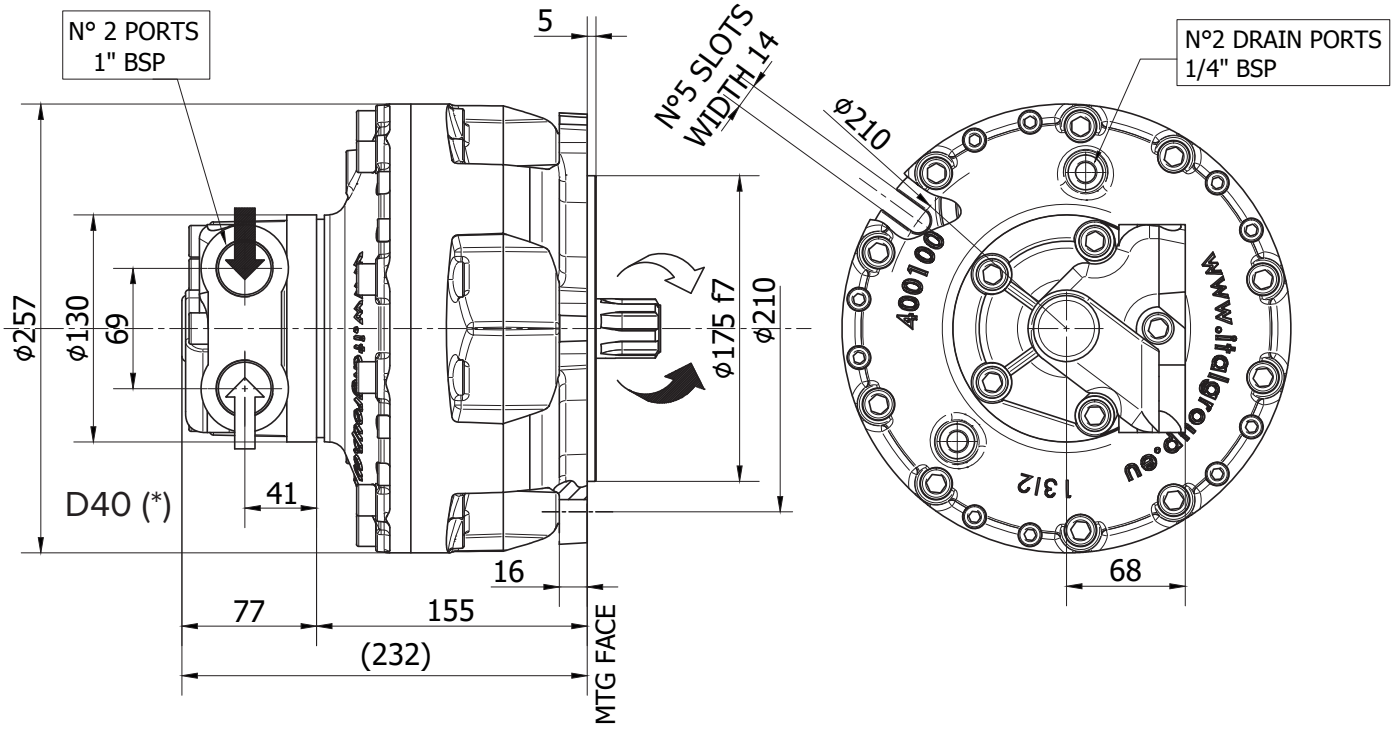
HC1

HC1 100-130-150-175-200-220-250-300-330	Pag. 40 - 41
HC1 - PERFORMANCE CURVES	Pag. 42 - 47
HC1 - ORDERING CODE	Pag. 48

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HC1



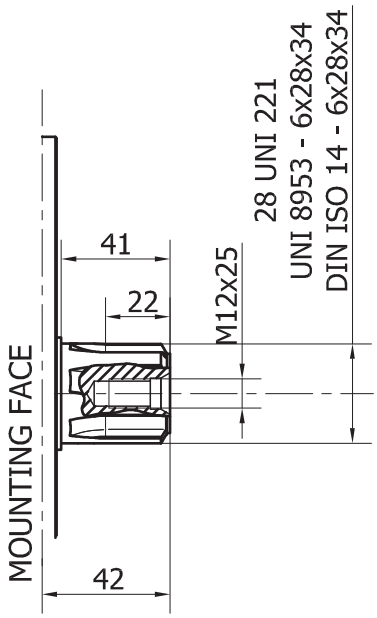
TECHNICAL DATA

		100	125	150	175	200	220	250	300	330
DISPLACEMENT	[cc]	98	128	154	173	200	221	243	289	315
SPECIFIC TORQUE	[Nm/bar]	1,57	2,05	2,45	2,74	3,2	3,52	3,88	4,61	5,01
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	1100	900	700	700	600	600	600	550	450
PEAK SPEED (***)	[rpm]	1250	1100	1000	1000	900	800	800	700	650
MAX. CONT. POWER (****)	[kW]	40	40	40	45	45	48	50	50	50
MAX. POWER	[kW]	60	60	60	75	75	75	75	75	75
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	35	35	35	35	35	35	35	35	35
TEMPERATURE RANGE (**)	[°C]	-30÷70	-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.

