



Round Type - Indirect Acting Solenoid Valves

Highly reliable, long life and valves that provide low leak performance. The Selection Guide provides a summary of the 46 different Round Type - Indirect Acting Solenoid Valves.

- Diaphragm / Poppet Type Construction
- Can Operate in High-frequency Applications
- Resistant to Leakage and Sticking Caused by Contamination
- Double & Latching ("Keep") Solenoid Options
- High Cycle Life (>10 Million)
- 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

2/2, 3/2 Double External Pilot Vacuum	2/2, 3/2 Single	2/2, 3/2 Single, 5/2 Double	2/2, 3/2 Single, 5/2 Double Latching (Keep)
2/2, 3/2, 5/2 Single	3/2 Single External Pilot Vacuum	3/2 Single Vacuum Pilot Vacuum	3/2 Single Vacuum Pilot Vacuum
4/2 Double	4/2 Double Latching (Keep)	4/2 Single	4/3 Double Closed Center
4/3 Double Exhaust Center			

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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]
VA2503AE2	2/2, 3/2 Double External Pilot Vacuum	42 [1.65]	0.76	15 [0.591]	Rc 3/8 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	-0.1 - 0.9 [-14.5 - 130.5]	0 - 60 [32 - 140]
VA250AE2	2/2, 3/2 Double External Pilot Vacuum	42 [1.65]	0.76	15 [0.591]	Rc 1/4 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	-0.1 - 0.9 [-14.5 - 130.5]	0 - 60 [32 - 140]
375E2	2/2, 3/2 Single	55 [2.17]	3.5	70 [2.756]	Rc 3/8 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
375E1	2/2, 3/2 Single	55 [2.17]	3.5	70 [2.756]	Rc 3/8 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
501E1	2/2, 3/2 Single	55 [2.17]	3.5	70 [2.756]	Rc 1/2 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]

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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]
501E2	2/2, 3/2 Single	55 [2.17]	3.5	70 [2.756]	Rc 1/2 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
750E1	2/2, 3/2 Single	74 [2.91]	7	140 [5.512]	Rc 3/4 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	14 - 18	3	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
1000E1	2/2, 3/2 Single	84 [3.31]	14	280 [11.024]	Rc 1 [upon request]	Inline	Direct	6, 12, 24 DC 100, 120, 200, 240 AC	9 - 13.2	2	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
1250E1	2/2, 3/2 Single	84 [3.31]	14	280 [11.024]	Rc 1 1/4 [upon request]	Inline	Direct	6, 12, 24 DC 100, 120, 200, 240 AC	9 - 13.2	2	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
2503-4E2	2/2, 3/2 Single, 5/2 Double	42 [1.65]	0.76	15 [0.591]	Rc 3/8 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]
250E2	2/2, 3/2 Single, 5/2 Double	42 [1.65]	0.76	15 [0.591]	Rc 1/4 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]
2503E2	2/2, 3/2 Single, 5/2 Double	42 [1.65]	0.76	15 [0.591]	Rc 3/8 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]
250-4E2	2/2, 3/2 Single, 5/2 Double	42 [1.65]	0.76	15 [0.591]	Rc 1/4 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]
2503-4SE2	2/2, 3/2 Single, 5/2 Double Latching (Keep)	42 [1.65]	0.76	15 [0.591]	Rc 3/8 [upon request]	Inline	Direct	100, 200 AC	14 - 18	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]
2503SE2	2/2, 3/2 Single, 5/2 Double Latching (Keep)	42 [1.65]	0.76	15 [0.591]	Rc 3/8 [upon request]	Inline	Direct	100, 200 AC	14 - 18	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]
250-4SE2	2/2, 3/2 Single, 5/2 Double Latching (Keep)	42 [1.65]	0.76	15 [0.591]	Rc 1/4 [upon request]	Inline	Direct	100, 200 AC	14 - 18	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]
250SE2	2/2, 3/2 Single, 5/2 Double Latching (Keep)	42 [1.65]	0.76	15 [0.591]	Rc 1/4 [upon request]	Inline	Direct	100, 200 AC	14 - 18	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]
2503E1	2/2, 3/2, 5/2 Single	42 [1.65]	0.76	15 [0.591]	Rc 3/8 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]
2503-4E1	2/2, 3/2, 5/2 Single	42 [1.65]	0.76	15 [0.591]	Rc 3/8 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]
250E1	2/2, 3/2, 5/2 Single	42 [1.65]	0.76	15 [0.591]	Rc 1/4 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]

