HC05

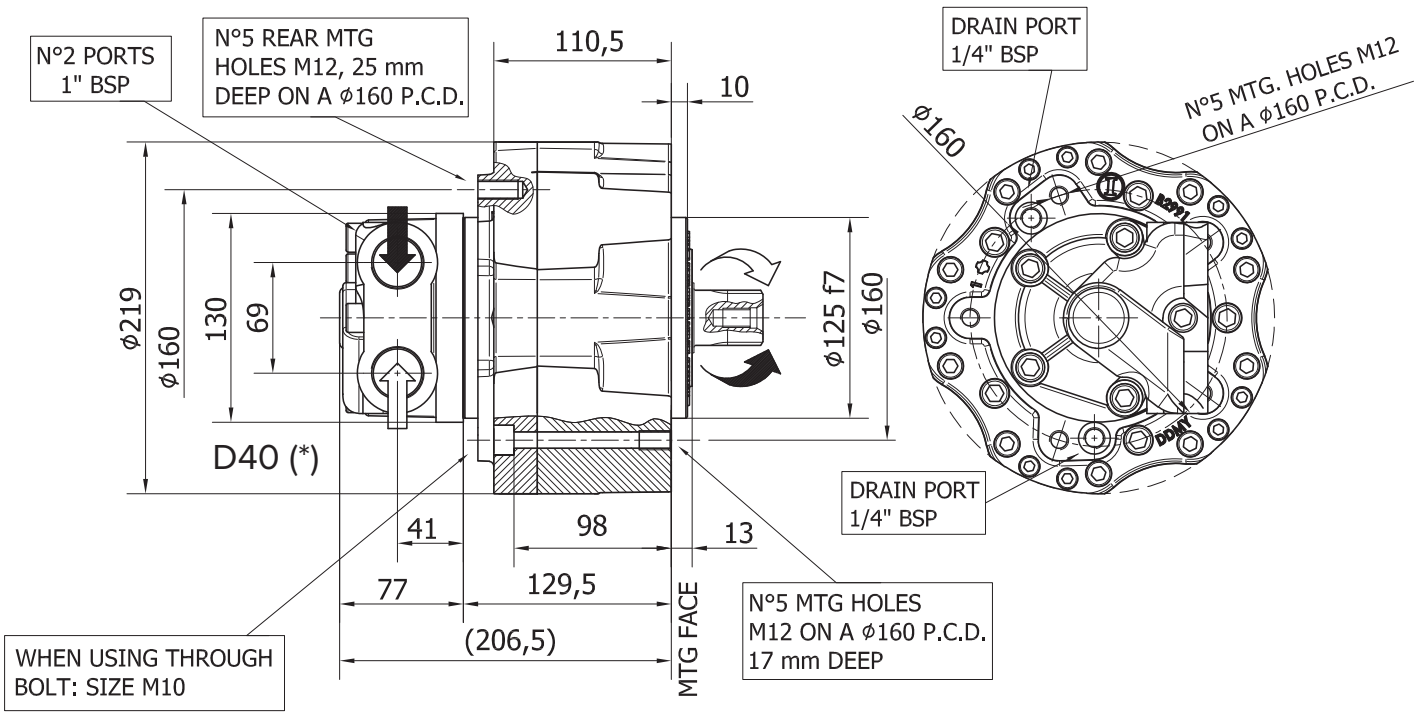
HC05 40-60-75-90-110-130-150-175-200-250 Pag. 30 - 31

HC05 - PERFORMANCE CURVES Pag. 32 - 37

HC05 - ORDERING CODE Pag. 38

The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.

HC05



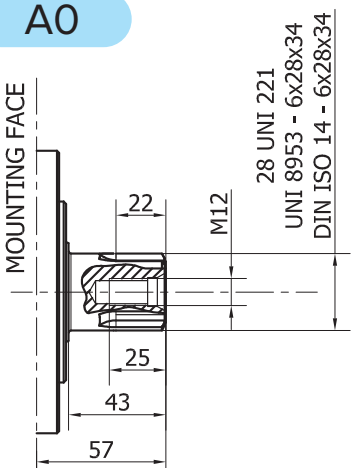
TECHNICAL DATA

		40	60	75	90	110	130	150	175	200	250
DISPLACEMENT	[cc]	40	60	74	91	115	129	151	166	191	226
SPECIFIC TORQUE	[Nm/bar]	0,62	0,97	1,2	1,4	1,84	2,05	2,4	2,65	3,04	3,6
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	1200	1200	1200	1100	850	850	850	750	750	600
PEAK SPEED (***)	[rpm]	1400	1400	1400	1300	1100	1100	1100	1000	1000	800
MAX. CONT. POWER (****)	[kW]	16	25	32	32	35	35	35	35	35	35
MAX. POWER	[kW]	25	35	50	50	55	55	55	55	55	55
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	30	30	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	-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.

