

KOGANEI

Air Cylinder

RUBBER HAND

INSTRUCTION MANUAL Ver.1.0

Handling Instructions and Precautions

Pick type

1. Check for any damage on outside, etc., on the rubber portion before using.
2. Do not let the rubber portion come into contact with sharp objects and do not apply shocks.
3. Prior to using the product, and before using it again after not using it for a long time, test by supplying and exhausting the air a few times.
4. Do not leave it for a long time unused with air inside.
5. Avoid storing in places with direct sunlight or moisture.
6. Do not inflate it frequently in a load-free state because this may cause early failure of the product.
7. The product wears out, so as it ages, replace it with a new one in good time.
8. When gripping, if there is any oil or water (any substance that reduces friction) between the workpiece and the rubber, the friction force will sharply be decreased to cause the gripping force to reduce, and caution is advised.
9. Air should be supplied after passing it through a pressure reducing valve, a filter, or an oil mist removal filter, and it should be used at or less than the maximum operating pressure. If used at high pressure, or if there is oil or moisture contained in the air, it may reduce its operating life.
10. Use in excess of the applicable workpiece inner diameter range may cause early failure of the product.
11. Additional machining to the product body by the customer might damage the rubber portion, and it will cause early failure of the product.
12. Block with a sealant coated plug at unused female thread on supply/exhaust ports.

Grip type

1. Check for any damage on outside, etc., on the rubber portion before using.
2. Do not let the rubber portion come into contact with sharp objects and do not apply shocks.
3. Prior to using the product, and before using it again after not using it for a long time, test by supplying and exhausting the air a few times.
4. Do not leave it for a long time unused with air inside.
5. Avoid storing in places with direct sunlight or moisture.
6. Do not inflate it frequently in a load-free state because this may cause early failure of the product.
7. The product wears out, so as it ages, replace it with a new one in good time.
8. When gripping, if there is any oil or water (any substance that reduces friction) between the workpiece and the rubber, the friction force will sharply be decreased to cause the gripping power to reduce, and caution is advised.
9. Air should be supplied after passing it through a pressure reducing valve, a filter, or an oil mist removal filter, and it should be used at or less than the maximum operating pressure. If used at high pressure, or if there is oil or moisture contained in the air, it may reduce its operating life.
10. Additional machining to the product body by the customer might damage the rubber portion, and it will cause early failure of the product.

Rubber hand replacing period

As the rubber hand reaches the end of its life, the following phenomena can be seen. These phenomena will differ depending on the operating conditions (using environment, operating purpose, gripping conditions, etc.), therefore make regular inspections and replace it soon.

- ① The cords are exposed due to wear of the rubber part (pick type).
- ② Cracks appear in the rubber portion.
- ③ When inflated, unevenness between the cords appears (pick type).
- ④ Inserting of the workpiece becomes difficult.
- ⑤ It takes time to exhaust.^{Note}
- ⑥ Inflating the rubber portion becomes difficult.^{Note}

Note: The phenomena ⑤ and ⑥ above can be caused by clogging or air leakage in the piping, therefore the piping should also be checked if these phenomena occur.

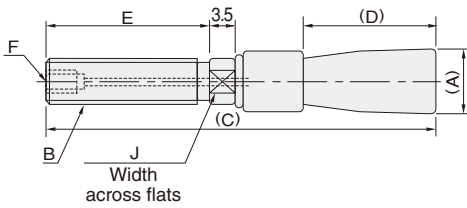
Dimensions of Pick Type (mm)



RBP06RCA~RBP025RCA : RBP-RCA
RBP035TCA~RBP055TCA : RBP-TCA

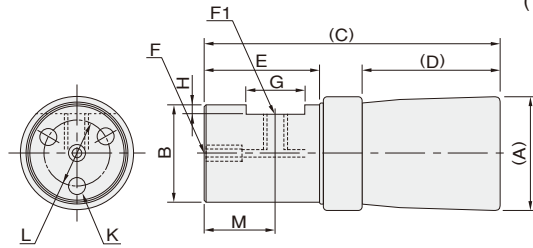
●RBP006RCA~009RCA

() show reference dimensions.



●RBP010RCA~055TCA

() show reference dimensions.



Major parts

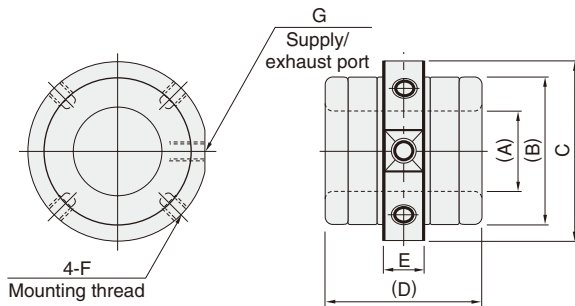
- A : Rubber portion outer diameter
- B : Outer diameter of the body
- C : Total length
- D : Rubber length
- F : Supply/exhaust port size

Model	Code	(A)	B	(C)	(D)	E	F	F1	G	H	J	K	L	M
RBP006RCA		φ 8	M6×1	51	17.5	21	M3×0.5 Depth4	—	—	—	5	—	—	—
RBP007RCA		φ 9.5	M6×1	51	17.5	21	M3×0.5 Depth4				6			—
RBP009RCA		φ 11	M8×1.25	51	17.5	21	M5×0.8 Depth6				8			—
RBP010RCA		φ 14	φ 10	52	21	22	M5×0.8 Depth8	M5×0.8 Depth1.5	12	2	—	—	—	14
RBP014RCA		φ 19	φ 14	56	22	22	M5×0.8 Depth8	M5×0.8 Depth3.5						14
RBP017RCA		φ 22	φ 17	56	22	22	M5×0.8 Depth8	M5×0.8 Depth5						14
RBP019RCA		φ 25	φ 19	55	22	22	M5×0.8 Depth8	M5×0.8 Depth6						14
RBP022RCA		φ 27	φ 22	64	28	25	M5×0.8 Depth8	M5×0.8 Depth7	14	2.5	—	3-M6×1	φ 32	15
RBP025RCA		φ 29	φ 25	76	34	30	M5×0.8 Depth8	M5×0.8 Depth8	15					18.5
RBP035TCA		φ 41	φ 34	71	42	17.5	M6×1 Depth9	Rc1/8	—					12
RBP045TCA		φ 51	φ 44	90	52	26	M6×1 Depth6	M6×1 Depth8	18					13
RBP055TCA		φ 63	φ 54	101	53	35	M6×1 Depth10	M6×1 Depth10	20	3	—	3-M6×1	φ 40	15

Dimensions of Grip Type (mm)



RBG020GCA~RBG050GCA : RBG



() show reference dimensions.

Major parts

- A : Rubber portion inner diameter
- B : Rubber portion outer diameter
- C : Maximum diameter (Flange is included.)
- D : Height (Flange is included.)
- E : Height of the flange
- F : Mounting thread size
- G : Supply/exhaust port size

Model	Code	(A)	(B)	C	(D)	E	F	G
RBG020GCA		φ 19	φ 33	φ 40	36	10	M5×0.8	M5×0.8
RBG030GCA		φ 27	φ 48	φ 60	48	13	M6×1	M6×1
RBG040GCA		φ 37	φ 58	φ 70	52	14	M6×1	M6×1
RBG050GCA		φ 48	φ 69	φ 80	56	15	M8×1.25	Rc1/8