

KGG-SG pneumatic upper flange pipe-plate lever cylinder

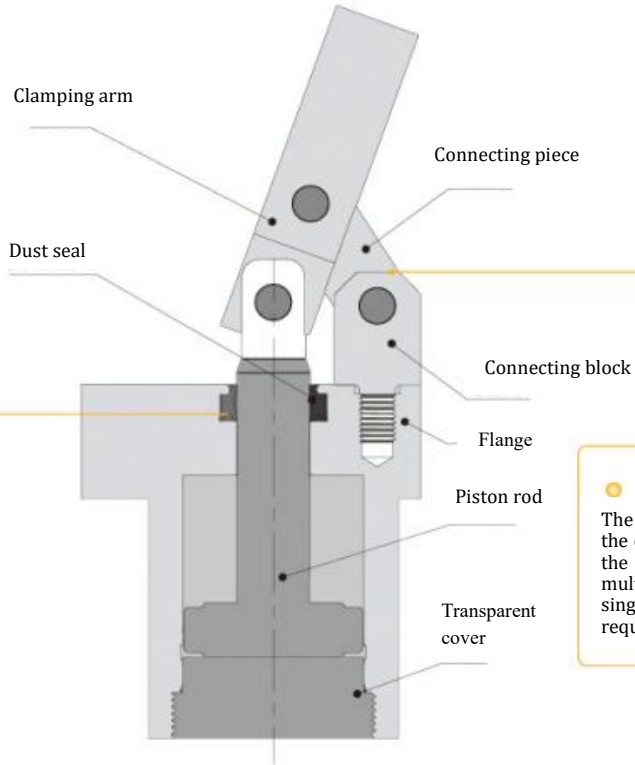
Pressure Range

1.5-7KN/cm<sup>2</sup>



High quality seals

High quality seals are used to effectively prevent coolant and chips from entering the cylinder block.



Three-way clamping arm

The non-integrated structure of the connecting rod mechanism and the cylinder block realizes the multi-directional clamping of a single cylinder to meet your use requirements.

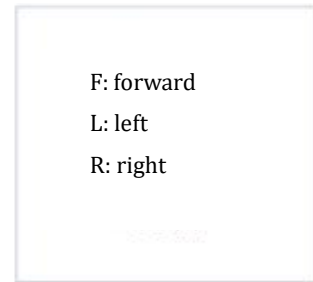
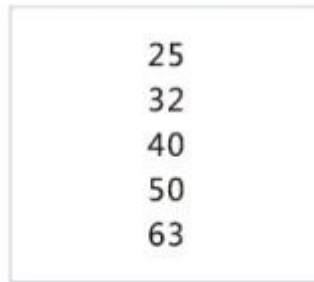
The figure shows the sectional view of the KGG-SG clamping state

Model Representation

KGG—SG 1 2 (Example: KGG-SG32)

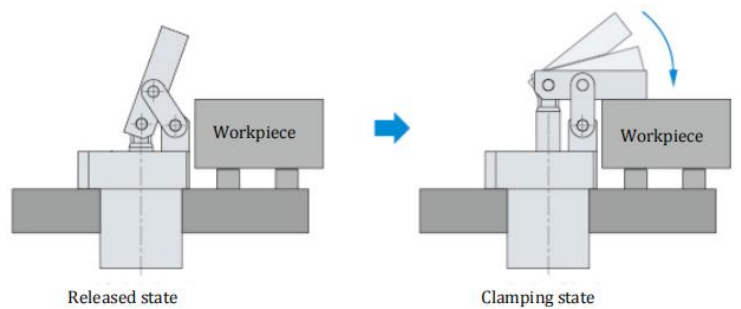
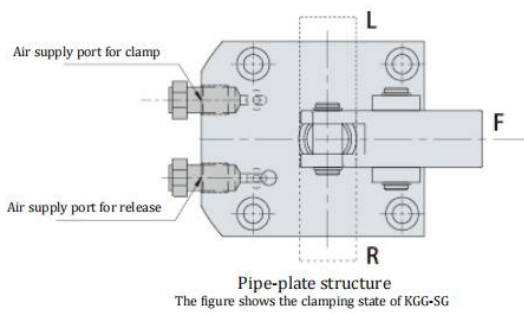
① Dimensions (refer to specification sheet)