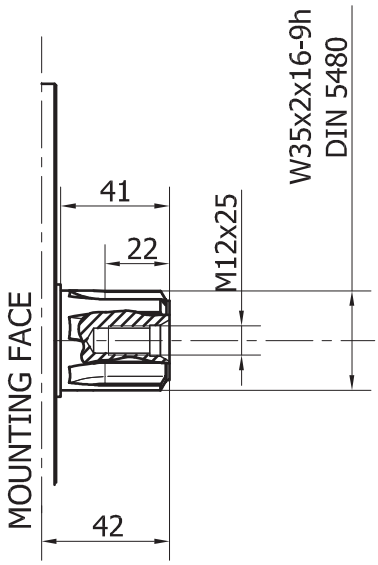
SHAFTS

A0



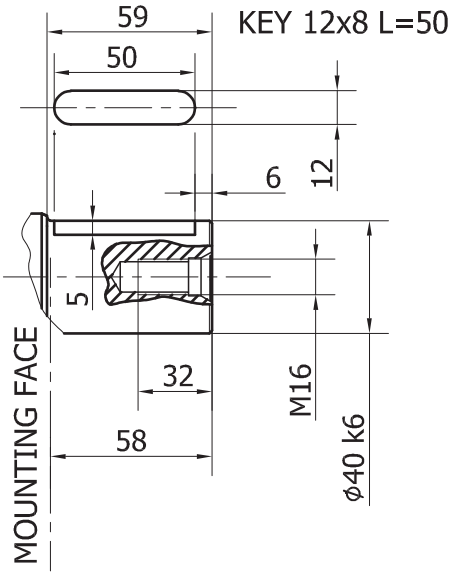
Available spline billet: SB14

A1

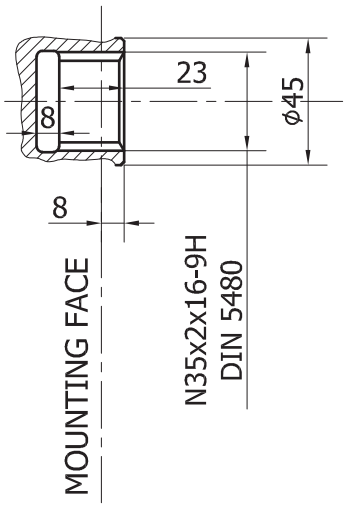


Available spline billet: SB32

A2

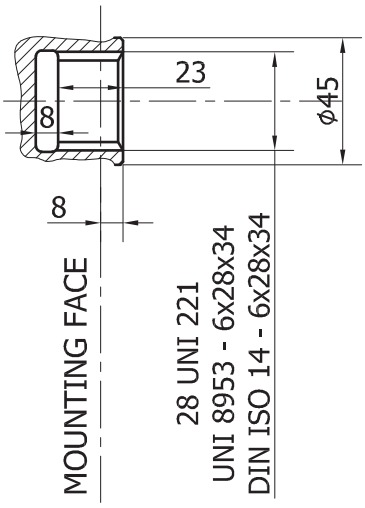


