



Air Pilot Operated Valve

Poppet construction and design: 3/2 way & 4/2 way The ports size range: 3/8",1/2",1",1.5" & 2" Material in aluminum alloy and 316SS



NUTORK CORPORATION

NUTORK[®] Air Pilot Operated Valve

Directional Control Function:

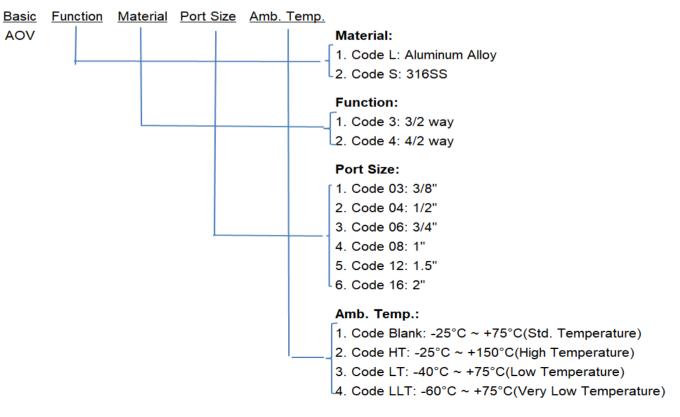
Directional control valves function is to control the direction of flow in the pneumatic circuit. Directional control valves are able to control the way the air passes. These valves can regulate the airflow being capable to stop fluid flow. and change the direction of fluid flow.

Technical Data:

Fund	tion	3/2 and 4/2 way air pilot operated valve										
Constructi	on Design	Poppet construction for high dirt tolerance										
	Valve body	Aluminum alloy or 316SS										
Construction Material	Poppet	Acetal and 316SS										
Material	Seals	Buna-N(std.), Viton(High Temp.), HNBR(Low Temp.) & Silicone(EAC Low Tem										
Medium	n(Note)	Filtered air. No lubrication needed, if applied it shall be continuous										
Mour	nting	Inline type, Orientation:in any position,preferably vertical										
Max. working p	ressure (bar)	10										
Minimum piloting	pressure (bar)	2.0										
		-25°C ~ +75°C(Std. Temperature)										
Auchieut Teur	**************************************	-25°C ~ +150°C(High Temperature)										
Ambient Tem	perature °C	-40°C ~ +75°C(Low Temperature)										
		-60°C ~ +75°C(Very Low Temperature)										
Flow rate at 6	3/2 Way	3800	4850	10500	14000	49000	57000					
bar with ∆p=1 (Nl/min)	4/2 Way	2750	3200	9350	13900							
	Orifice size (mm)		15	20	25	40	50					
Working ports s	size(G or NPT)	3/8"	1/2"	3/4"	1"	1.5"	2"					
Pilot port size		1/4"NPT										

Note:Air supply must be dry enough to avoid ice formation at temperature below +2°C(+35°F)

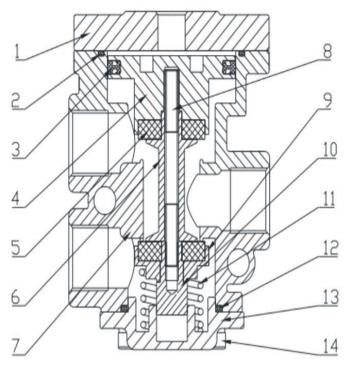
Ordering Information:



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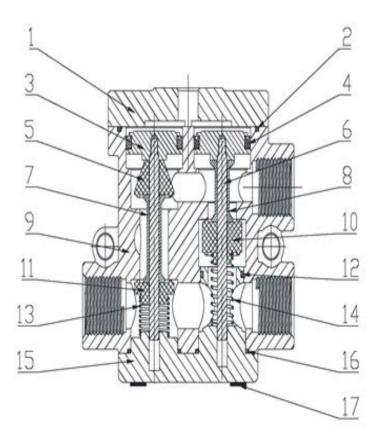
Part list:

3/2 way:



