



K Series - High Speed Direct Acting Solenoid Valves

The world's fastest direct acting valve series with a cycle rate up to 500Hz in a 10mm width body. The Selection Guide provides a summary of the 42 different K Series - High Speed Direct Acting Solenoid Valves.

- High-speed Response
- Power Saving Circuit Option
- Surge Suppression Circuit
- IP67 Protection Rating
- Non-oil Specification
- 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 Single High Flow Base
2/2 Single Standard Flow Base
3/2 Single Standard Flow Base
4/2 Single High Flow Base

2/2 Single High Flow Direct
2/2 Single Standard Flow Direct
3/2 Single Standard Flow Direct
4/2 Single High Flow Direct

2/2 Single Low Flow Base
3/2 Single High Flow Base
3/2 Single Vacuum & Standard Flow Base
4/2 Single Standard Flow Base

2/2 Single Low Flow Direct
3/2 Single High Flow Direct
3/2 Single Vacuum & Standard Flow Direct
4/2 Single Standard Flow Direct

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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]
K2-100HA-24	2/2 Single High Flow Base	10 [0.39]	0.11	2 [0.079]	6 mm [upon request]	Single Subbase	Base	24 DC	1.5 - 24	400	0.2 - 0.4 [29.0 - 58.0]	0 - 50 [32 - 122]
K2-100HA-02	2/2 Single High Flow Base	10 [0.39]	0.11	2 [0.079]	6 mm [upon request]	Single Subbase	Base	24 DC	2 - 2.2	200	0.2 - 0.5 [29.0 - 72.5]	0 - 50 [32 - 122]
K2-100HA-04	2/2 Single High Flow Base	10 [0.39]	0.15	2.7 [0.106]	6 mm [upon request]	Single Subbase	Base	24 DC	4 - 4.1	200	0.2 - 0.5 [29.0 - 72.5]	0 - 50 [32 - 122]
K2-100HA-09	2/2 Single High Flow Base	10 [0.39]	0.17	3 [0.118]	6 mm [upon request]	Single Subbase	Base	24 DC	1 - 9.1	100	0.2 - 0.5 [29.0 - 72.5]	0 - 50 [32 - 122]
K2-100HF-02	2/2 Single High Flow Direct	10 [0.39]	0.08	1.5 [0.059]	4 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	2 - 2.2	200	0.2 - 0.5 [29.0 - 72.5]	0 - 50 [32 - 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]
K2-100HF-24	2/2 Single High Flow Direct	10 [0.39]	0.11	2 [0.079]	4 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	1.5 - 24	400	0.2 - 0.4 [29.0 - 58.0]	0 - 50 [32 - 122]
K2-100HF-04	2/2 Single High Flow Direct	10 [0.39]	0.13	2.3 [0.091]	4 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	4 - 4.1	200	0.2 - 0.5 [29.0 - 72.5]	0 - 50 [32 - 122]
K2-100HF-09	2/2 Single High Flow Direct	10 [0.39]	0.14	2.5 [0.098]	4 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	1 - 9.1	50	0.2 - 0.5 [29.0 - 72.5]	0 - 50 [32 - 122]
K2-100LA-24	2/2 Single Low Flow Base	10 [0.39]	0.06	1 [0.039]	6 mm [upon request]	Single Subbase	Base	24 DC	1.5 - 24	400	0.2 - 0.5 [29.0 - 72.5]	0 - 50 [32 - 122]
K2-100LA-09	2/2 Single Low Flow Base	10 [0.39]	0.06	1 [0.039]	6 mm [upon request]	Single Subbase	Base	24 DC	1 - 9.1	300	0.2 - 0.5 [29.0 - 72.5]	0 - 50 [32 - 122]
K2-100LF-24	2/2 Single Low Flow Direct	10 [0.39]	0.06	1 [0.039]	4 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	1.5 - 24	400	0.2 - 0.5 [29.0 - 72.5]	0 - 50 [32 - 122]
K2-100LF-09	2/2 Single Low Flow Direct	10 [0.39]	0.06	1 [0.039]	4 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	1 - 9.1	300	0.2 - 0.5 [29.0 - 72.5]	0 - 50 [32 - 122]
K2-100SA-02	2/2 Single Standard Flow Base	10 [0.39]	0.07	1.3 [0.051]	6 mm [upon request]	Single Subbase	Base	24 DC	2 - 2.2	200	0.2 - 0.7 [29.0 - 101.5]	0 - 50 [32 - 122]
K2-100SA-09	2/2 Single Standard Flow Base	10 [0.39]	0.08	1.5 [0.059]	6 mm [upon request]	Single Subbase	Base	24 DC	1 - 9.1	300	0.2 - 0.5 [29.0 - 72.5]	0 - 50 [32 - 122]
K2-100SA-24	2/2 Single Standard Flow Base	10 [0.39]	0.08	1.5 [0.059]	6 mm [upon request]	Single Subbase	Base	24 DC	1.5 - 24	400	0.2 - 0.5 [29.0 - 72.5]	0 - 50 [32 - 122]
