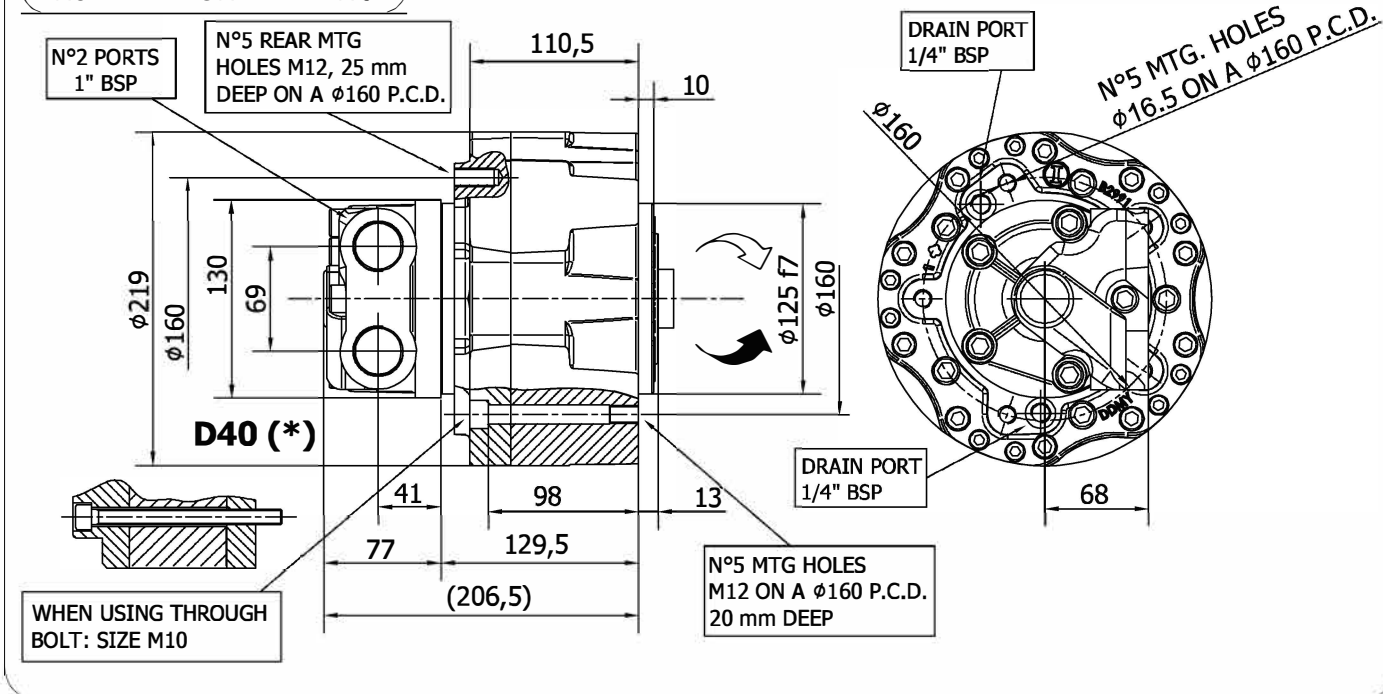


HCD05

INSTALLATION DRAWING



TECHNICAL DATA

		40	60	75	90	110	130	150	175
DISPLACEMENT	[cc]	40	60	74	91	115	129	151	166
SPECIFIC TORQUE	[Nm/bar]	0,62	0,97	1,20	1,40	1,84	2,05	2,40	2,65
MAX. CONT. PRESSURE	[bar]	300	300	300	300	300	300	275	275
HYDROSTATIC TEST PRESSURE	[bar]	450	450	450	450	450	450	420	420
MAX. CONT. SPEED	[rpm]	1500	1400	1400	1300	1300	1300	1200	1200
PEAK SPEED (***)	[rpm]	2000	1900	1900	1600	1600	1600	1500	1500
MAX. CONT. POWER (****)	[kW]	26	37	40	40	40	40	40	40
PEAK POWER	[kW]	52	62	62	62	62	62	62	62
MAX. CASE PRESSURE	[bar]	10	10	10	10	10	10	10	10
DRY WEIGHT	[kg]	30	30	30	30	30	30	30	30
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 82-83) for different distributor interfaces.