A3



Available spline bar: B8075

A31

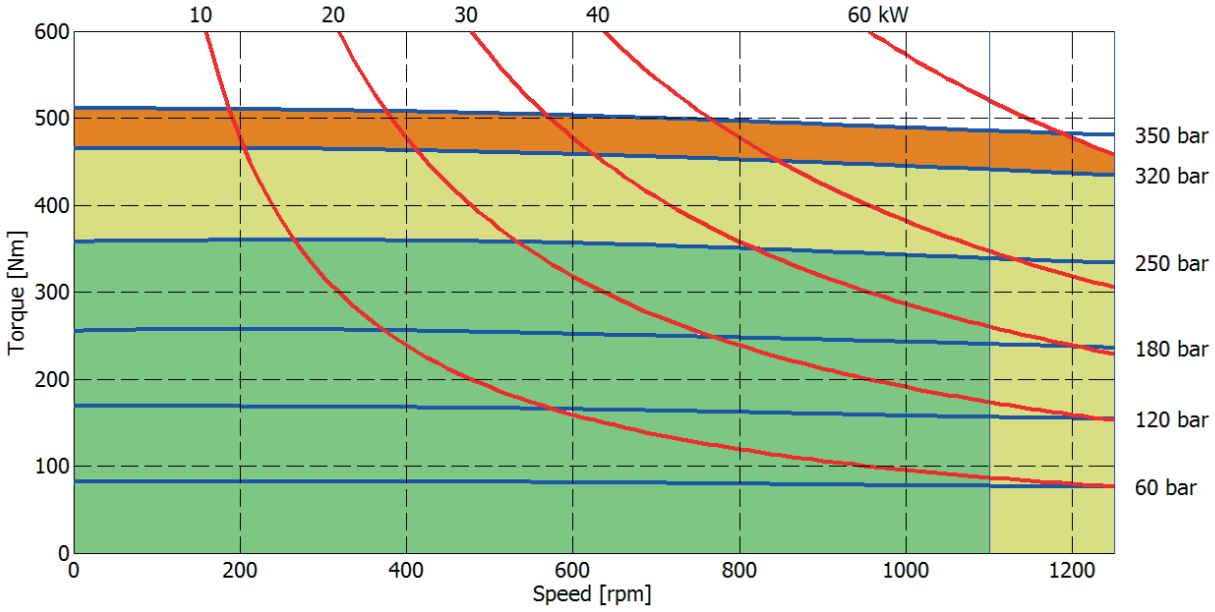


Available spline bar: B8077

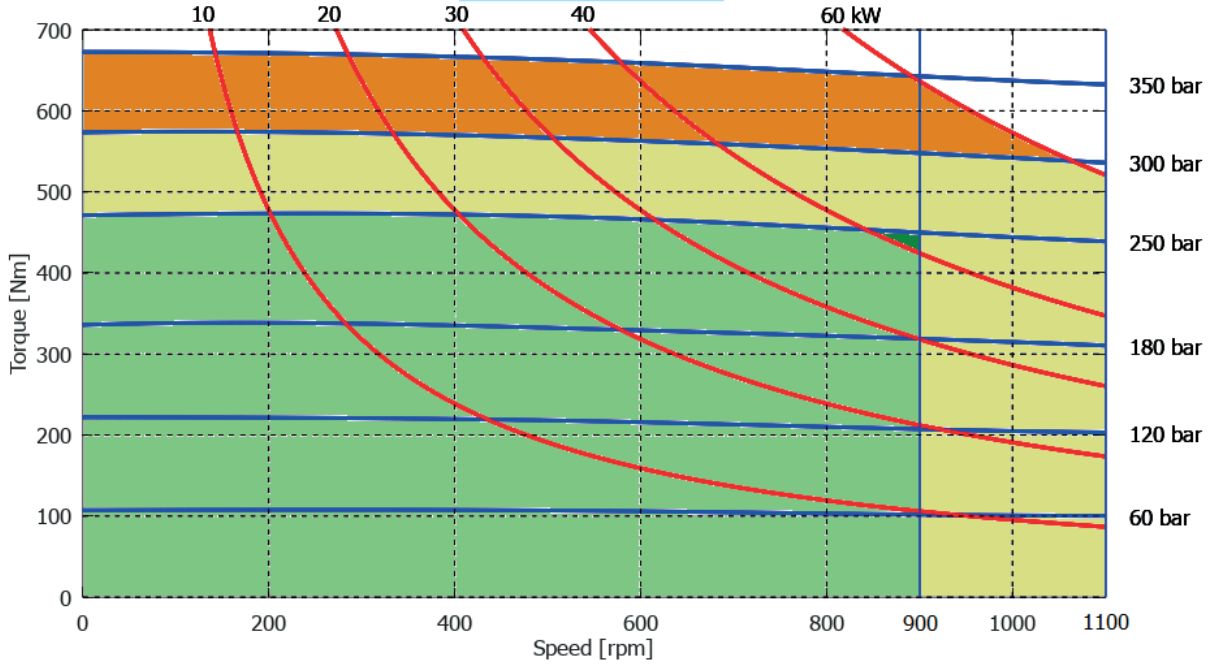
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HC1 - PERFORMANCE CURVES

