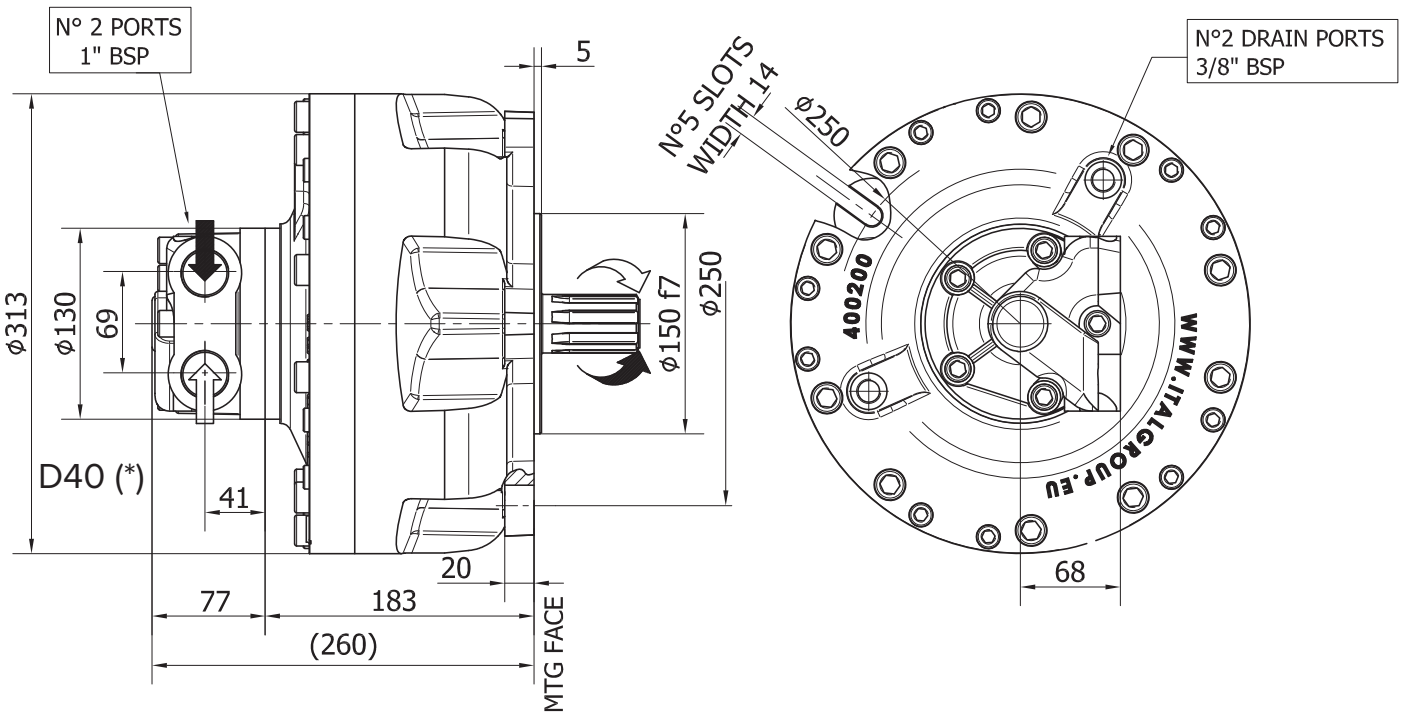
HC2

HC2 200-250-300-350-400-500-600-650	Pag. 50 - 51
HC2/S2 200-250-300-350-400-500-600-650	Pag. 52 - 53
HC2/TF 200-250-300-350-400-500-600-650	Pag. 54 - 55
HC2 - PERFORMANCE CURVES	Pag. 56 - 60
HC2 - ORDERING CODE	Pag. 61

