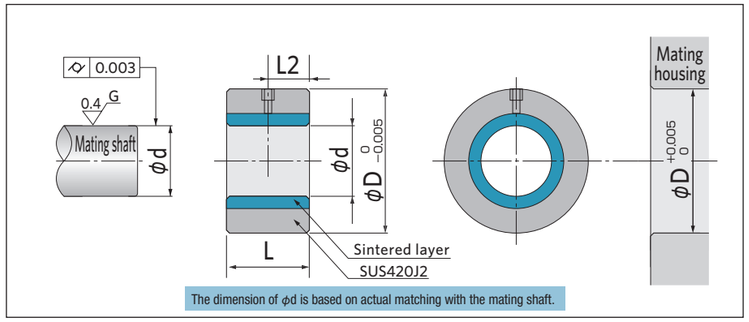
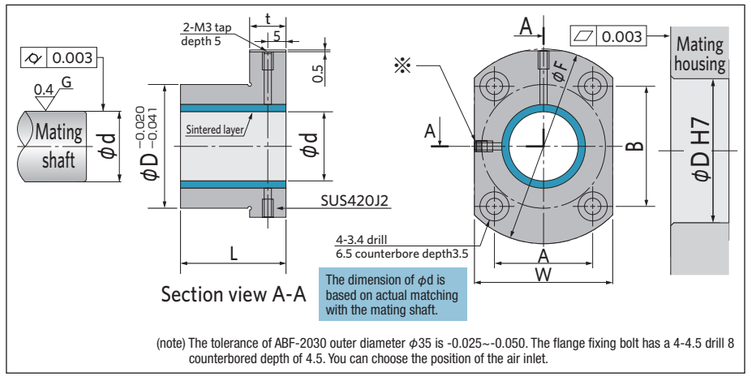
OILES Air Bearing straight/flange bushing type (ABB/ABF series)

Made-to-order RoHS2 ELV



Parts No.	I.D. φd(mm)	O.D. φD(mm)	Length L(mm)	L2(mm)	Air inlet	Weight(g)
ABB - 203520	20	35	20	10	M3	100
ABB - 304530	30	45	30	15	M5	200
ABB - 406040	40	60	40	20	M5	450
ABB - 507050	50	70	50	25	M5	700

※ Custom dimensions are available. Please contact our sales office for details.



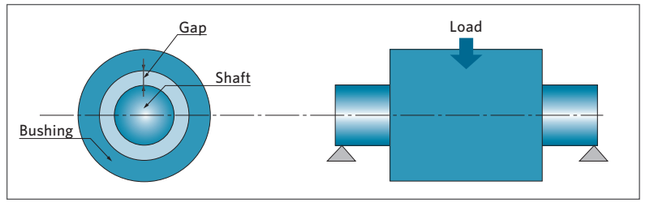
(note) The tolerance of ABF-2030 outer diameter φ35 is -0.025~-0.050. The flange fixing bolt has a 4-4.5 drill 8 counterbored depth of 4.5. You can choose the position of the air inlet.

Parts No.	I.D. φd(mm)	O.D. φD(mm)	Flange φF(mm)	Flange t(mm)	Length L(mm)	W(mm)	A(mm)	B(mm)	Air inlet	Weight (g)
ABF - 1220	12	25	44	10	20	32	22	26	M3	120
ABF - 1620	16	30	48	10	20	36	25	30	M3	150
ABF - 2030	20	35	55	10	30	40	28	34	M3	230

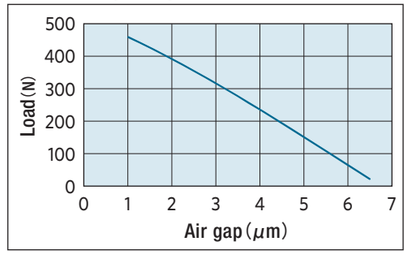
※ Custom dimensions are available. Please contact our sales office for details.

Typical performance of Oiles air bushings (straight / flange)

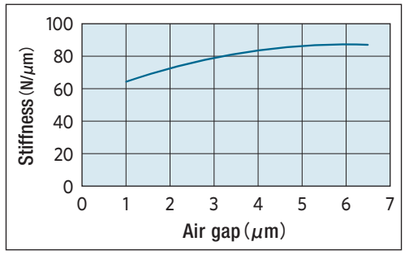
Product : ABB-406040
Supply air pressure : 0.5MPa
Gap between shaft and bearing(radius) : 7μm



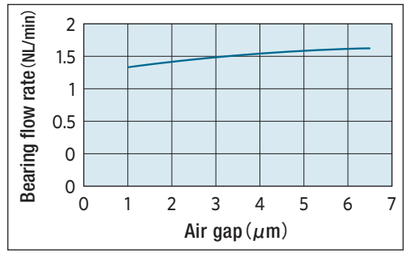
■ Load capacity



■ Stiffness



■ Bearing flow rate



Performance of ABB/ABF when the supply pressure 0.5MPs, Gap 7μm

Part No.	Load capacity (N)※1	Stiffness (N/μm)※2	Bearing flow rate (NL/min)※3
ABB - 203520	48	16	3.3
ABB - 304530	111	37.5	3.3
ABB - 406040	205	70	4.0
ABB - 507050	335	115	4.0
ABF - 1220	20	5	3.8
ABF - 1620	35	10	4.0
ABF - 2030	65	24	4.0

※1) Please use within the load capacity.
※2) Stiffness refers to a value near the load capacity.
※3) Bearing flow rate refers to the flow rate measured when the bearing and shaft are assembled.
※The value shown above are typical values.

Bearing assembly method

Due to the gap between the I.D of the bearing and the shaft is extremely small.
When assembling, Please avoid fixing by press fit and assemble with a clearance fit.

Customize

In addition to the bush type, air slide, air shaft or other shapes can be available.
Also, Custom dimensions are available. Please Contact our sales office for details.