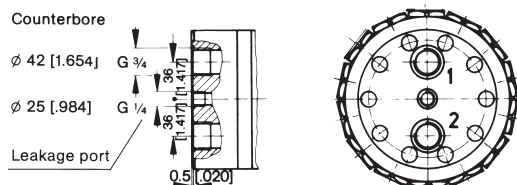
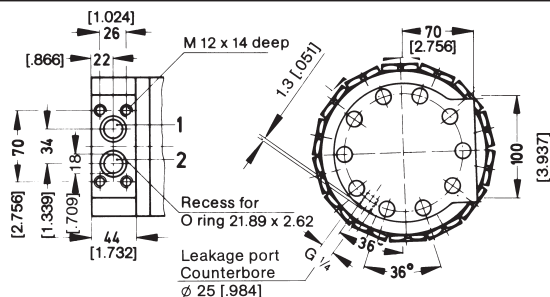


Flange
DIN-ISO 3019/2

KM 63 ZAF



Alternative end cover B5



Alternative end cover A1

Hydraulic characteristic values

Geometr. displacement	[cm³/rev]	66
Theor. spec. torque	[Nm/bar]	1,05
Average spec. torque	[Nm/bar]	0,95
Peak pressure*	[bar]	315
Max. operating pressure**	[bar]	250
Continuous pressure	[bar]	160
Max. operating torque	[Nm]	237
Continuous torque	[Nm]	152
Drain line pressure	[bar]	max. 1
Hydraulic fluid temperature range	[K]	243 - 363
	[°C]	- 30 - + 90
Viscosity range	[mm²/s]	20 - 150
		(max. 1000 mm²/s at start)

Pressure fluids:

HM and HV, definition to CETOP RP 75 H (mineral oil based fluids).

Mineral oil H-LP in conformity with DIN 51524 part 2.

Bio-degradable fluids available on request.

* Definition according to DIN 24 312.

Peak pressure = Pressure exceeding the maximum operating pressure for a short time at which the motor remains able to function.

** If the sum of inlet pressure and outlet pressure is higher than the peak pressure, please consult the manufacturer.

HFC	Reduce HFC pressure to 70 % Check the bearing service life	Definition to CETOP RP 77 H
HFD	Viton seals are required	ISO/DIS 6071

Filtering

Max. permissible degree of contamination of the pressure fluid according to NAS 1638 class 9.

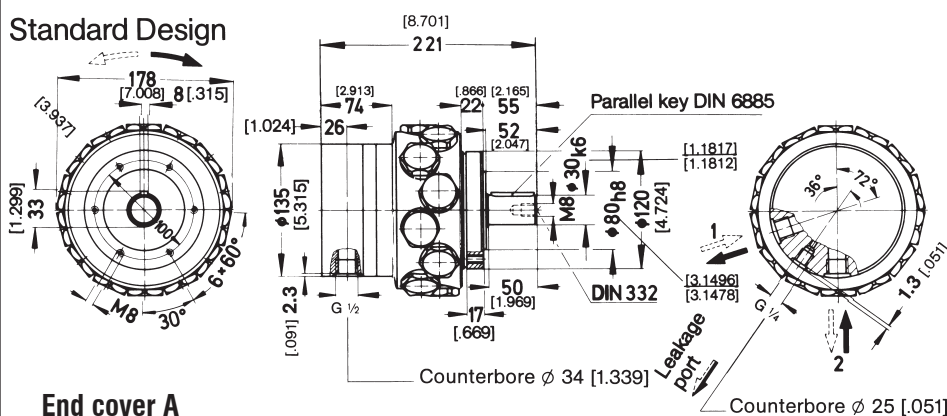
We recommend filters with a minimum retention rate of $\beta_{10} \geq 100$

For a long service life we recommend filtering acc. to NAS 1638 class 8 and filters with a minimum retention rate of $\beta_5 \geq 100$.

Characteristic values according to VDI 3278

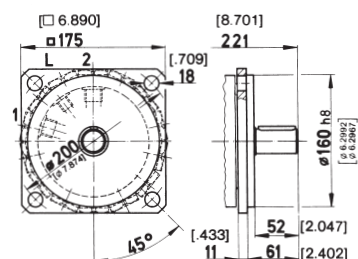
Weight:	[kg]	18,8
Mounting position:	as required	
Direction of rotation, if viewed at the shaft end		
clockwise:	flow from connection 2 to connection 1	
anti-clockwise:	flow from connection 1 to connection 2	
Operating speed range:	[rpm]	5 ÷ 1200
Moment of inertia:	[kgm²]	0,00033
Continuous power:	[kW]	9,5
Intermittent power:	[kW]	11,0

Standard Design



End cover A

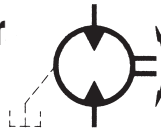
Mounting Flange F ISO 3019/2



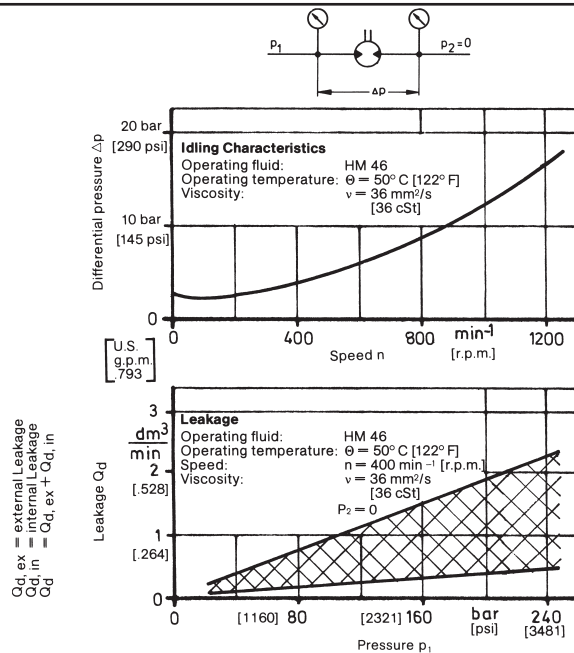
Type number key for radial piston motor KM 63

