-70-31	76046-70-31
4 Way Spring Return	0 1 3 W	6mm (2S)	1/8	75023-33-41	76023-33-41
4 Way Spring Return	513 W	8mm (7P)	1/4	75047-70-41	76047-70-41

One Way Roller Lever Operated, Body Mount, Compact Design

One way roller operates valve only in one direction. Used as a pneumatic limit switch or position detector. Roller arm travel is 3/8" (10mm). Actuation force is 4.5 Lbs.

Description		Orifice Port		Catalog Number	
		(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
2 Way Normally Closed Spring Return		4mm (1bP)	1/8	75025-24-21	76025-24-21
2 Way Normally Open Spring Return	2 T 1	4mm (1aP)	1/8	75025-24-31	76025-24-31
3 Way Normally Closed Spring Return	2 3 1	4mm (1bP)	1/8	75026-24-21	76026-24-21
3 Way Normally Open Spring Return		4mm (1aP)	1/8	75026-24-31	76026-24-31



One Way Roller Lever Operated, Body Mount



One way roller lever operates valve only in one direction. Can be used as safety valve for limiting travel on machinery. Roller arm travel is 1/2" (12mm). Actuating force is 4.5 Lbs.

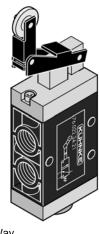
		Orifice	Port	Catalog Number	
Desc	ription	(Body No.)	` ' SIZE	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Norm. Closed Spring Return	2 T 3 1	6mm (1S)	1/8	75022-24-21	76022-24-21
4 Way Spring Return		6mm (2S)	1/8	75023-24-41	76023-24-41



One Way Roller Lever Operated, Air Pilot Assist, Body Mount

One way roller lever operates valve only in one direction. Actuation force is 14 ounces and roller lever travel is approx. 5/32 inch (4mm).

Description		Orifice Port		Catalog Number	
Des	cription	(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Norm. Closed Spring Return	2	6mm (1S)	1/8	75022-34-21	76022-34-21
3 Way Norm. Closed Spring Return	2	8mm (6P)	1/4	75046-74-21	76046-74-21
4 Way Spring Return	1 2 W	6mm (2S)	1/8	75023-34-41	76023-34-41
4 Way Spring Return	1 2 N	8mm (7P)	1/4	75047-74-41	76047-74-41

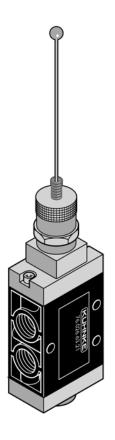


3 Way 1/8 Ports



4 Way 1/8 Ports

Antenna Valve, Air Pilot Assisted



Actuation is caused by deflection of spring supported 4½-inch wire. Can be used to detect passing items on conveyor belts. Allows valve to be mounted close to detected unit and provides a wiping action.

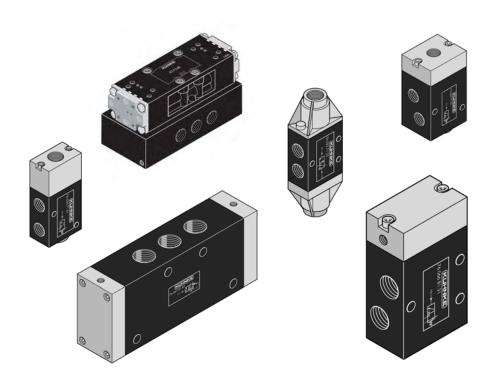
De contention		Orifice Port	Catalog Number		
Desc	cription	(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
3 Way Norm. Closed Spring Return		6mm (9P)	1/8	75026-63-21	76026-63-21
3 Way Norm. Open Spring Return		6mm (9P)	1/8	75026-63-31	76026-63-31
3 Way Norm. Closed Spring Return		8mm (6P)	1/4	75046-63-21	76046-63-21
4 Way Spring Return (Spool Valve)		6mm (1mS)	1/8	(Not Available)	76123-63-41
4 Way Spring Return (Poppet Valve)		6mm (1mP)	1/8	(Not Available)	76127-63-41



Pneumatically Operated Valves

Pneumatically operated valves are available in both spool and poppet designs from 1/8 to 1/2 inch porting, 3 or 4 way, and in 2 or 3 position versions. Variations include single or double air piloted, double acting with priority port, specialty flip-flop and oscillating valves as well as a group of 3 way poppet valves for vacuum use.

Kuhnke's Series 75/76 valves are constructed from aluminum or zinc die cast and machined bodies to provide reliable service. Valves with both NPT and Metric threads are available to satisfy international standards requirements.



Pneumatic Operator, 3 Way, Compact Design



Compact design provides a simple solution for air piloted 3 way valve requirements. These poppet design valves are body mounted, have 1/8 ports and require 50 PSI control pressure to operate.

		Orifice	Port	Catalog Number	
Desci	ription	(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
Normally Closed Spring Return	12D	4mm (1bP)	1/8	75036-71-21	76036-71-21
Normally Open Spring Return	10	4mm (1aP)	1/8	75036-71-31	76036-71-31

Pneumatic Operator, 3 Way, Spool Design





Direct acting pneumatic operated spool valves are available with single, double or with priority actuators. Priority ports override signals from opposite pilot operator to ensure positive return to home position. Minimum pilot pressure 35 PSI.

Description		Orifice Port	Catalog Number		
		(Body No.)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
Single Pilot Spring Return	12D	6mm (1S)	1/8	75022-71-21	76022-71-21
Double Pilot With Detent	1210	6mm (1S)	1/8	75022-71-22	76022-71-22
Double Pilot With Priority Detent	1210	6mm (1S)	1/8	75022-71-47	76022-71-47

Operating pressure range is 0 to 145 PSI. Pilot port size is 1/8.

Compact valves actuation force (pilot pressure): 50 PSI minimum. Dimensions: 2 7/8" L x 5/8" W x 1 1/4"D.

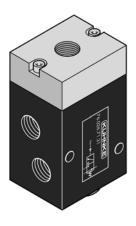
Spool design valves actuation force –35 PSI minimum. Dimensions: approx. 3 1/4" L x 1 3/8" W x 7/8"D, (Double pilot 3 5/8" L). Mounting via through body holes 3/16" dia.

For valve specifications see appendix. For detail dimensions contact factory.

Pneumatic Operator, 3 Way, Poppet Design

Three way pneumatically operated poppet valves provide high flow rates in a basic valve design. Available up to 1/2 ported sizes in normally closed and normally open versions. Pilot ports are 1/8 inch and require a minimum of 35 PSI to operate.

Description	Orifice (Body	Dimensions (Approx. Size	Catalog	Number	
Description	No.) inches)	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)	
Normally Closed Spring Return	6mm (9P)	2 5/8 x 1 x 1 5/8	1/8	75026-71-21	76026-71-21
12DT-T-W	8mm (6P)	2 5/8 x 1 x 1 5/8	1/4	75046-71-21	76046-71-21
3 1	15mm (11P)	4 7/8 x 1 5/8 x 2 3/4	1/2	75066-81-21	76066-81-21
Normally Open Spring Return	6mm (9P)	2 5/8 x 1 x 1 5/8	1/8	75026-71-31	76026-71-31
10 D	8mm (6P)	2 5/8 x 1 x 1 5/8	1/4	75046-71-31	76046-71-31
3 i	15mm (11P)	4 7/8 x 1 5/8 x 2 3/4	1/2	75066-81-31	76066-81-31

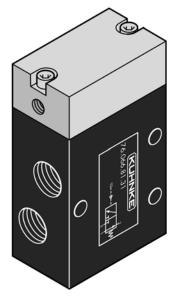


Typical 3 Way 1/8 and 1/4 Ported Valves

Pneumatic Operator, 3 Way, for Vacuum Use

Valves are similar to units above except have been modified with special seals and springs for use in vacuum applications.

Description	Orifice (Body No.)	Dimensions (Approx. inches) L x W x H	Port Size	Catalog Number	
				NPT Ports (USA Std.)	Metric Ports (European Std.)
Normally Closed Spring Return	6mm (9P)	2 5/8 x 1 x 1 5/8	1/8	75226-71-21	76226-71-21
12	8mm (6P)	2 5/8 x 1 x 1 5/8	1/4	75246-71-21	76246-71-21
	15mm (11P)	4 7/8 x 1 5/8 x 2 3/4	1/2	75266-81-21	76266-81-21



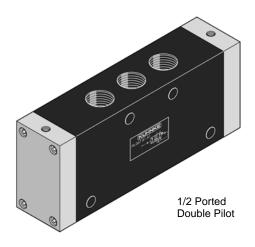
Typical 3 Way 1/2 Ported Valve

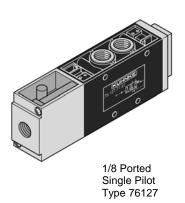
General Purpose

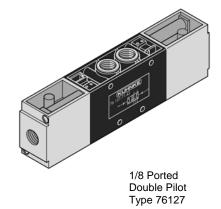
Kuhnke Power Valves

Directional Control Valves, (4 Way), Pneumatic Actuation

(Poppet Design, In Line Mounting)







Pneumatically operated poppet valves are available in single, double or with priority port actuators. The priority port design overrides the signal from the opposite pilot operator to insure return to home position.

Poppet valves rely on O rings and gaskets to seal passage ways within the valve and generally offer higher flow rates than other types of valves.

These valves are available in port sizes of 1/8, 1/4 and 1/2. Pilot ports are 1/8 for all size valves and require minimum of 35 PSI operating pressure. Single air pilot valves have an air supported spring return and require a pilot pressure equal to or greater than the air supply pressure at port 1.