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HC2



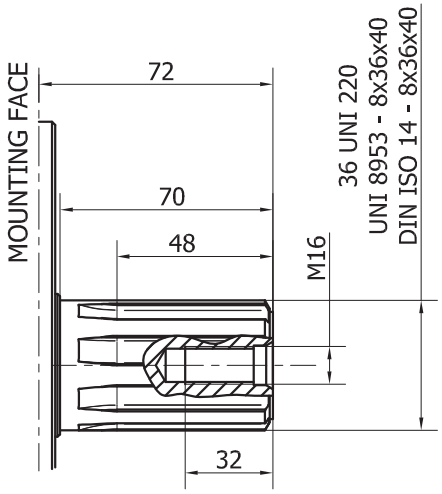
TECHNICAL DATA

		200	250	300	350	400	500	600	650
DISPLACEMENT	[cc]	193	251	305	348	424	493	566	624
SPECIFIC TORQUE	[Nm/bar]	3,06	4,00	4,84	5,52	6,76	7,84	9,00	9,92
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]	1200	950	800	650	600	520	480	440
PEAK SPEED (***)	[rpm]	1500	1150	950	800	800	700	650	620
MAX. CONT. POWER (****)	[kW]	75	75	75	75	75	75	75	75
MAX. POWER	[kW]	105	105	105	105	105	105	105	105
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	53	53	53	53	53	53	53	53
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.

