SOLENOID VALVES ISO K SUB-BASED VALVES

SOLENDID

Specification

Model							
Acting	Model		200 Series	300 Series	400 Series	600 Series	
Lubrication ① Not required Operating Pressure Internal Pilot 0.2-1.0 Mpa (29-145psi) Control Pressure (External Pilot) 0.2-1.0 Mpa (29-145psi) Proof Pressure 1.5 Mpa (215psi) Temperature -20 − 70°C Port Size (Manifold) 1/4" 3/8" 1/2" 3/4" Port Size (End Plate) 3/8" 1/2" 3/4" 1 Voltage Range AC: ± 15% DC: ± 10% Power Consumption AC: 3.5VA DC: 3.0W Activating Time (0.5MPa) Open\Close 10\20 Series 33\41ms 42\55ms 50\68ms 55\85ms Insulation Class B Protection IP65	Fluid		Air (to be filtered by 40μm filter element)				
Operating Pressure Internal Pilot External Pilot 0.2-1.0 Mpa (29-145psi) Control Pressure (External Pilot) 0-1.0 Mpa (29-145psi) Proof Pressure 1.5 Mpa (215psi) Temperature -20 − 70°C Port Size (Manifold) 1/4" 3/8" 1/2" 3/4" Port Size (End Plate) 3/8" 1/2" 3/4" 1 Voltage Range AC: ± 15% DC: ± 10% Power Consumption AC: 3.5VA DC: 3.0W Activating Time 10\20 Series 33\41ms 42\55ms 50\68ms 55\85ms (0.5MPa) Open\Close 30 C\E\P Series 38\50ms 52\62ms 52\68ms 55\85ms Insulation Class B Protection IP65	Acting	Internal pilot or external pilot					
Operating Pressure External Pilot 0-1.0 Mpa (0-145psi) Control Pressure (External Pilot) 0.2-1.0 Mpa (29-145psi) Proof Pressure 1.5 Mpa (215psi) Temperature -20 − 70°C Port Size (Manifold) 1/4" 3/8" 1/2" 3/4" Port Size (End Plate) 3/8" 1/2" 3/4" 1 Voltage Range AC: ± 15% DC: ± 10% Power Consumption AC: 3.5VA DC: 3.0W Activating Time (0.5MPa) Open\Close 10\20 Series 33\41ms 42\55ms 50\68ms 55\85ms Insulation Class B Protection IP65	Lubrication 1	Not required					
External Pilot 0-1.0 Mpa (0-145psi)			0.2-1.0 Mpa (29-145psi)				
Proof Pressure 1.5 Mpa (215psi) Temperature -20 − 70°C Port Size (Manifold) 1/4" 3/8" 1/2" 3/4" Port Size (End Plate) 3/8" 1/2" 3/4" 1 Voltage Range AC: ± 15% DC: ± 10% Power Consumption AC: 3.5VA DC: 3.0W Activating Time 10/20 Series 33/41ms 42/55ms 50/68ms 55/85ms (0.5MPa) Open/Close 30 C/E/P Series 38/50ms 52/62ms 52/68ms 55/85ms Insulation Class B Protection IP65	Operating Pressure	External Pilot	0-1.0 Mpa (0-145psi)				
Temperature	Control Pressure (Exte	0.2-1.0 Mpa (29-145psi)					
Port Size (Manifold) 1/4" 3/8" 1/2" 3/4" Port Size (End Plate) 3/8" 1/2" 3/4" 1 Voltage Range AC: ± 15% DC: ± 10% Power Consumption AC: 3.5VA DC: 3.0W Activating Time (0.5MPa) Open\Close 10\20 Series 33\41ms 42\55ms 50\68ms 55\85ms (0.5MPa) Open\Close 30 C\E\P Series 38\50ms 52\62ms 52\68ms 55\85ms Insulation Class B Protection IP65	Proof Pressure	1.5 Mpa (215psi)					
Port Size (End Plate) 3/8" 1/2" 3/4" 1 Voltage Range AC: ± 15% DC: ± 10% Power Consumption AC: 3.5VA DC: 3.0W Activating Time (0.5MPa) Open\Close 10\20 Series 33\41ms 42\55ms 50\68ms 55\85ms Insulation Class B Protection IP65	Temperature	-20 – 70°C					
Voltage Range AC: ± 15% DC: ± 10% Power Consumption AC: 3.5VA DC: 3.0W Activating Time (0.5MPa) Open\Close 10\20 Series 33\41ms 42\55ms 50\68ms 55\85ms Insulation Class B Protection IP65	Port Size (Manifold)	1/4"	3/8"	1/2"	3/4"		
Power Consumption	Port Size (End Plate)		3/8"	1/2"	3/4"	1	
Activating Time 10\20 Series 33\41ms 42\55ms 50\68ms 55\85ms (0.5MPa) Open\Close 30 C\E\P Series 38\50ms 52\62ms 52\68ms 55\85ms Insulation Class B	Voltage Range			AC: ± 15%	DC: ± 10%		
(0.5MPa) Open\Close 30 C\E\P Series 38\50ms 52\62ms 52\68ms 55\85ms Insulation Class B Protection IP65	Power Consumption			AC: 3.5VA	DC: 3.0W		
Insulation Class B Protection IP65	Activating Time	10\20 Series	33\41ms	42\55ms	50\68ms	55\85ms	
Protection IP65	(0.5MPa) Open\Close	30 C\E\P Series	38\50ms	52\62ms	52\68ms	55\85ms	
	Insulation		Class B				
Installation Size IS05599-1 standard	Protection		IP65				
	Installation Size	IS05599-1 standard					