Valves can be mounted using through body holes or assembled on manifolds.

Description	(Body No.)	Dimensions (Approx. inches) L x W x H	Port Size	Catalog Number	
				NPT Ports (USA Std.)	Metric Ports (European Std.)
Single Air Pilot Spring Return *	6mm (10P)	4 1/4 x 1 1/8 x 1 5/8	1/8	75027-71-41	76027-71-41
14 b \(\frac{4}{1} \frac{2}{1} \frac{1}{1} \frac{4}{1} \frac{2}{1} \frac{1}{1} \frac{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1}	6mm (1MP)	4 7/8 x 1 x 1 5/8	1/8	(Not Available)	76127-71-41
	8mm (7P)	4 7/8 x 1 x 2	1/4	75047-81-41	76047-81-41
	15mm (12P)	6 3/4 x 1 5/8 x 2 3/4	1/2	75067-81-41	76067-81-41
Double Air Pilot With Detent	6mm (10P)	4 1/4 x 1 1/8 x 1 5/8	1/8	75027-71-42	76027-71-42
14	6mm (1MP)	5 3/8 x 1 x 1 5/8	1/8	(Not Available)	76127-71-42
	8mm (7P)	5 1/2 x 1 x 2	1/4	75047-81-42	76047-81-42
	15mm (12P)	6 3/4 x 1 5/8 x 2 3/4	1/2	75067-81-42	76067-81-42
Double Air Pilot With Priority Detent	6mm (10P)	4 1/4 x 1 1/8 x 1 5/8	1/8	75027-71-47	76027-71-47
	6mm (1MP)	5 3/8 x 1 x 1 5/8	1/8	(Not Available)	76127-71-47
	8mm (7P)	5 1/2 x 1 x 2	1/4	75047-81-47	76047-81-47
	15mm (12P)	6 3/4 x 1 5/8 x 2 3/4	1/2	75067-81-47	76067-81-47

Mounting via 4 through body holes 3/16" Dia. (1/2" ported valves- 1/4" Dia.).

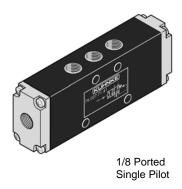
For valve specifications see appendix. See accessory section for manifolds if required. For detail dimensions contact factory.

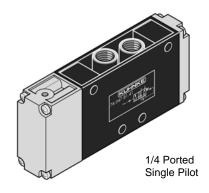
^{*} Single air pilot valves have an air supported spring return. Actuation force must be equal to or greater than the pressure at port 1. Pilot port size (for actuation): 1/8 for all size valves.

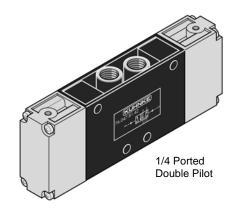
Operating pressure range 35 to 145 PSI. Actuation force (pilot pressure): 35 PSI minimum.

Directional Control Valves (4 Way), Pneumatic Actuation

(Spool Design, In Line Mounting)







Description	Orifice (Body No.)	Dimensions (Approx. inches) L x W x H	Port Size	Catalog Number	
				NPT Ports (USA Std.)	Metric Ports (European Std.)
Single Air Pilot Spring Return *	6mm (8S)	4 1/4 x 1 1/8 x 1 5/8	1/8	75023-71-41	76023-71-41
14	6mm (1MS)	4 7/8 x 1 x 1 5/8	1/8	(Not Available)	76123-71-41
	8mm (5S)	4 7/8 x 1 x 2	1/4	75043-81-41	76043-81-41
Double Air Pilot With Detent	6mm (8S)	4 1/4 x 1 1/8 x 1 5/8	1/8	75023-71-42	76023-71-42
14	6mm (1MS)	5 3/8 x 1 x 1 5/8	1/8	(Not Available)	76123-71-42
	8mm (5S)	5 1/2 x 1 x 2	1/4	75043-81-42	76043-81-42
Double Air Pilot With Priority	6mm (8S)	4 1/4 x 1 1/8 x 1 5/8	1/8	75023-71-47	76023-71-47
Detent 14 513	6mm (1MS)	5 3/8 x 1 x 1 5/8	1/8	(Not Available)	76123-71-47
	8mm (5S)	5 1/2 x 1 x 2	1/4	75043-81-47	76043-81-47

Spool valves rely on a stainless steel spool moving within a sleeve to direct flow to the ports of the valve. Spool designs are known for their long life capability.

Available in single, double or with priority port actuators. The priority port design overrides the signal from the opposite pilot operator to insure return to home position.

Pneumatically actuated spool valves are available in 1/8 and 1/4 port sizes and require a minimum of 35 PSI operating pressure.

Valves can be mounted individually using through body holes or assembled on manifolds.

For valve specifications see appendix. See accessory section for manifolds if required. For detail dimensions contact factory.

^{*} Single air pilot valves have an air supported spring return. Actuation force must be equal to or greater than the pressure at port 1. Pilot port size (for actuation): 1/8 for all size valves.

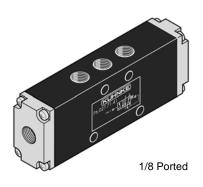
Operating pressure range 35 to 145 PSI. Actuation force (pilot pressure): 35 PSI minimum. Mounting via 4 through body holes 3/16" Dia.

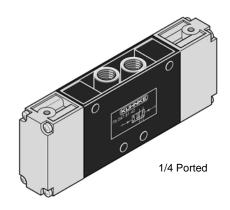
General Purpose

Kuhnke Power Valves

3 Position Valves, (4 Way), Pneumatic Actuation

(Spool Design, In Line Mounting)





Three position spool valves are used mostly to position cylinders. Valves with all ports open in the center position allow the cylinder piston rod to move freely, while valves with all ports closed in the center position will hold the cylinder in the desired position when no pilot pressure is present. A third type keeps line pressure on both sides of the cylinder piston.

Pneumatically actuated spool valves are available in 1/8 and 1/4 port sizes and require a minimum of 35 PSI operating pressure.

Valves can be mounted with through body holes or assembled on manifolds.

Description	Orifice (Body	Dimensions (Approx.	Port	Catalog	Number
Description	No.)	inches) L x W x H	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
Double Air Pilot All ports open in	6mm (8S)	4 1/4 x 1 1/8 x 1 5/8	1/8	75024-71-28	76024-71-28
center position.	6mm (1MS)	5 3/8 x 1 x 1 5/8	1/8	(Not Available)	76124-71-28
14 - W T V T W T W	8mm (5S)	5 1/2 x 1 x 2	1/4	75044-81-28	76044-81-28
Double Air Pilot All ports <i>closed</i> in	6mm (8S)	4 1/4 x 1 1/8 x 1 5/8	1/8	75024-71-38	76024-71-38
center position.	6mm (1MS)	5 3/8 x 1 x 1 5/8	1/8	(Not Available)	76124-71-38
14 - W T V T T W T T W	8mm (5S)	5 1/2 x 1 x 2	1/4	75044-81-38	76044-81-38
Double Air Pilot Working ports 2-4	6mm (8S)	4 1/4 x 1 1/8 x 1 5/8	1/8	75024-71-58	76024-71-58
pressurized in center position.					
14 N T T T T T T T T T T T T T T T T T T					

Pilot port size (for actuation): 1/8 for all size valves.

Operating pressure range 35 to 145 PSI. Actuation force (pilot pressure): 35 PSI minimum.

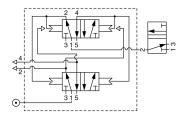
Mounting via 4 through body holes 3/16" Dia.

For valve specifications see appendix. See accessory section for manifolds if required. For detail dimensions contact factory.

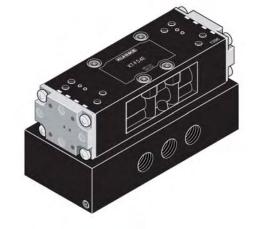
Flip Flop Valve, Pneumatic Actuation

NPT Ports **75083-89-42**Metric Ports **76083-89-42**

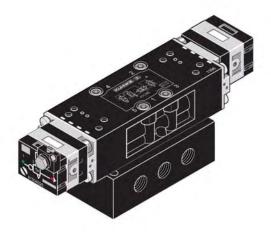
The Monostable Flip-Flop valve provides a 4 way switched output from an air pilot pulse signal of at least 300 ms in length. A pilot pressure is applied to the control port changing the valve output position. The output valve maintains position until the next pilot pulse signal is applied. The control pilot signal must be greater than 50% of the switched line pressure. Minimum operating pressure 35 PSI.



Port Size- 1/4 Orifice- 8mm Body No.- 5S Dimensions-4 1/4" L x 2" W x 2 3/8" H.

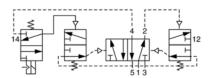


Oscillator Valve, Pneumatic Actuation



75083-90-42 NPT Ports 76083-90-42 Metric Ports

Valve can be used to oscillate a double acting cylinder. Applications include mixing, stirring or sawing devices where time critical cycling is not required. A pneumatic control signal applied to the control port starts valve oscillating. Speed is dependent on connected volume and line pressure, and can be controlled by the addition of flow control valves on the cylinder input ports. Typical speed is 16 cycles per minute at 90 PSI.



Port Size- 1/8 Orifice- 6mm Body No.- 8S Dimensions-6 3/4" L x 2" W x 2 1/8" H.