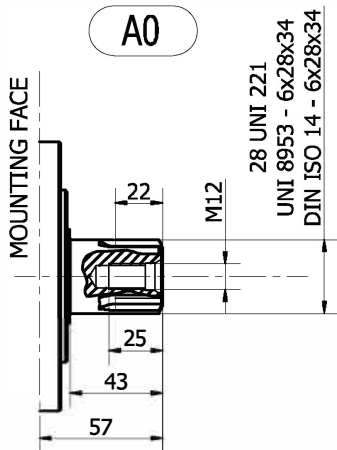
- (**) Please refer to the hydraulic fluid recommendations (pag. 8-9).

- (***) Do not exceed maximum continuous power with flushing (pag. 11).

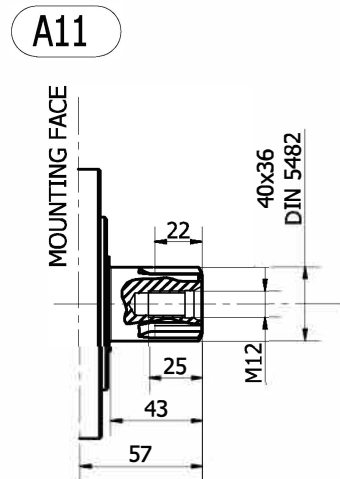
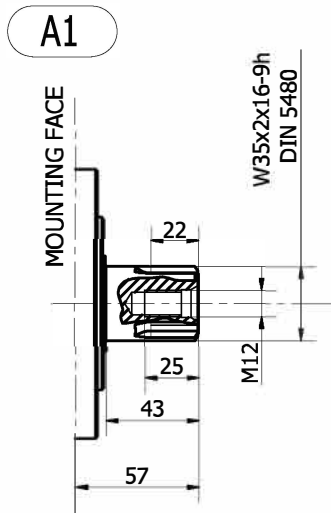
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

SHAFTS - HCD05

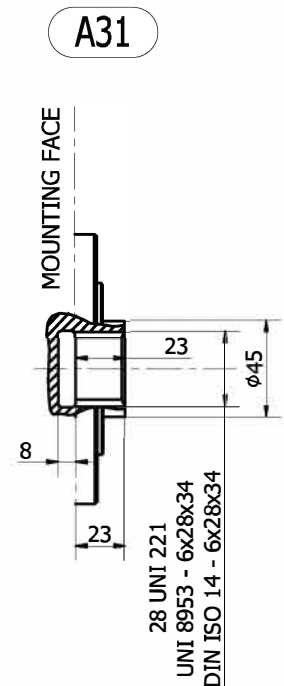
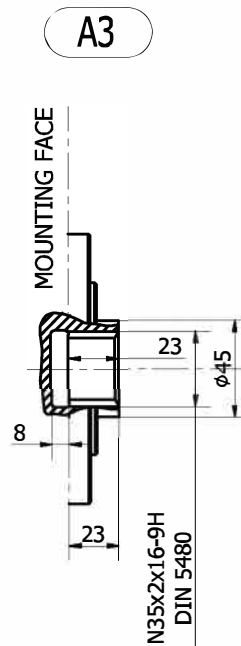
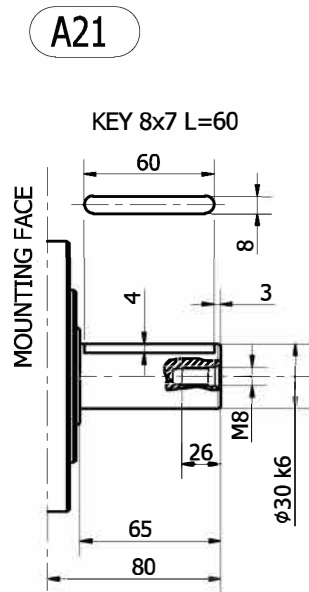
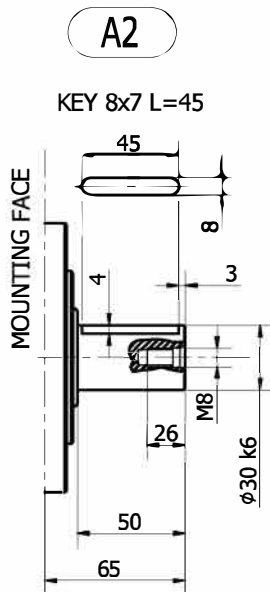
SHAFT CONFIGURATIONS