② Clamping arm direction

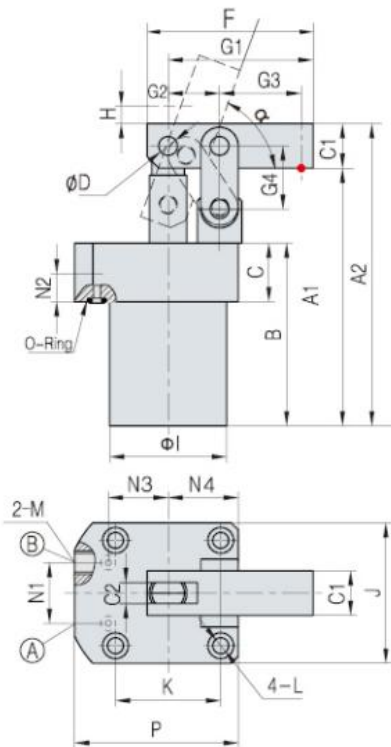


Installation Method

Action Description



Overall Dimension

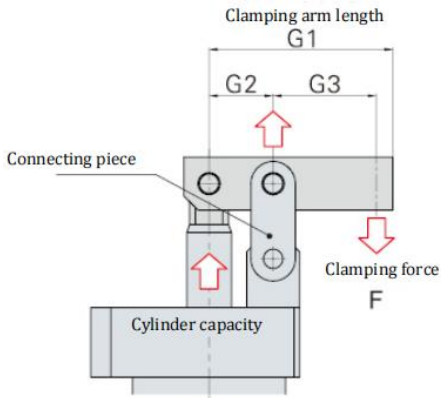


A-clamping hole  
B-release hole  
● -Optimal clamping position  
The figure shows the released state

Model	KGG-SG25	KGG-SG32	KGG-SG40	KGG-SG50	KGG-SG63
Dimension					
A1	90	110	113	125	134
A2	106	129	132	144	156.2
B	65	78	78	85	90
C	25	25	25	25	25
C1	□15.9	□19	□19	□19	□22.2
F	60	71	75	85	95
G1	54	62	66	76	86
G2	17	22	23	27.5	30
G3	38	35	37	40.5	48
ΦI	Φ40	Φ50	Φ55	Φ65	Φ80
J	50	60	65	75	90
P	60	70	75	88	108
K	□37	□45	□50	□58	□70
L	Φ5.6	Φ6.8	Φ6.8	Φ9	Φ9
M	M5	RP1/8	RP1/8	RP1/8	RP1/8
N1	23	23	26	32	35
N2	10	12	15	12.5	12.5
N3	27	31	33.5	39	47
N4	25	30	32.5	37.5	45
H	2	3	2	3	2
G4	20	27	27	27	32
ΦD	6	8	8	8	8
C2	8	9	9	9	10
α	72°	67°	67°	58°	58°
O-Ring	P7	P7	P7	P7	P7

Note: □ indicates square

Performance Curve



The clamping force varies depending on the length of the clamping arm (G1) and the air pressure. Please comprehensively consider the clamping arm length (G1), operating air pressure, installation size and other factors to select the appropriate angle cylinder model. (for values not in the performance table, please refer to the overall dimension.)

Note: the longer the clamping arm of the angle cylinder, the greater the force acting on the cam mechanism. Do not use it in the non-use range.

● Interpretation of clamping force:

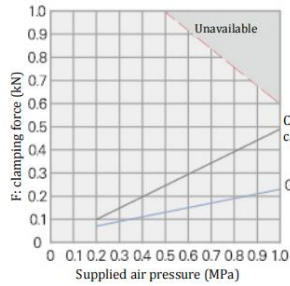
When KGG-SG25 is used, the supplied air pressure is 0.5MPa and the clamping arm length is 54mm, the clamping force is about 0.11kN.