Note: once lubricated air is used, continue with same medium to optimise valve life span.
 Lubricants like ISO VG32 or equivalent are recommended.





Product Features

- 1 Succinct appearance and compact conformation.
- 2 The installation size conforms to the ISO 5599/1 standard.
- 3 Special seals improve flow rate and enhance lifetime of product.
- 4 The installation direction of the pilot O-ring can be adjusted to change the acting type to internal pilot, external pilot or air control.
- 5 The valve(s) should be installed together with the KELM[™] single or parallel type manifolds.
- 6 Easy to install various connection and installation methods for manifolds.
- 7 The manifold has an exhaust dampener no need to connect to separate silencer.

Symbols

5/2 Solenoid/Spring

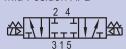
315

5/2 Solenoid/Solenoid

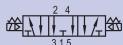
30



5/3 Solenoid/Solenoid, Fully Sealed Mid Position APB



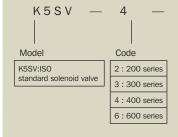
5/3 Solenoid/Solenoid, Supply Sealed Mid Position COE



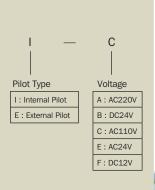
5/3 Solenoid/Solenoid, Centre Open Pressurised Mid Position COP



Ordering Code



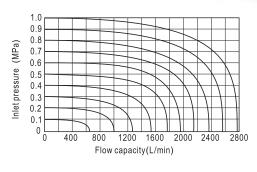




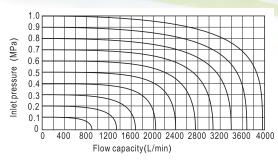


Flow Charts

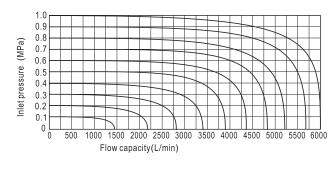
200 Series



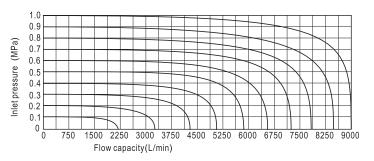
300 Series



400 Series

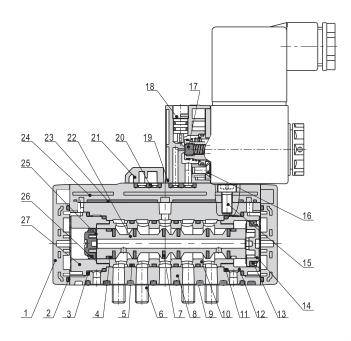


600 Series



Inner Structure

NO.	Item	NO.	Item	NO.	Item
1	Bottom cover	10	Spacer	19	Pilot kit
2	O-ring	11	O-ring	20	Gasket
3	O-ring	12	Big piston sheath	21	Cover plate
4	Wear ring	13	Big piston O-ring	22	Spool
5	O-ring	14	Big piston	23	Upper cover gasket
6	Screw	15	Screw	24	Upper cover
7	O-ring	16	Screw	25	Small piston
8	Body	17	Gasket	26	Small piston O-ring
9	Gasket	18	Manual override	27	Small piston sheath