Motor type	Size	Shaft end	End cover	Seal	Second shaft ¹⁾	Flange	additional specs.
Radial Piston Motor	63	Keyway Z K	Radial ports Valve face Axial ports A A1 B5	NBR Viton V	without Instrument Driving M M10	normal ISO 3019/2 F	

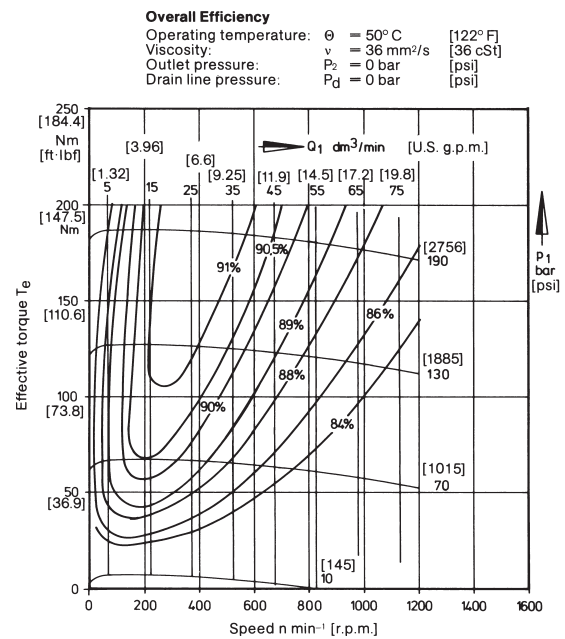
¹⁾ With end cover version B5 a 2nd shaft is not possible.



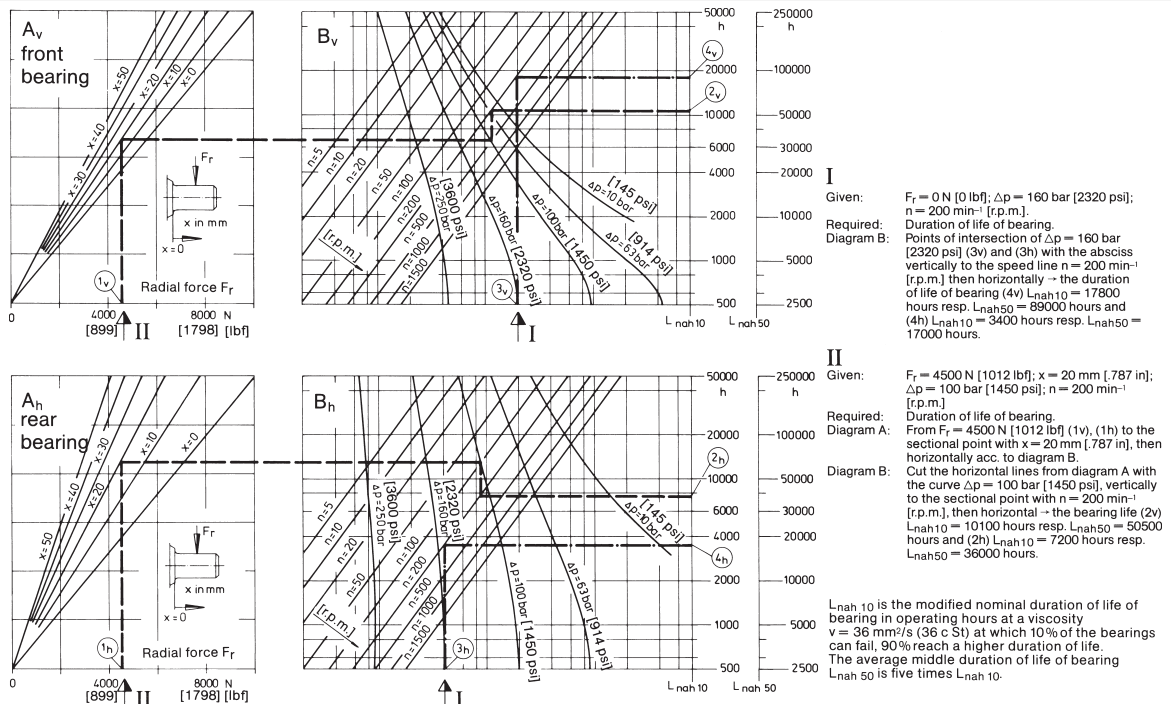
Characteristics



Characteristic performance functions according to ISO



Service life of the roller bearings



Strength of the shaft

Example:
Given values: $F_r = 4500\text{ N}$ [1012 lbf] $x = 20\text{ mm}$ [.787 in]
 $\Delta p = 100\text{ bar}$ [1450 psi]
Required value: Shaft strength
Draw a vertical line from $F_r = 4500\text{ N}$ [1012 lbf] to distance $x = 20\text{ mm}$ [.787 in] and a straight horizontal line from there.
If the intersection ⑤ of the horizontal with the vertical line of $\Delta p = 100\text{ bar}$ [1450 psi] is below curve the shaft has sufficient fatigue strength.
Allowable axial forces will be provided on request.