Available spline billet: **SB14**

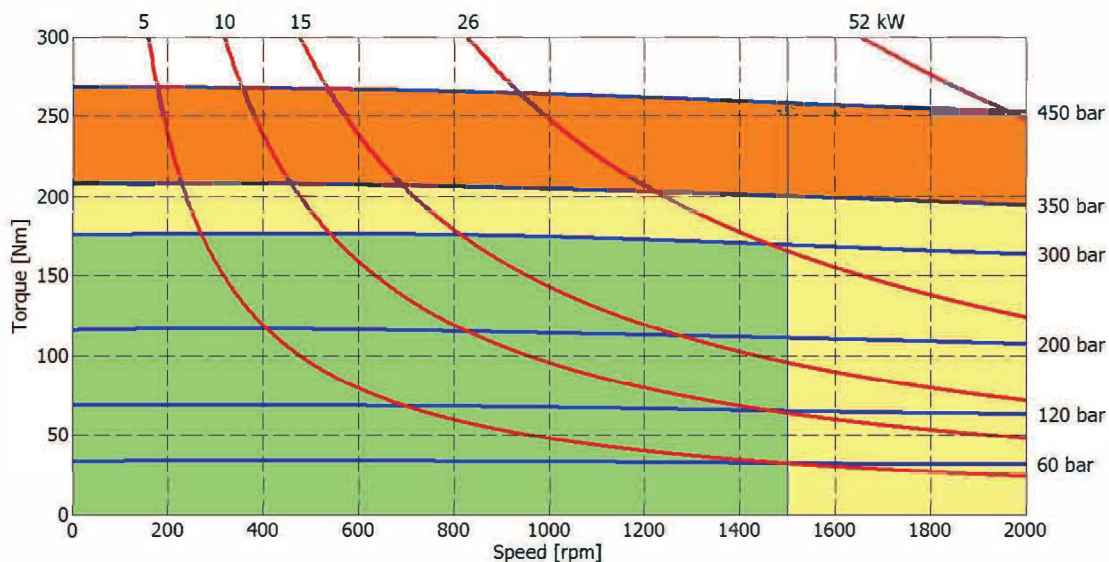


Available spline billet: **SB13**

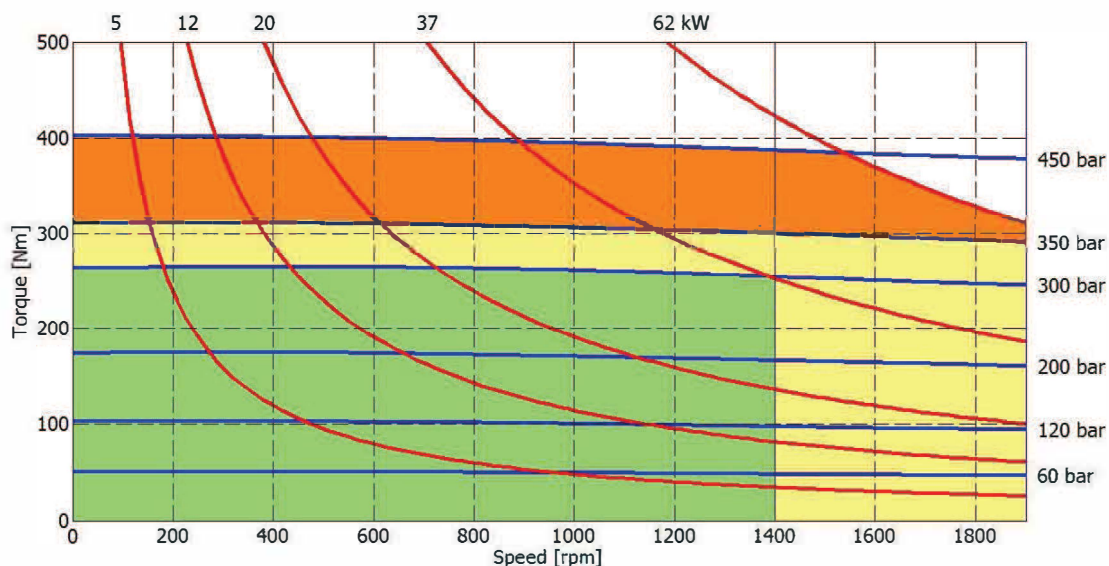


HCD05- PERFORMANCE DIAGRAMS

40 cc



60 cc

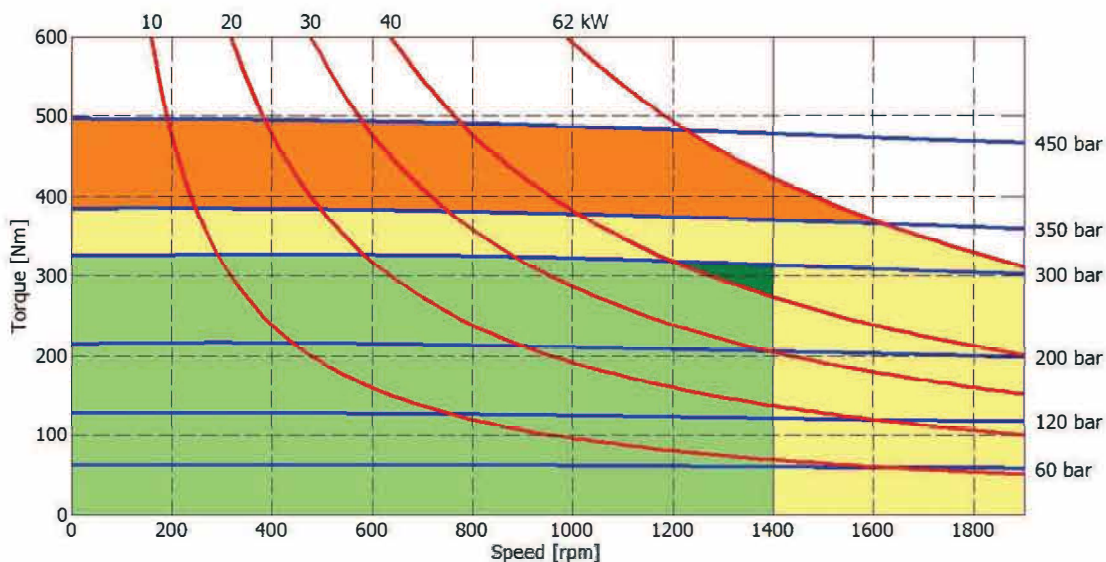