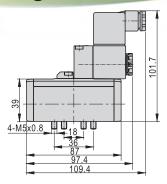


SOLENOID VALVES ISO K SUB-BASED VALVES SOLENOID

Dimensions - 200 Series

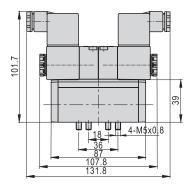
All sizes are in millimetres unless stated otherwise.

Single Solenoid



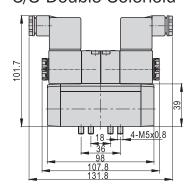


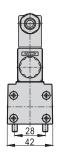
Double Solenoid





5/3 Double Solenoid

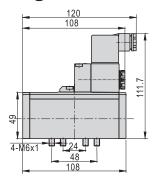


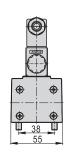


Dimensions - 300 Series

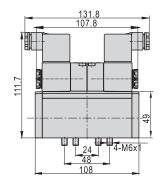
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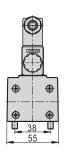
Single Solenoid



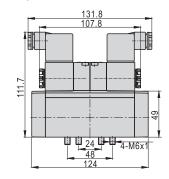


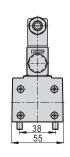
Double Solenoid





5/3 Double Solenoid





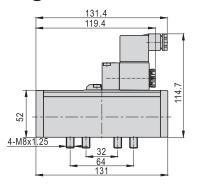


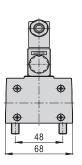
SOLENDID VALVES -ISO K SUB-BASED VALVES -SOLENDID

Dimensions - 400 Series

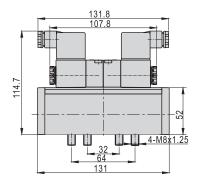
All sizes are in millimetres unless stated otherwise.

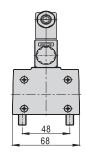
Single Solenoid



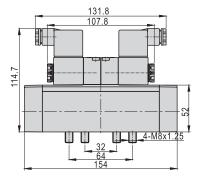


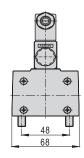
Double Solenoid





5/3 Double Solenoid

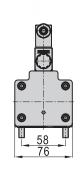


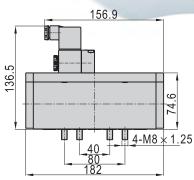


Dimensions - 600 Series

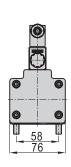
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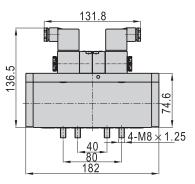
Single Solenoid





Double Solenoid



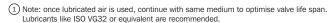


PILOT, LOGIC & SPECIALIST VALVES ISO K SUB-BASED VALVES —

PILOT

Specification

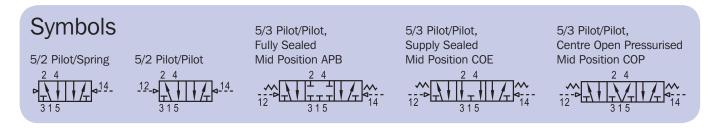
Model		200 Series	300 Series	400 Series	600 Series	
Fluid		Air (to be filtered by 40µm filter element)				
Acting	Extend pilot					
Lubrication 1	Not required					
Operating Pressure	Single Air Control	0.2-1.0 Mpa (29-145psi)				
	Double Air Control	-0.09-1.0 Mpa (-13-145psi)				
Control Pressure (External Pilot)		0.2-1.0 Mpa (29-145psi)				
Proof Pressure		1.5 Mpa (215psi)				
Temperature	-20 – 70°C					
Port Size (Manifold)		1/4"	3/8"	1/2"	3/4"	
Port Size (End Plate)		3/8"	1/2"	3/4"	1	
Installation Size		ISO5599-1 standard				
Port Size (Manifold) Port Size (End Plate)		1/4" 3/8" 1/2" 3/4" 3/8" 1/2" 3/4" 1				