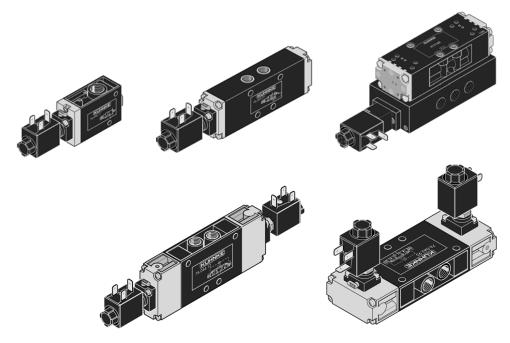


Electrically Operated Valves

Kuhnke Series 75/76 Solenoid operated valves satisfy most pneumatic system design requirements. Valves use an air piloted solenoid system complete with a red manual over ride lever for testing circuits. Air pilots are standard throughout the line. Coil systems consume only 2.5 watts of power and operate in 15-20 ms making the valve line compatible with most electronic controller outputs.

Valves are available in 3 or 4 way designs, 2 or 3 position, 1/8 to 1/2 inch porting and with single or double solenoid operators. Most valve types have optional units with external air pilots for switching low air pressure supplies including vacuum. Specialty valves include Flip-Flop as well as oscillator designs.

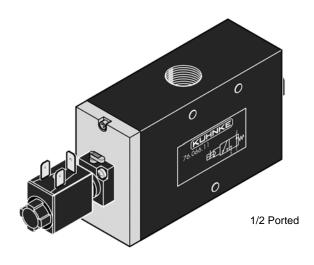
Valves can be either spool or poppet design depending on preference and are available both in flat mounting designs as well as in line mounting types which can also be manifold mounted. Valve bodies are die cast and machined aluminum with porting in either NPT or Metric threads to meet connection preferences.

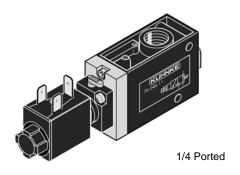


General Purpose

Kuhnke Power Valves

3 Way Solenoid Valves





Three way poppet design valves are solenoid operated, air pilot assisted. Valves include a red manual override lever for easy testing of pneumatic circuits. Coils are encapsulated for long life.

Available in standard versions, or with a port for external air supply used for switching pressures below 35 PSI.

Order Coils Separately

Valve catalog numbers do not include solenoid coils. Coils are supplied loose and unmounted as separate items.

AC Coil Catalog No. 76410-02-** DC Coil Catalog No. 76410-00-**

Voltage	<u>AC</u>	DC
12V	_	01
24V	12	02
48V	13	03
110V	14	04
230V	15	05

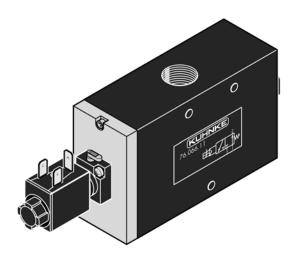
Description	Orifice (Body	Dimensions (Approx. Port		Catalog	Number
	inches) L x W x H	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)	
Normally Closed Spring Return	6mm (9P)	4 7/8 x 1 x 1 1/2	1/8	75026-01-00	76026-01-00
	8mm (6P)	4 7/8 x 1 x 1 1/2	1/4	75046-01-00	76046-01-00
T I VV	15mm (11P)	6 7/8 x 1 5/8 x 2 3/4	1/2	75066-01-00	76066-01-00
Normally Open Spring Return	6mm (9P)	4 7/8 x 1 x 1 1/2	1/8	75026-11-00	76026-11-00
	8mm (6P)	4 7/8 x 1 x 1 1/2	1/4	75046-11-00	76046-11-00
3 1	15mm (11P)	6 7/8 x 1 5/8 x 2 3/4	1/2	75066-11-00	76066-11-00
Normally Closed External Air Pilot *	6mm (9P)	6 1/4 x 1 x 1 1/2	1/8	75326-01-00	76326-01-00
Spring Return	8mm (6P)	6 1/4 x 1 x 1 1/2	1/4	75346-01-00	76346-01-00
<u> </u>	15mm (11P)	8 1/8 x 1 5/8 x 2 3/4	1/2	75366-01-00	76366-01-00
Normally Open External Air Pilot *	6mm (9P)	6 1/4 x 1 x 1 1/2	1/8	75326-11-00	76326-11-00
Spring Return	8mm (6P)	6 1/4 x 1 x 1 1/2	1/4	75346-11-00	76346-11-00
TIT IV	15mm (11P)	8 1/8 x 1 5/8 x 2 3/4	1/2	75366-11-00	76366-11-00

^{*} External Air Pilot: valves have an auxiliary 10-32 (M5) port (1/8 on 1/2 ported valves) for connecting a separate air pilot supply for the solenoid section. For use when switching air pressures below 35 PSI.

Operating pressure range is 35 to 145 PSI. (Use valves with external pilot for switching lower pressures).

For 2-way operation plug exhaust port 3. Through body mounting holes are 3/16" for 1/8 and 1/4 ported valves, 1/4 " for 1/2 ported valves. For valve specifications see appendix. See accessory section for electrical connectors. For detail dimensions contact factory.

3 Way Solenoid Valves for Vacuum Use



Description	Description	Port	Catalog Number		
Description		Size	NPT Ports (USA Std.)	Metric Ports (European Std.)	
Normally Closed External Air pilot *	6mm (9P)	5 x 1 x 1 5/8	1/8	75226-01-00	76226-01-00
Spring Return	8mm (6P)	5 x 1 x 1 5/8	1/4	75246-01-00	76246-01-00
	15mm (11P)	6 7/8 x 1 5/8 x 2 7/8	1/2	75266-01-00	76266-01-00
Normally Open External Air pilot *			-		
Spring Return	8mm (6P)	5 x 1 x 1 5/8	1/4	75246-11-00	76246-11-00
T T T T T T T T T T T T T T T T T T T	15mm (11P)	6 7/8 x 1 5/8 x 2 7/8	1/2	75266-11-00	76266-11-00

Valves are similar to the standard 3 way valves shown on the opposite page except have been modified with special seals and springs for vacuum applications. Valves have an external air supply port required to operate the pilot valve.

Order Coils Separately

Valve catalog numbers do not include solenoid coils. Coils are supplied loose and unmounted as separate items. (Double solenoids require 2 coils.)

AC Coil Catalog No. 76410-02-** DC Coil Catalog No. 76410-00-**

** - Add the required coil voltage suffix code from the chart below to complete the coil catalog number.

<u>AC</u>	DC
	01
12	02
13	03
14	04
15	05
	12 13 14

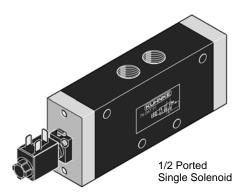
^{*} External Air Pilot: Valves have an auxiliary 10-32 (M5) port (1/8 on 1/2 ported valves) for connecting a separate air pilot supply for the solenoid section. A minimum of 35 PSI is required to operate valve.

For valve specifications see appendix. See accessory section for electrical connectors. For detail dimensions contact factory.

Through body holes are 3/16" for 1/8 and 1/4 ported valves, 1/4 " for 1/2 ported valves.

Directional Control Valves (4 Way), Solenoid Operated

(Poppet Design, In Line Mounting)



Solenoid operated, air piloted poppet valves are available in single, double, priority and external air pilot supply versions. Priority version overrides signal from opposite solenoid to assure return to valve home position. Valves with external air pilot connections are used when switching pressures below 35 PSI.

Poppet valves usually provide higher flow rates than other types of valves because of flow path design.

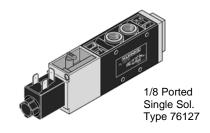
Valves include a red manual override for easy testing. Encapsulated coils provide splash proof protection when used with plug connectors. Valves can be mounted individually using through body holes or assembled on manifolds.

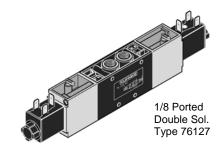
Order Coils Separately

Valve catalog numbers do not include solenoid coils. Coils are supplied loose and unmounted as separate items. (Double solenoid types require 2 coils.)

AC Coil Catalog No. 76410-02-** DC Coil Catalog No. 76410-00-**

<u>Voltage</u>	<u>AC</u>	<u>DC</u>
12V	_	01
24V	12	02
48V	13	03
110V	14	04
230V	15	05





Description	Orifice Dimensions (Body (Approx. Port		Catalog	Number	
Description	No.)	inches) L x W x H	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
Single Solenoid Spring Return-	6mm (10P)	6 3/8 x 1 1/8 x 1 5/8	1/8	75027-91-00	76027-91-00
air assisted	6mm (1MP)	6 1/4 x 1 x 1 5/8	1/8	(Not Available)	76127-91-00
	8mm (7P)	7 x 1 x 2	1/4	75047-91-00	76047-91-00
5 [.3	15mm (12P)	8 7/8 x 1 5/8 x 2 3/4	1/2	75067-91-00	76067-91-00
Double Solenoid With Detent	6mm (10P)	8 5/8 x 1 1/8 x 1 5/8	1/8	75027-92-00	76027-92-00
	6mm (1MP)	8 1/2 x 1 x 1 5/8	1/8	(Not Available)	76127-92-00
	8mm (7P)	10 x 1 x 2	1/4	75047-92-00	76047-92-00
513	15mm (12P)	11 1/8 x 1 5/8 x 2 3/4	1/2	75067-92-00	76067-92-00
Double Solenoid With Priority	6mm (1MP)	8 1/2 x 1 x 1 5/8	1/8	(Not Available)	76127-93-00
Detent					
513			1		
Single Solenoid External Air Pilot *	6mm (10P)	6 3/8 x 1 1/8 x 1 5/8	1/8	75327-91-00	76327-91-00
Spring Return	6mm (1MP)	7 5/8 x 1 x 1 5/8	1/8	(Not Available)	76527-91-00
	8mm (7P)	7 x 1 x 2	1/4	75347-91-00	76347-91-00
÷ 513	15mm (12P)	8 1/4 x 1 x 2	1/2	75367-91-00	76367-91-00
Double Solenoid External Air Pilot *	6mm (10P)	8 5/8 x 1 1/8 x 1 5/8	1/8	75327-92-00	76327-92-00
With Detent	6mm (1MP)	10 1/8 x 1 x 1 5/8	1/8	(Not Available)	76527-92-00
	8mm (7P)	12 1/8 x 1 x 2	1/4	75343-92-00	76347-92-00
\$ 513 \$	15mm (12P)	12 5/8 x 1 5/8 x 2 3/4	1/2	75367-92-00	76367-92-00

^{*} External Air Pilot: valves have an auxiliary 10-32 (M5) port (1/8 on 1/2 ported valves) for connecting a separate air pilot supply for the solenoid section. For use when switching air pressures below 35 PSI.