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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]
250-4E1	2/2, 3/2, 5/2 Single	42 [1.65]	0.76	15 [0.591]	Rc 1/4 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]
VA250AE1	3/2 Single External Pilot Vacuum	42 [1.65]	0.76	15 [0.591]	Rc 1/4 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	-0.1 - 0.9 [-14.5 - 130.5]	0 - 60 [32 - 140]
VA2503AE1	3/2 Single External Pilot Vacuum	42 [1.65]	0.76	15 [0.591]	Rc 3/8 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	-0.1 - 0.9 [-14.5 - 130.5]	0 - 60 [32 - 140]
VA500AE1	3/2 Single External Pilot Vacuum	73 [2.87]	2.7	55 [2.165]	Rc 1/2 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	10	-0.1 - 0.9 [-14.5 - 130.5]	5 - 60 [41 - 140]
VV2503AE1	3/2 Single Vacuum Pilot Vacuum	42 [1.65]	0.76	15 [0.591]	Rc 3/8 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	-0.1 - 0.9 [-14.5 - 130.5]	0 - 60 [32 - 140]
VV250AE1	3/2 Single Vacuum Pilot Vacuum	42 [1.65]	0.76	15 [0.591]	Rc 1/4 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	-0.1 - 0.9 [-14.5 - 130.5]	0 - 60 [32 - 140]
VV500AE1	3/2 Single Vacuum Pilot Vacuum	73 [2.87]	2.7	55 [2.165]	Rc 1/2 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	10	-0.1 - 0.9 [-14.5 - 130.5]	5 - 60 [41 - 140]
VA500AE2	3/2 Single Vacuum Pilot Vacuum	73 [2.87]	2.7	55 [2.165]	Rc 1/2 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	10	-0.1 - 0.9 [-14.5 - 130.5]	5 - 60 [41 - 140]
254-4E2	4/2 Double	55 [2.17]	0.76	15 [0.591]	Rc 1/4, Rc 3/8 [upon request]	Inline, Block Manifold	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
375-4E2	4/2 Double	55 [2.17]	2.5	50 [1.969]	Rc 3/8 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
501-4E2	4/2 Double	55 [2.17]	2.5	50 [1.969]	Rc 1/2 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	14 - 18	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
254-4SE2	4/2 Double Latching (Keep)	55 [2.17]	0.76	15 [0.591]	Rc 1/4, Rc 3/8 [upon request]	Inline, Block Manifold	Direct	100, 200 AC	14 - 18	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
375-4SE2	4/2 Double Latching (Keep)	55 [2.17]	2.5	50 [1.969]	Rc 3/8 [upon request]	Inline	Direct	100, 200 AC	14 - 18	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
501-4SE2	4/2 Double Latching (Keep)	55 [2.17]	2.5	50 [1.969]	Rc 1/2 [upon request]	Inline	Direct	100, 200 AC	14 - 18	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
254-4E1	4/2 Single	55 [2.17]	0.76	15 [0.591]	Rc 1/4, Rc 3/8 [upon request]	Inline, Block Manifold	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]

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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]
501-4E1	4/2 Single	55 [2.17]	2.5	50 [1.969]	Rc 1/2 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
375-4E1	4/2 Single	55 [2.17]	2.5	50 [1.969]	Rc 3/8 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
750-4E1	4/2 Single	74 [2.91]	5	100 [3.937]	Rc 3/4 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	14 - 18	3	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
1000-4E1	4/2 Single	84 [3.31]	12	240 [9.449]	Rc 1 [upon request]	Inline	Direct	6, 12, 24 DC 100, 120, 200, 240 AC	9 - 13.2	2	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
1250-4E1	4/2 Single	84 [3.31]	12	240 [9.449]	Rc 1 1/4 [upon request]	Inline	Direct	6, 12, 24 DC 100, 120, 200, 240 AC	9 - 13.2	2	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
253-4E2	4/3 Double Closed Center	90 [3.54]	0.76	15 [0.591]	Rc 1/4, Rc 3/8 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
503-4E2	4/3 Double Closed Center	130 [5.12]	2.5	50 [1.969]	Rc 3/8, Rc 1/2 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]
753-4E2	4/3 Double Closed Center	180 [7.09]	5	100 [3.937]	Rc 3/4, Rc 1 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]
253-4E2-13	4/3 Double Exhaust Center	90 [3.54]	0.76	15 [0.591]	Rc 1/4, Rc 3/8 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.1 - 0.9 [14.5 - 130.5]	0 - 60 [32 - 140]
503-4E2-13	4/3 Double Exhaust Center	130 [5.12]	2.5	50 [1.969]	Rc 3/8, Rc 1/2 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]
753-4E2-13	4/3 Double Exhaust Center	180 [7.09]	5	100 [3.937]	Rc 3/4, Rc 1 [upon request]	Inline	Direct	6, 12, 24, 48, 100, 110, 200 DC 24, 48, 100, 110, 115, 200, 220, 230 AC	8.8 - 22.32	5	0.2 - 0.9 [29.0 - 130.5]	0 - 60 [32 - 140]