Product Features

KGG-PG/GY	Bore of Cylinder (mm)	Φ25	Φ32	Φ40	Φ50	Φ63
	Piston Rod Diameter(mm)	Φ10	Φ12	Φ16	Φ20	Φ20
	Stroke (mm)	20	25	25	30	35
	Pressure Area Pull-in/Push-out (cm^2)	4.91	8.04	12.57	19.63	31.17
	Theoretical Clamping Force (6KN/cm^2)	15	25	44	71	136
	Maximum Operating Pressure (KN/cm^2)	8				
	Operating Pressure Range (KN/cm^2)	1.5-7				
KGG-SG	Bore of Cylinder (mm)	Φ25	Φ32	Φ40	Φ50	Φ63
	Piston Rod Diameter(mm)	Φ14	Φ16		Φ20	
	Stroke (mm)	20	28	30	30	
	Pressure Area Pull-in/Push-out (cm^2)	4.91	8.04	12.57	19.63	31.17
	Theoretical Clamping Force (6KN/cm^2)	13.2	30.3	47	80	117
	Maximum Operating Pressure (KN/cm^2)	10				
	Operating Pressure Range (KN/cm^2)	1.5-7				

Product Description

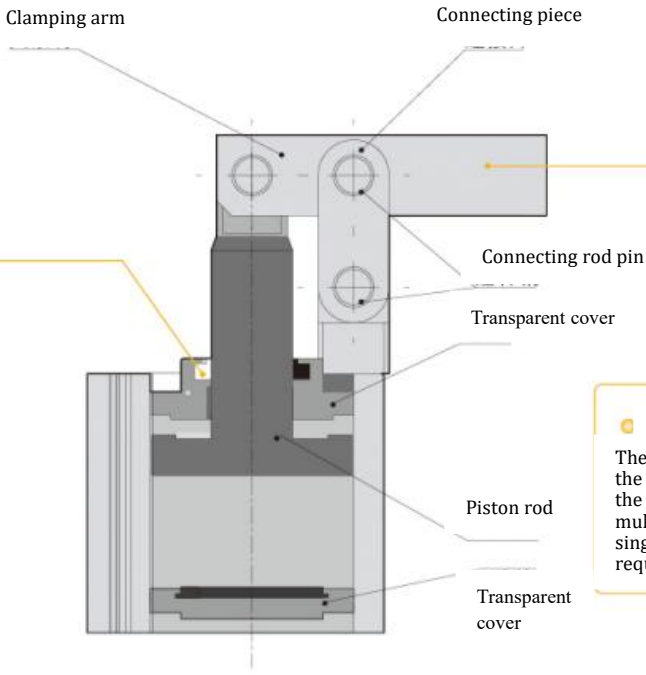
- This product is provided with high-performance sealing rings to avoid cylinder leakage and prolong the service life of the cylinder.
- The lever principle is used to make the workpiece easy to clamp and improve the efficiency.
- Please filter your air intake supply clean to avoid damaging the seals in the cylinder.
- The working pressure you use should not exceed the maximum allowable working pressure of the product.

KGG-PG pneumatic ordinary piping lever cylinder

Pressure Range
1.5-7KN/cm^2

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.

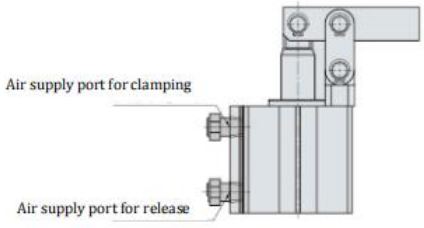
The figure shows the sectional view of the KGG-PG clamping state

Model Representation

KGG—PG ① (Example: KGG-PG32)