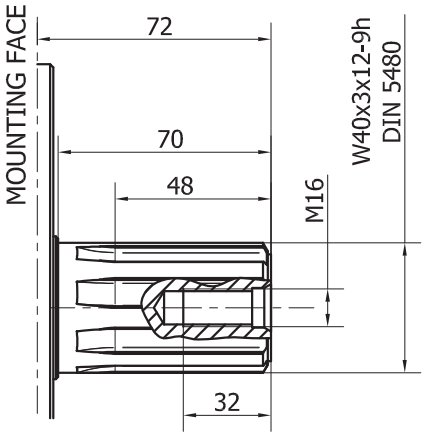
SHAFTS

A0



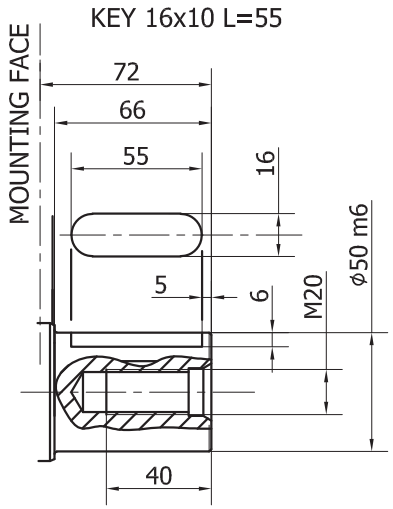
Available spline billet: SB3

A1

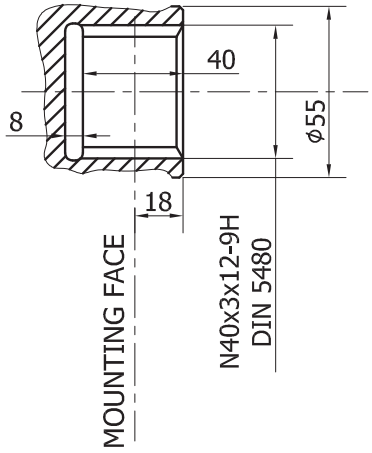


Available spline billet: SB22

A2

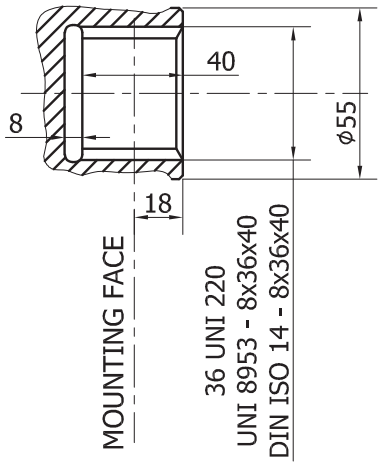


A3



Available spline bar: B8076

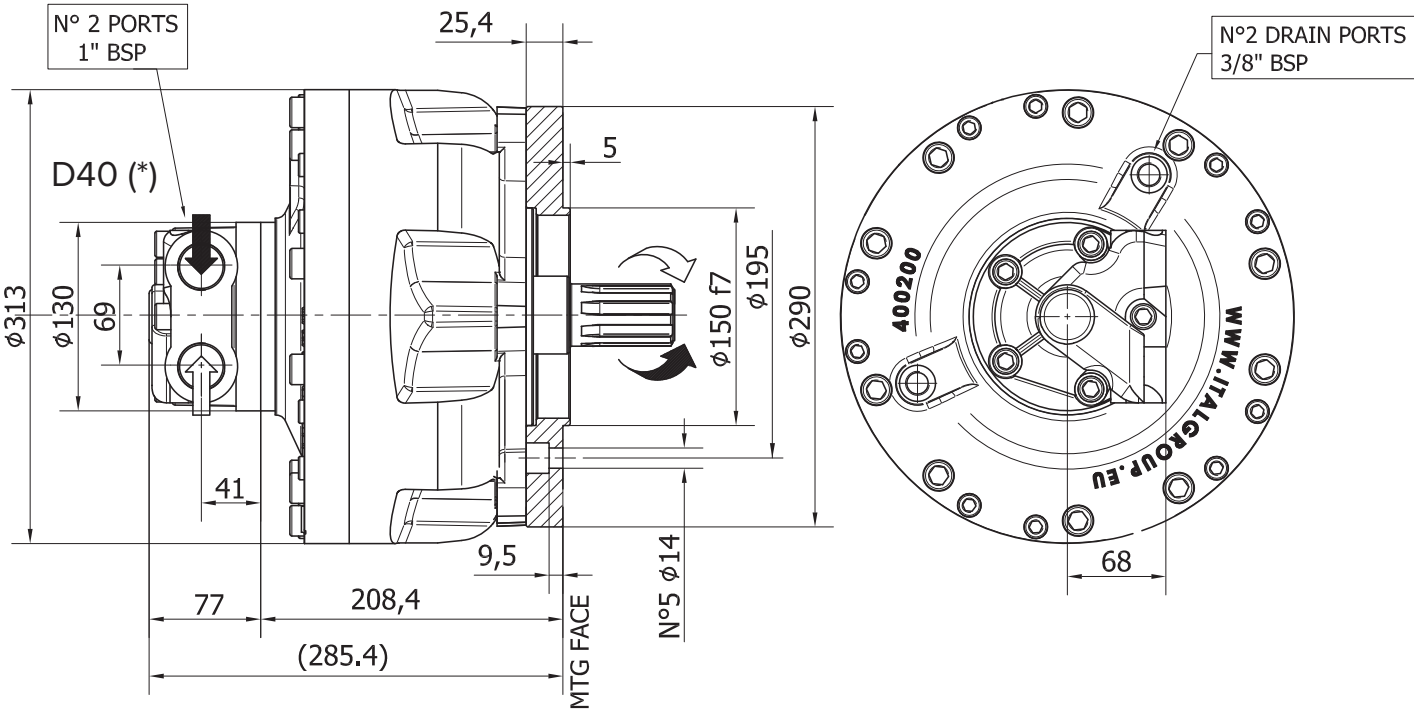
A31



Available spline bar: B8078

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HC2/S2

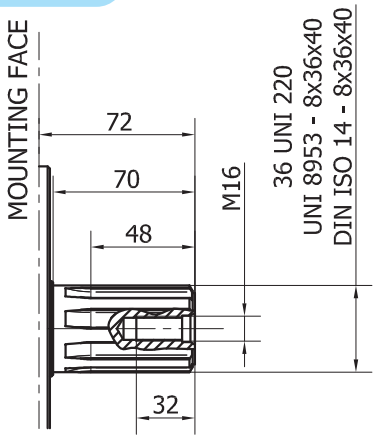


TECHNICAL DATA

		200	250	300	350	400	500	600	650
DISPLACEMENT	[cc]	193	251	305	348	424	493	566	624
SPECIFIC TORQUE	[Nm/bar]	3,06	4,00	4,84	5,52	6,76	7,84	9,00	9,92
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]	1200	950	800	650	600	520	480	440
PEAK SPEED (***)	[rpm]	1500	1150	950	800	800	700	650	620
MAX. CONT. POWER (****)	[kW]	75	75	75	75	75	75	75	75
MAX. POWER	[kW]	105	105	105	105	105	105	105	105
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	53	53	53	53	53	53	53	53
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

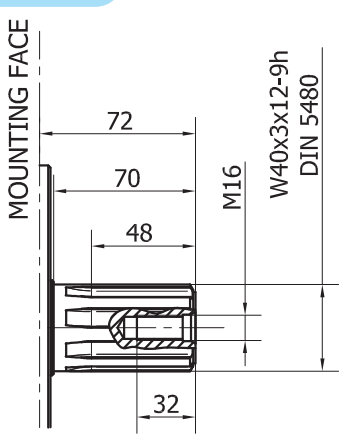
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 94-101) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