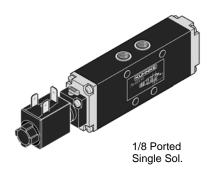
Operating pressure range is 35 to 145 PSI. (Use valves with external pilot for switching lower pressures).

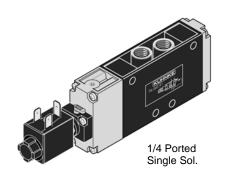
Through body holes are 3/16" for 1/8 and 1/4 ported valves, 1/4 " for 1/2 ported valves.

For valve specifications see appendix. See accessory section for connectors and manifolds. For detail dimensions contact factory.

Directional Control Valves (4 Way) Solenoid Operated

(Spool Design, In Line Mounting)





Description	Orifice Dimensions (Body (Approx. Port		Port	Catalog	Catalog Number	
Description	No.)	inches) L x W x H	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)	
Single Solenoid Spring Return-	6mm (8S)	6 3/8 x 1 1/8 x 1 5/8	1/8	75023-91-00	76023-91-00	
air assisted	6mm (1MS)	6 1/4 x 1 x 1 5/8	1/8	(Not Available)	76123-91-00	
5 3	8mm (5S)	7 x 1 x 2	1/4	75043-91-00	76043-91-00	
Double Solenoid With Detent	6mm (8S)	8 5/8 x 1 1/8 x 1 5/8	1/8	75023-92-00	76023-92-00	
4 2	6mm (1MS)	8 1/2 x 1 x 1 5/8	1/8	(Not Available)	76123-92-00	
513	8mm 10 x (5S) 1x2 1/4	1/4	75043-92-00	76043-92-00		
Double Solenoid With Priority	6mm (1MS)	8 1/2 x 1 x 1 5/8	1/8	(Not Available)	76123-93-00	
Detent			-			
513			ı			
Single Solenoid External Air Pilot *	6mm (8S)	7 5/8 x 1 x 1 5/8	1/8	75323-91-00	76323-91-00	
Spring Return	6mm (1MS)	7 5/8 x 1 x 1 5/8	1/8	(Not Available)	76523-91-00	
₩ 513	8mm (5S)	8 1/4 x 1 x 2	1/4	75343-91-00	76343-91-00	
Double Solenoid External Air Pilot *	6mm (8S)	10 1/8 x 1 1/8 x 1 5/8	1/8	75323-92-00	76323-92-00	
Detent	8mm (5S)	12 1/8 x 1 x 2	1/4	75343-92-00	76343-92-00	

Solenoid operated, air piloted spool valves are available in single, double, priority and external air pilot versions. Valve designs use a stainless steel spool moving within a sleeve to direct

spool moving within a sleeve to direct airflow to the ports of the valve. Spool valves are known for their long life capability.

Valves are available in 1/8 and 1/4 port sizes and have an operating range of 35 to 145 PSI.

Valves include a red manual override and encapsulated coils and can be individually mounted or assembled on manifolds.

Order Coils Separately

Valve catalog numbers do not include solenoid coils. Coils are supplied loose and unmounted as separate items. (Double solenoid types require 2 coils.)

AC Coil Catalog No. 76410-02-** DC Coil Catalog No. 76410-00-**

<u>Voltage</u>	<u>AC</u>	DC
12V	_	01
24V	12	02
48V	13	03
110V	14	04
230V	15	05

^{*} External Air Pilot: valves have an auxiliary 10-32 (M5) port for connecting a separate air pilot supply for the solenoid section. For use when switching air pressures below 35 PSI.

Operating pressure range is 35 to 145 PSI. (Use valves with external pilot for switching lower pressures.)

Through body mounting holes are 3/16".

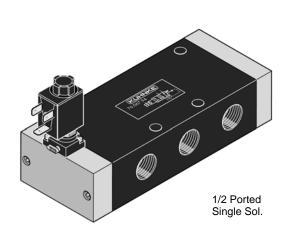
For valve specifications see appendix. See accessory section for connectors and manifolds. For detail dimensions contact factory.

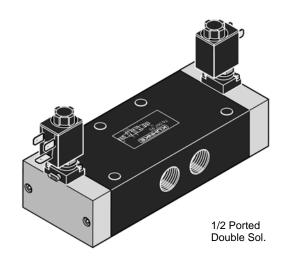
General Purpose

Kuhnke Power Valves

Directional Control Valves (4 Way), Solenoid Operated

(Poppet Design, Flat Mounting)





Valves have the same features as In-Line Directional Control valves on page 42, but are designed for mounting on flat surfaces.

Description	Orifice (Body	Dimensions (Approx.	Port	Catalog	Number
Description	No.)	inches) L x W x H	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
Single Solenoid Spring Return-	6mm (10P)	4 1/4 x 1 5/8 x 3 3/8	1/8	75027-94-00	76027-94-00
air assisted	8mm (7P)	4 7/8 x 2 x 3 1/4	1/4	75047-94-00	76047-94-00
5 3	15mm (12P)	7 1/4 x 2 3/4 x 3 7/8	1/2	75067-94-00	76067-94-00
Double Solenoid With Detent	6mm (10P)	4 1/4 x 1 5/8 x 3 3/8	1/8	75027-95-00	76027-95-00
	8mm (7P)	5 1/2 x 2 x 3 1/4	1/4	75047-95-00	76047-95-00
513	15mm (12P)	7 5/8 x 2 3/4 x 3 7/8	1/2	75067-95-00	76067-95-00
Double Solenoid External Air Pilot *		-	I		
Detent		-	I		
513	15mm (12P)	7 5/8 x 2 3/4 x 3 7/8	1/2	75367-95-00	76367-95-00

Order Coils Separately

Valve catalog numbers do not include solenoid coils. Coils are supplied loose and unmounted as separate items. (Double solenoid types require 2 coils.)

AC Coil Catalog No. 76410-02-** DC Coil Catalog No. 76410-00-**

<u>Voltage</u>	<u>AC</u>	DC
12V	_	01
24V	12	02
48V	13	03
110V	14	04
230V	15	05

^{*} External Air Pilot: valves have an auxiliary 10-32 port for connecting a separate air pilot supply for the solenoid section. For use when switching air pressures below 35 PSI.

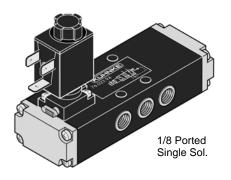
Operating pressure range is 35 to 145 PSI. (Use valves with external pilot for switching lower pressures).

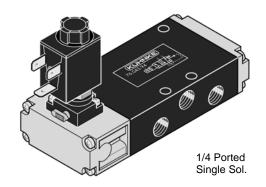
Through body mounting holes are 3/16" for 1/8 and 1/4 ported valves, 1/4 " for 1/2 ported valves.

For valve specifications see appendix. See accessory section for electrical connectors. For detail dimensions contact factory.

Directional Control Valves (4 Way), Solenoid Operated

(Spool Design, Flat Mounting)





Description	Orifice (Body	Dimensions (Approx.	Port	Catalog	Number
Description	No.)	inches) L x W x H	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
Single Solenoid Spring Return-	6mm (8S)	4 1/4 x 1 5/8 x 3 3/8	1/8	75023-94-00	76023-94-00
air assisted	8mm (5S)	4 7/8 x 2 x 3 1/4	1/4	75043-94-00	76043-94-00
Double Solenoid With Detent	6mm (8S)	4 1/4 x 1 5/8 x 3 3/8	1/8	75023-95-00	76023-95-00
	8mm (5S)	5 1/2 x 2 x 3 1/4	1/4	75043-95-00	76043-95-00
513					

Valves have the same features as In-Line Directional Control Valves on page 43, but are designed for mounting on flat surfaces.

Order Coils Separately

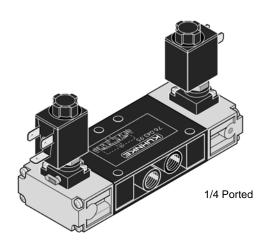
Valve catalog numbers do not include solenoid coils. Coils are supplied loose and unmounted as separate items. (Double solenoid types require 2 coils.)

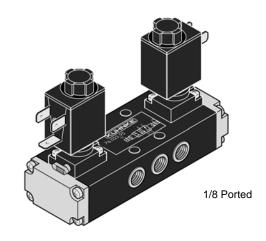
AC Coil Catalog No. 76410-02-** DC Coil Catalog No. 76410-00-**

<u>Voltage</u>	<u>AC</u>	<u>DC</u>
12V	_	01
24V	12	02
48V	13	03
110V	14	04
230V	15	05

3 Position Valves (4 Way), Solenoid Operated

(Spool Design, Flat Mounting)





Three position valves can be used to position cylinder piston rods or switch air supplies to alternate devices. Flat mounted spool valves are available in 2 versions; with all ports open or all ports closed in the center (off) position. Springs return the valve to the center position when the coil power is switched off.