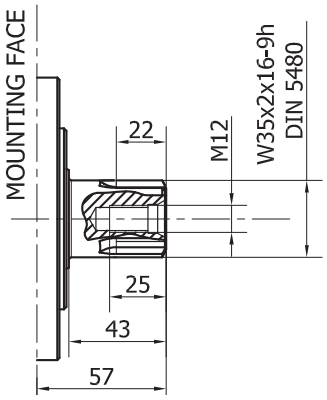
SHAFTS

A0



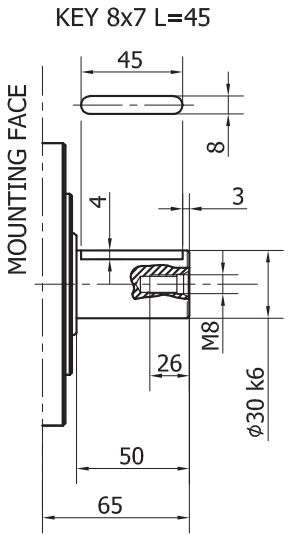
Available spline billet: SB14

A1

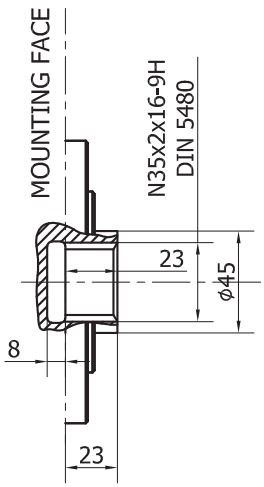


Available spline billet: SB32

A2

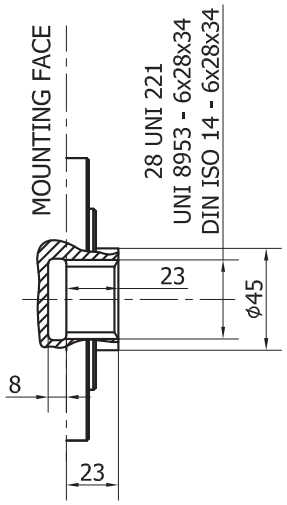


A3



Available spline bar: B8075

A31

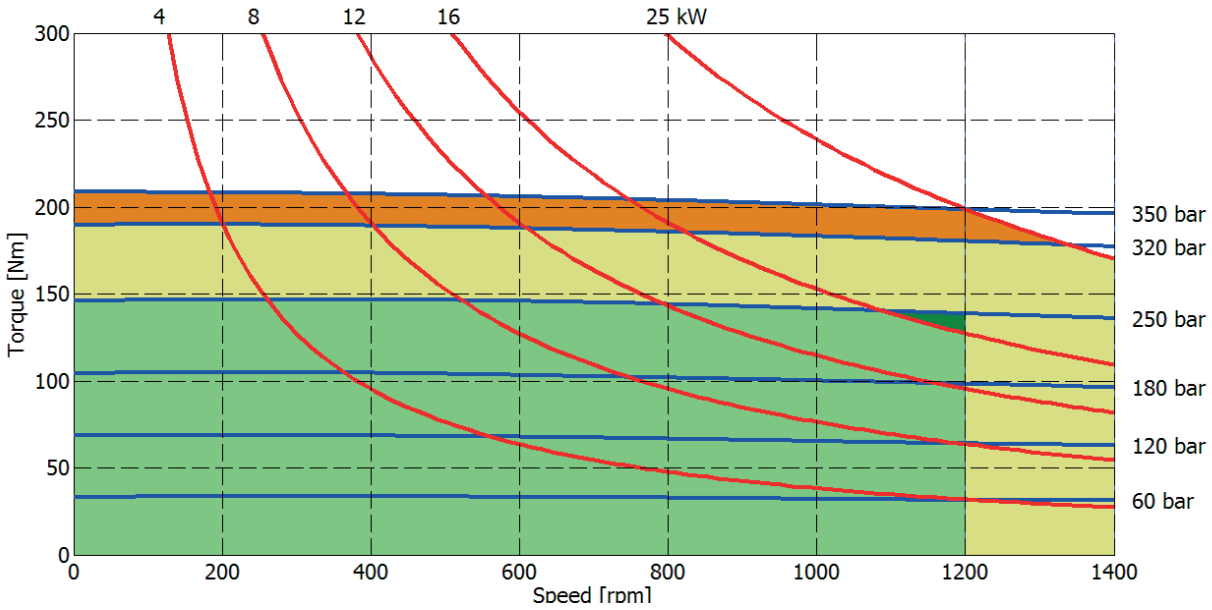


