



## SGDA Series Jig Cylinders with Guide

Designed for both Cleanrooms and Conveyor applications. Four types of installation are possible, in response to the installation environment, and piping location can also be selected in two different directions

- Double Acting Cylinder with Integrated Guide Rods
- Optional Stroke Adjustment, End Keeps, and Heat Resistance
- Utilizes Standard Integrated 4 mm Sensor Groove
- Slide Bearings or Rolling Bearings Available
- Multiple Ports and Mounting Options for Easy Installation
- 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 Clean System with Dust Collection Port  
Double Acting with Guides Low Speed

Double Acting End Keep Head Side or Rod Side  
Double Acting with Guides Push Stroke Adjustment

Double Acting Stroke Adjusting

Double Acting with Guides

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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]
CS-SGDAQ	Double Acting Clean System with Dust Collection Port	12	10 - 100 [upon request]	100 [3.9]	M5 x 0.8 [upon request]	113 [25]	84.8 [19.1]	100 - 300 [3.9 - 11.8]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]
CS-SGDAQ	Double Acting Clean System with Dust Collection Port	16	10 - 100 [upon request]	100 [3.9]	M5 x 0.8 [upon request]	201 [45]	151 [34]	100 - 300 [3.9 - 11.8]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]
CS-SGDAQ	Double Acting Clean System with Dust Collection Port	20	10 - 200 [upon request]	200 [7.9]	Rc 1/8 [upon request]	314 [71]	236 [53]	100 - 300 [3.9 - 11.8]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]
CS-SGDAQ	Double Acting Clean System with Dust Collection Port	25	10 - 200 [upon request]	200 [7.9]	Rc 1/8 [upon request]	491 [110]	378 [85]	100 - 300 [3.9 - 11.8]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
CS-SGDAQ	Double Acting Clean System with Dust Collection Port	32	10 - 200 [upon request]	200 [7.9]	Rc 1/8 [upon request]	804 [181]	603 [136]	100 - 300 [3.9 - 11.8]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
CS-SGDAQ	Double Acting Clean System with Dust Collection Port	40	10 - 200 [upon request]	200 [7.9]	Rc 1/8 [upon request]	1,256 [282]	1,055 [237]	100 - 300 [3.9 - 11.8]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]

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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]
CS-SGDAQ	Double Acting Clean System with Dust Collection Port	50	10 - 200 [upon request]	200 [7.9]	Rc 1/4 [upon request]	1,963 [441]	1,649 [371]	100 - 300 [3.9 - 11.8]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
CS-SGDAQ	Double Acting Clean System with Dust Collection Port	63	10 - 200 [upon request]	200 [7.9]	Rc 1/4 [upon request]	3,116 [700]	2,802 [630]	100 - 300 [3.9 - 11.8]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
SGDAK	Double Acting End Keep Head Side or Rod Side	12	10 - 100 [upon request]	100 [3.9]	M5 x 0.8 [upon request]	113 [25]	84.8 [19.1]	100 - 500 [3.9 - 19.7]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]
SGDAK	Double Acting End Keep Head Side or Rod Side	16	10 - 100 [upon request]	100 [3.9]	M5 x 0.8 [upon request]	201 [45]	151 [34]	100 - 500 [3.9 - 19.7]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]
SGDAK	Double Acting End Keep Head Side or Rod Side	20	10 - 200 [upon request]	200 [7.9]	Rc 1/8 [upon request]	314 [71]	236 [53]	100 - 500 [3.9 - 19.7]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]
SGDAK	Double Acting End Keep Head Side or Rod Side	25	10 - 200 [upon request]	200 [7.9]	Rc 1/8 [upon request]	491 [110]	378 [85]	100 - 500 [3.9 - 19.7]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
SGDAK	Double Acting End Keep Head Side or Rod Side	32	10 - 200 [upon request]	200 [7.9]	Rc 1/8 [upon request]	804 [181]	603 [136]	100 - 500 [3.9 - 19.7]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
SGDAK	Double Acting End Keep Head Side or Rod Side	40	10 - 200 [upon request]	200 [7.9]	Rc 1/8 [upon request]	1,256 [282]	1,055 [237]	100 - 500 [3.9 - 19.7]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
SGDAK	Double Acting End Keep Head Side or Rod Side	50	10 - 200 [upon request]	200 [7.9]	Rc 1/4 [upon request]	1,963 [441]	1,649 [371]	100 - 500 [3.9 - 19.7]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
SGDAK	Double Acting End Keep Head Side or Rod Side	63	10 - 200 [upon request]	200 [7.9]	Rc 1/4 [upon request]	3,116 [700]	2,802 [630]	100 - 500 [3.9 - 19.7]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
SGDAP / HSGDAP	Double Acting Stroke Adjusting	12	10 - 100 [1/2 - 4]	100 [3.9]	M5 x 0.8 [10-32 UNF]	84.8 [19.1]	84.8 [19.1]	100 - 500 [3.9 - 19.7]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
SGDAP / HSGDAP	Double Acting Stroke Adjusting	16	10 - 100 [1/2 - 4]	100 [3.9]	M5 x 0.8 [10-32 UNF]	151 [34]	151 [34]	100 - 500 [3.9 - 19.7]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
SGDAP / HSGDAP	Double Acting Stroke Adjusting	20	10 - 200 [1/2 - 8]	200 [7.9]	Rc 1/8 [1/8 NPT]	236 [53]	236 [53]	100 - 500 [3.9 - 19.7]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
SGDAP / HSGDAP	Double Acting Stroke Adjusting	25	10 - 200 [1/2 - 8]	200 [7.9]	Rc 1/8 [1/8 NPT]	378 [85]	378 [85]	100 - 500 [3.9 - 19.7]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
SGDAP / HSGDAP	Double Acting Stroke Adjusting	32	10 - 200 [1/2 - 8]	200 [7.9]	Rc 1/8 [1/8 NPT]	603 [136]	603 [136]	100 - 500 [3.9 - 19.7]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]