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

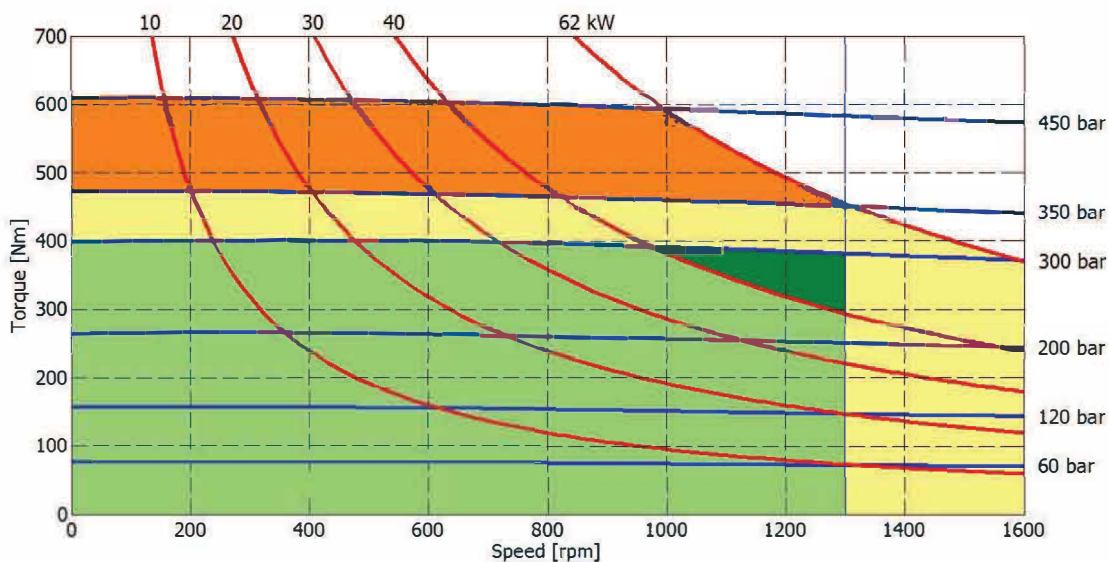
The above diagrams are referring to the hydraulic motor working with a fluid in ideal conditions (viscosity at 40 cSt). In case the working temperature increases and viscosity reach values under the recommended values (see hydraulic fluid recommendations) flushing must be performed or ISO oil grade must be changed. The working temperature must not overcome 70 °C.