Available spline bar: B8077

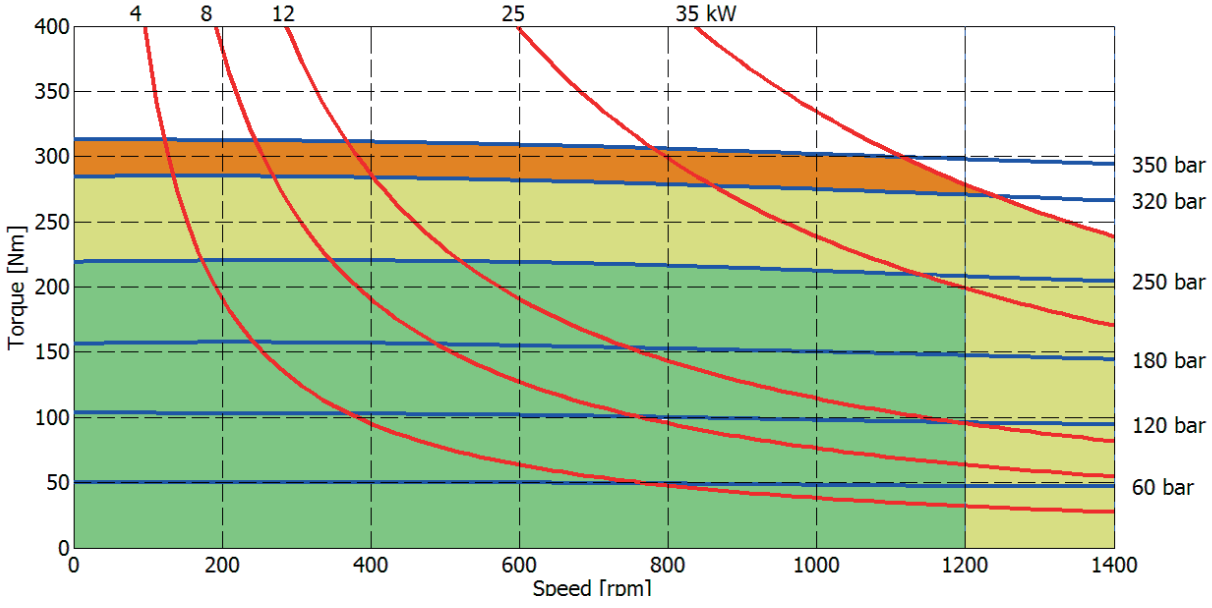
The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.

HC05 - PERFORMANCE CURVES

HC05 40



HC05 60



Continuous operation

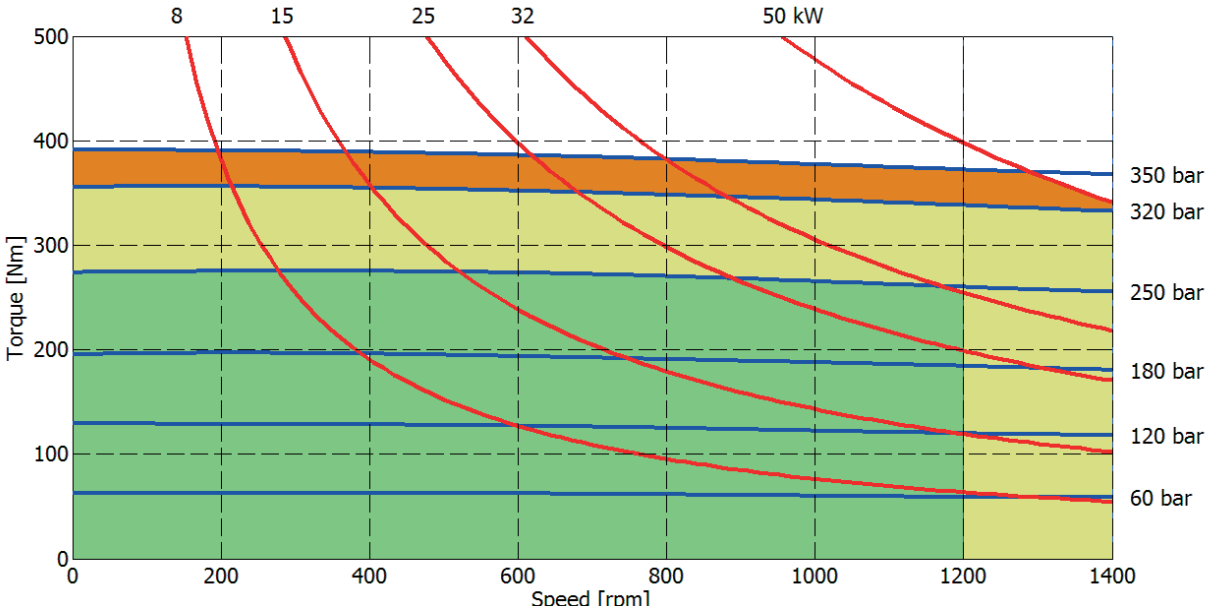
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

