

Radial insert ball bearings with rubber insulating ring
for fan construction



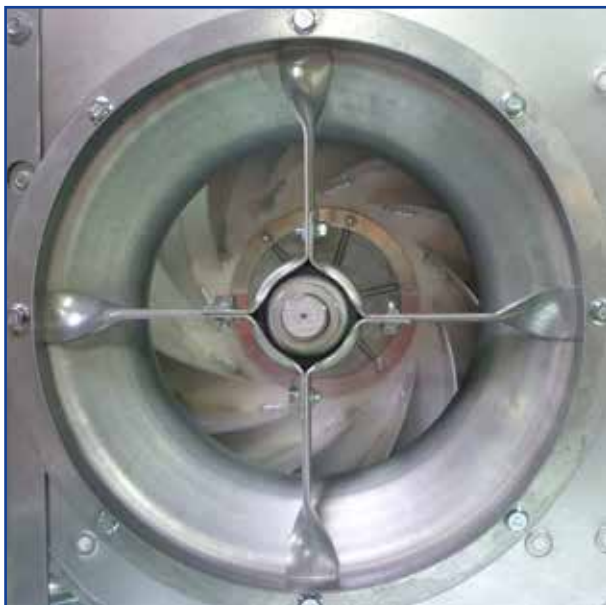
HFB – Technology in motion.



Bearing units for smooth and stable running

Long lifetime, high operational reliability and smooth running are the key challenges for bearings in fan construction. VABR-B type bearing units, purpose-built for noise-sensitive applications in fan construction, are ideally suited to meet these challenges.

These units consist of an insert bearing, version SAN, jacketed with a thick-walled insulating ring made of NBR. Due to the insulating ring, the bearings and the adjacent construction are broadly decoupled from vibrations. Hence, the insulating ring absorbs vibrations and running noise.



Product features

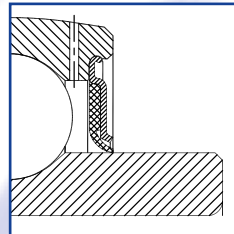
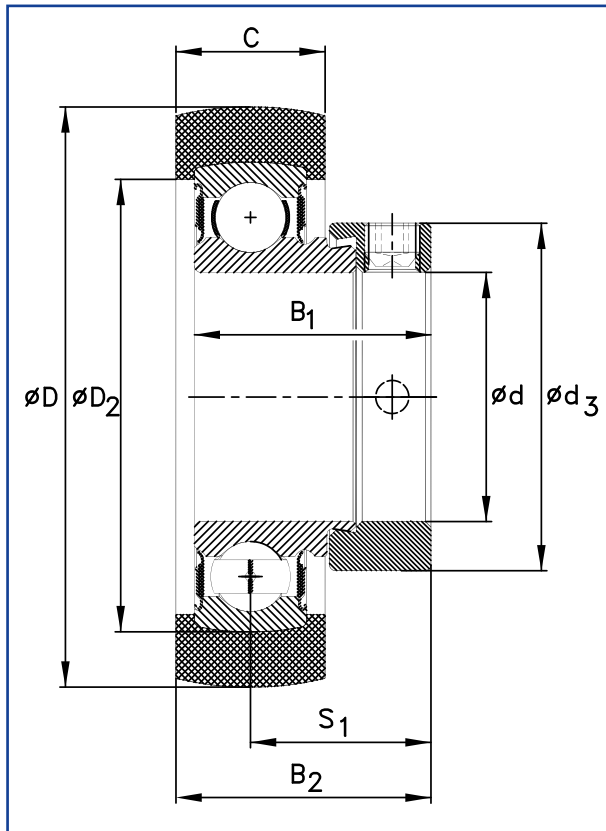
- Proven SAN design (allows easy assembly by means of an eccentric locking collar)
- Extremely smooth operating bearing versions
- Greased with a special noise absorbing lubricant
- Clearance acc. to class C3 as standard
- Rubber insulating rings available with different grades of hardness (different damping characteristics).
- Temperature range of rubber insulating rings from -20 °C to +85 °C
- Units are protected against frictional corrosion because the inner ring and the clamping ring are CORROPROOF-coated*
- Bearings conform to tolerance class NORMAL (PN), exception: tolerance of bore diameter (0 to +18 µm)
- Relubrication not possible

* Our CORROPROOF-special coating offers efficient protection against corrosion. For more detailed information, please see our CORROPROOF leaflet.

High performance fan for applications in large air-conditioning systems. Insert bearings with rubber insulating rings provide excellent smooth running and long service life.

Insert Bearings VABR-B

Technical data



Insert bearings fitted with reliable contact seals (type P).

Type	Main dimensions [mm]										Load rating [kN]			Insulating ring		Weight
Unit	Insulating ring	Bearing	Ø d	Ø D	C	S ₁	Ø D ₂	B ₁	Ø d ₃ [max]	B ₂	C _r	C _{0r}	C _u	Hardness [Shore A]	Capacity C _G [kN]	[kg]
VABR-B 12/47	VABR 39/47	SAN 12-AV03	12	47.3	17.6	22.1	33.5	28.6	28.0	30.9	9.8	4.75	0.22	70	0.8	0.15
VABR-B 15/47	VABR 39/47	SAN 15-AV03	15	47.3	18.0	22.1	33.5	28.6	28.0	31.1	9.8	4.75	0.22	70	0.9	0.15
VABR-B 20/52	VABR 47/52	SAN 20-AV03	20	52.3	17.6	23.5	39.0	31.0	33.0	32.3	12.8	6.60	0.22	70	1.2	0.20
VABR-B 25/62	VABR 52/62	SAN 25-AV03	25	62.2	20.8	23.5	44.5	31.0	37.5	33.9	14.0	7.80	0.35	70	1.4	0.24
VABR-B 30/72	VABR 62/72	SAN 30-AV03	30	72.2	23.0	26.7	54.0	35.8	44.0	38.2	19.5	11.30	0.51	70	2.0	0.38
VABR-B 35/80	VABR 72/80	SAN 35-AV03	35	80.2	24.0	29.4	62.0	62.0	39.0	51.0	25.5	15.30	0.70	70	2.7	0.73
VABR-B 40/85	VABR 80/85	SAN 40-AV03	40	85.0	27.0	32.7	70.0	43.8	58.0	46.7	32.5	19.80	0.90	70	3.5	0.73
VABR-B 50/100	VABR 90/100	SAN 50-AV03	50	100.2	30.0	32.7	80.0	43.8	69.0	47.7	35.0	23.20	1.10	70	4.1	0.92

Units with insulating rings of different levels of shore-hardness on request

Sales companies

HFB

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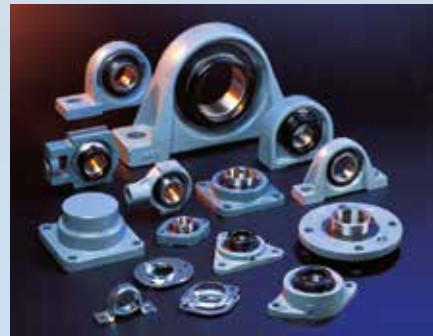
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Extract of HFB's product range



Plummer block and take-up units for conveyor systems of all sizes



Ball bearing housing units for shaft diameters 12-140 mm



Oil and grease lubricated housings for fan and air-conditioning industry



Split housings made from grey cast iron, spheroidal graphite cast iron or cast steel



Grease lubricated plain bearings with bronze bushes