HC1 100



HC1 125



Continuous operation

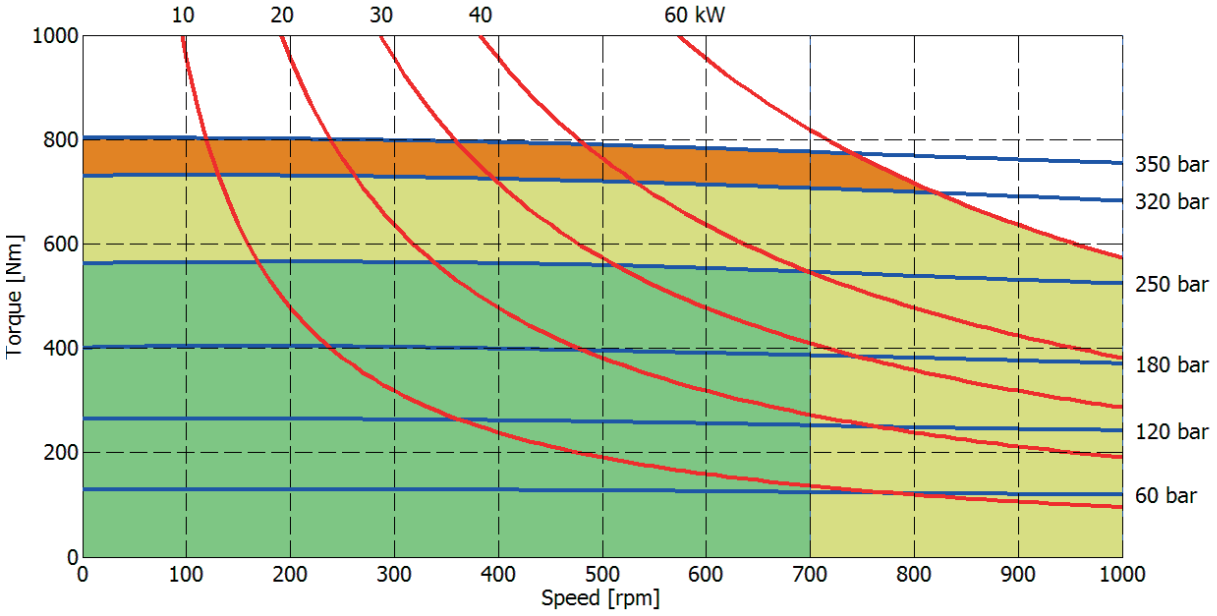
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

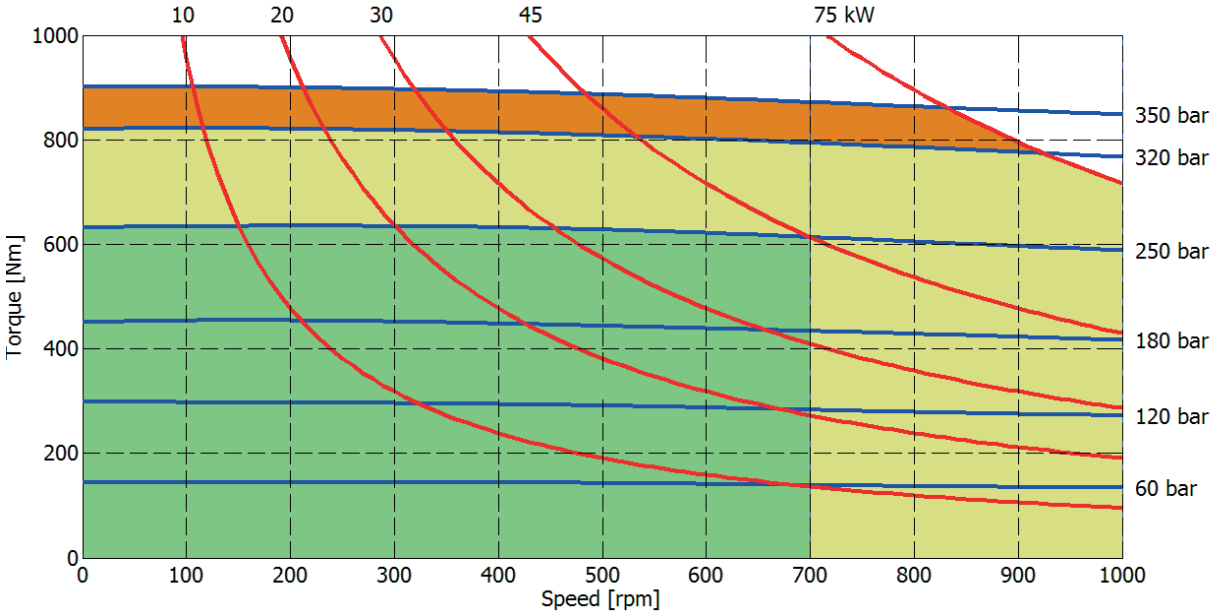
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

