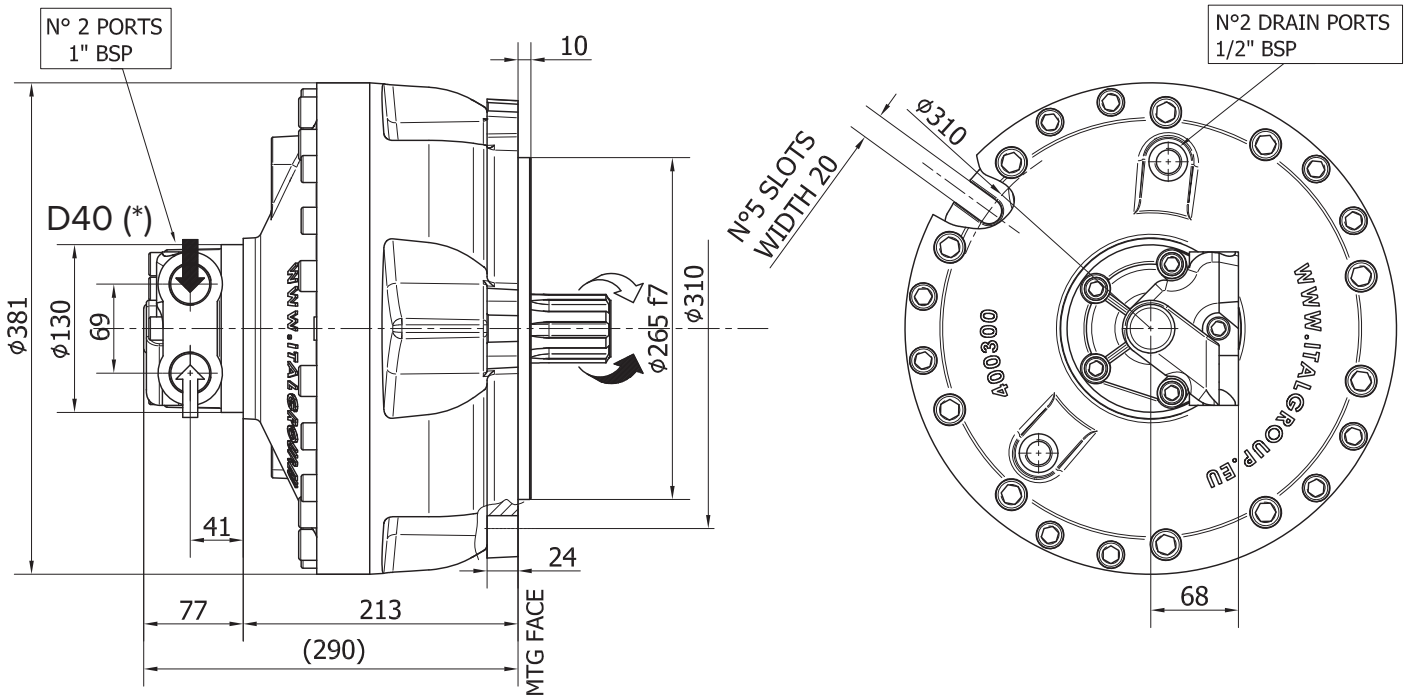
HC3

HC3 350-400-500-600-700-800-900-1000	Pag. 64 - 65
HC3 - PERFORMANCE CURVES	Pag. 66 - 70
HC3 - ORDERING CODE	Pag. 71

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HC3



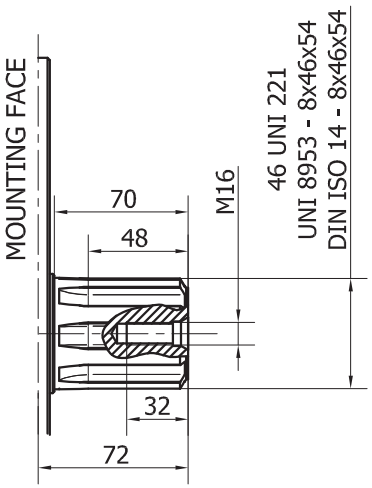
TECHNICAL DATA

		350	400	500	600	700	800	900	1000
DISPLACEMENT	[cc]	352	426	486	595	689	792	872	988
SPECIFIC TORQUE	[Nm/bar]	5,60	6,78	7,73	9,47	11	12,6	13,9	15,7
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	640	600	500	450	420	400	360	310
PEAK SPEED (***)	[rpm]	800	800	700	600	600	550	525	500
MAX. CONT. POWER (****)	[kW]	82	85	85	85	85	85	85	85
MAX. POWER	[kW]	130	130	130	130	130	130	130	130
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92	92	92
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. 94-101) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) 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.