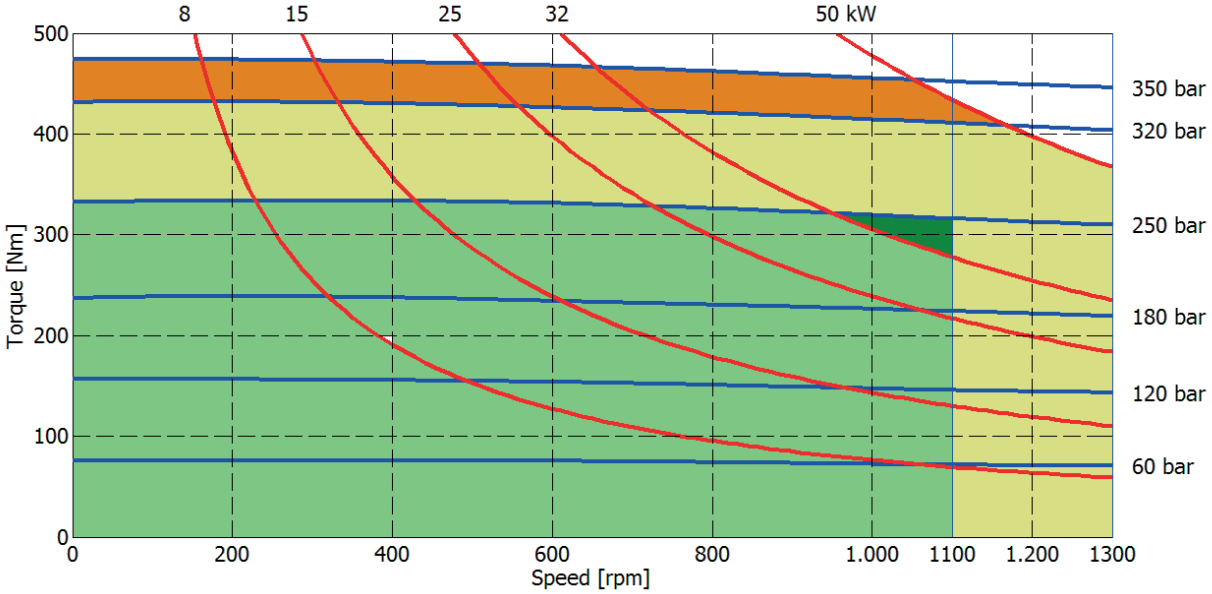
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