HC1 150



HC1 175



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

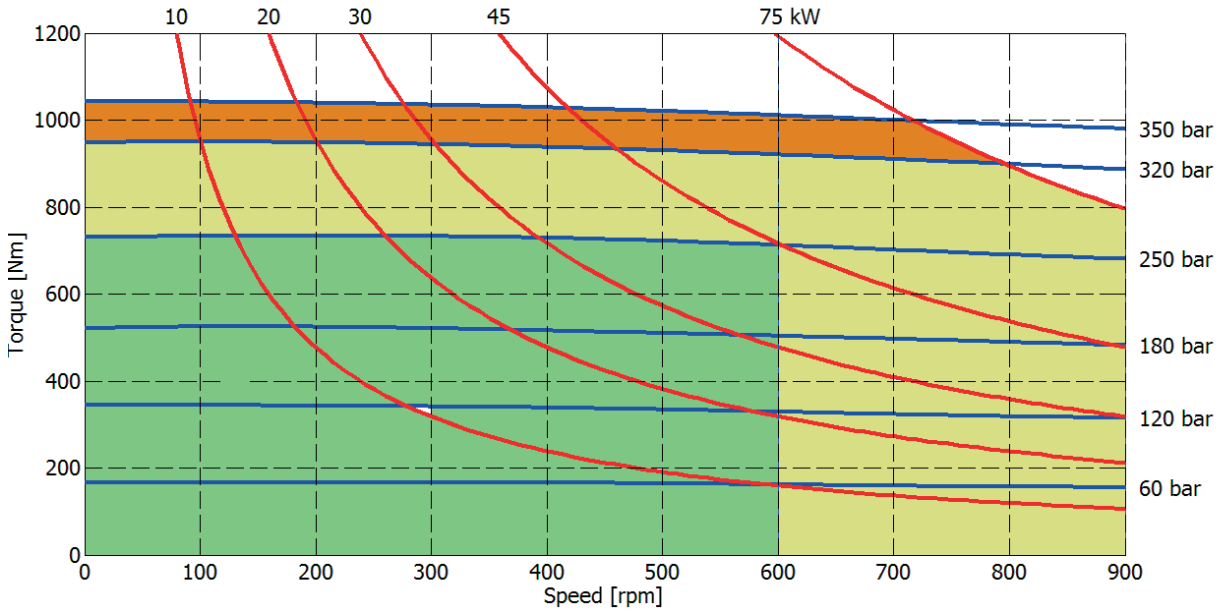
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

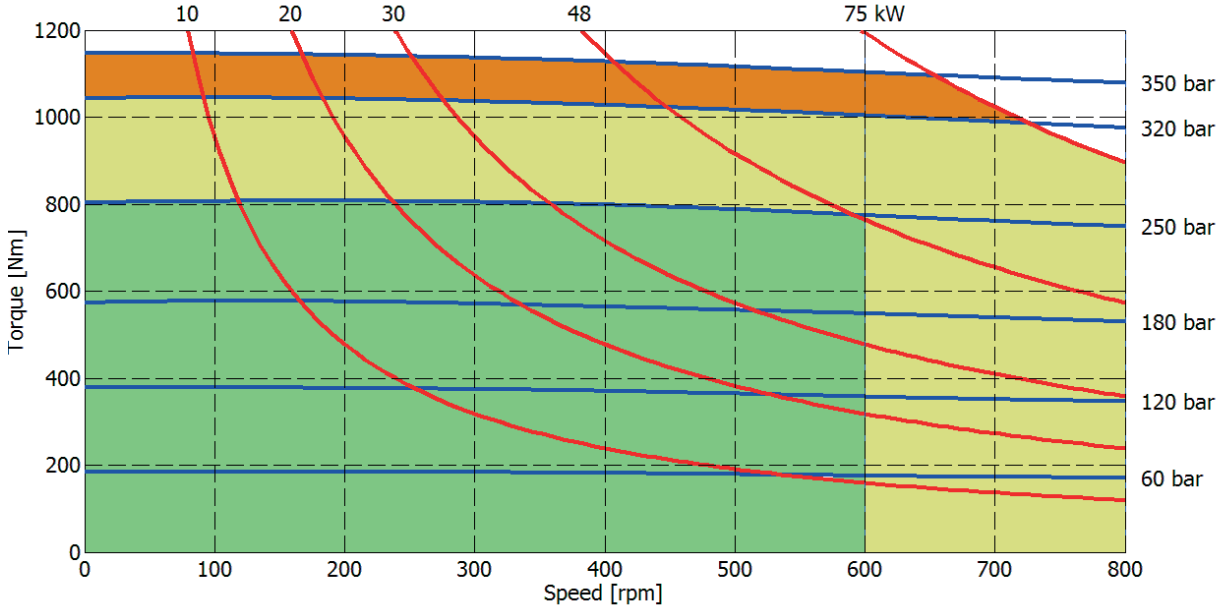
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HC1 - PERFORMANCE CURVES