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<a href="#">SGDAP / HSGDAP</a>	Double Acting Stroke Adjusting	40	10 - 200 [1/2 - 8]	200 [7.9]	Rc 1/8 [1/8 NPT]	1,055 [237]	1,055 [237]	100 - 500 [3.9 - 19.7]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
<a href="#">SGDAP / HSGDAP</a>	Double Acting Stroke Adjusting	50	10 - 200 [1/2 - 8]	200 [7.9]	Rc 1/4 [1/4 NPT]	1,649 [371]	1,649 [371]	100 - 500 [3.9 - 19.7]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
<a href="#">SGDAP / HSGDAP</a>	Double Acting Stroke Adjusting	63	10 - 200 [1/2 - 8]	200 [7.9]	Rc 1/4 [1/4 NPT]	2,802 [630]	2,802 [630]	100 - 500 [3.9 - 19.7]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
<a href="#">SGDA</a>	Double Acting with Guides	6	5 - 20 [upon request]	20 [0.8]	M3 x 0.5 [upon request]	28.3 [6.4]	21.2 [4.8]	50 - 500 [2.0 - 19.7]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]
<a href="#">SGDA</a>	Double Acting with Guides	8	5 - 20 [upon request]	20 [0.8]	M3 x 0.5 [upon request]	50.3 [11.3]	43.2 [9.7]	50 - 500 [2.0 - 19.7]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]
<a href="#">SGDA</a>	Double Acting with Guides	10	5 - 20 [upon request]	20 [0.8]	M3 x 0.5 [upon request]	78.5 [17.6]	66 [14.8]	50 - 500 [2.0 - 19.7]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]
<a href="#">SGDA / HSGDA</a>	Double Acting with Guides	12	10 - 100 [1/2 - 4]	100 [3.9]	M5 x 0.8 [10-32 UNF]	113 [25]	84.8 [19.1]	100 - 500 [3.9 - 19.7]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
<a href="#">SGDA / HSGDA</a>	Double Acting with Guides	16	10 - 100 [1/2 - 4]	100 [3.9]	M5 x 0.8 [10-32 UNF]	201 [45]	151 [34]	100 - 500 [3.9 - 19.7]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
<a href="#">SGDA / HSGDA</a>	Double Acting with Guides	20	10 - 200 [1/2 - 8]	200 [7.9]	Rc 1/8 [1/8 NPT]	314 [71]	236 [53]	100 - 500 [3.9 - 19.7]	0.15 - 1 [21.8 - 145.0]	0 - 60 [32 - 140]
<a href="#">SGDA / HSGDA</a>	Double Acting with Guides	25	10 - 200 [1/2 - 8]	200 [7.9]	Rc 1/8 [1/8 NPT]	491 [110]	378 [85]	100 - 500 [3.9 - 19.7]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
<a href="#">SGDA / HSGDA</a>	Double Acting with Guides	32	10 - 200 [1/2 - 8]	200 [7.9]	Rc 1/8 [1/8 NPT]	804 [181]	603 [136]	100 - 500 [3.9 - 19.7]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
<a href="#">SGDA / HSGDA</a>	Double Acting with Guides	40	10 - 200 [1/2 - 8]	200 [7.9]	Rc 1/8 [1/8 NPT]	1,256 [282]	1,055 [237]	100 - 500 [3.9 - 19.7]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
<a href="#">SGDA / HSGDA</a>	Double Acting with Guides	50	10 - 200 [1/2 - 8]	200 [7.9]	Rc 1/4 [1/4 NPT]	1,963 [441]	1,649 [371]	100 - 500 [3.9 - 19.7]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
<a href="#">SGDA / HSGDA</a>	Double Acting with Guides	63	10 - 200 [1/2 - 8]	200 [7.9]	Rc 1/4 [1/4 NPT]	3,116 [700]	2,802 [630]	100 - 500 [3.9 - 19.7]	0.1 - 1 [14.5 - 145.0]	0 - 60 [32 - 140]
<a href="#">T - SGDA</a>	Double Acting with Guides Low Speed	6	5 - 20 [upon request]	20 [0.8]	M3 x 0.5 [upon request]	28.3 [6.4]	21.2 [4.8]	5 - 100 [0.2 - 3.9]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]

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T - SGDA	Double Acting with Guides Low Speed	8	5 - 20 [upon request]	20 [0.8]	M3 x 0.5 [upon request]	50.3 [11.3]	43.2 [9.7]	5 - 100 [0.2 - 3.9]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]
T - SGDA	Double Acting with Guides Low Speed	10	5 - 20 [upon request]	20 [0.8]	M3 x 0.5 [upon request]	78.5 [17.6]	66 [14.8]	5 - 100 [0.2 - 3.9]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]
SGDAP	Double Acting with Guides Push Stroke Adjustment	6	5 - 20 [upon request]	20 [0.8]	M3 x 0.5 [upon request]	21.2 [4.8]	21.2 [4.8]	50 - 500 [2.0 - 19.7]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]
SGDAP	Double Acting with Guides Push Stroke Adjustment	8	5 - 20 [upon request]	20 [0.8]	M3 x 0.5 [upon request]	43.2 [9.7]	43.2 [9.7]	50 - 500 [2.0 - 19.7]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]
SGDAP	Double Acting with Guides Push Stroke Adjustment	10	5 - 20 [upon request]	20 [0.8]	M3 x 0.5 [upon request]	66 [14.8]	66 [14.8]	50 - 500 [2.0 - 19.7]	0.2 - 1 [29.0 - 145.0]	0 - 60 [32 - 140]