Description	Orifice (Body	Dimensions (Approx.	Port Size		Catalog	Number
Description	No.)	inches) L x W x H	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)	
Double Solenoid All ports open in	6mm (8S)	4 1/4 x 1 5/8 x 3 3/8	1/8	75024-05-00	76024-05-00	
center position.	8mm (5S)	4 7/8 x 2 x 3 1/4	1/4	75044-05-00	76044-05-00	
MIN THE THE STATE OF THE STATE						
Double Solenoid All ports closed in	6mm (8S)	4 1/4 x 1 5/8 x 3 3/8	1/8	75024-15-00	76024-15-00	
center position.	8mm (5S)	4 7/8 x 2 x 3 1/4	1/4	75044-15-00	76044-15-00	
513						

Order Coils Separately

Valve catalog numbers do not include solenoid coils. Coils are supplied loose and unmounted as separate items. (Double solenoid types require 2 coils.)

AC Coil Catalog No. 76410-02-** DC Coil Catalog No. 76410-00-**

** - Add the required coil voltage suffix code from the chart below to complete the coil catalog number.

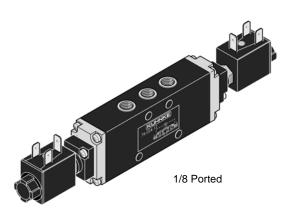
Voltage	AC	DC
12V	_	01
24V	12	02
48V	13	03
110V	14	04
230V	15	05

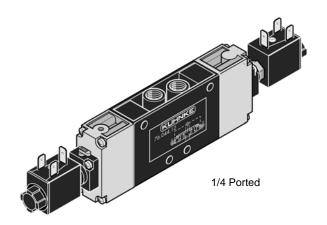
Operating pressure range is 35 to 145 PSI. Through body mounting holes are 3/16".

For valve specifications see appendix. See valve accessory section for electrical connectors. For detail dimensions contact factory.

3 Position Valves (4 Way), Solenoid Operated

(Spool Design, In Line Mounting)





Description	Orifice (Body	Dimensions (Approx.	Catalog	Number	
Description	No.)	inches) L x W x H	Size	NPT Ports (USA Std.)	Metric Ports (European Std.)
Double Solenoid All ports open in	6mm (8S)	8 5/8 x 1 1/8 x 1 5/8	1/8	75024-02-00	76024-02-00
center position.	6mm (1MS)	8 1/2 x 1 x 1 5/8	1/8	(Not Available)	76124-02-00
M _T \	8mm (5S)	10 x 1 x 2	1/4	75044-02-00	76044-02-00
Double Solenoid All ports closed in	6mm (8S)	8 5/8 x 1 1/8 x 1 5/8	1/8	75024-12-00	76024-12-00
center position.	6mm (1MS)	8 1/2 x 1 x 1 5/8	1/8	(Not Available)	76124-12-00
W _T \ ♥ _{ТТТ} ♥ / _T w 513	8mm (5S)	10 x 1 x 2	1/4	75044-12-00	76044-12-00
Double Solenoid External Air Pilot *	6mm (8S)	9 7/8 x 1 1/8 x 1 5/8	1/8	75344-02-00	76344-02-00
All ports <i>open</i> in center position.	6mm (1MS)	9 3/4 x 1 x 1 5/8	1/8	(Not Available)	76524-02-00
513					

Three position valves can be used to position cylinder piston rods or switch air supplies to alternate devices. In line spool valves are available in 2 versions; with all ports open or all ports closed in the center (off) position. Springs return the valve to the center position when the coil power is switched off. Valves can be individually mounted using through body holes or assembled on manifolds.

Order Coils Separately

Valve catalog numbers do not include solenoid coils. Coils are supplied loose and unmounted as separate items. (Double solenoid types require 2 coils.)

AC Coil Catalog No, 76410-02-** DC Coil Catalog No, 76410-00-**

** - Add the required coil voltage suffix code from the chart below to complete the coil catalog number.

<u>Voltage</u>	<u>AC</u>	<u>DC</u>
12V	_	01
24V	12	02
48V	13	03
110V	14	04
230V	15	05

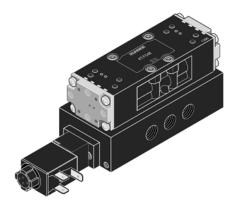
^{*} External Air Pilot: valves have an auxiliary 10-32 port for connecting a separate air pilot supply for the solenoid section. For use when switching air pressures below 35 PSI.

Through body mounting holes are 3/16".

For valve specifications see appendix. See accessory section for connectors and manifolds. For detail dimensions contact factory.

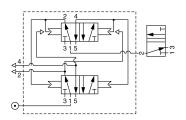
Operating pressure range is 35 to 145 PSI. (Use valves with external pilot for switching lower pressures).

Solenoid Operated Flip Flop Valve



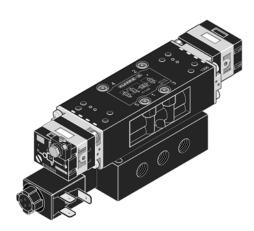
75083-89-00 NPT Ports 76083-89-00 Metric Ports

The Monostable Flip-Flop valve provides a 4 way switched output from an electrical pulse signal of at least 300 ms in length. When the solenoid is energized, the valve output position changes. The valve maintains position until the next electrical pulse signal is applied. Minimum operating pressure 35 PSI.



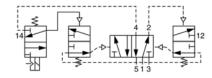
Port Size- 1/4
Orifice- 8mm
Body No.- 5S
Dimensions6 1/2" L x 2" W x 2 3/8" H.

Solenoid Operated Oscillator Valve



75083-90-00 NPT Ports 76083-90-00 Metric Ports

Valve can be used to oscillate a double acting cylinder. Applications include mixing, stirring or sawing devices where time critical cycling is not required. While the solenoid is energized, the valve oscillates. Speed is dependent on connected volume and line pressure, and can be controlled by the addition of flow control valves on the cylinder input ports. Typical speed is 16 cycles per minute at 90 PSI. Minimum operating pressure 35 PSI.



Port Size- 1/8
Orifice- 6mm
Body No.- 8S
Dimensions6 3/4" L x 2" W x 2 1/8" H.

Order Coils Separately

See inset chart on page 47 for catalog numbers.

Operating pressure range 35 to 145 PSI. Actuation force (pilot pressure): 35 PSI minimum. Pilot port size is 1/8. Mounting via 4 through body holes 3/16" Dia.

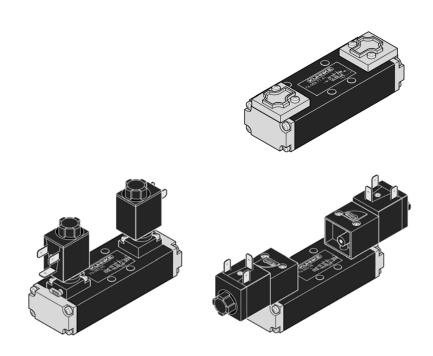
Oscillator valve will not operate if applied on vented applications such as an air gun. Working ports must have a connected defined volume. For valve specifications see appendix. For detail dimensions contact factory.



ISO and NAMUR Replacement Valves

ISO valves are manifold or sub base mounted types designed to a European specification standardizing air flow, drillings and valve body size requirements in order to have interchangeability amongst valve manufacturers. Kuhnke manufactures a complete line of ISO-1 and ISO-2 valves and accessories used for new or replacement installations.

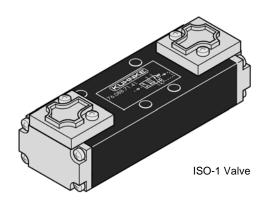
A set of ¼ inch ported valves are also available which meet the European NAMUR which standardizes mounting hole patterns.



ISO-1 and ISO-2

Kuhnke Power Valves

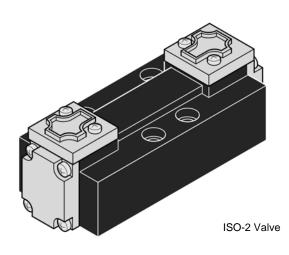
Directional Control Valves (4 Way), Pneumatic Actuation, ISO



Valves are constructed to the European ISO standard, fit on ISO manifolds or sub-plates and are interchangeable amongst manufacturers. Standard pneumatically operated valves are listed, for other types see notes below.

Description	0:	Catalog	Number
Description	Size	Poppet Design	Spool Design
Single Air Pilot Spring Return *	ISO-1	76087-71-41	76083-71-41
14 D T T T T T T T T T T T T T T T T	ISO-2	76097-71-41	76093-71-41
Double Air Pilot With Detent	ISO-1	76087-71-42	76083-71-42
14	ISO-2	76097-71-42	76093-71-42
Double Air Pilot With Priority	ISO-1	76087-71-47	76083-71-47
14	ISO-2	76097-71-47	76093-71-47

3 Position Valves (4 Way), Pneumatic Actuation, ISO



Valves are constructed to the European ISO standard, fit on standard ISO manifolds or sub-plates.

Decembelon	0:	Catalog	Number
Description	Size	Poppet Design	Spool Design
Double Air Pilot All ports open in center position.	ISO-1	(Not Available)	76084-71-28
14 - D- 12 5 1 3	ISO-2	(Not Available)	76094-71-28
Double Air Pilot All ports closed in center position.	ISO-1	(Not Available)	76084-71-38
114 D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ISO-2	(Not Available)	76094-71-38

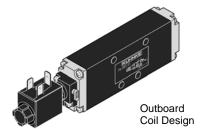
^{*}Single air piloted valves have an air supported spring return. Actuation force must be equal to or greater than the pressure at port 1 (air supply). Single air piloted ISO 1 and ISO 2 valves are available with manual resets (ISO pump valves). A pneumatic "not/not" valve is also available. Contact factory for details.