HC1 200



HC1 220



Continuous operation

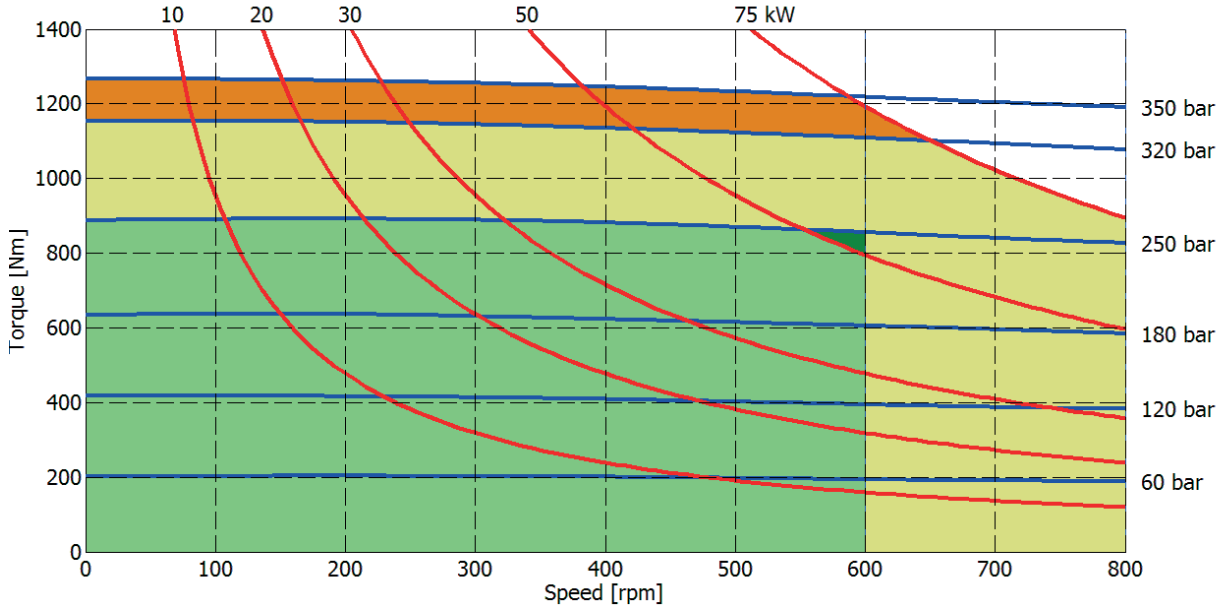
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