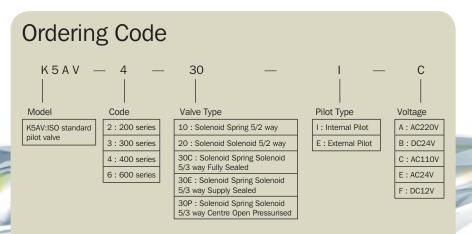


Product Features

- 1 Succinct appearance and compact conformation.
- 2 The installation size conforms to the ISO 5599/1 standard.
- 3 Special seals improve flow rate and enhance lifetime of product.
- 4 The installation direction of the pilot O-ring can be adjusted to change the acting type to internal pilot or external pilot.
- 5 The valve(s) should be installed together with the KELM[™] single or parallel type manifolds.

- 6 Easy to install various connection and installation methods for manifold.
- 7 The manifold of 200/300/400 series has an exhaust throttle function no need to connect to another throttle valve.
- 8 Due to the external pilot, the working pressure of the double pilot control valve can be zero or vacuum.



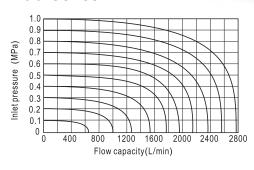




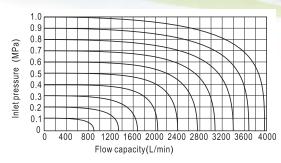
PILOT, LOGIC & SPECIALIST VALVES | SO K Sub-based Valves PILOT

Flow Charts

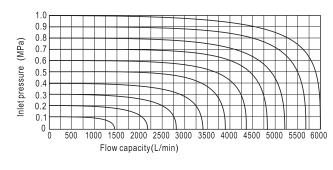
200 Series



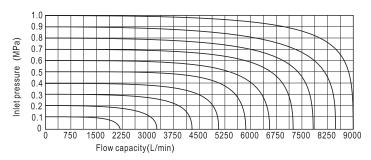
300 Series



400 Series

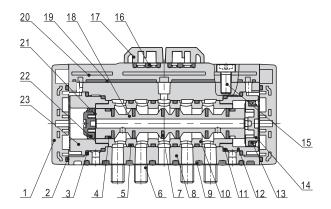


600 Series



Inner Structure

NO.	Item	NO.	Item	NO.	Item
1	Bottom cover	9	Gasket	17	Cover plate
2	O-ring	10	Spacer	18	Spool
3	O-ring	11	O-ring	19	Upper cover gasket
4	Wear ring	12	Big piston sheath	20	Upper cover
5	O-ring	13	Big piston O-ring	21	Small piston
6	Screw	14	Big piston	22	Small piston O-ring
7	O-ring	15	Screw	23	Small piston sheath
8	Body	16	Gasket		

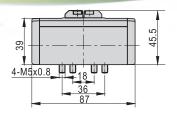


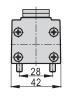
PILOT, LOGIC & SPECIALIST VALVES ISO K SUB-BASED VALVES PILOT

Dimensions

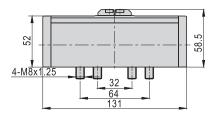
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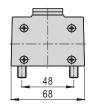
200 Series



