



F Series - Indirect Acting Solenoid Valves

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 132 different F Series - Indirect Acting Solenoid Valves.

- Direct Wiring , D-Sub, Flat Cable or Serial Communication
- Switchable Output Ports Direct on Valve or Manifold
- Available with Two 3-way Valves in One Body
- Inline, Subbase, Monoblock or Split Type Manifold
- Field Selectable Single or Double Solenoid Operation
- RoHS Compliance

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

2x3/2 Double Tandem NC / NC	2x3/2 Double Tandem NC / NC Low Current	2x3/2 Double Tandem NC / NO	2x3/2 Double Tandem NC / NO Low Current
2x3/2 Double Tandem NO / NO	2x3/2 Double Tandem NO / NO Low Current	5/2 Single	5/2 Single External Pilot
5/2 Single External Pilot Vacuum	5/2 Single Low Current	5/2 Single Low Current External Pilot	5/2 Switchable Double
5/2 Switchable Double Clean System	5/2 Switchable Double External Pilot	5/2 Switchable Double External Pilot Clean System	5/2 Switchable Double External Pilot Vacuum
5/2 Switchable Double External Pilot Vacuum Clean System	5/2 Switchable Double Low Current	5/2 Switchable Double Low Current External Pilot	5/3 Double Closed Center
5/3 Double Closed Center Clean System	5/3 Double Exhaust Center	5/3 Double Exhaust Center Clean System	5/3 Double External Pilot Closed Center
5/3 Double External Pilot Closed Center Clean System	5/3 Double External Pilot Closed Center Vacuum	5/3 Double External Pilot Closed Center Vacuum Clean System	5/3 Double External Pilot Exhaust Center
5/3 Double External Pilot Exhaust Center Clean System	5/3 Double External Pilot Pressure Center	5/3 Double External Pilot Pressure Center Clean System	5/3 Double Low Current Closed Center
5/3 Double Low Current Exhaust Center	5/3 Double Low Current External Pilot Closed Center	5/3 Double Low Current External Pilot Exhaust Center	5/3 Double Low Current External Pilot Pressure Center
5/3 Double Low Current Pressure Center	5/3 Double Pressure Center	5/3 Double Pressure Center 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]
F10TA	2x3/2 Double Tandem NC / NC	10 [0.39]	0.178	3.2 [0.126]	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	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F15TA	2x3/2 Double Tandem NC / NC	15 [0.59]	0.4	7.2 [0.283]	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	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]

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F10LTA	2x3/2 Double Tandem NC / NC Low Current	10 [0.39]	0.178	3.2 [0.126]	4 mm, 6 mm, M5 x 0.8 [10-32 UNF]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	24 DC	0.1 - 0.4	5	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F15LTA	2x3/2 Double Tandem NC / NC Low Current	15 [0.59]	0.4	7.2 [0.283]	6 mm, 8 mm, Rc 1/8 [1/8 NPT]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	24 DC	0.1 - 0.4	5	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F10TC	2x3/2 Double Tandem NC / NO	10 [0.39]	0.178	3.2 [0.126]	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	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F15TC	2x3/2 Double Tandem NC / NO	15 [0.59]	0.4	7.2 [0.283]	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	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F10LTC	2x3/2 Double Tandem NC / NO Low Current	10 [0.39]	0.178	3.2 [0.126]	4 mm, 6 mm, M5 x 0.8 [10-32 UNF]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	24 DC	0.1 - 0.4	5	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
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F15LTB	2x3/2 Double Tandem NO / NO Low Current	15 [0.59]	0.4	7.2 [0.283]	6 mm, 8 mm, Rc 1/8 [1/8 NPT]	Inline, Single Subbase, Block Manifold, Split Manifold	Direct, Base	24 DC	0.1 - 0.4	5	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F10TO	5/2 Single	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	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F15TO	5/2 Single	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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F18TO	5/2 Single	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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F10TOG	5/2 Single External Pilot	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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F15TOG	5/2 Single External Pilot	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 - 0.7 [0.0 - 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]
F18TOG	5/2 Single External Pilot	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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
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]
F10LTO	5/2 Single Low Current	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	24 DC	0.1 - 0.4	5	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F15LTO	5/2 Single Low Current	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	24 DC	0.1 - 0.4	5	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F18LTO	5/2 Single Low Current	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	24 DC	0.1 - 0.4	5	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F10LTOG	5/2 Single Low Current External Pilot	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F15LTOG	5/2 Single Low Current External Pilot	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F18LTOG	5/2 Single Low Current External Pilot	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F10T1	5/2 Switchable Double	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	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F10T2	5/2 Switchable Double	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	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F15T2	5/2 Switchable Double	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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
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F18T1	5/2 Switchable Double	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	0.15 - 0.7 [21.8 - 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]
F18T2	5/2 Switchable Double	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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
CS-F10T1	5/2 Switchable Double 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	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
CS-F15T1	5/2 Switchable Double 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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
CS-F15T2	5/2 Switchable Double 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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
CS-F18T1	5/2 Switchable Double 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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
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CS-F18T1G	5/2 Switchable Double External Pilot 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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
CS-F18T2G	5/2 Switchable Double External Pilot 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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F10T1V	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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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]
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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]
F10LT2	5/2 Switchable Double Low Current	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	24 DC	0.1 - 0.4	5	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F10LT1	5/2 Switchable Double Low Current	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	24 DC	0.1 - 0.4	5	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]