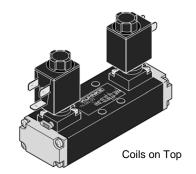
For technical details of ISO valves contact factory. See accessory section for manifolds and sub bases.

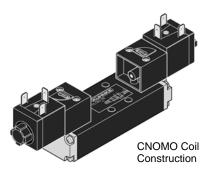
Directional Control Valves (4 Way), Solenoid Operated, ISO

Valves are constructed to the European ISO standard permitting interchangeability between manufacturers. ISO valves have a standard mounting configuration. Valves are also available with a European automotive standard coil configuration (CNOMO).

		_	Catalog	Number
Description	Size	Type	Poppet Design	Spool Design
Single Solenoid		Outboard coil	76087-91-00	76083-91-00
Spring Return-	ISO-1	Coil on top	76087-94-00	76083-94-00
air assisted		CNOMO Coil	76087-97-00	76083-97-00
N T T T T MANN		Outboard coil		
	ISO-2	Coil on top		
1 1		CNOMO Coil	76097-97-00	76093-97-00
Double Solenoid		Outboard coil	76087-92-00	76083-92-00
With Detent	ISO-1	Coil on top	76087-95-00	76083-95-00
		CNOMO Coil	76087-98-00	76083-98-00
		Outboard coil		
	ISO-2	Coil on top		
513		CNOMO Coil	76097-98-00	76093-98-00
Double Solenoid		Outboard coil		
With Priority	ISO-1	Coil on top	76087-96-00	
Detent		CNOMO Coil		
		Outboard coil		
	ISO-2	Coil on top		
513		CNOMO Coil		
Single Solenoid		Outboard coil		
External Air Pilot *	ISO-1	Coil on top		
Spring Return		CNOMO Coil	76387-97-00	76383-97-00
		Outboard coil	76397-97-00	76393-97-00
<u> </u>	ISO-2	Coil on top		
0.0		CNOMO Coil		
Double Solenoid		Outboard coil		
External Air Pilot *	ISO-1	Coil on top		
Detent		CNOMO Coil	76387-98-00	
		Outboard coil		76393-98-00
T	ISO-2	Coil on top		
313		CNOMO Coil		







Order Coils Separately

Valve catalog numbers do not include solenoid coils. Coils are supplied loose and unmounted as separate items. (Double solenoid types require 2 coils.)

Std. AC Coil Cat. No. 76410-02-**
Std. DC Coil Cat. No. 76410-00-**
CNOMO AC Coil Cat. No. 76411-02-**
CNOMO DC Coil Cat. No. 76411-00-**

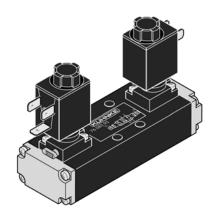
** - Add the required coil voltage suffix code from the chart below to complete the coil catalog number.

<u>Voltage</u>	<u>AC</u>	DC
12V	_	01
24V	12	02
48V	13	03
110V	14	04
230V	15	05

^{*}External Air Pilot: valves have an auxilliary port for connecting a separate air pilot supply for the solenoid section. Use when switching air pressures below 35 PSI

For technical details of ISO valves contact factory. See accessory section for manifolds and sub bases.

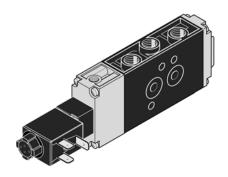
3 Position Valves (4 Way), Solenoid Operated, ISO



ISO standard valves, solenoid operated, are available in 2 versions of 3 position valves; with all ports open or all ports closed in the center (off) position.

De contratto u	0.	_	Catalog Number	
Description	Size	Туре	Poppet Design	Spool Design
Double Solenoid		Outboard coil		76084-02-00
All ports <i>open</i> in	ISO-1	Coil on top	(Not Available)	76084-05-00
center position.		CNOMO Coil		76084-08-00
4 2		Outboard coil		
	ISO-2	Coil on top	(Not Available)	
513		CNOMO Coil		76094-08-00
Double Solenoid		Outboard coil		76084-12-00
All ports <i>closed</i> in	ISO-1	Coil on top	(Not Available)	76084-15-00
center position.		CNOMO Coil		76084-18-00
4 2		Outboard coil		
	ISO-2	Coil on top	(Not Available)	
513		CNOMO Coil		76094-18-00

NAMUR Valves



NAMUR ¼ ported valves are designed to a European specification that standardizes the mounting holes amongst manufacturers. Valves are in line mounted and are available in several configurations.

December 1 and	Catalog Number		
Description	Poppet Design	Spool Design	
Pneumatically Operated, Double Air Pilot	76077-81-42		
Single Solenoid, Spring Return	76077-91-00	76073-91-00	
Double Solenoid, Spring Return	76077-92-00	76073-92-00	
Double Solenoid, 3 Position, all Ports Open in Center Pos.		76074-02-00	
Double Solenoid, 3 Position, all Ports Closed in Center Pos.		76074-12-00	

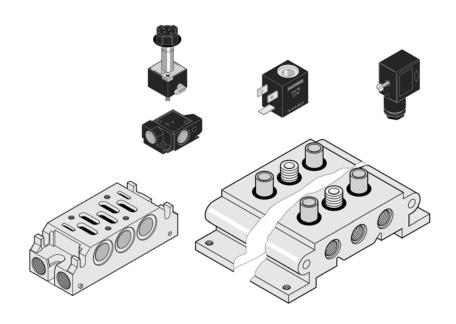
Order Coils Separately

See inset chart on page 51 for catalog numbers.

For technical details of valves, contact factory. See accessory section for manifolds and sub bases.



Accessories and Replacement Parts



Standard Solenoid Coils

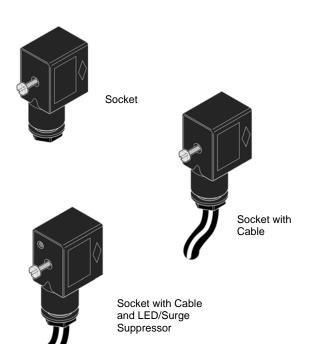


Standard coils fit all general purpose solenoid valves, except ISO valves with CNOMO air pilots. Coils are encapsulated to keep out water, oil and other contaminants providing splash proof protection when used with sockets below. The 3-prong plug includes a ground connection for the coil frame. Terminals can also be connected using crimp-on wire terminals with a ¼" spade dimension. Coil power consumption: AC (60Hz) is 3.5VA, DC is 2.5 W.

For electrical characteristics of solenoids see valve specifications in the appendix.

Voltage	Catalog	Number
voitage	AC	DC
12		76410-00-01
24	76410-02-12	76410-00-02
48	76410-02-13	76410-00-03
110	76410-02-14	76410-00-04
230	76410-02-15	76410-00-05

Electrical Connectors



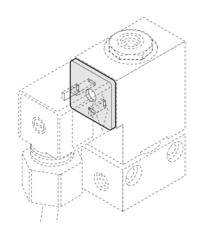
Plug in sockets are constructed of a flame resistant, black molded material and include a sealing ring which provides splash proof protection (NEMA 12, IP65). The socket has screw terminals for a maximum wire size of No. 12 stranded (.75mm²). Maximum cable size for sealing ring is 5/16 inch.

Description	Catalog No.
Socket Only	65495-00
Pre Wired Socket with 9 ft cable (3 meter)	65495-01
Pre Wired Socket 9 ft. cable (3 meter) with built in yellow LED and surge suppressor for 24V AC or DC Max.	65495-02

Luminous Seal/Surge Suppressor

The luminous seal design provides surge suppression, a visual indication of valve on/off state, and forms a seal between coil and socket. Unit has 2 green LED's and a diode bridge, encapsulated in a poly-urethane/silicone material. The seal is approx. 1/8" thick and is sandwiched between coil and socket.

Coil Voltage (AC or DC)	Catalog No.
12 to 24V	65553-00
42 to 48V	65553-01
110 to 120V	65553-02
220 to 230V	65553-03



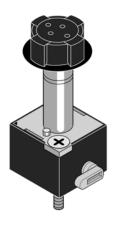
Replacement Air Pilot Valve

Catalog No. **76136-01-00**

Fits all standard valves except ISO valves with CNOMO air pilots and coils.

The 3 way pilot valve section of standard solenoid-operated valves can also be used as a remote air pilot valve when mounted on a sub base or manifold shown below. The valve has an orifice of 1mm and a flow of approximately 2 CFM at 90 PSI. Operating pressure range is 0-145 PSI. The valve includes a red lever for manual operation. Also available in a normally *open* version, catalog number **76136-02-00**.

Order coils separately from the chart on the opposite page.



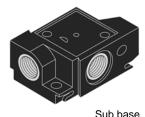
Air Pilot Valve Sub base / Manifold

Sub base with 1/8 metric port- $\bf 76420\text{-}03\text{-}01$ Sub base with push-in fitting for 5/32 tubing- $\bf 76420\text{-}03\text{-}02$

Valves can be mounted on sub base for remote piloting of pneumatically operated valves or used as stand alone 3 way valves. Air pilot section is fastened to sub base with 2 included screws. Base can be mounted on a surface using (2) 5/32" through body holes. Dimensions are 1 5/8" L x 1 1/8" W. With valve mounted, the height is 2 7/8".

Modular manifolds can be constructed using this base design to centralize valves with a common input air supply. Contact factory for details.

