



KSD Series Tie-Rod Actuators

Installation dimensions comply with ISO and JIS standards. Strokes up to 2000 mm with high power are available.

- Class 2 Pressure Rating
- High-power Dust Wiper
- 2000 mm Max. Stroke
- Cylinder Tubes Made from Aluminum or Steel
- Sensor Switches Optional
- 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

Double Acting (Aluminum Tube)	Double Acting (Steel Tube)	Double Acting Double Rod (Aluminum Tube)	Double Acting Double Rod (Steel Tube)
Double Acting Dual Stroke (Aluminum Tube)	Double Acting Dual Stroke (Steel Tube)	Double Acting Low Pressure Hydraulic (Aluminum Tube)	Double Acting Low Pressure Hydraulic (Steel Tube)
Double Acting Pull Side Stroke Adjustment (Aluminum Tube)	Double Acting Pull Side Stroke Adjustment (Steel Tube)	Double Acting Push Side Stroke Adjustment (Aluminum Tube)	Double Acting Push Side Stroke Adjustment (Steel Tube)
Double Acting Tandem (Aluminum Tube)	Double Acting Tandem (Steel Tube)		

KSD Series Tie-Rod Actuators

[Click Here for Access to Catalogs, CAD Drawings, Videos and More!](#)

Model	Operation	Bore mm	Standard Strokes mm [in]	Max Stroke mm [in]	Port Size metric [imperial]	Max Force - Push N [lbf]	Max Force - Pull N [lbf]	Speed Range mm/s [in/s]	Pressure Range MPa [psi]	Temperature Range °C [°F]
KBSD	Double Acting (Aluminum Tube)	125	1 - 2000 [upon request]	2000 [78.7]	Rc 1/2 [upon request]	12,272 [2,759]	11,468 [2,578]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KBSD	Double Acting (Aluminum Tube)	140	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	15,394 [3,461]	14,137 [3,178]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KBSD	Double Acting (Aluminum Tube)	160	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	20,106 [4,520]	18,850 [4,238]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSD	Double Acting (Steel Tube)	125	1 - 2000 [upon request]	2000 [78.7]	Rc 1/2 [upon request]	12,272 [2,759]	11,468 [2,578]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSD	Double Acting (Steel Tube)	140	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	15,394 [3,461]	14,137 [3,178]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]

Focused on providing industry leading pneumatic, fluid handling, and electrical automation components and assemblies for the OEM market | Think KOGANEI

KSD Series Tie-Rod Actuators

[Click Here for Access to Catalogs, CAD Drawings, Videos and More!](#)

Model	Operation	Bore mm	Standard Strokes mm [in]	Max Stroke mm [in]	Port Size metric [imperial]	Max Force - Push N [lbf]	Max Force - Pull N [lbf]	Speed Range mm/s [in/s]	Pressure Range MPa [psi]	Temperature Range °C [°F]
KCSD	Double Acting (Steel Tube)	160	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	20,106 [4,520]	18,850 [4,238]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSD	Double Acting (Steel Tube)	180	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	25,447 [5,721]	24,190 [5,438]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSD	Double Acting (Steel Tube)	200	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	31,416 [7,063]	30,159 [6,780]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSD	Double Acting (Steel Tube)	250	1 - 2000 [upon request]	2000 [78.7]	Rc 1 [upon request]	49,087 [11,035]	47,497 [10,678]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KBSDD	Double Acting Double Rod (Aluminum Tube)	125	1 - 1200 [upon request]	1200 [47.2]	Rc 1/2 [upon request]	11,468 [2,578]	11,468 [2,578]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KBSDD	Double Acting Double Rod (Aluminum Tube)	140	1 - 1200 [upon request]	1200 [47.2]	Rc 3/4 [upon request]	14,137 [3,178]	14,137 [3,178]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KBSDD	Double Acting Double Rod (Aluminum Tube)	160	1 - 1200 [upon request]	1200 [47.2]	Rc 3/4 [upon request]	18,850 [4,238]	18,850 [4,238]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDD	Double Acting Double Rod (Steel Tube)	125	1 - 1200 [upon request]	1200 [47.2]	Rc 1/2 [upon request]	11,468 [2,578]	11,468 [2,578]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDD	Double Acting Double Rod (Steel Tube)	140	1 - 1200 [upon request]	1200 [47.2]	Rc 3/4 [upon request]	14,137 [3,178]	14,137 [3,178]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDD	Double Acting Double Rod (Steel Tube)	160	1 - 1200 [upon request]	1200 [47.2]	Rc 3/4 [upon request]	18,850 [4,238]	18,850 [4,238]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDD	Double Acting Double Rod (Steel Tube)	180	1 - 1200 [upon request]	1200 [47.2]	Rc 3/4 [upon request]	24,190 [5,438]	24,190 [5,438]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDD	Double Acting Double Rod (Steel Tube)	200	1 - 1200 [upon request]	1200 [47.2]	Rc 3/4 [upon request]	30,159 [6,780]	30,159 [6,780]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDD	Double Acting Double Rod (Steel Tube)	250	1 - 1200 [upon request]	1200 [47.2]	Rc 1 [upon request]	47,497 [10,678]	47,497 [10,678]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KBSDW	Double Acting Dual Stroke (Aluminum Tube)	125	1 - 2000 [upon request]	2000 [78.7]	Rc 1/2 [upon request]	12,272 [2,759]	11,468 [2,578]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
KBSDW	Double Acting Dual Stroke (Aluminum Tube)	140	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	15,394 [3,461]	14,137 [3,178]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]