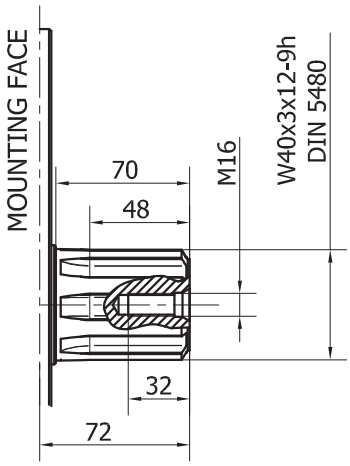
SHAFTS

A0



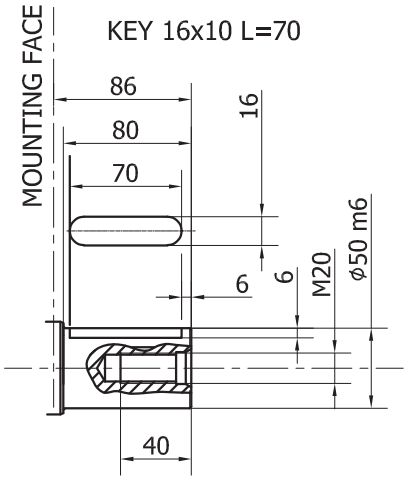
Available spline billet: SB5

A1

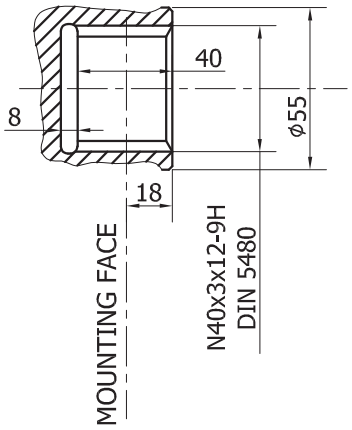


Available spline billet: SB22

A2

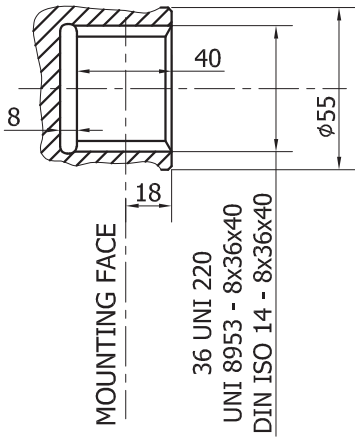