● F: clamping force (kN) P: operating air pressure (MPa) G1: clamping arm length (mm)

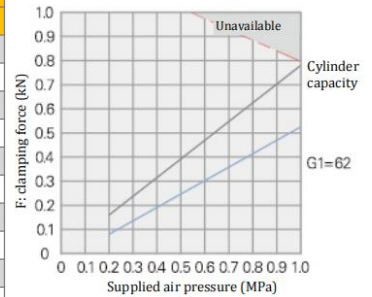
G2: Distance from piston rod center point to lever support point (mm)

G3: Distance from piston support point to clamping point of clamping arm (mm)

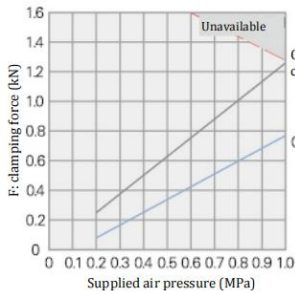
KGG-SG25		
Air pressure (MPa)	Cylinder capacity (kN)	Clamping force (kN)
		Clamping arm length G1 (mm)
		54
1	0.49	0.22
0.9	0.44	0.20
0.8	0.39	0.18
0.7	0.34	0.15
0.6	0.29	0.13
0.5	0.25	0.11
0.4	0.20	0.09
0.3	0.15	0.07
0.2	0.10	0.04
0.1	0.05	0.02



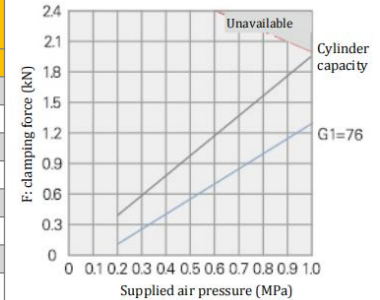
KGG-SG32		
Air pressure (MPa)	Cylinder capacity (kN)	Clamping force (kN)
		Clamping arm length G1 (mm)
		62
1	0.80	0.51
0.9	0.72	0.45
0.8	0.64	0.40
0.7	0.56	0.35
0.6	0.48	0.30
0.5	0.40	0.25
0.4	0.32	0.20
0.3	0.24	0.15
0.2	0.16	0.10
0.1	0.08	0.05



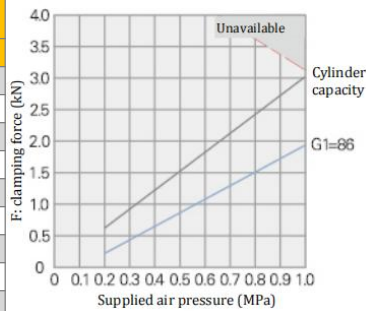
KGG-SG40		
Air pressure (MPa)	Cylinder capacity (kN)	Clamping force (kN)
		Clamping arm length G1 (mm)
		66
1	1.26	0.78
0.9	1.13	0.70
0.8	1.01	0.62
0.7	0.88	0.59
0.6	0.75	0.47
0.5	0.63	0.39
0.4	0.50	0.31
0.3	0.38	0.23
0.2	0.25	0.16
0.1	0.13	0.08



KGG-SG50		
Air pressure (MPa)	Cylinder capacity (kN)	Clamping force (kN)
		Clamping arm length G1 (mm)
		76
1	1.96	1.33
0.9	1.77	1.20
0.8	1.57	1.07
0.7	1.37	0.93
0.6	1.18	0.80
0.5	0.98	0.67
0.4	0.78	0.53
0.3	0.59	0.40
0.2	0.39	0.27
0.1	0.20	0.13



KGG-SG63		
Air pressure (MPa)	Cylinder capacity (kN)	Clamping force (kN)
		Clamping arm length G1 (mm)
		86
1	3.12	1.95
0.9	2.80	1.75
0.8	2.49	1.56
0.7	2.18	1.36
0.6	1.87	1.17
0.5	1.56	0.97
0.4	1.25	0.78
0.3	0.93	0.58
0.2	0.62	0.39
0.1	0.31	0.19



\*Precautions:

1. This figure shows the relationship between clamping force and supplied air pressure.
2. The clamping force indicates the clamping capacity of the clamping arm when it is clamped in the horizontal position.
3. Please use it under the supplied air pressure suitable for the length of the clamping arm.