Focused on providing industry leading pneumatic, fluid handling, and electrical automation components and assemblies for the OEM market | Think KOGANEI

KSD Series Tie-Rod Actuators

[Click Here for Access to Catalogs, CAD Drawings, Videos and More!](#)

Model	Operation	Bore mm	Standard Strokes mm [in]	Max Stroke mm [in]	Port Size metric [imperial]	Max Force - Push N [lbf]	Max Force - Pull N [lbf]	Speed Range mm/s [in/s]	Pressure Range MPa [psi]	Temperature Range °C [°F]
KBSDW	Double Acting Dual Stroke (Aluminum Tube)	160	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	20,106 [4,520]	18,850 [4,238]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
KCSDW	Double Acting Dual Stroke (Steel Tube)	125	1 - 2000 [upon request]	2000 [78.7]	Rc 1/2 [upon request]	12,272 [2,759]	11,468 [2,578]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
KCSDW	Double Acting Dual Stroke (Steel Tube)	140	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	15,394 [3,461]	14,137 [3,178]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
KCSDW	Double Acting Dual Stroke (Steel Tube)	160	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	20,106 [4,520]	18,850 [4,238]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
KCSDW	Double Acting Dual Stroke (Steel Tube)	180	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	25,447 [5,721]	24,190 [5,438]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
KCSDW	Double Acting Dual Stroke (Steel Tube)	200	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	31,416 [7,063]	30,159 [6,780]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
KCSDW	Double Acting Dual Stroke (Steel Tube)	250	1 - 2000 [upon request]	2000 [78.7]	Rc 1 [upon request]	49,087 [11,035]	47,497 [10,678]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
KBSDH	Double Acting Low Pressure Hydraulic (Aluminum Tube)	125	1 - 2000 [upon request]	2000 [78.7]	Rc 1/2 [upon request]	12,272 [2,759]	11,468 [2,578]	8 - 300 [0.3 - 11.8]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KBSDH	Double Acting Low Pressure Hydraulic (Aluminum Tube)	140	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	15,394 [3,461]	14,137 [3,178]	8 - 300 [0.3 - 11.8]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KBSDH	Double Acting Low Pressure Hydraulic (Aluminum Tube)	160	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	20,106 [4,520]	18,850 [4,238]	8 - 300 [0.3 - 11.8]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDH	Double Acting Low Pressure Hydraulic (Steel Tube)	180	1 - 2000 [upon request]	2000 [78.7]	Rc 1/2 [upon request]	12,272 [2,759]	11,468 [2,578]	8 - 300 [0.3 - 11.8]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDH	Double Acting Low Pressure Hydraulic (Steel Tube)	200	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	15,394 [3,461]	14,137 [3,178]	8 - 300 [0.3 - 11.8]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDH	Double Acting Low Pressure Hydraulic (Steel Tube)	250	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	20,106 [4,520]	18,850 [4,238]	8 - 300 [0.3 - 11.8]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KBSDE	Double Acting Pull Side Stroke Adjustment (Aluminum Tube)	125	1 - 2000 [upon request]	2000 [78.7]	Rc 1/2 [upon request]	12,272 [2,759]	11,468 [2,578]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KBSDE	Double Acting Pull Side Stroke Adjustment (Aluminum Tube)	140	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	15,394 [3,461]	14,137 [3,178]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]

Focused on providing industry leading pneumatic, fluid handling, and electrical automation components and assemblies for the OEM market | Think KOGANEI

KSD Series Tie-Rod Actuators

[Click Here for Access to Catalogs, CAD Drawings, Videos and More!](#)