HC05 75



HC05 90



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

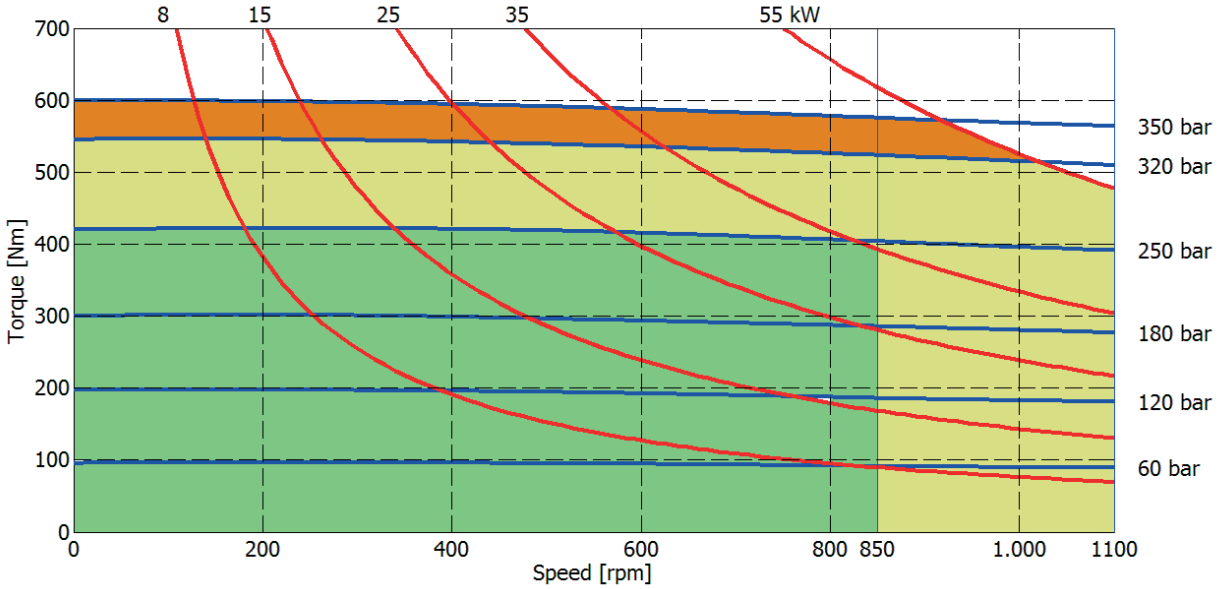
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

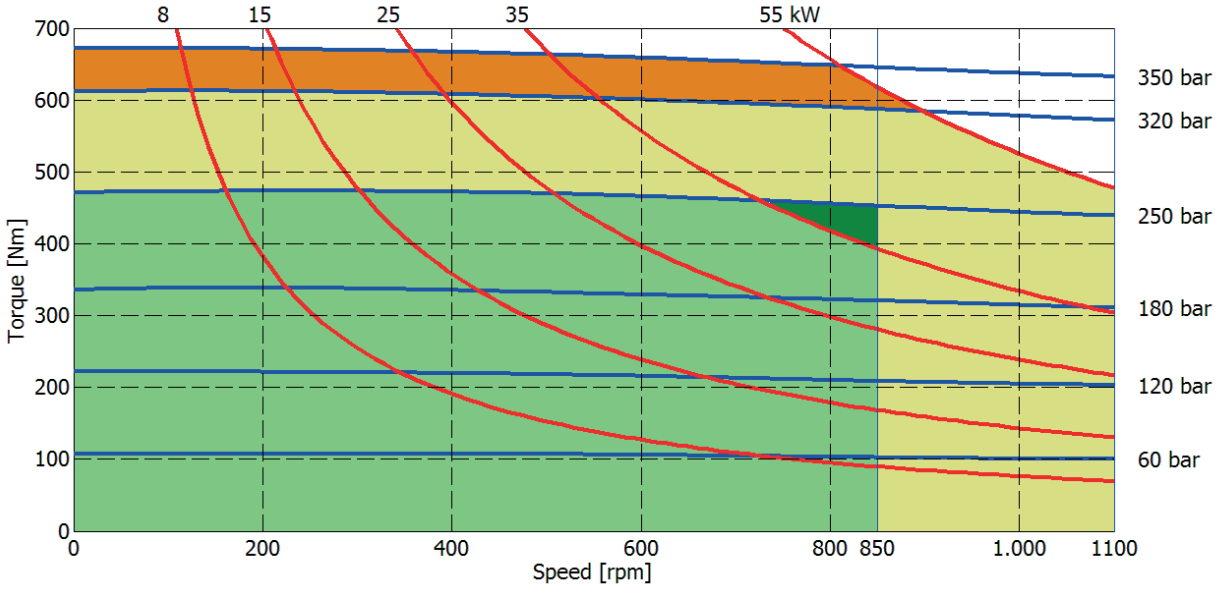
The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.