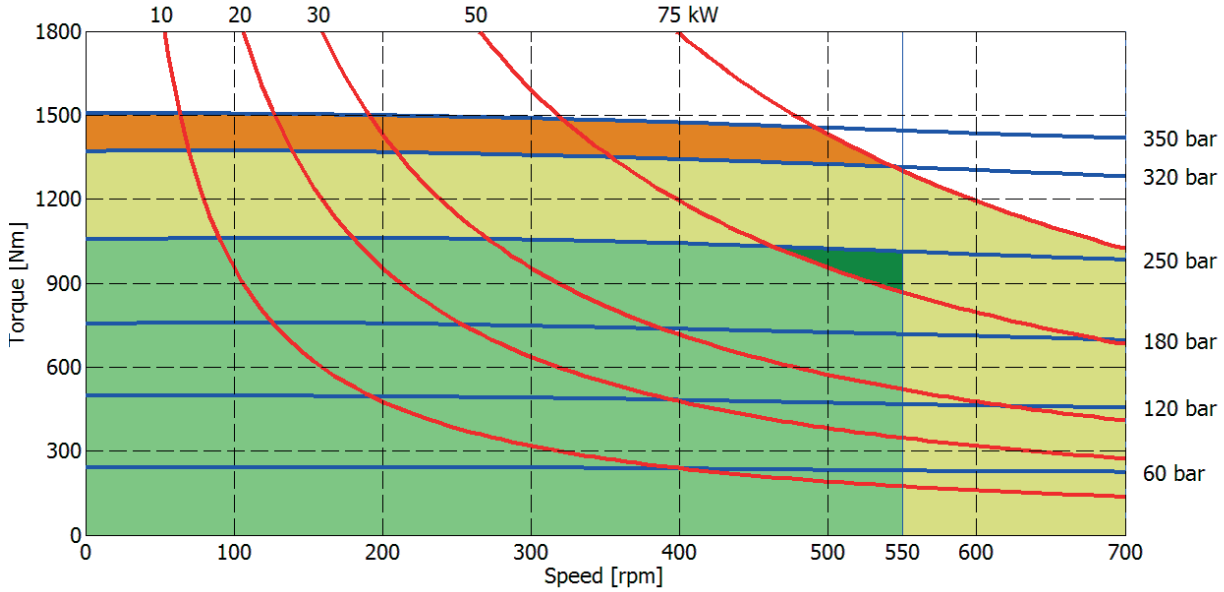
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

HC1 250



HC1 300



Continuous operation

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

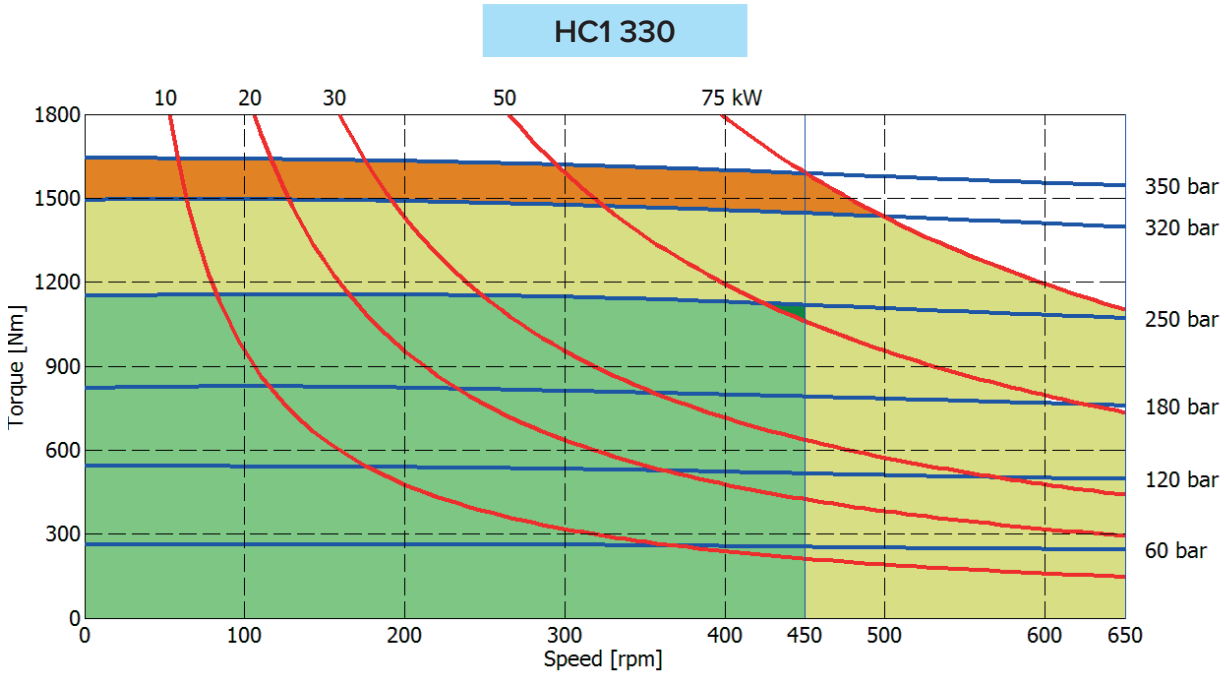
Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period

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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HC1 - PERFORMANCE CURVES