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F Series - Indirect Acting Solenoid Valves

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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]
F15LT2	5/2 Switchable Double Low Current	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	24 DC	0.1 - 0.4	5	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F15LT1	5/2 Switchable Double Low Current	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	24 DC	0.1 - 0.4	5	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F18LT1	5/2 Switchable Double Low Current	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	24 DC	0.1 - 0.4	5	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F18LT2	5/2 Switchable Double Low Current	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	24 DC	0.1 - 0.4	5	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F10LT1G	5/2 Switchable Double Low Current External Pilot	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F10LT2G	5/2 Switchable Double Low Current External Pilot	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F15LT2G	5/2 Switchable Double Low Current External Pilot	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F15LT1G	5/2 Switchable Double Low Current External Pilot	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F18LT2G	5/2 Switchable Double Low Current External Pilot	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F18LT1G	5/2 Switchable Double Low Current External Pilot	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F10T3	5/3 Double Closed Center	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	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F15T3	5/3 Double Closed Center	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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F18T3	5/3 Double Closed Center	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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
CS-F10T3	5/3 Double Closed Center 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	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
CS-F15T3	5/3 Double Closed Center Clean System	15 [0.59]	0.477	8.6 [0.339]	6 mm, 8 mm, Rc 1/8 [upon request]	Single Subbase, Block Manifold	Base	12, 24 DC 100 AC	0.4 - 1	5	0.15 - 0.7 [21.8 - 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]
CS-F18T3	5/3 Double Closed Center 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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F10T4	5/3 Double Exhaust Center	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	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F15T4	5/3 Double Exhaust Center	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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F18T4	5/3 Double Exhaust Center	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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
CS-F10T4	5/3 Double Exhaust Center 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	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
CS-F15T4	5/3 Double Exhaust Center Clean System	15 [0.59]	0.477	8.6 [0.339]	6 mm, 8 mm, Rc 1/8 [upon request]	Single Subbase, Block Manifold	Base	12, 24 DC 100 AC	0.4 - 1	5	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
CS-F18T4	5/3 Double Exhaust Center 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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F10T3G	5/3 Double External Pilot Closed Center	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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F15T3G	5/3 Double External Pilot Closed Center	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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F18T3G	5/3 Double External Pilot Closed Center	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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
CS-F10T3G	5/3 Double External Pilot Closed Center 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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
CS-F15T3G	5/3 Double External Pilot Closed Center Clean System	15 [0.59]	0.477	8.6 [0.339]	6 mm, 8 mm, Rc 1/8 [upon request]	Single Subbase, Block Manifold	Base	12, 24 DC 100 AC	0.4 - 1	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
CS-F18T3G	5/3 Double External Pilot Closed Center 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 - 0.7 [0.0 - 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]