A3



Available spline bar: B8076

A31

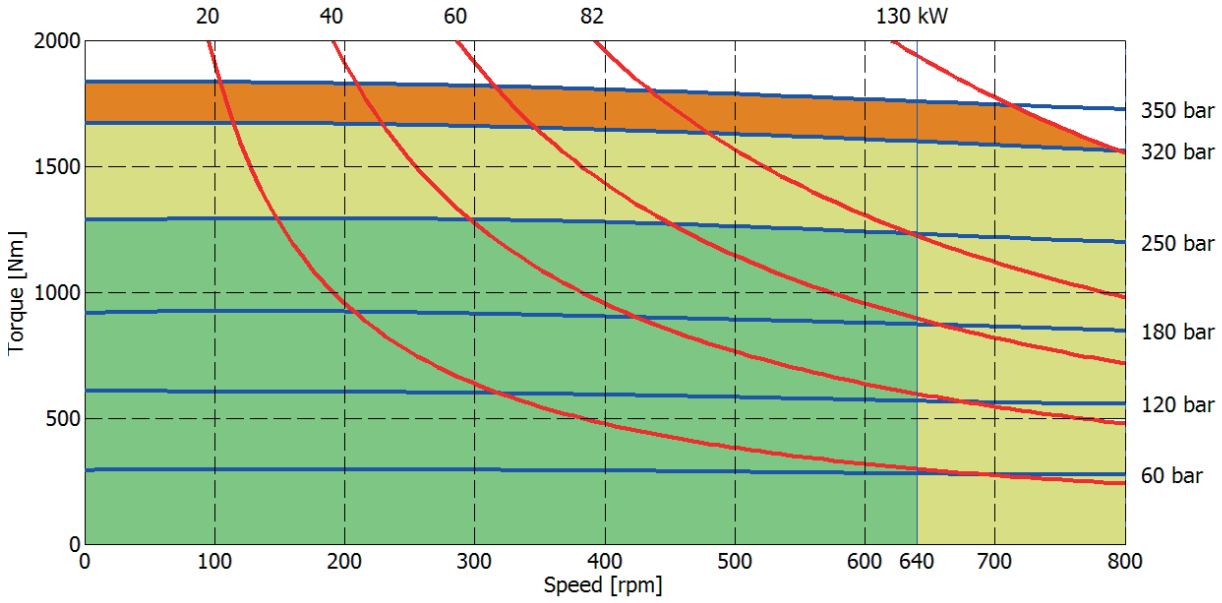


Available spline bar: B8078

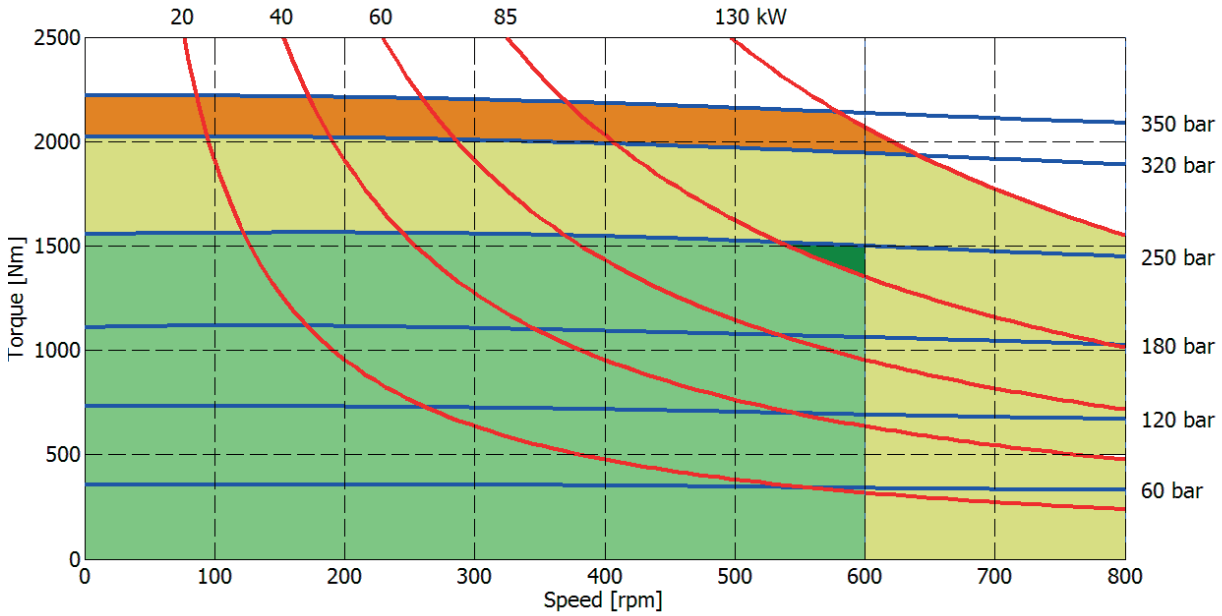
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HC3 - PERFORMANCE CURVES