Continuous operation

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

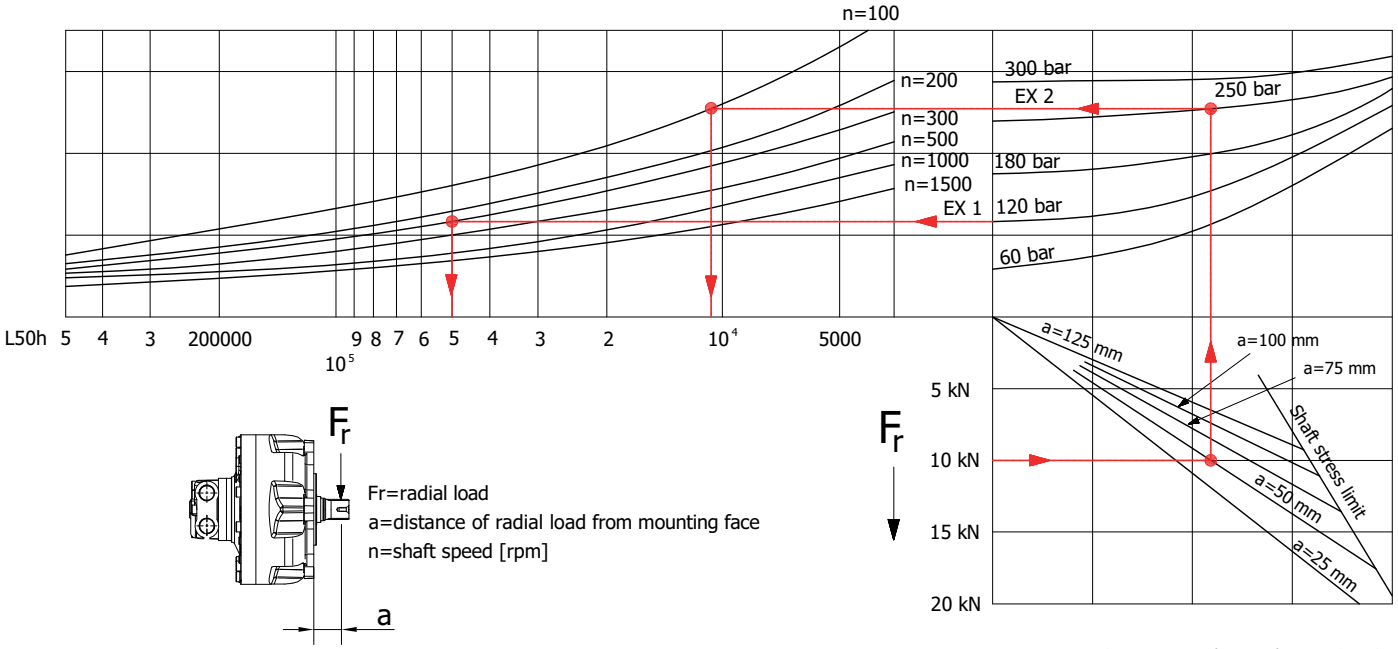
Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period

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.

BEARING LIFE

Reference displacement 200 cc



Reference viscosity: 40 cSt

Example:

We suppose (EX1): p=120 [bar], n=300 [rpm]; we obtain an average lifetime of 50000 [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 10500 [h].

The above data are referring to the HC1 series motors, displacement 200 cc.

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HC1 - ORDERING CODE

HC1 - - - - - - - - - - - - SB -

DISPLACEMENT
- 100
- 125
- 150
- 175
- 200
- 220
- 250
- 300
- 330

INTERCHANGEABILITY
- /C190 (*)

SHAFT
- A0
- A1
- A2
- A3
- A31

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

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 - -

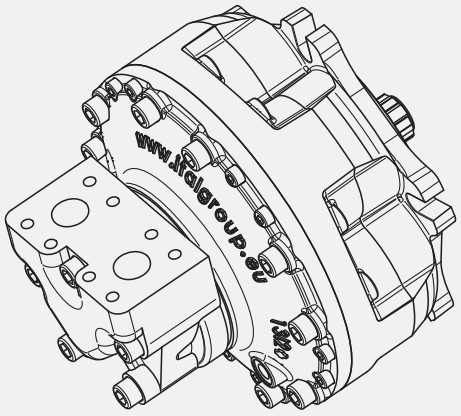
Italgroup internal code

SPLINE BILLET
- SB14
- SB32

SPLINE BAR
- B8075
- B8077

See pag. 107-108

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



EXAMPLES:

HC1 175 A0 D40 SB14
HC1 200 A3 D47 J
HC1 300 A31 D36B MP CCW