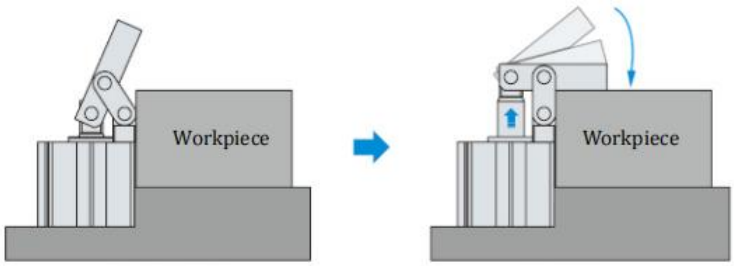
KGG-PG/GY	① Dimensions (refer to specification sheet)		②Proximity switch
	25 32 40 50 63	-	S1: 1pc S2: 2pcs V: DC4-24V AC4-120V

Piping Method



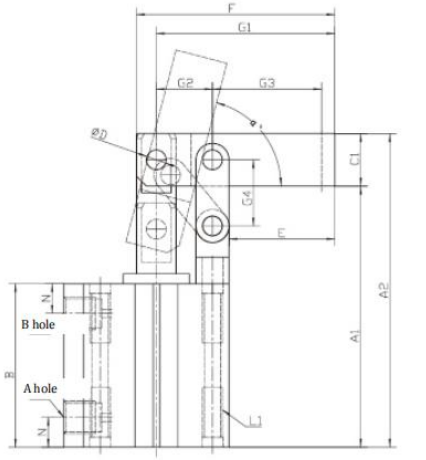
Piping type (without plate interface)
The figure shows the clamping state of KGG-P

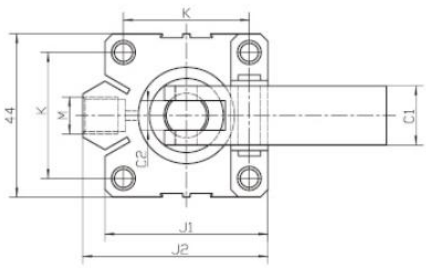
Action Description



Released state　　Clamping state

Overall Dimension



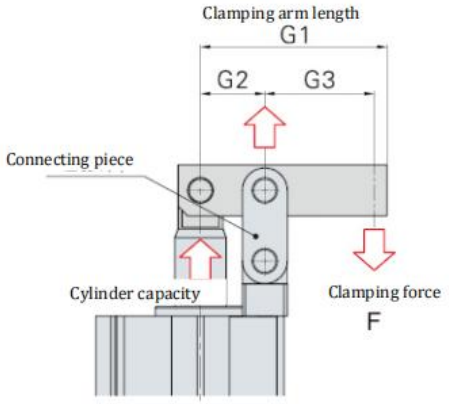


A-clamping hole
B-release hole
Optimal clamping position
The figure shows the released state

Dimension \ Model		KGG-PG25	KGG-PG32	KGG-PG40	KGG-PG50	KGG-PG63
PG	A1	65.7	79.1	83	96	116
	A2	78.4	94.9	98.9	116	138
	B	41	49.5	51	58	72
GY	A1	75.7	84.1	93	106	121
	A2	88.4	99.9	108.9	126	143
	B	51	54.5	61	68	77
C1		□ 12.7	□ 15.9	□ 15.9	□ 20	□ 22
C2		6	8	8	10	10
D		ϕ6	ϕ6	ϕ8	ϕ8	ϕ8
E		25	31	31	34	38
F		50	60	65	75	85
G1		45	54	58	66	76
G2		14	17	20	24	30
G3		27.5	33	34	38	40.5
G4		17	20	24	31	36
J1		40	44	52	62	75
J2		42	50	58.5	71.5	84.5
K		28	34	40	48	60
L1		M5*0.8	M6	M8	M8	M8
M		M5*0.8	RP1/8	RP1/8	RP1/4	RP1/4
N		8	9	10	10.5	11.8
α		74°	75°	74°	76°	71°

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:

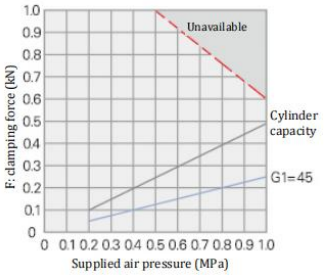
When KGG-PG25 is used, the supplied air pressure is 0.5MPa and the clamping arm length is 45mm, the clamping force is about 0.12kN.