HC3 350



HC3 400



Continuous operation

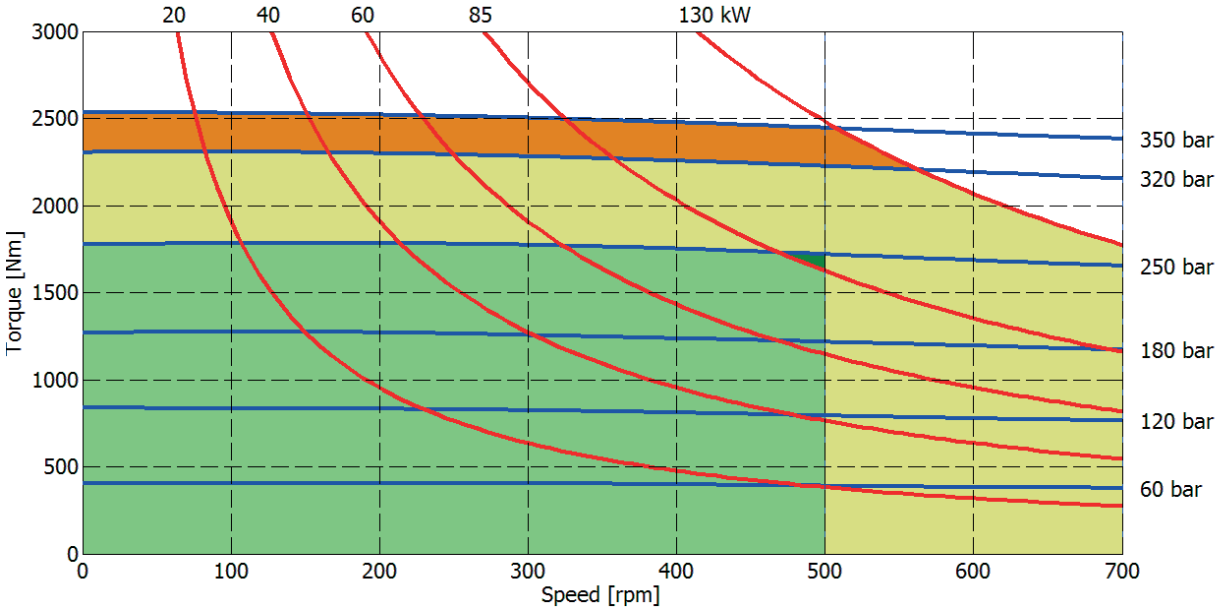
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period

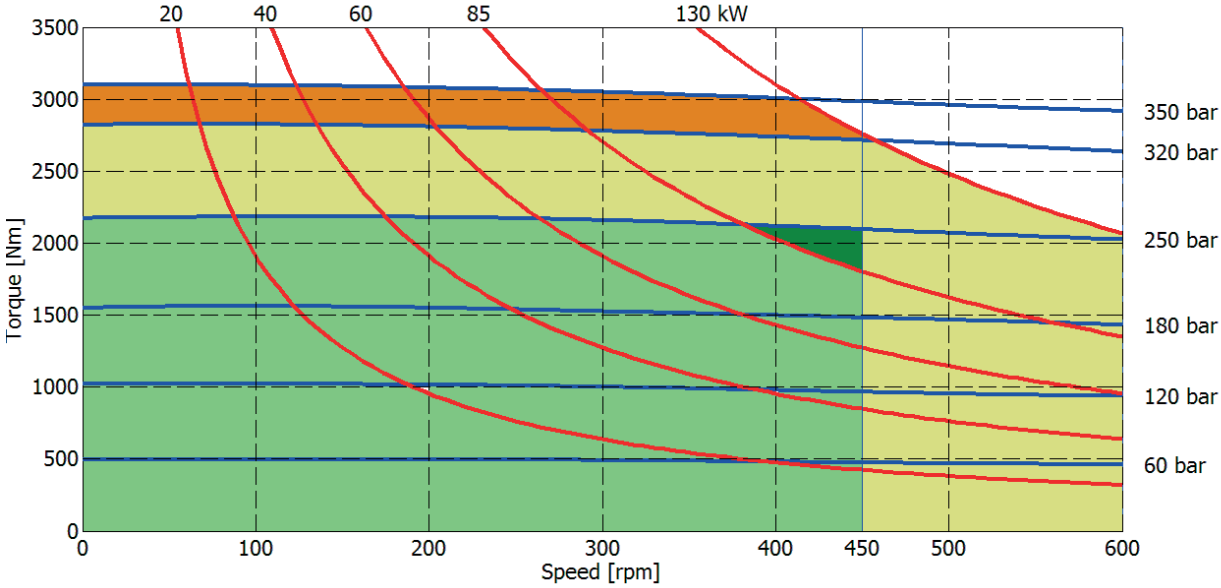
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