Label	Name	Material	Label	Name	Material		
1	Top Cover	Aluminum Alloy/ Stainless Steel	8	Screw	Stainless Steel		
2*	O-ring	NBR/ Silicone Rubber	9	Valve Seat	Aluminum Alloy/ Stainless Steel		
3*	Piston Sealing Ring	NBR/ Silicone Rubber	10	Hexagonal Nut	Stainless Steel		
4	Piston	Aluminum Alloy/ Stainless Steel	• 111*		Spring Steel/ Stainless Steel		
5*	Flat Cushion	NBR/ Silicone Rubber	12*	O-ring	NBR/ Silicone Rubber		
6	Spool	Stainless Steel	13	Bottom Cover	Aluminum Alloy/ Stainless Steel		
7	Valve body	Aluminum Alloy/ Stainless Steel	14	Hexagonal Screw	Stainless Steel		
	commended pare Parts	Please select appropriate spare parts according to the p size and model,included labels 2, 3, 5, 11, and 12.					

4/2 way:



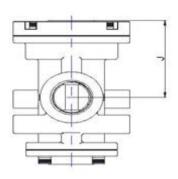
Part list:

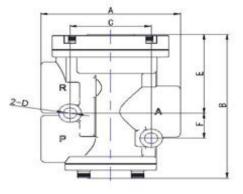
Label	Name	Material	Label	Name	Material			
1	Top Cover	Aluminum Alloy/ Stainless Steel	10*	Sealing Element B	Assembly			
2*	O-Ring	NBR/ Silicone Rubber	11*	Sealing Element A2	Assembly			
3	Piston	Aluminum Alloy/ Stainless Steel	12*	O-ring	NBR/ Silicone Rubber			
4*	Piston Sealing Ring	NBR/ Silicone Rubber	13*	Compression spring	Spring Steel/ Stainless Steel			
5*	Sealing Element A1	Assembly	14*	Compression spring	Spring Steel/ Stainless Steel			
6	Spool	Stainless steel	15	Bottom cover	Aluminum Alloy/ Stainless Steel			
7	Shaft Sleeve A	Aluminum Alloy/ Stainless Steel	16*	O-ring	NBR/ Silicone Rubber			
8	Shaft Sleeve B	Aluminum Alloy/ Stainless Steel	17	Hexagonal Screw	Stainless steel			
9	Valve Body	Aluminum Alloy/ Stainless Steel						
	ecommended pare Parts	Please select appropriate spare parts according to the port size and model, included labels 2, 4, 5, 10,11,12,13,14, and 16.						

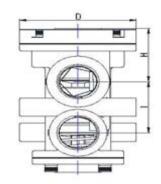
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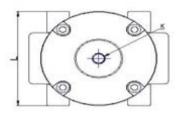
Outline Dimension:

3/2 way:





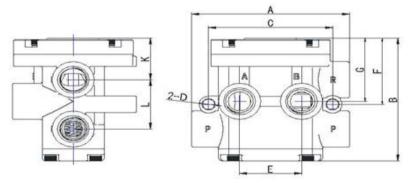


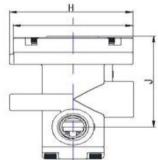


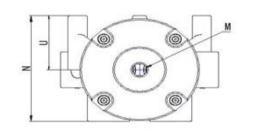
Unit: mm

Port Size	А	В	С	D	E	F	G	н	I	J	К	L
3/8"&1/2"	78.2	103.5	52	8.5	57.5	19	76	40.5	35	58	NPT1/4	76
3/4"& 1"	110	140.5	64	10.5	77	24.5	92	52	50	75	NPT1/4	92
1-1/2"& 2"	200	234	116	16.5	128	40	165	85	83.5	125	NPT1/4	165

4/2 way:







Unit: mm

Port Si	ze	А	В	С	D	Е	F	G	Н	I	J	К	L	М	Ν	U
3/8"&1	/2"	112	102	88	8.5	44	55	52.5	87.5	85	75.5	34.5	41	NPT1/4	88	45
3/4"&	1"	156	135.5	119	10.5	57	69	66	107.5	105	99	40	59	NPT1/4	112	55

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