K2-100SA-04	2/2 Single Standard Flow Base	10 [0.39]	0.11	2 [0.079]	6 mm [upon request]	Single Subbase	Base	24 DC	4 - 4.1	200	0.2 - 0.7 [29.0 - 101.5]	0 - 50 [32 - 122]
K2-100SF-02	2/2 Single Standard Flow Direct	10 [0.39]	0.06	1 [0.039]	4 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	2 - 2.2	200	0.2 - 0.7 [29.0 - 101.5]	0 - 50 [32 - 122]
K2-100SF-04	2/2 Single Standard Flow Direct	10 [0.39]	0.08	1.5 [0.059]	4 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	4 - 4.1	200	0.2 - 0.7 [29.0 - 101.5]	0 - 50 [32 - 122]
K2-100SF-24	2/2 Single Standard Flow Direct	10 [0.39]	0.08	1.5 [0.059]	4 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	1.5 - 24	400	0.2 - 0.5 [29.0 - 72.5]	0 - 50 [32 - 122]
K2-100SF-09	2/2 Single Standard Flow Direct	10 [0.39]	0.08	1.5 [0.059]	4 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	1 - 9.1	300	0.2 - 0.5 [29.0 - 72.5]	0 - 50 [32 - 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]
K3-100HA-24	3/2 Single High Flow Base	10 [0.39]	0.11	2 [0.079]	4 mm, 6 mm, M5 x 0.8 [upon request]	Single Subbase	Base	24 DC	2 - 24	100	0 - 0.5 [0.0 - 72.5]	0 - 50 [32 - 122]
K3-100HF-24	3/2 Single High Flow Direct	10 [0.39]	0.11	2 [0.079]	4 mm, 6 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	2 - 24	100	0 - 0.5 [0.0 - 72.5]	0 - 50 [32 - 122]
K3-100SA-02	3/2 Single Standard Flow Base	10 [0.39]	0.06	1 [0.039]	4 mm, 6 mm, M5 x 0.8 [upon request]	Single Subbase	Base	24 DC	2 - 2.2	50	0 - 0.7 [0.0 - 101.5]	0 - 50 [32 - 122]
K3-100SA-04	3/2 Single Standard Flow Base	10 [0.39]	0.06	1 [0.039]	4 mm, 6 mm, M5 x 0.8 [upon request]	Single Subbase	Base	24 DC	4 - 4.1	50	0 - 0.7 [0.0 - 101.5]	0 - 50 [32 - 122]
K3-100SA-24	3/2 Single Standard Flow Base	10 [0.39]	0.08	1.5 [0.059]	4 mm, 6 mm, M5 x 0.8 [upon request]	Single Subbase	Base	24 DC	2 - 24	100	0 - 0.7 [0.0 - 101.5]	0 - 50 [32 - 122]
K3-100SF-04	3/2 Single Standard Flow Direct	10 [0.39]	0.06	1 [0.039]	4 mm, 6 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	4 - 4.1	50	0 - 0.7 [0.0 - 101.5]	0 - 50 [32 - 122]
K3-100SF-02	3/2 Single Standard Flow Direct	10 [0.39]	0.06	1 [0.039]	4 mm, 6 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	2 - 2.2	50	0 - 0.7 [0.0 - 101.5]	0 - 50 [32 - 122]
K3-100SF-24	3/2 Single Standard Flow Direct	10 [0.39]	0.08	1.5 [0.059]	4 mm, 6 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	2 - 24	100	0 - 0.7 [0.0 - 101.5]	0 - 50 [32 - 122]
K3-100VA-02	3/2 Single Vacuum & Standard Flow Base	10 [0.39]	0.06	1 [0.039]	4 mm, 6 mm, M5 x 0.8 [upon request]	Single Subbase	Base	24 DC	2 - 2.2	50	-0.1 - 0.7 [-14.5 - 101.5]	0 - 50 [32 - 122]
K3-100VA-04	3/2 Single Vacuum & Standard Flow Base	10 [0.39]	0.06	1 [0.039]	4 mm, 6 mm, M5 x 0.8 [upon request]	Single Subbase	Base	24 DC	4 - 4.1	50	-0.1 - 0.7 [-14.5 - 101.5]	0 - 50 [32 - 122]
K3-100VA-24	3/2 Single Vacuum & Standard Flow Base	10 [0.39]	0.08	1.5 [0.059]	4 mm, 6 mm, M5 x 0.8 [upon request]	Single Subbase	Base	24 DC	2 - 24	100	-0.1 - 0.7 [-14.5 - 101.5]	0 - 50 [32 - 122]
K3-100VF-04	3/2 Single Vacuum & Standard Flow Direct	10 [0.39]	0.06	1 [0.039]	4 mm, 6 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	4 - 4.1	50	-0.1 - 0.7 [-14.5 - 101.5]	0 - 50 [32 - 122]
K3-100VF-02	3/2 Single Vacuum & Standard Flow Direct	10 [0.39]	0.06	1 [0.039]	4 mm, 6 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	2 - 2.2	50	-0.1 - 0.7 [-14.5 - 101.5]	0 - 50 [32 - 122]
K3-100VF-24	3/2 Single Vacuum & Standard Flow Direct	10 [0.39]	0.08	1.5 [0.059]	4 mm, 6 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	2 - 24	100	-0.1 - 0.7 [-14.5 - 101.5]	0 - 50 [32 - 122]
K4-100HA-24	4/2 Single High Flow Base	10 [0.39]	0.11	2 [0.079]	4 mm, 6 mm, M5 x 0.8 [upon request]	Single Subbase	Base	24 DC	2 - 24	100	0 - 0.5 [0.0 - 72.5]	0 - 50 [32 - 122]