Model	Operation	Bore mm	Standard Strokes mm [in]	Max Stroke mm [in]	Port Size metric [imperial]	Max Force - Push N [lbf]	Max Force - Pull N [lbf]	Speed Range mm/s [in/s]	Pressure Range MPa [psi]	Temperature Range °C [°F]
KBSDE	Double Acting Pull Side Stroke Adjustment (Aluminum Tube)	160	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	20,106 [4,520]	18,850 [4,238]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDE	Double Acting Pull Side Stroke Adjustment (Steel Tube)	125	1 - 2000 [upon request]	2000 [78.7]	Rc 1/2 [upon request]	12,272 [2,759]	11,468 [2,578]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDE	Double Acting Pull Side Stroke Adjustment (Steel Tube)	140	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	15,394 [3,461]	14,137 [3,178]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDE	Double Acting Pull Side Stroke Adjustment (Steel Tube)	160	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	20,106 [4,520]	18,850 [4,238]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KBSDP	Double Acting Push Side Stroke Adjustment (Aluminum Tube)	125	1 - 1200 [upon request]	1200 [47.2]	Rc 1/2 [upon request]	12,272 [2,759]	11,468 [2,578]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KBSDP	Double Acting Push Side Stroke Adjustment (Aluminum Tube)	140	1 - 1200 [upon request]	1200 [47.2]	Rc 3/4 [upon request]	15,394 [3,461]	14,137 [3,178]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KBSDP	Double Acting Push Side Stroke Adjustment (Aluminum Tube)	160	1 - 1200 [upon request]	1200 [47.2]	Rc 3/4 [upon request]	20,106 [4,520]	18,850 [4,238]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDP	Double Acting Push Side Stroke Adjustment (Steel Tube)	125	1 - 1200 [upon request]	1200 [47.2]	Rc 1/2 [upon request]	12,272 [2,759]	11,468 [2,578]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDP	Double Acting Push Side Stroke Adjustment (Steel Tube)	140	1 - 1200 [upon request]	1200 [47.2]	Rc 3/4 [upon request]	15,394 [3,461]	14,137 [3,178]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDP	Double Acting Push Side Stroke Adjustment (Steel Tube)	160	1 - 1200 [upon request]	1200 [47.2]	Rc 3/4 [upon request]	20,106 [4,520]	18,850 [4,238]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDP	Double Acting Push Side Stroke Adjustment (Steel Tube)	180	1 - 1200 [upon request]	1200 [47.2]	Rc 3/4 [upon request]	25,447 [5,721]	24,190 [5,438]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDP	Double Acting Push Side Stroke Adjustment (Steel Tube)	200	1 - 1200 [upon request]	1200 [47.2]	Rc 3/4 [upon request]	31,416 [7,063]	30,159 [6,780]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDP	Double Acting Push Side Stroke Adjustment (Steel Tube)	250	1 - 1200 [upon request]	1200 [47.2]	Rc 1 [upon request]	49,087 [11,035]	47,497 [10,678]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KBSDT	Double Acting Tandem (Aluminum Tube)	125	1 - 2000 [upon request]	2000 [78.7]	Rc 1/2 [upon request]	24,544 [5,518]	11,468 [2,578]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
KBSDT	Double Acting Tandem (Aluminum Tube)	140	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	30,788 [6,921]	14,137 [3,178]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]

Focused on providing industry leading pneumatic, fluid handling, and electrical automation components and assemblies for the OEM market | Think KOGANEI

KSD Series Tie-Rod Actuators

[Click Here for Access to Catalogs, CAD Drawings, Videos and More!](#)

Model	Operation	Bore mm	Standard Strokes mm [in]	Max Stroke mm [in]	Port Size metric [imperial]	Max Force - Push N [lbf]	Max Force - Pull N [lbf]	Speed Range mm/s [in/s]	Pressure Range MPa [psi]	Temperature Range °C [°F]
KBSDT	Double Acting Tandem (Aluminum Tube)	160	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	40,212 [9,040]	18,850 [4,238]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
KCSDT	Double Acting Tandem (Steel Tube)	125	1 - 2000 [upon request]	2000 [78.7]	Rc 1/2 [upon request]	24,544 [5,518]	11,468 [2,578]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
KCSDT	Double Acting Tandem (Steel Tube)	140	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	30,788 [6,921]	14,137 [3,178]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
KCSDT	Double Acting Tandem (Steel Tube)	160	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	40,212 [9,040]	18,850 [4,238]	50 - 700 [2.0 - 27.6]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
KCSDT	Double Acting Tandem (Steel Tube)	180	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	50,894 [11,441]	24,190 [5,438]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDT	Double Acting Tandem (Steel Tube)	200	1 - 2000 [upon request]	2000 [78.7]	Rc 3/4 [upon request]	62,832 [14,125]	30,159 [6,780]	50 - 700 [2.0 - 27.6]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
KCSDT	Double Acting Tandem (Steel Tube)	250	1 - 2000 [upon request]	2000 [78.7]	Rc 1 [upon request]	98,174 [22,070]	47,497 [10,678]	50 - 700 [2.0 - 27.6]	0.7 - 1 [101.5 - 145.0]	0 - 60 [32 - 140]