- F: clamping force (KN) P: operating air pressure (MPa) G1: clamping arm length (mm)

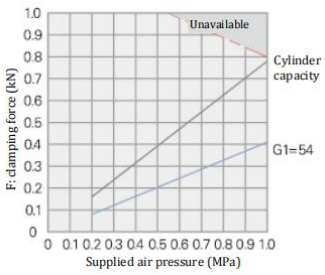
G2: Distance from piston rod center point to lever support point (mm)

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

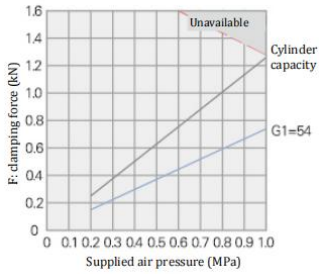
KGG-PG25		
Air pressure (MPa)	Cylinder capacity (kN)	Clamping force (kN) Clamping arm length G1 (mm)
		45
1	0.49	0.25
0.9	0.44	0.22
0.8	0.39	0.20
0.7	0.34	0.17
0.6	0.29	0.15
0.5	0.25	0.12
0.4	0.20	0.10
0.3	0.15	0.07
0.2	0.10	0.05
0.1	0.05	0.02



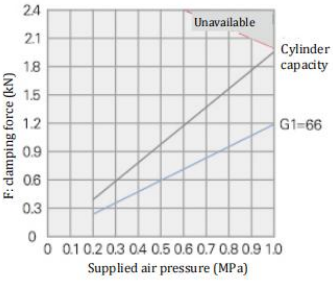
KGG-PG32		
Air pressure (MPa)	Cylinder capacity (kN)	Clamping force (kN) Clamping arm length G1 (mm)
		54
1	0.80	0.41
0.9	0.72	0.37
0.8	0.64	0.33
0.7	0.56	0.29
0.6	0.48	0.25
0.5	0.40	0.21
0.4	0.32	0.17
0.3	0.24	0.12
0.2	0.16	0.08
0.1	0.08	0.04



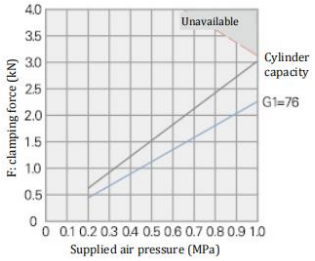
KGG-PG40		
Air pressure (MPa)	Cylinder capacity (kN)	Clamping force (kN) Clamping arm length G1 (mm)
		58
1	1.26	0.74
0.9	1.13	0.67
0.8	1.01	0.59
0.7	0.88	0.52
0.6	0.75	0.44
0.5	0.63	0.37
0.4	0.50	0.30
0.3	0.38	0.22
0.2	0.25	0.15
0.1	0.13	0.07



KGG-PG50		
Air pressure (MPa)	Cylinder capacity (kN)	Clamping force (kN) Clamping arm length G1 (mm)
		66
1	1.96	1.19
0.9	1.77	1.07
0.8	1.57	0.95
0.7	1.37	0.83
0.6	1.18	0.71
0.5	0.98	0.59
0.4	0.78	0.48
0.3	0.59	0.36
0.2	0.39	0.24
0.1	0.20	0.12



KGG-PG63		
Air pressure (MPa)	Cylinder capacity (kN)	Clamping force (kN) Clamping arm length G1 (mm)
		76
1	3.13	2.27
0.9	2.80	2.04
0.8	2.49	1.82
0.7	2.18	1.59
0.6	1.87	1.36
0.5	1.56	1.13
0.4	1.25	0.91
0.3	0.93	0.68
0.2	0.62	0.45
0.1	0.31	0.23



*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.