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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]
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]
CS-F15T3V	5/3 Double External Pilot Closed Center Vacuum Clean System	15 [0.59]	0.477	8.6 [0.339]	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-F18T3V	5/3 Double External Pilot Closed Center 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]
F10T4G	5/3 Double External Pilot Exhaust Center	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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F15T4G	5/3 Double External Pilot Exhaust Center	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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F18T4G	5/3 Double External Pilot Exhaust Center	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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
CS-F10T4G	5/3 Double External Pilot Exhaust Center 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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
CS-F15T4G	5/3 Double External Pilot Exhaust Center Clean System	15 [0.59]	0.477	8.6 [0.339]	6 mm, 8 mm, Rc 1/8 [upon request]	Single Subbase, Block Manifold	Base	12, 24 DC 100 AC	0.4 - 1	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
CS-F18T4G	5/3 Double External Pilot Exhaust Center 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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F10T5G	5/3 Double External Pilot Pressure Center	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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F15T5G	5/3 Double External Pilot Pressure Center	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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F18T5G	5/3 Double External Pilot Pressure Center	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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
CS-F10T5G	5/3 Double External Pilot Pressure Center 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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
CS-F15T5G	5/3 Double External Pilot Pressure Center Clean System	15 [0.59]	0.477	8.6 [0.339]	6 mm, 8 mm, Rc 1/8 [upon request]	Single Subbase, Block Manifold	Base	12, 24 DC 100 AC	0.4 - 1	5	0 - 0.7 [0.0 - 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]
CS-F18T5G	5/3 Double External Pilot Pressure Center 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 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F10LT3	5/3 Double Low Current Closed Center	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	24 DC	0.1 - 0.4	5	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F15LT3	5/3 Double Low Current Closed Center	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	24 DC	0.1 - 0.4	5	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F18LT3	5/3 Double Low Current Closed Center	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	24 DC	0.1 - 0.4	5	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F10LT4	5/3 Double Low Current Exhaust Center	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	24 DC	0.1 - 0.4	5	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F15LT4	5/3 Double Low Current Exhaust Center	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	24 DC	0.1 - 0.4	5	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F18LT4	5/3 Double Low Current Exhaust Center	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	24 DC	0.1 - 0.4	5	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F10LT3G	5/3 Double Low Current External Pilot Closed Center	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F15LT3G	5/3 Double Low Current External Pilot Closed Center	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F18LT3G	5/3 Double Low Current External Pilot Closed Center	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F10LT4G	5/3 Double Low Current External Pilot Exhaust Center	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F15LT4G	5/3 Double Low Current External Pilot Exhaust Center	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F18LT4G	5/3 Double Low Current External Pilot Exhaust Center	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F10LT5G	5/3 Double Low Current External Pilot Pressure Center	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F15LT5G	5/3 Double Low Current External Pilot Pressure Center	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 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]
F18LT5G	5/3 Double Low Current External Pilot Pressure Center	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	24 DC	0.1 - 0.4	5	0 - 0.7 [0.0 - 101.5]	5 - 50 [41 - 122]
F10LT5	5/3 Double Low Current Pressure Center	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	24 DC	0.1 - 0.4	5	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F15LT5	5/3 Double Low Current Pressure Center	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	24 DC	0.1 - 0.4	5	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F18LT5	5/3 Double Low Current Pressure Center	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	24 DC	0.1 - 0.4	5	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F10T5	5/3 Double Pressure Center	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	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
F15T5	5/3 Double Pressure Center	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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
F18T5	5/3 Double Pressure Center	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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
CS-F10T5	5/3 Double Pressure Center 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	0.2 - 0.7 [29.0 - 101.5]	5 - 50 [41 - 122]
CS-F15T5	5/3 Double Pressure Center Clean System	15 [0.59]	0.477	8.6 [0.339]	6 mm, 8 mm, Rc 1/8 [upon request]	Single Subbase, Block Manifold	Base	12, 24 DC 100 AC	0.4 - 1	5	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]
CS-F18T5	5/3 Double Pressure Center 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	0.15 - 0.7 [21.8 - 101.5]	5 - 50 [41 - 122]

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