



F Series - Indirect Acting Solenoid Valves for Vacuum

100+ million cycle life tested and rated directional control valve series that can switch direction of the cylinder ports and from double to single solenoid without any additional parts needed. The Selection Guide provides a summary of the 20 different F Series - Indirect Acting Solenoid Valves for Vacuum.

- Direct Wiring , D-Sub, Flat Cable or Serial Communication
- Switchable Output Ports Direct on Valve or Manifold
- RoHS Compliance
- Inline, Subbase, Monoblock or Split Type Manifold
- Field Selectable Double or Single Solenoid Operation

Improve the performance and reduce the size of your next generation machine. Koganei sets the standard for supplying innovative high-quality solutions with unmatched reliability. Optimized designs, with a wide variety of styles and sizes, increase speed to market as well as provide solutions for most applications. Expedite deliveries with product stocked in the USA.

KOGANEI is committed to your success from concept, to initial design, to final delivery and beyond.

Operations

5/2 Single External Pilot Vacuum

5/2 Switchable Double External Pilot Vacuum

5/2 Switchable Double External Pilot Vacuum Clean System

5/3 Double External Pilot Closed Center Vacuum

5/3 Double External Pilot Closed Center Vacuum Clean System

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Model	Operation	Valve Width mm [in]	Flow Rate Cv	Orifice Size mm [in]	Port Sizes metric [imperial]	Mounting	Piping	Voltages	Power Consumption W	Max Frequency Hz	Pressure Range MPa [psi]	Temperature Range °C [°F]
F10TOV	5/2 Single External Pilot Vacuum	10 [0.39]	0.2	3.6 [0.142]	4 mm, 6 mm, M5 x 0.8 [10-32 UNF]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	12, 24 DC 100, 120 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
F15TOV	5/2 Single External Pilot Vacuum	15 [0.59]	0.48	8.65 [0.341]	6 mm, 8 mm, Rc 1/8 [1/8 NPT]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	12, 24 DC 100, 120 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
F18TOV	5/2 Single External Pilot Vacuum	18 [0.71]	1	18 [0.709]	8 mm, 10 mm, Rc 1/4 [1/4 NPT]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	12, 24 DC 100, 120 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
F10TIV	5/2 Switchable Double External Pilot Vacuum	10 [0.39]	0.2	3.6 [0.142]	4 mm, 6 mm, M5 x 0.8 [10-32 UNF]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	12, 24 DC 100, 120 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
F10T2V	5/2 Switchable Double External Pilot Vacuum	10 [0.39]	0.2	3.6 [0.142]	4 mm, 6 mm, M5 x 0.8 [10-32 UNF]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	12, 24 DC 100, 120 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]

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Model	Operation	Valve Width mm [in]	Flow Rate Cv	Orifice Size mm [in]	Port Sizes metric [imperial]	Mounting	Piping	Voltages	Power Consumption W	Max Frequency Hz	Pressure Range MPa [psi]	Temperature Range °C [°F]
F15T2V	5/2 Switchable Double External Pilot Vacuum	15 [0.59]	0.48	8.65 [0.341]	6 mm, 8 mm, Rc 1/8 [1/8 NPT]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	12, 24 DC 100, 120 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
F15T1V	5/2 Switchable Double External Pilot Vacuum	15 [0.59]	0.48	8.65 [0.341]	6 mm, 8 mm, Rc 1/8 [1/8 NPT]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	12, 24 DC 100, 120 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
F18T2V	5/2 Switchable Double External Pilot Vacuum	18 [0.71]	1	18 [0.709]	8 mm, 10 mm, Rc 1/4 [1/4 NPT]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	12, 24 DC 100, 120 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
F18T1V	5/2 Switchable Double External Pilot Vacuum	18 [0.71]	1	18 [0.709]	8 mm, 10 mm, Rc 1/4 [1/4 NPT]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	12, 24 DC 100, 120 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
CS-F10T1V	5/2 Switchable Double External Pilot Vacuum Clean System	10 [0.39]	0.2	3.6 [0.142]	4 mm, 6 mm, M5 x 0.8 [upon request]	Single Subbase, Block Manifold	Base	12, 24 DC 100 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
CS-F15T1V	5/2 Switchable Double External Pilot Vacuum Clean System	15 [0.59]	0.48	8.65 [0.341]	6 mm, 8 mm, Rc 1/8 [upon request]	Single Subbase, Block Manifold	Base	12, 24 DC 100 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
CS-F15T2V	5/2 Switchable Double External Pilot Vacuum Clean System	15 [0.59]	0.48	8.65 [0.341]	6 mm, 8 mm, Rc 1/8 [upon request]	Single Subbase, Block Manifold	Base	12, 24 DC 100 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
CS-F18T1V	5/2 Switchable Double External Pilot Vacuum Clean System	18 [0.71]	1	18 [0.709]	8 mm, 10 mm, Rc 1/4 [upon request]	Single Subbase, Block Manifold	Base	12, 24 DC 100 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
CS-F18T2V	5/2 Switchable Double External Pilot Vacuum Clean System	18 [0.71]	1	18 [0.709]	8 mm, 10 mm, Rc 1/4 [upon request]	Single Subbase, Block Manifold	Base	12, 24 DC 100 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
F10T3V	5/3 Double External Pilot Closed Center Vacuum	10 [0.39]	0.197	3.55 [0.14]	4 mm, 6 mm, M5 x 0.8 [10-32 UNF]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	12, 24 DC 100, 120 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
F15T3V	5/3 Double External Pilot Closed Center Vacuum	15 [0.59]	0.477	8.6 [0.339]	6 mm, 8 mm, Rc 1/8 [1/8 NPT]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	12, 24 DC 100, 120 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
F18T3V	5/3 Double External Pilot Closed Center Vacuum	18 [0.71]	1	18 [0.709]	8 mm, 10 mm, Rc 1/4 [1/4 NPT]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	12, 24 DC 100, 120 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
CS-F10T3V	5/3 Double External Pilot Closed Center Vacuum Clean System	10 [0.39]	0.197	3.55 [0.14]	4 mm, 6 mm, M5 x 0.8 [upon request]	Single Subbase, Block Manifold	Base	12, 24 DC 100 AC	0.4 - 1	5	-0.1 - 0.7 [-14.5 - 101.5]	5 - 50 [41 - 122]
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