HC05 - PERFORMANCE CURVES

HC05 110



HC05 130



Continuous operation

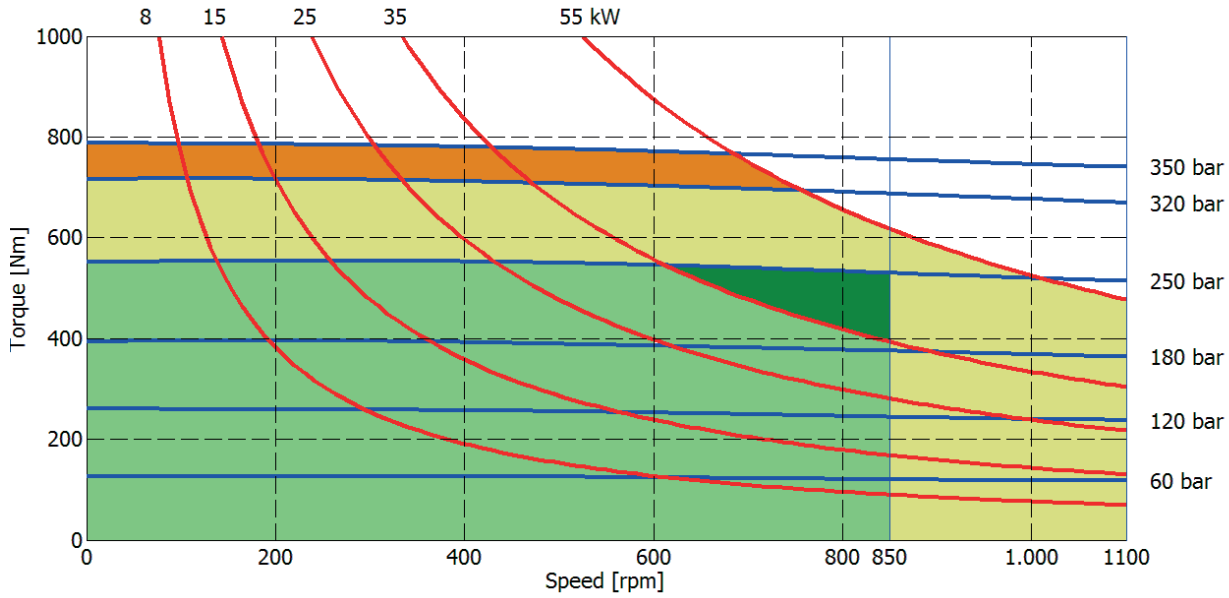
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

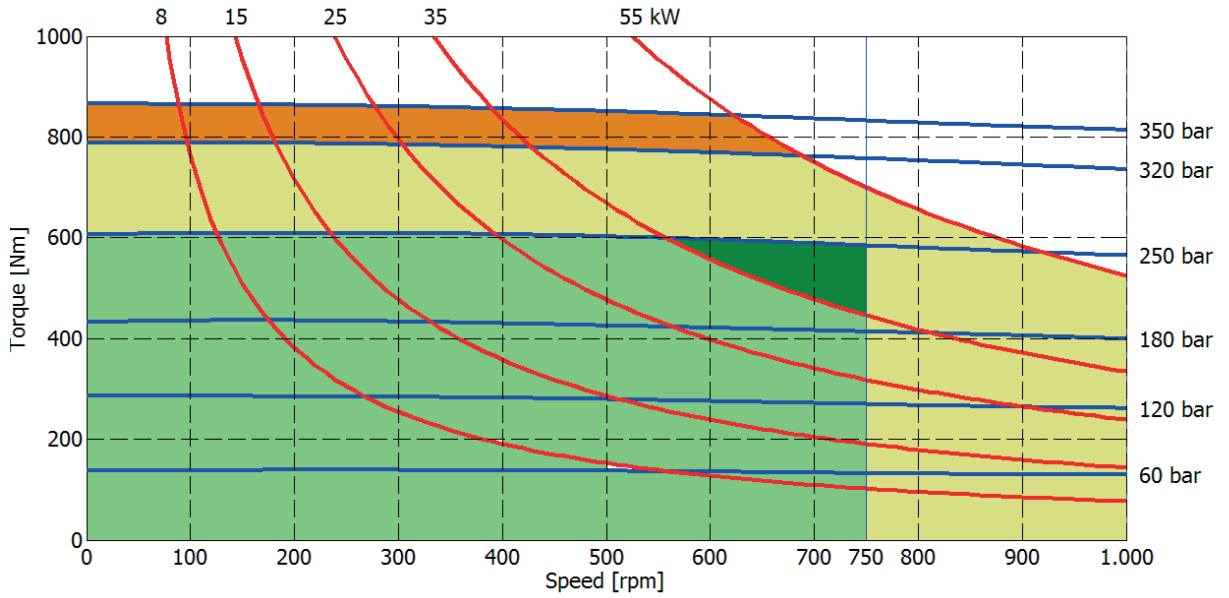
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