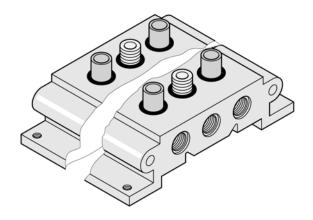




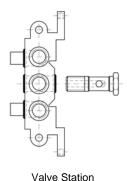
Sub base

Modular Manifold System

Standard Manifold Kits



Two sizes of manifold kits are available (1/8 and 1/4 ported) for standard directional control valves, pneumatically or electrically operated (4 way, In-Line type, 2 or 3 position, except valve types 76123, 76124, 76127). Manifolds are single piece aluminum bases with common supply and exhaust ports on each end (1/8 or 1/4 metric respectively). For NPT supply ports, order supply line adaptor kit separately. Manifold kits include all valve mounting hardware, which accommodates both NPT, or Metric ported versions of valves. A hollow bolt is used to connect the valve to the base and supply the line air pressure. Two brass sleeves, sealed with O-rings, connect the exhaust ports. If a valve station is unoccupied (for future use), a blanking bar kit must be used to block manifold ports. Manifolds can be fastened down by 4 threaded M5 holes. Two or more 1/8 ported manifolds can be linked together with the use of connecting nipples and threaded tie rods (up to 3/16" dia.) using the through body holes on the sides of the manifold to increase the number of stations.



Hardware Assembly

Number				
of Stations	Dimensions 4" W. x 1 1/8" H x L Dim. Below	Catalog Number	Dimensions 4" W. x 1 1/8" H x L Dim. Below	Catalog Number
1	1 3/8"	76420-02-01	1 5/8"	76440-02-01
2	2 1/2"	76420-02-02	2 3/4"	76440-02-02
3	3 5/8"	76420-02-03	3 3/4"	76440-02-03
4	4 3/4"	76420-02-04	4 7/8"	76440-02-04
5	5 7/8"	76420-02-05	5 7/8"	76440-02-05
6	7"	76420-02-06	6 7/8"	76440-02-06
7	8 1/8"	76420-02-07	8"	76440-02-07
8	9 1/4"	76420-02-08	9"	76440-02-08
9	10 3/8"	76420-02-09	10"	76440-02-09
10	11 1/2"	76420-02-10	11"	76440-02-10

For 1/8 Ported Valves

Manifold Accessories

Cata	log	Num	ber
------	-----	-----	-----

1/4 Ported

1/8 Ported

For 1/4 Ported Valves

Supply line NPT adaptor kit (3 Plugs, 3 Adapters)

Spare set of valve mounting hardware (for one station)

Blanking Bar Kit for empty station

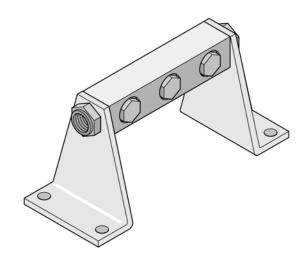
Linking nipples (3), for connecting 1/8 manifolds together

Supply line NPT adaptor kit (3 Plugs, 3 Adapters)

75420-00-97
76420-00-34
76420-00-47
76420-00-47

Common Input Manifolds

Two sizes of common input manifolds are available. Manifolds are aluminum bars, predrilled and tapped; with common 1/4 metric supply ports on each end. For NPT supply ports, order supply line adaptor kit separately. Manifold kits include valve mounting hardware, which accommodates both NPT, or Metric ported versions of valves. A hollow bolt is used to connect the valve to the bar and supply the line air pressure. Optional mounting bracket kits for supporting the manifold are available in 2 heights to accommodate the size of valves used.



Number	For 1/8 Ported Valves		For 1/4 Ported Valves	
of Stations	Dimensions 13/16" Sq. x L Dim. Below	Catalog Number	Dimensions 13/16" Sq. x L Dim. Below	Catalog Number
2	3 3/4"	76420-01-02	3 3/4"	76440-01-02
3	5"	76420-01-03	5"	76440-01-03
4	6 1/4"	76420-01-04	6 1/4"	76440-01-04
5	7 1/2"	76420-01-05	7 1/2"	76440-01-05
6	8 3/4"	76420-01-06	8 3/4"	76440-01-06
7	10"	76420-01-07	10"	76440-01-07
8	11 1/4"	76420-01-08	11 1/4"	76440-01-08
9	12 1/2"	76420-01-09	12 1/2"	76440-01-09
10	13 3/4"	76420-01-10	13 3/4"	76440-01-10

Manifold Accessories

	<u>Catalog No.</u>
Supply line 1/4 NPT adaptor kit (1 Plug, 1 Adapter)	75440-00-99
Spare set of 1/8 valve mounting hardware (set of 3)	76420-00-34
Spare set of 1/4 valve mounting hardware (set of 3)	76420-00-35
Mounting Bracket Kit 2 3/8" High (For 1/8 ported valves)	76420-00-09
Mounting Bracket Kit 5 1/2" High (For 1/8 or 1/4 ported valves)	76440-00-10

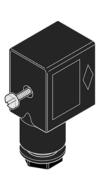
ISO (CNOMO) Solenoid Replacement Coils



For use on ISO valves with CNOMO air pilots.

Voltage	Catalog Number		
voltage	AC	DC	
12		76411-00-01	
24	76411-02-12	76411-00-02	
48	76411-02-13	76411-00-03	
110	76411-02-14	76411-00-04	
230	76411-02-15	76411-00-05	

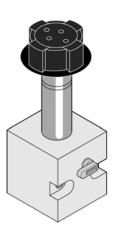
Plug-in Sockets for ISO valves with (CNOMO) Coils



Maximum wire size No. 12 stranded, max. cable diameter for plug sealing ring is 5/16 inch.

Description	Catalog No.
Socket Only	67499-00
Pre Wired Socket with 9 ft cable (3 meter)	67499-01
Pre Wired Socket 9 ft. cable (3 meter) with built in yellow LED and surge suppressor for 24V AC or DC Max.	67499-02

Replacement Air Pilot Valve (CNOMO)



Catalog No. **76136-21-00**

Valve has mounting holes according to CNOMO standards. Operating pressure range is 0-145 PSI.

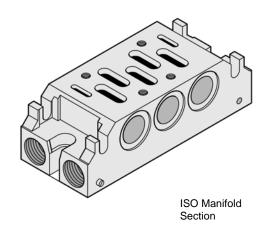
Order coils separately from the chart above.

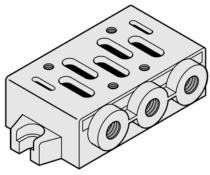
ISO Sub bases and Manifolds

Sub base ISO 1 76420-00-11 Sub base ISO 2 76420-00-12 Manifold Section ISO 1 76420-00-13 Manifold Section ISO 2 76420-00-14

Manifold sections can be used to extend existing systems. Units include the necessary hardware for mounting. Sub bases can be used to individually mount ISO valves.

For a complete list of components including headers, interconnecting parts, blanking plates and hardware for new ISO valve installations, contact the factory.





ISO Sub Base

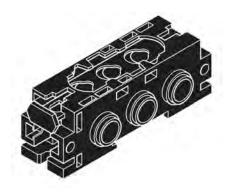
Manifold Components for Molded Valves

(For Valves 76123-xx, 76124-xx, 76127-xx)

Add on Manifold Section 76420-00-01

Additional manifold sections can be used to add valves to existing systems. This molded base system is used for valve types 76123, 76124, 76127 and is constructed of a black molded material. Manifold section includes 3 linking elements for mounting valve in place.

For a complete list of components for new valve installations contact the factory.



Miscellaneous Parts

Kuhnke Power Valves

Replacement Operators for Manual/Mechanical Valves

Air piloted plunger actuator set
Air piloted antenna actuator set
Air piloted shrouded head pushbutton actuator set
Air piloted Mushroom head pushbutton actuator set



Appendix

Valve Flow Information

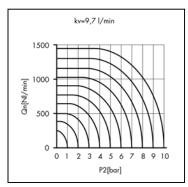
Spool Valves

Body Number (From Cat. Chart		1S, 2S, 8S, 1MS	3S, 4S, 5S
Port Size-		1/8	1/4
Orifice-	mm:	6	8
	Inches:	.236	.315
Cv-		.68	.87
Kv-		9.7	12.4
Flow SCFM -			
	@ 45 PSI:	17.6	22.4
	@ 90 PSI:	31.7	39.2
	@ 145 PSI:	51.5	63.5
Flow I/m (Liter	rs per Min.)-		
	@ 3 Bar:	500	635
	@ 6 Bar:	900	1110
	@ 10 Bar:	1460	1800

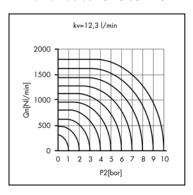
Poppet Valves

1aP, 1bP	9P, 10P, 1MP	6P, 7P	11P, 12P
1/8	1/8	1/4	1/2
4	6	8	15
. 078 . 44 6.3	.236 .86 12.3	. 315 1.11 15.8	.59 4.83 68.8
12.7	22.6	28.9	129.4
21.0 32.8	39.5 63.7	50.5 81.9	227.1 359.0
360 595	640 1120	820 1430	3665 6430
930	1805	2320	10165

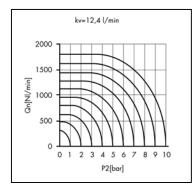
Flow Graphs in Bar and Liters per Minute