HC3 500



HC3 600



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

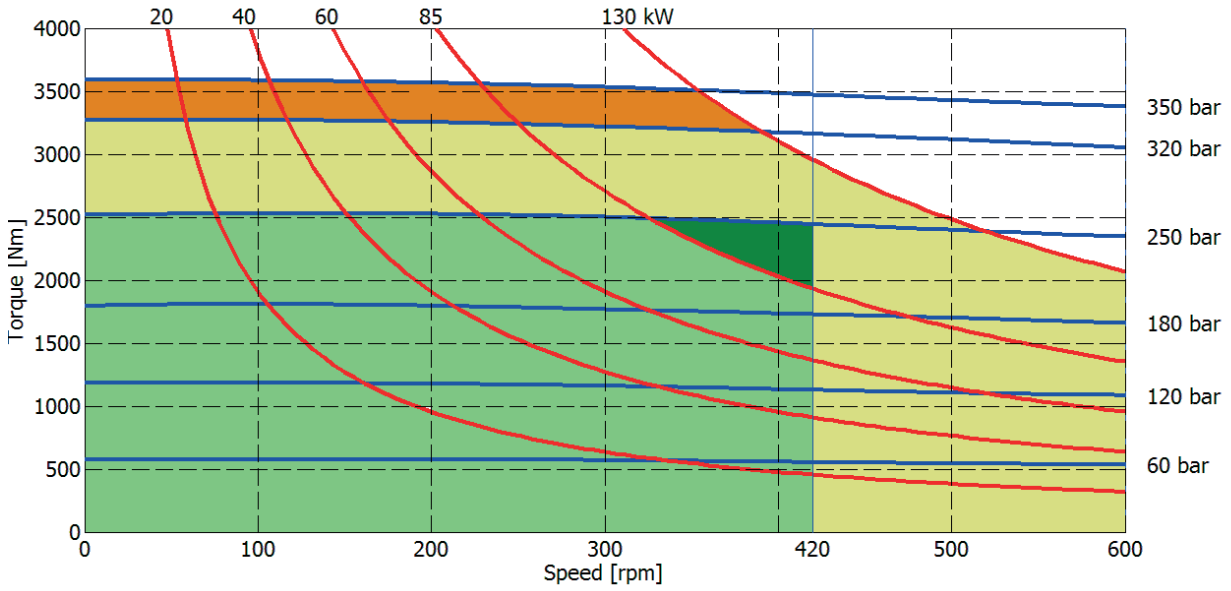
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