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K4-100HF-24	4/2 Single High Flow Direct	10 [0.39]	0.11	2 [0.079]	4 mm, 6 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	2 - 24	100	0 - 0.5 [0.0 - 72.5]	0 - 50 [32 - 122]
K4-100SA-02	4/2 Single Standard Flow Base	10 [0.39]	0.06	1 [0.039]	4 mm, 6 mm, M5 x 0.8 [upon request]	Single Subbase	Base	24 DC	2 - 2.2	50	0 - 0.7 [0.0 - 101.5]	0 - 50 [32 - 122]
K4-100SA-04	4/2 Single Standard Flow Base	10 [0.39]	0.06	1 [0.039]	4 mm, 6 mm, M5 x 0.8 [upon request]	Single Subbase	Base	24 DC	4 - 4.1	70	0 - 0.7 [0.0 - 101.5]	0 - 50 [32 - 122]
K4-100SA-24	4/2 Single Standard Flow Base	10 [0.39]	0.08	1.5 [0.059]	4 mm, 6 mm, M5 x 0.8 [upon request]	Single Subbase	Base	24 DC	2 - 24	100	0 - 0.7 [0.0 - 101.5]	0 - 50 [32 - 122]
K4-100SF-02	4/2 Single Standard Flow Direct	10 [0.39]	0.06	1 [0.039]	4 mm, 6 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	2 - 2.2	50	0 - 0.7 [0.0 - 101.5]	0 - 50 [32 - 122]
K4-100SF-04	4/2 Single Standard Flow Direct	10 [0.39]	0.06	1 [0.039]	4 mm, 6 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	4 - 4.1	70	0 - 0.7 [0.0 - 101.5]	0 - 50 [32 - 122]
K4-100SF-24	4/2 Single Standard Flow Direct	10 [0.39]	0.08	1.5 [0.059]	4 mm, 6 mm, M5 x 0.8 [upon request]	Inline	Direct	24 DC	2 - 24	100	0 - 0.7 [0.0 - 101.5]	0 - 50 [32 - 122]