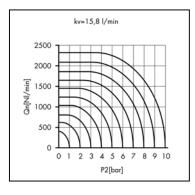
Valve Bodies 1S 2S 8S 1MS



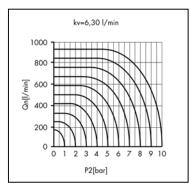
Valve Bodies 9P 10P 1MP



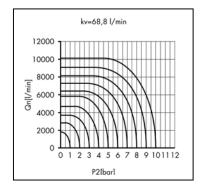
Valve Bodies 3S 4S 5S



Valve Bodies 6P 7P



Valve Bodies 1aP 1bP



Valve Bodies 11P 12P

(1 Bar = 14.5 PSI; 1 liter = .03531 cubic feet)

Valve Specifications

Electrically Operated Valves Standard Solenoid Coils

Coil Power Consumption-

DC: 2.5 W

AC: 4 VA 50Hz / 3.5 VA 60 Hz

Pull in power DC: 2.5 W Minimum Holding Power: 0.1 W

Coil Inrush Current AC: 1.5 x Coil Current

Operating Range @ 20°C-

DC and AC 50Hz coils: 80 to 110% of rated Voltage

AC 60 Hz coils: 85 to 110% of rated Voltage

Operating time-

Pick-up time: 15-20 ms Drop out time: 15-20 ms

Duty cycle: Continuous - 100%

Insulation Class: F (155° C)

Volt	age	Resistance (Ohms-Ω)	Coil Power Consumption mA	
			60 Hz	50 Hz
	24	56	146	167
AC	48	220	73	84
/ . •	110	1280	32	37
	230	4750	16	18
	12	56	214	
	24	220	109	
DC	48	900	53	
	110	4300	25.5	
	220	8700	13	

Valve Information

Operating Pressure: 0 to 145 PSI (0 to 10 Bar)

(Air piloted valves- 35 PSI/

2.5 Bar min.)

Operating Ambient: -15° C to +50° C

(5° F to 120° F)

Mounting: Any position

Materials-

Body: Die cast aluminum alloy

(1aP, 1bP valves –cast zinc) (1MP, 1MS valves-molded)

Seals: Buna N (NBR)

(1aP, 1bP valves –PUR)

Spools: Spool valves- Stainless

Steel, Poppet valves- Brass

End caps: Zinc, steel or Makrolon Lubricant: NILS Dimension Grease

(Blue marker, Silicone Free)

Recommended Media: 5 micron filtered, lubricated

or non-lubricated compressed air, or other neutral

gases.

General Information

Intended Use- Series 75 and 76 valves are intended for general purpose industrial applications utilizing normal shop air supply systems. For special applications with other media or other environments, contact Kuhnke.

Media- Compressed air or other neutral gases, properly filtered. For applications on liquids contact Kuhnke.

Lubrication- Valves operate on lubricated or non-lubricated systems. After using components in a lubricated system, do not switch to an unlubricated system. Avoid over lubrication.

Vacuum Applications- Spool Valve designs can be applied on vacuum systems. For applications using poppet valves, use only specially assembled valves shown in the catalog.

Dimensions and Design Changes- All dimensions in this catalog are approximate, if necessary, detailed drawings can be obtained from Kuhnke or from one of the Kuhnke websites. Dimensions, valve design and materials are subject to change without notice.

Metric and NPT threads- Although similar in size, valve port threads in metric ported valves are different from NPT versions. NPT versions have a tapered thread that is used to form a seal with the fitting thread. Metric thread is straight, and the seal is provided by an o-ring or washer normally included with the connection fitting. Metric fittings can be used on NPT threaded valves, but NPT fittings cannot be used on metric threaded valves.

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6549502		54	750226124	760226124	6	750235541	760235541	16
6555300		55	750226221	760226221	6	750235641	760235641	18
6555301		55	750226223	760226223	6	750235741	760235741	18
6555302		55	750226224	760226224	6	750235841	760235841	17
6555303		55	750226521	760226521	7	750235941	760235941	17
6749900		58	750226523	760226523	7	750236141	760236141	6
6749901		58	750226524	760226524	7	750236143	760236143	6
6749902		58	750226621	760226621	7	750236144	760236144	6
750222121	760222121	21	750226623	760226623	7	750236241	760236241	6
750222122	760222122	21	750226624	760226624	7	750236243	760236243	6
750222221	760222221	22	750227121	760227121	32	750236244	760236244	6
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750222321	760222321	25	750227147	760227147	32	750236543	760236543	7
750222322	760222322	25	750232110	760232110	21	750236544	760236544	7
750222421	760222421	28	750232141	760232141	21 21	750236641	760236641	7 7
750222500 750222521	760222500	10 10	750232142 750232241	760232142 760232241	21	750236643 750236644	760236643	7
750222521	760222521 760222522	10	750232241	760232241	22 25	750236644	760236644 760237141	35
750222522	760222522	8	750232310	760232310	25 25	750237141	760237141	35
750222021	760222700	9	750232341	760232342	25	750237147	760237147	35
750222700	760222721	9	750232441	760232441	28		760237147	*
750222722	760222722	9	750232540	760232540	10	750239100	760239100	43
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750223321	760223321	26	750232542	760232542	10	750239400	760239400	45
750223421	760223421	29	750232641	760232641	8	750239500	760239500	45
750224121	760224121	14	750232740	760232740	9	750240200	760240200	47
750224221	760224221	15	750232741	760232741	9	750240500	760240500	46
750224321	760224321	15	750232742	760232742	9	750241200	760241200	47
750224421	760224421	16	750233241	760233241	23	750241500	760241500	46
750224521	760224521	16	750233341	760233341	26	750242528	760242528	11
750224621	760224621	18	750233441	760233441	29	750242529	760242529	11
750224721	760224721	18	750234141	760234141	14	750242538	760242538	11
750224821	760224821	17	750234241	760234241	15	750242539	760242539	11
750224921	760224921	17	750234242	760234242	15	750247128	760247128	36
750225121	760225121	14	750234341	760234341	15	750247138	760247138	36
750225221	760225221	15	750234441	760234441	16	750247158	760247158	36
750225321	760225321	15	750234541	760234541	16	750252121	760252121	20
750225421	760225421	16	750234641	760234641	18	750252131	760252131	20
750225521	760225521	16	750234741	760234741	18	750252321	760252321	24
750225621	760225621	18	750234841	760234841	17	750252331	760252331	24
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750225821	760225821	17	750235141	760235141	14	750252431	760252431	27
750225921	760225921	17	750235241	760235241	15	750260100	760260100	40

 $[\]ensuremath{^*}$ - Item is not shown in this catalog. Contact factory for information.

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750262131	760262131	20	750422522	760422522	10	750467031	760467031	26
750262321	760262321	24	750422700	760422700	9	750467121	760467121	33
750262331	760262331	24	750422721	760422721	9	750467131	760467131	33
750262421	760262421	27		760428121	*	750467421	760467421	29
750262431	760262431	27		760428122	*	750476010	760476010	23
750262721	760262721	20	750432540	760432540	10	750476041	760476041	23
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750266321	760266321	30		760437272	*	750476949	760476949	13
750266331	760266331	30	750438141	760438141	35	750477041	760477041	26
	760266421	*	750438142	760438142	35		760477241	*
	760266431	*	750438147	760438147	35	750477441	760477441	29
	760266721	*	750439100	760439100	43	750478141	760478141	34
	760266731	*	750439200	760439200	43	750478142	760478142	34
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750266921	760266921	12	750440200	760440200	47	750479200	760479200	42
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750267121	760267121	33	750441200	760441200	47	750479500	760479500	44
750267131	760267131	33	750441500	760441500	46	750660100	760660100	40
	760272141	*	750442528	760442528	11	750661100	760661100	40
	760272341	*	750442529	760442529	11	750668121	760668121	33
	760272741	*	750442538	760442538	11	750668131	760668131	33
750276010	760276010	23	750442539	760442539	11	750678141	760678141	34
	760276041	*	750448128	760448128	36	750678142	760678142	34
	760276441	*	750448138	760448138	36	750678147	760678147	34
	760276741	*	750460100	760460100	40	750679100	760679100	42
	760277041		750461100	760461100	40	750679200	760679200	42
750277141	760277141	34	750466021	760466021	23	750679400	760679400	44
750277142	760277142	34	750466031	760466031	23	750679500	760679500	44
750277147	760277147	34	750466321	760466321	30		760739100	52
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	760277441			760466431	*		760740200	52
750279100	760279100	42		760466721	*		760741200	52
750279200	760279200	42	75040004	760466731			760778142	52
750279400	760279400	44	750466821	760466821	13		760779100	52
750279500	760279500	44 *	750466829	760466829	13		760779200	52
750007404	760360100		750466921	760466921	13		760837141	50
750367121	760367121	32	750466929	760466929	13		760837142	50
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^{* -} Item is not shown in this catalog. Contact factory for information.

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	760838800	*		760977241	*	753439200	763439200	43
	760838900	48		760979700	51	753440200	763440200	47
	760838942	37		760979800	51	753460100	763460100	40
	760839000	48		761067132	*	753461100	763461100	40
	760839042	37		761236341	30	753479100	763479100	42
	760839100	51		761237141	35	753479200	763479200	42
	760839200	51		761237142	35	753660100	763660100	40
	760839400	51		761237147	35	753661100	763661100	40
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	760839700	51		761239200	43	753679200	763679200	42
	760839800	51		761239300	43	753679500	763679500	44
	760840200	52		761240200	47		763839700	51
	760840500	52		761241200	47		763879700	51
	760840800	52		761247128	36		763879800	51
	760841200	52		761247138	36		763939700	51
	760841500	52		761276341	30		763939800	51
	760841800	52		761277141	34		763979700	51
	760847128	50		761277142	34		764100001	54
	760847138	50		761277147	34		764100002	54
	760877141	50		761279100	42		764100003	54
	760877142	50		761279200	42		764100004	54
	760877147	50 *		761279300	43		764100005	54
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