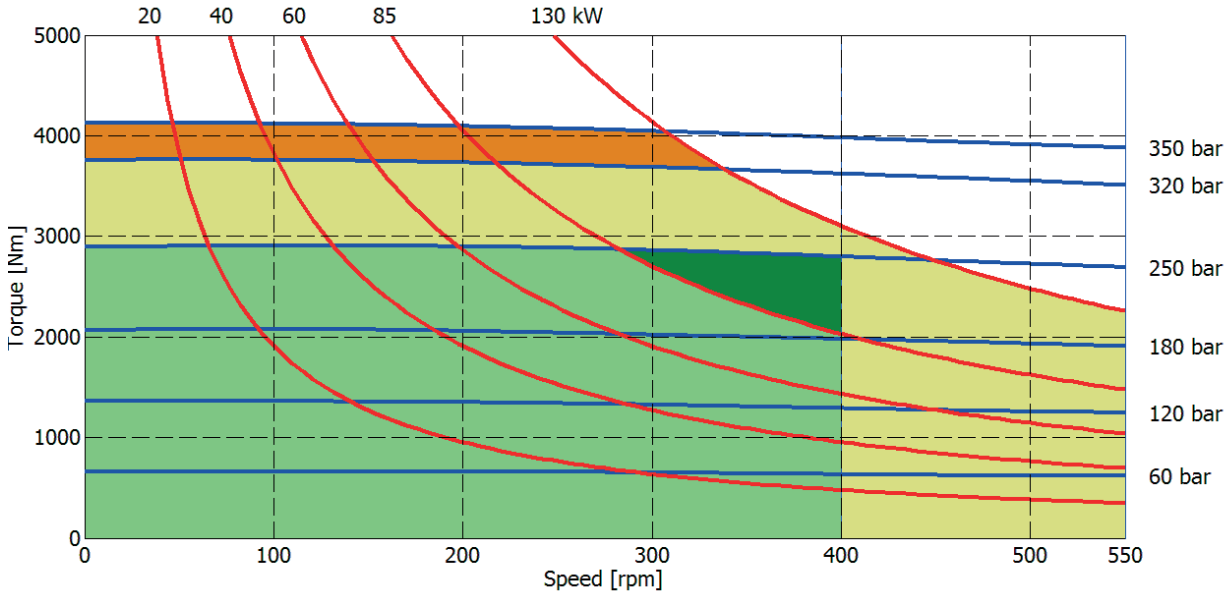
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HC3 - PERFORMANCE CURVES

HC3 700



HC3 800



Continuous operation

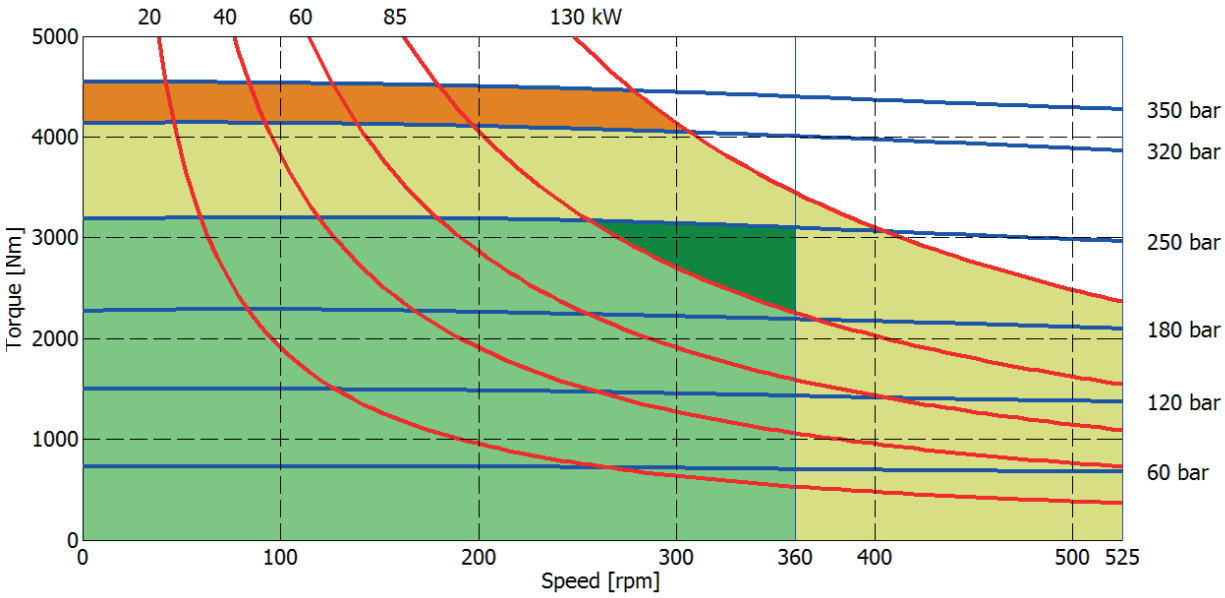
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period

