



Operating and maintenance instructions

Shaft-mounted flat gear boxes BOC/I



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Installation

All gear boxes (except F-types to be mounted with motors according to our work's standard) are filled with lubricant ready for operation. In case of multistage gear box combinations each one is filled separately. For checking loosen the drain plug carefully, oil flows out immediately, grease with a certain delay.

For specified quantities of lubricant filling see table 1.

A slight grease film which may initially appear on shaft and vent valve during operation is of no importance.

It is essential to install the gear box in the mounting position as manufactured. Changing the mounting position, the lubricant quantity according to table 1, page 5 and position of the vent valve need to be checked and if necessary have to be altered accordingly

Assembly

Unit is to be mounted on a rigid, plane foundation. Clean shafts before start up (remove paint protection cover). Fit pulleys, couplings and other transmission elements to the input and output shafts with utmost care to avoid damage of the bearings. Shafts are machined with center holes according to DIN 322 B. If necessary the transmission elements have to be warmed up for fitting. To guarantee a smooth run even at a high speed align driving parts. In case of direct coupling take care of precise alignment of shafts. In case of indirect power transmission (e. g. chain or belt drives) pay attention to a right angled positioning towards the shaft and the point of load application should be as near as possible to the shaft bearing. Do not use shafts statically prestressed or bent. In case of flange design make sure centering edge and shaft are assembled coaxially.

Oil Change

The quantity of lubricant has to be renewed for the first time after approx. 10.000 working hours latest, however, after 3 years. The gear box should be removed and cleaned, the wear and tear parts checked, and the shaft seals replaced for safety's sake. Before reassembly clean the sealing surfaces of the housing and apply flexible sealing compound. Refill the gear box according to the mounting position as per table 1. Never mix mineral with synthetic lubricants!

Einbaulage <i>mounting position</i> Füllhöhe Schmierstoff level for lubricant		Füllmenge (Liter) für Getriebetyp CB-SF... <i>quantities (litre) for gear box type CB-SF...</i>						Bauform <i>constr. form</i>	Anflanschgetriebetyp <i>flange-mounted gear box type</i>			
		150	350	450	950	1550	3050		/00	/0	/1	/2
	A	0,5	0,8	1,3	3,0	6,0	7,5	B3	0,1	0,2	0,3	0,4
	B	0,5	0,8	1,3	3,0	6,0	7,5					
	C	0,45	0,7	1,2	2,8	5,5	6,9					
	D	0,65	1,0	1,7	3,9	7,8	9,7	V1	0,2	0,3	0,5	0,7
	E	0,7	1,1	1,8	4,0	8,0	10,2	V3	0,2	0,3	0,5	0,7

○ Entlüftungsventil *vent valve* ● Ablasschraube *drain plug* M 12 x 1,5 keg

Temperaturbereich <i>Temperature range</i> [°C]		Ölbasis <i>Oil basis</i>		ARAL	BP	CASTROL	ESSO	MOBIL	SHELL	TEXACO
-50	0	+50	+100	EP-Getriebeöl DIN 51502 <i>EP gear oil DIN 51502</i>						
		1. mine- ralisch <i>1. mineral</i>	2. synthe- tisch <i>2. synthetic</i>							
-10°	+50°	Standard	●	Degol BG 320	Energol GR-XP 320	Alpha SP 320	Spartan EP 320	Mobilgear 632	Omala 320	Meropa 320
-30°	+130°		●	Degol GS 220	Energol SG-XP 220	Alpha Syn.T 220	Umlauföl S 220	Glygoyle 30	Tivela Oil WB	Synlube CLP 220
-60°	+50°		●					Aero HF A	Aero Fluid 4	
				EP-Getriebefließfette <i>EP semifluid gear grease</i>						
-20°	+60°		●	Aralub FDP 00	Energrease HT-EP 00		Fibrax EP 370	Mobilplex 44	Spezial Getr.fett H	Marfak 00
-40°	+90°		●		Energrease GSF	CLS Grease	S 420 (EGL 3818 A)	Mobiltemp SHC 100	Tivela Compound A	Multifak EP 00
-50°	+40°		●				5182 Grease			Texondo F 00

1. Mineralische Getriebeöle und -fette sind hochwertige Schmiermittel, die Ölwechselintervalle bis zu 10.000 Betriebsstunden zulassen.
Mineral oil and grease are high quality lubricants, allowing lubricant change intervals up to 10.000 operating hours.

2. Synthetische Schmiermittel können 2-5-fach längere Wechselintervalle, als unter 1. aufgeführt, ermöglichen.
Synthetic lubricants can permit 2-fold-5-fold longer change intervals as stated above 1.

Achtung! Niemals mineralische mit synthetischen Ölen mischen.
Attention! Mineral lubricants must not be mixed with synthetic lubricants.