HCD05- PERFORMANCE DIAGRAMS

75 cc



90 cc

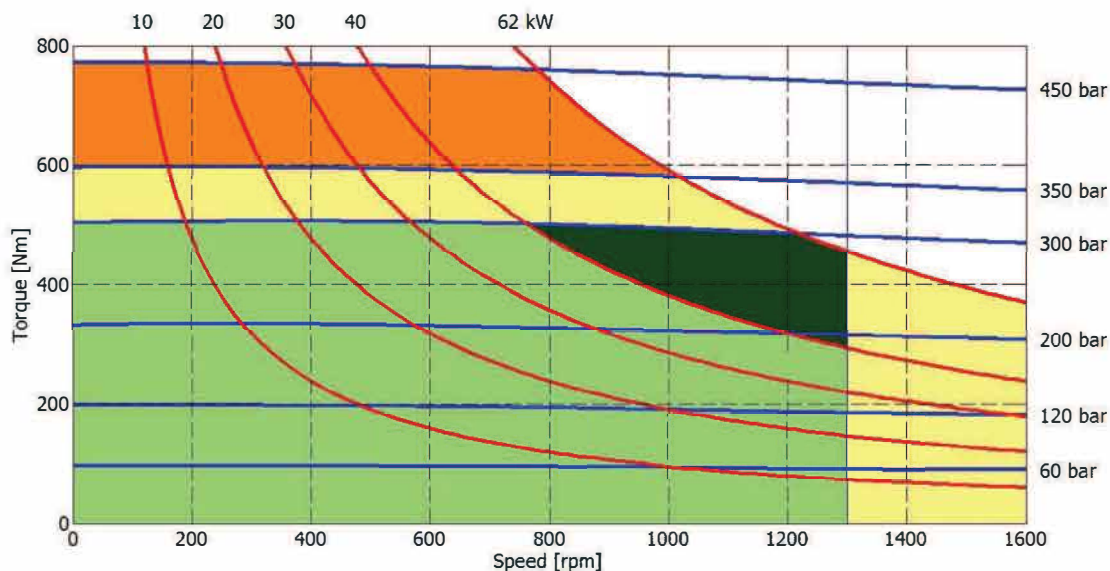


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

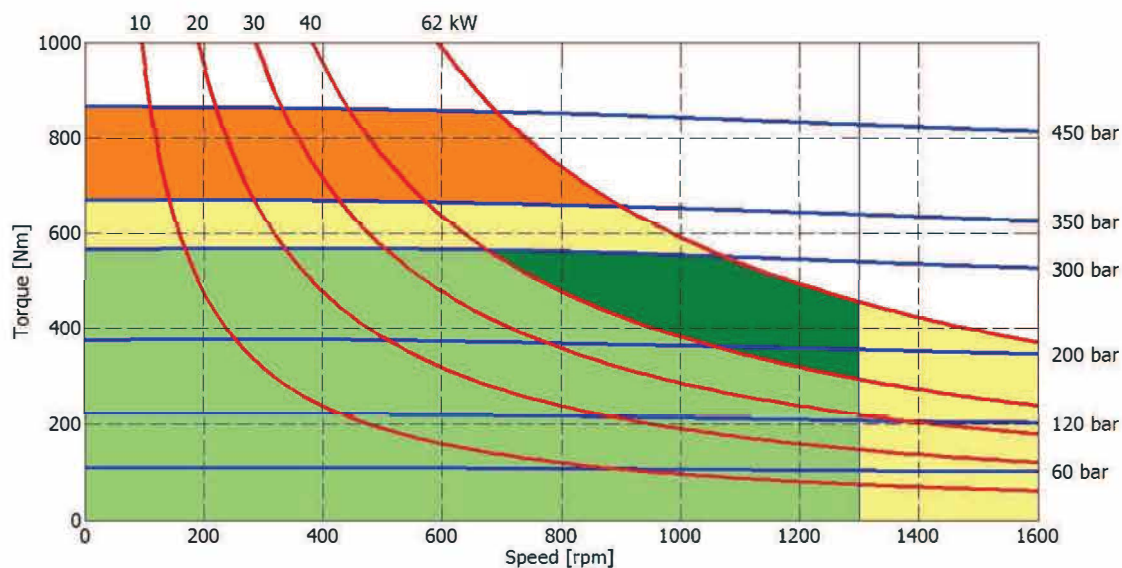
The above diagrams are referring to the hydraulic motor working with a fluid in ideal conditions (viscosity at 40 cSt). In case the working temperature increases and viscosity reach values under the recommended values (see hydraulic fluid recommendations) flushing must be performed or ISO oil grade must be changed. The working temperature must not overcome 70 °C.