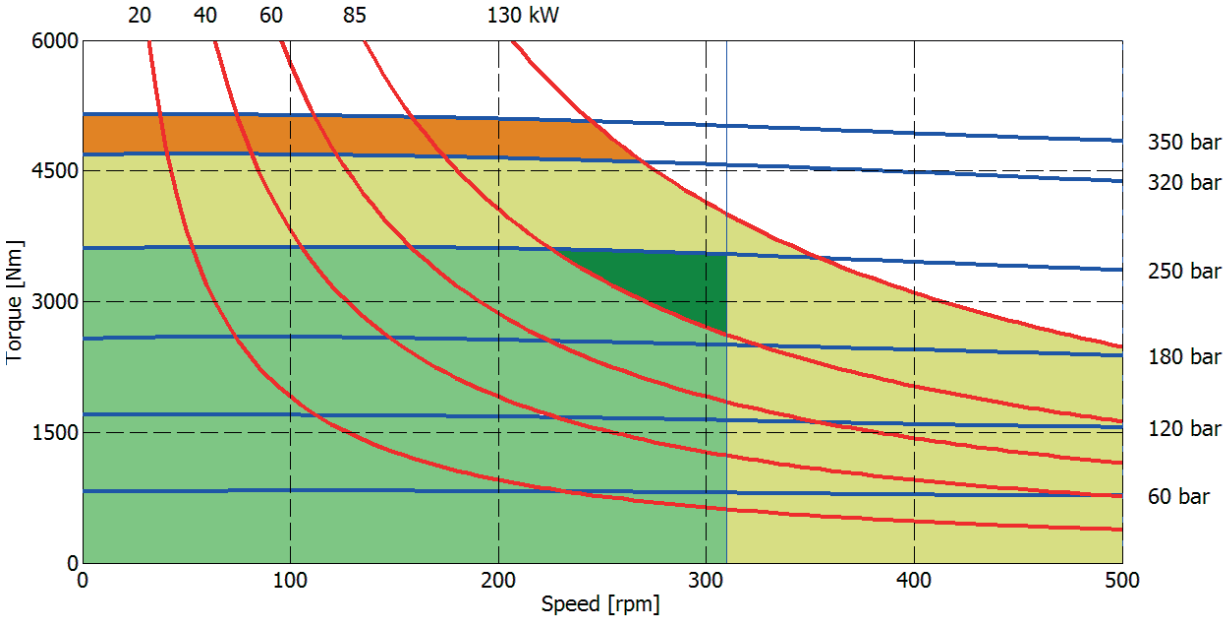
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

HC3 900



HC3 1000



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)