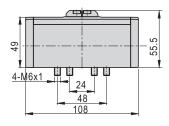


400 Series



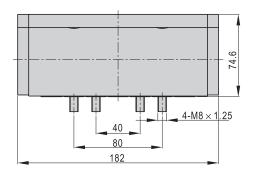


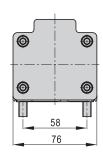
300 Series

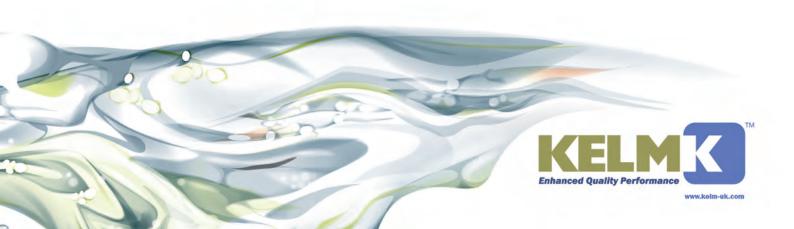




600 Series







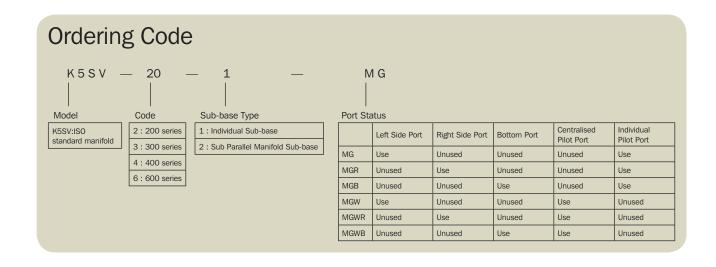
PILOT, LOGIC & SPECIALIST VALVES ISO K SUB-BASED MANIFOLDS





Product Features

- 1 Use with ISO Solenoid and ISO Pilot valves of the same series to save space and costs.
- 2 Easy fault finding with common air intake and exhaust unified wiring.
- 3 Flexible System can be expanded easily.



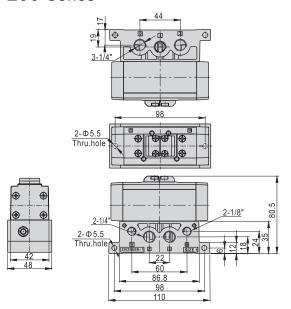


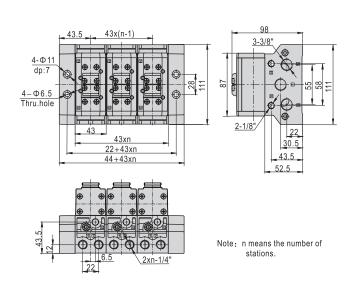
PILOT, LOGIC & SPECIALIST VALVES ISO K Sub-based Manifolds

Dimensions

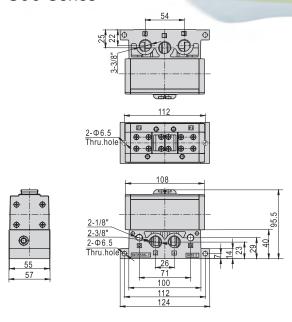
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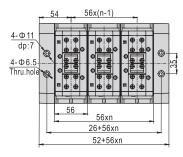
200 Series

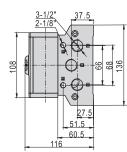


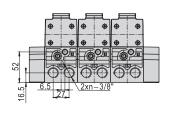


300 Series









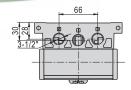
Note: n means the number of stations.

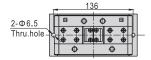
PILOT, LOGIC & SPECIALIST VALVES ISO K SUB-BASED MANIFOLDS

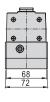
Dimensions

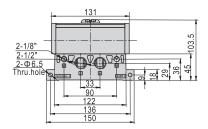
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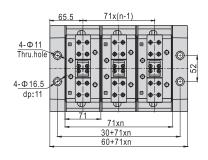
400 Series

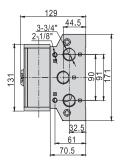


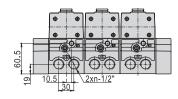












Note: n means the number of stations.

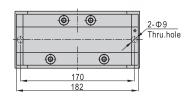


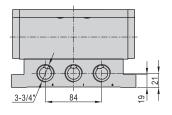
PILOT, LOGIC & SPECIALIST VALVES 150 K Sub-based Manifolds

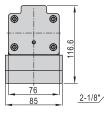
Dimensions

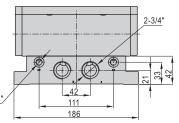
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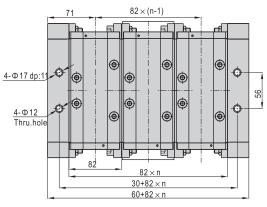
600 Series

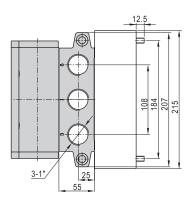


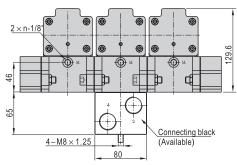












Note: n means the number of stations.