HCD05- PERFORMANCE DIAGRAMS

110 cc



130 cc

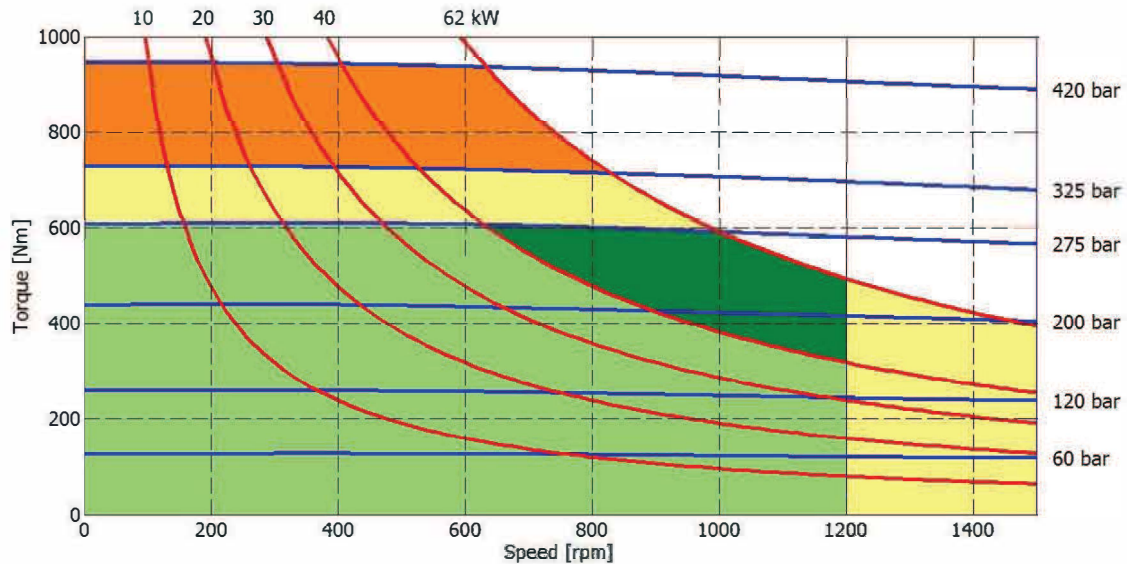


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

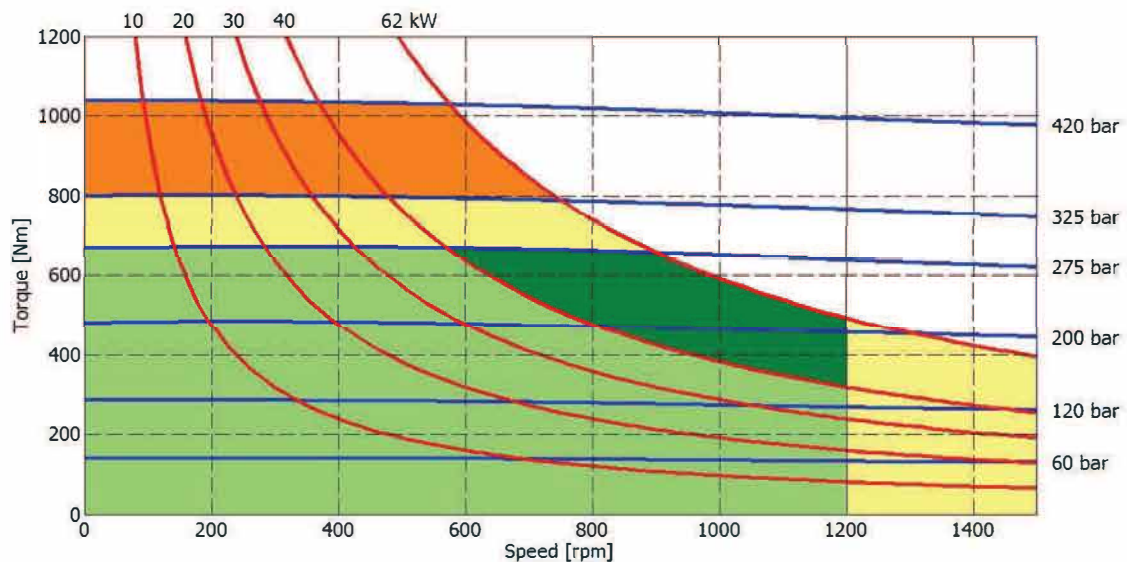
The above diagrams are referring to the hydraulic motor working with a fluid in ideal conditions (viscosity at 40 cSt). In case the working temperature increases and viscosity reach values under the recommended values (see hydraulic fluid recommendations) flushing must be performed or ISO oil grade must be changed. The working temperature must not overcome 70 °C.