A0



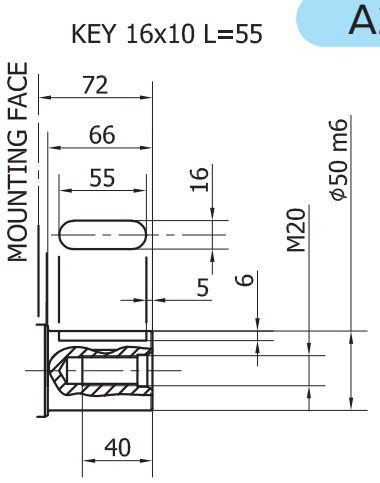
Available spline billet: SB3

A1

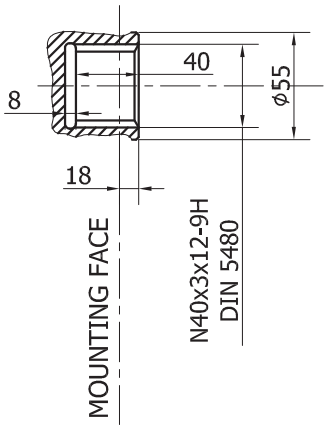


Available spline billet: SB22

A2

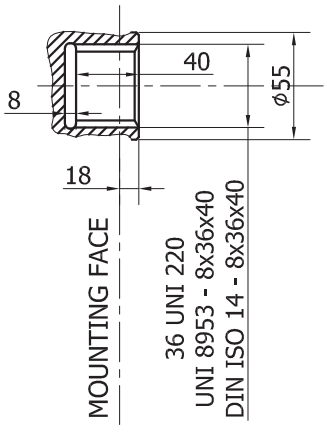


A3



Available spline bar: B8076

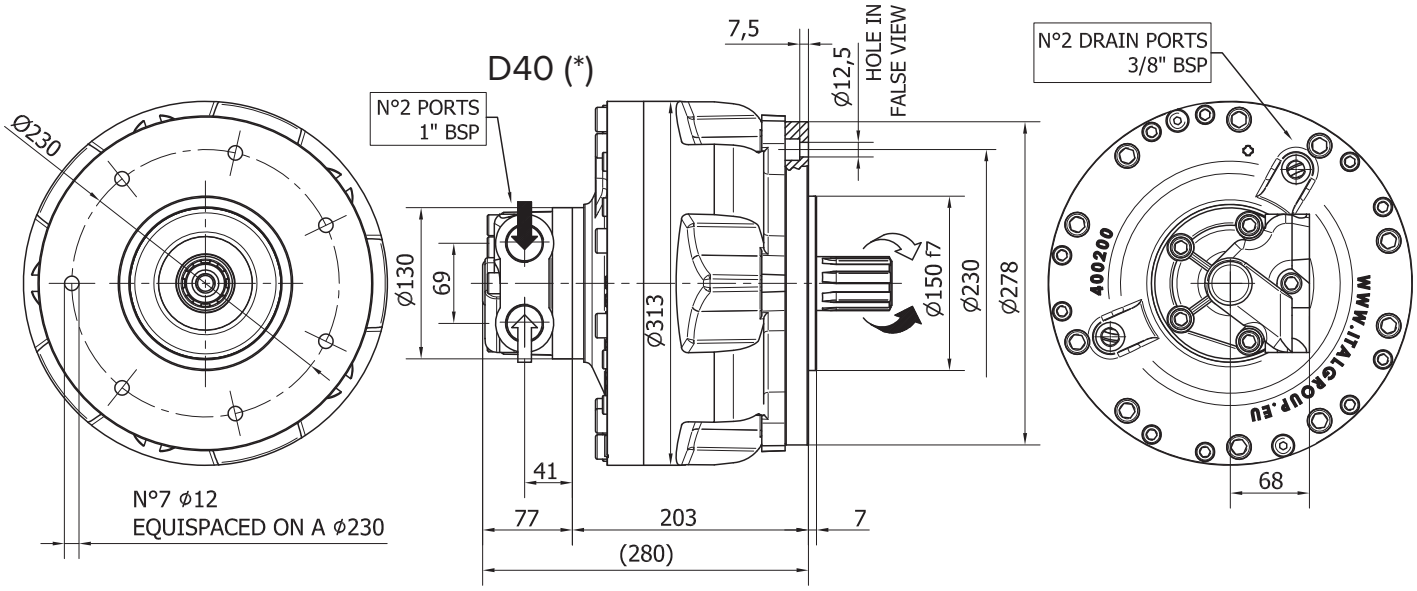
A31



Available spline bar: B8078

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HC2/TF

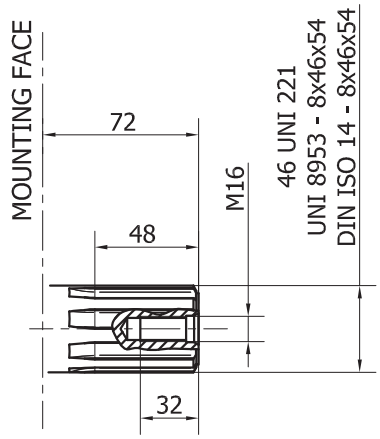


TECHNICAL DATA

		200	250	300	350	400	500	600	650
DISPLACEMENT	[cc]	193	251	305	348	424	493	566	624
SPECIFIC TORQUE	[Nm/bar]	3,06	4,00	4,84	5,52	6,76	7,84	9,00	9,92
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]	1200	950	800	650	600	520	480	440
PEAK SPEED (***)	[rpm]	1500	1150	950	800	800	700	650	620
MAX. CONT. POWER (****)	[kW]	75	75	75	75	75	75	75	75
MAX. POWER	[kW]	105	105	105	105	105	105	105	105
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	53	53	53	53	53	53	53	53
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.