HC05 150



HC05 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

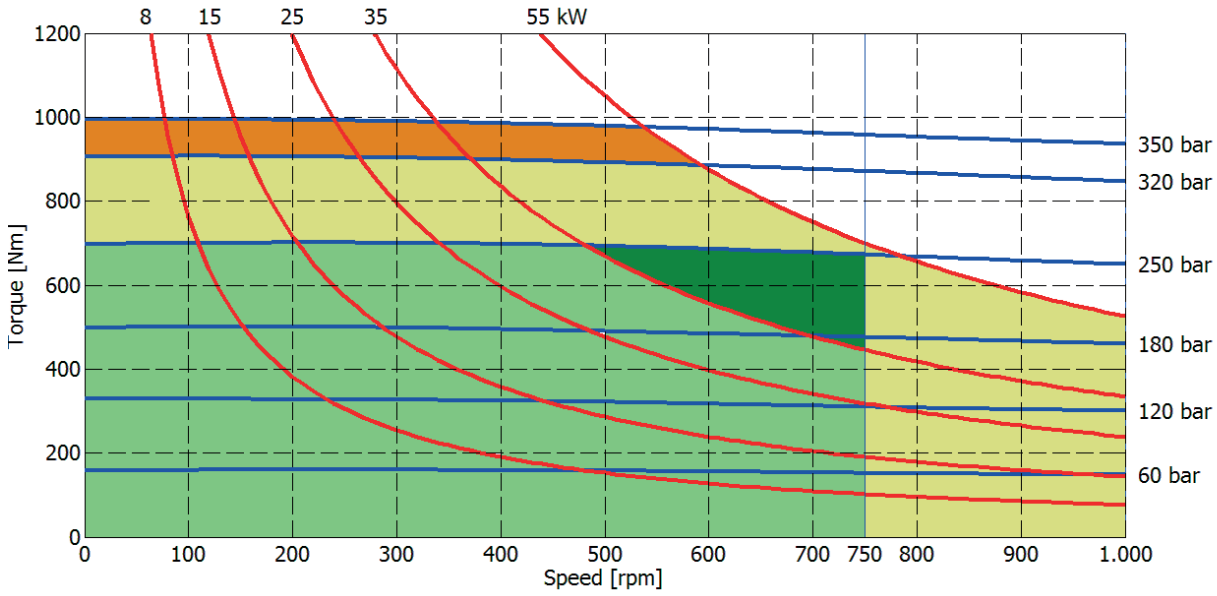
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

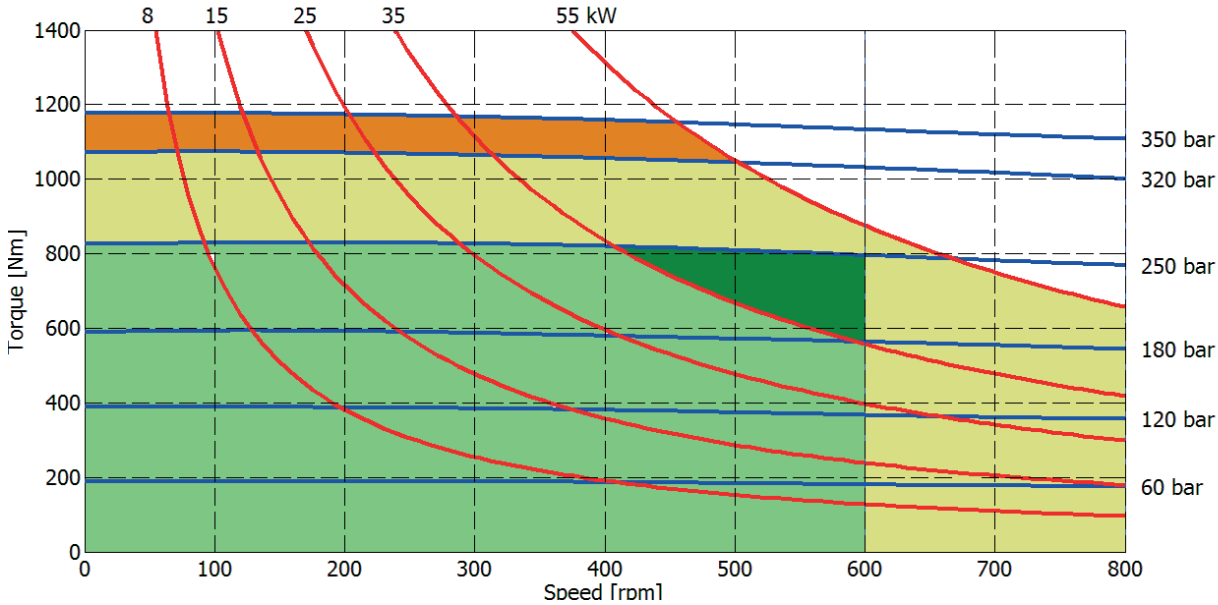
The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.