HCD05- PERFORMANCE DIAGRAMS

150 cc



175 cc

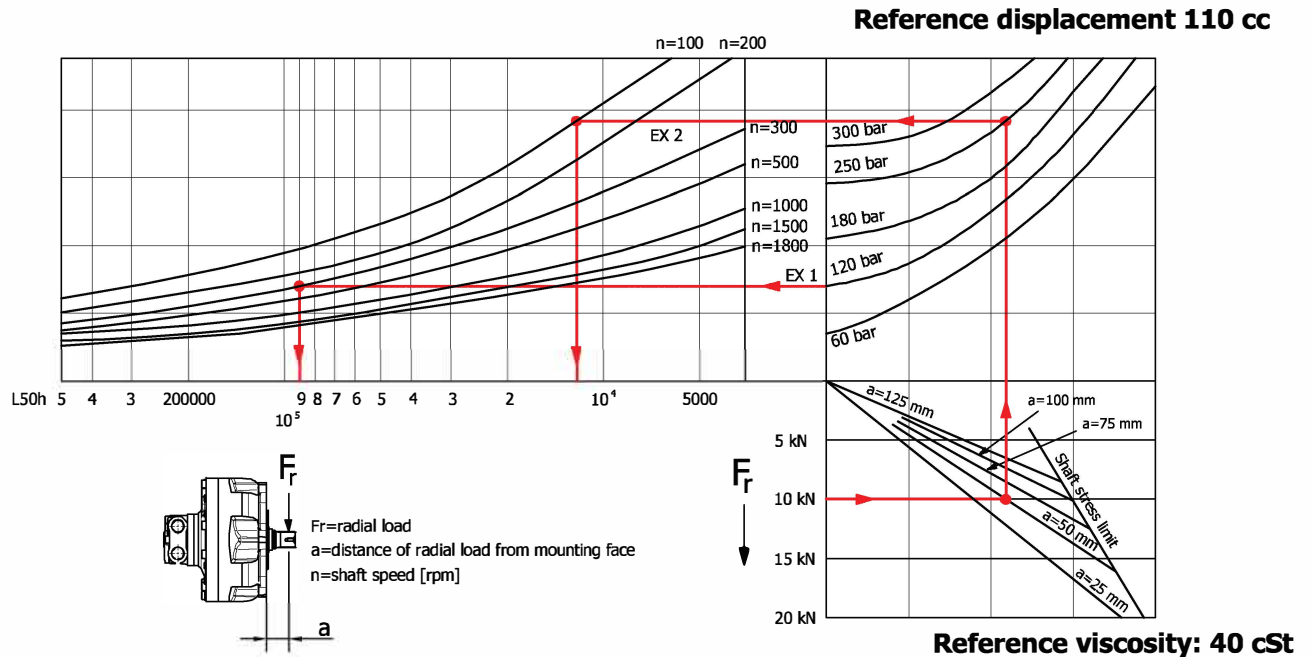


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

The above diagrams are referring to the hydraulic motor working with a fluid in ideal conditions (viscosity at 40 cSt). In case the working temperature increases and viscosity reach values under the recommended values (see hydraulic fluid recommendations) flushing must be performed or ISO oil grade must be changed. The working temperature must not overcome 70 °C.

HCD05 - PERFORMANCE DIAGRAMS

BEARING LIFE

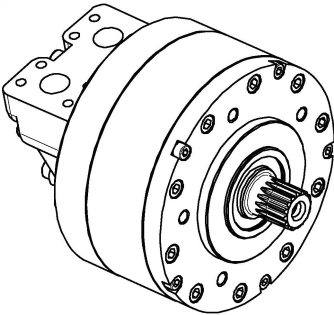


Example:

We suppose (EX1): $p=120$ [bar], $n=300$ [rpm]; we obtain an average lifetime of 90000 [h].

If we suppose (EX2): $F_r=10$ [kN], $a=50$ [mm], $n=100$ [rpm] and $p=250$ [bar] we obtain an average lifetime of 11000 [h].

HCD05 - ORDERING CODE

HCD	05	---	--	--	--	--	SB -
		DISPLACEMENT		TACHOMETER		SPECIAL FEATURES	
		40 60 75 90 110 130 150 175	J (*) TA TB TT1 TQ1 EST EST30 EST31 See pag. 84-87 (*) Tachometer predisposition		HSM See pag. 7 MP SPSL HPS CCW See pag. 23 Z -- Italgroup internal code		
		SHAFT				SPLINE BILLET	
		A0 A1 A11 A2 A21 A3 A31				SB13 SB14 See pag. 88	
		DISTRIBUTOR					
		D31B D36B D310B D40 D47 D416 See pag. 82-83					