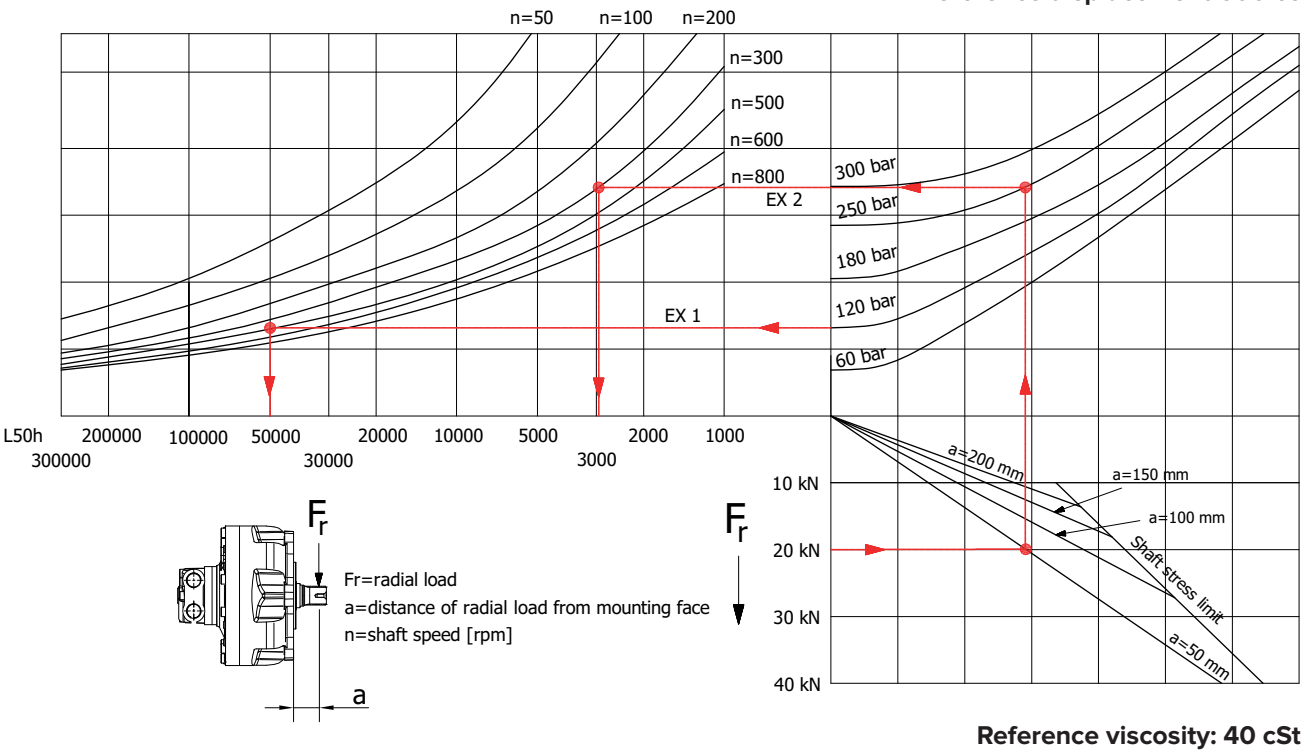
The above diagrams are referring to the hydraulic motor working with a fluid in ideal conditions (viscosity at 40 cSt). In case the working temperature increases and viscosity reach values under the recommended values (see hydraulic fluid recommendations) flushing must be performed or ISO oil grade must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

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HC3 - PERFORMANCE CURVES

BEARING LIFE

Reference displacement 600 cc



Reference viscosity: 40 cSt

Example:

We suppose (EX1): p=120 [bar], n=500 [rpm]; we obtain an average lifetime of 50000 [h].
If we suppose (EX2): F_r=20 [kN], a=50 [mm], n=300 [rpm] and p=250 [bar] we obtain an average lifetime of 2900 [h].

The above data are referring to the HC3 series motors, displacement 600 cc.

HC3 - ORDERING CODE

HC3 - - - - - - - - - - - - - - SB -

DISPLACEMENT

350
400
500
600
700
800
900
1000

INTERCHANGEABILITY

/G2 (*)
/G4 (*)
/B30 (*)

SHAFT

A0 A1
A2 A3
A31

DISTRIBUTOR

D31B D36B
D310B D316B
D40 D47
D471 D416
D417 D417-RV
D418 D48-RV
D90

See pag. 94-101

TACHOMETER

TA
TB
TT1
TQ1
EST
EST30
EST31
EST33
J

See pag. 102-106

SPECIAL FEATURES

MP
SPSL
HPS
CCW
ND

See pag. 23

Z - -
Italgroup internal code

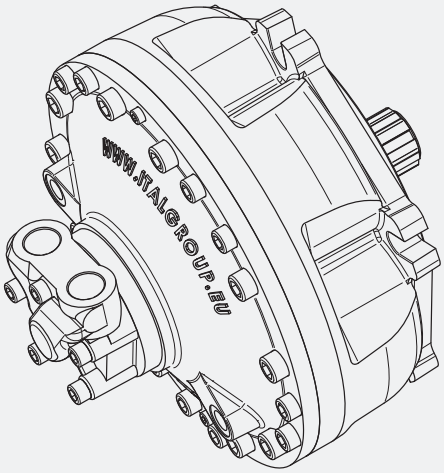
SPLINE BILLET

SB5
SB22

SPLINE BAR

B8076
B8078

See pag. 107-108



(*) For more information (drawings/technical data) please contact Italgroup S.r.l.

EXAMPLES:

HC3 800 A0 D31B SB5
HC3 1000 A3 D90
HC3 500 A2 D47 TT1 MP

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