HC05 - PERFORMANCE CURVES

HC05 200



HC05 250



Continuous operation

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

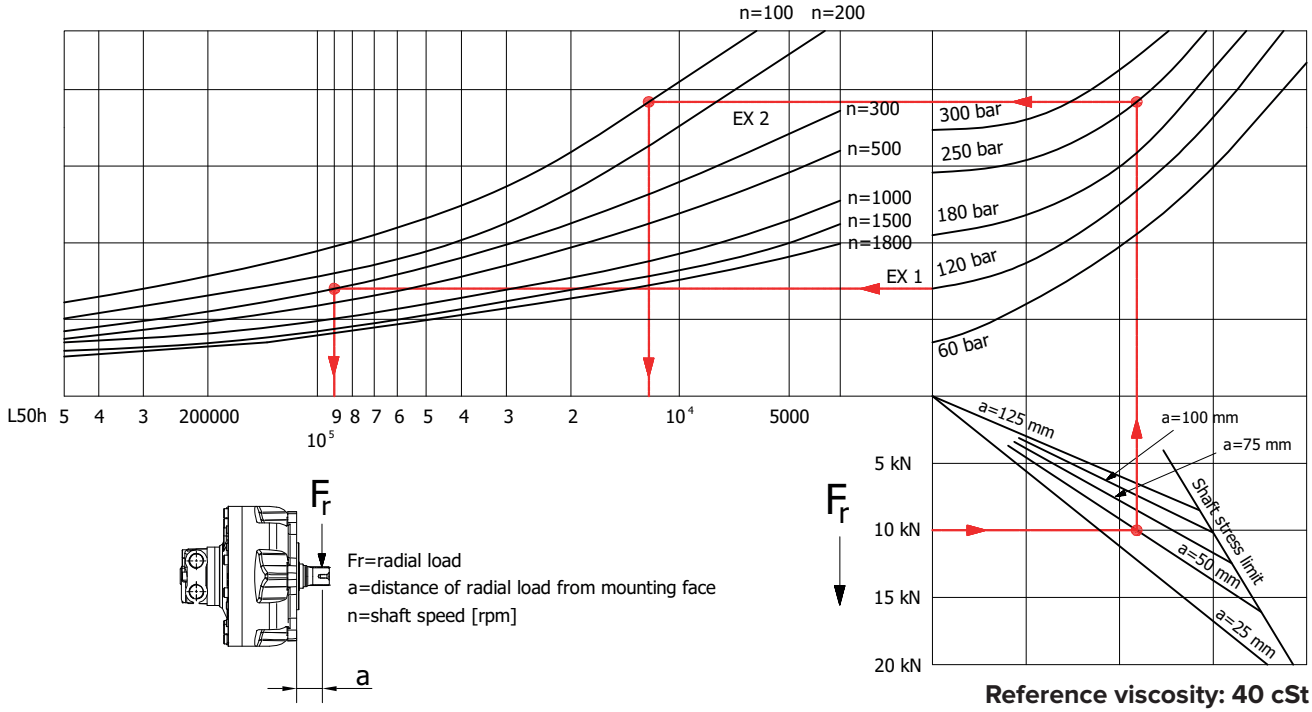
Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period

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 110 cc



Reference viscosity: 40 cSt

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].

The above data are referring to the HC05 series motors, displacement 110 cc.

The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.

HC05 - ORDERING CODE

HC05 - - - - - - - - - - SB -

DISPLACEMENT

40 60 75 90 110 130 150 175 200 250

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

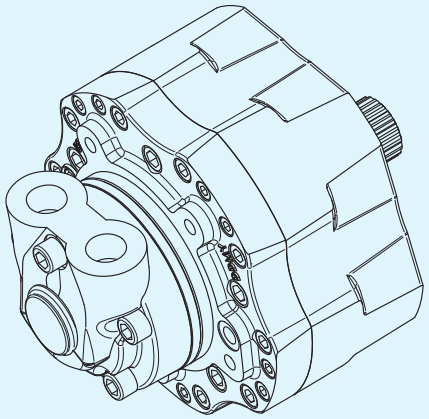
SPLINE BILLET

SB14 SB32

SPLINE BAR

B8075 B8077

See pag. 107-108



EXAMPLES:

HC05 60 A1 D36B
HC05 110 A2 D40 TA MP CCW
HC05 175 A3 D47 B8075