A0

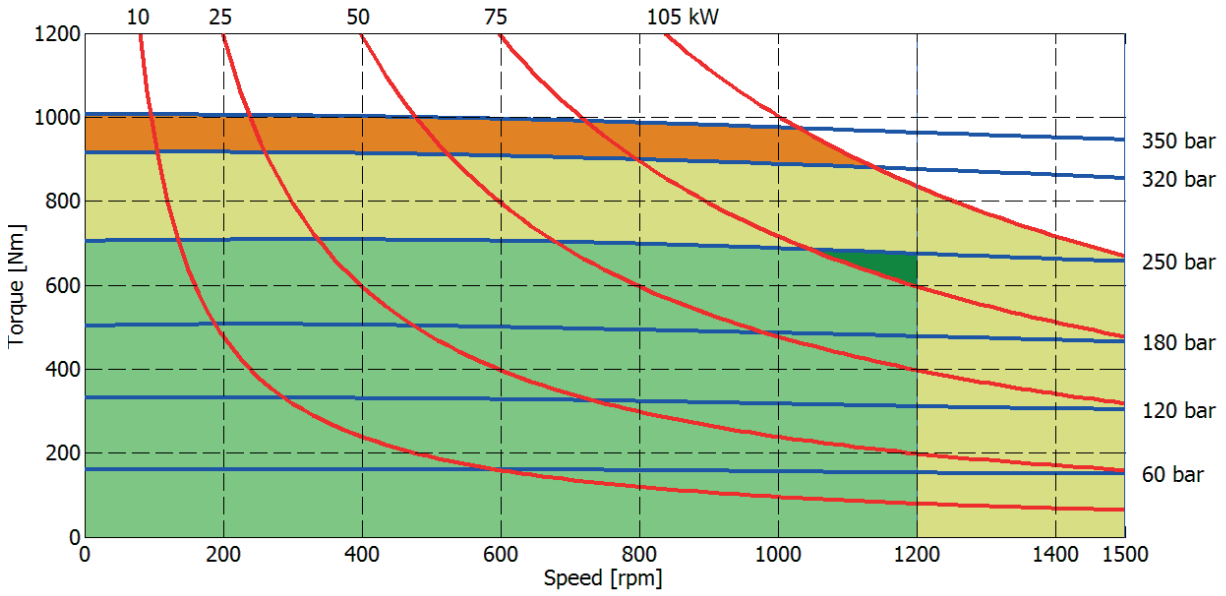


Available spline billet: SB5

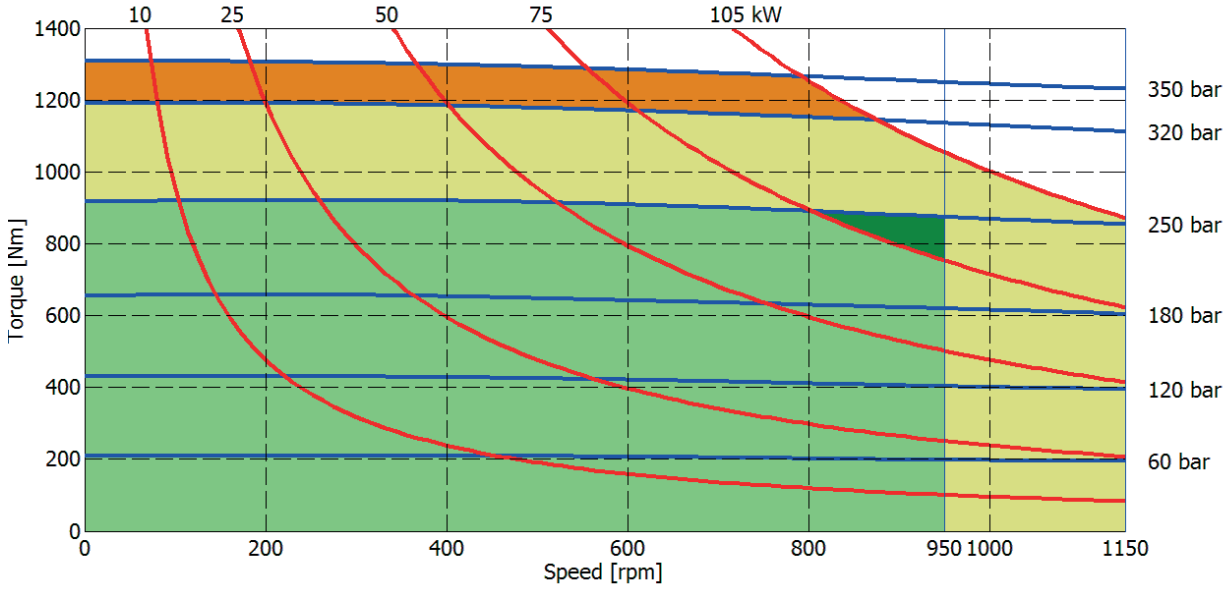
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HC2 - PERFORMANCE CURVES

HC2 200



HC2 250



Continuous operation

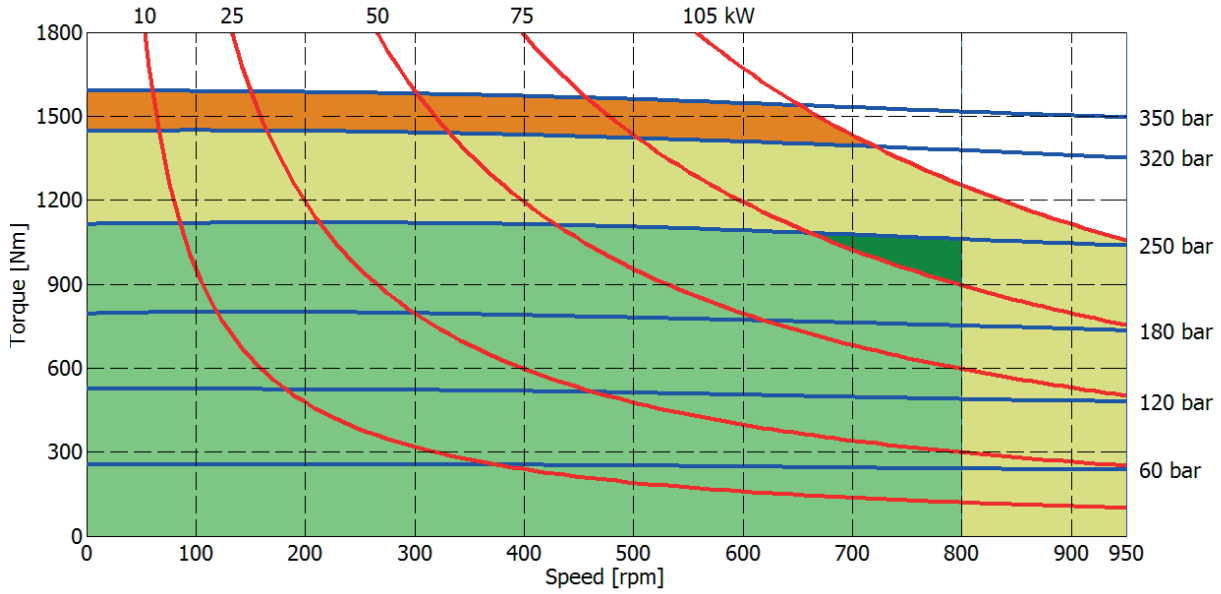
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

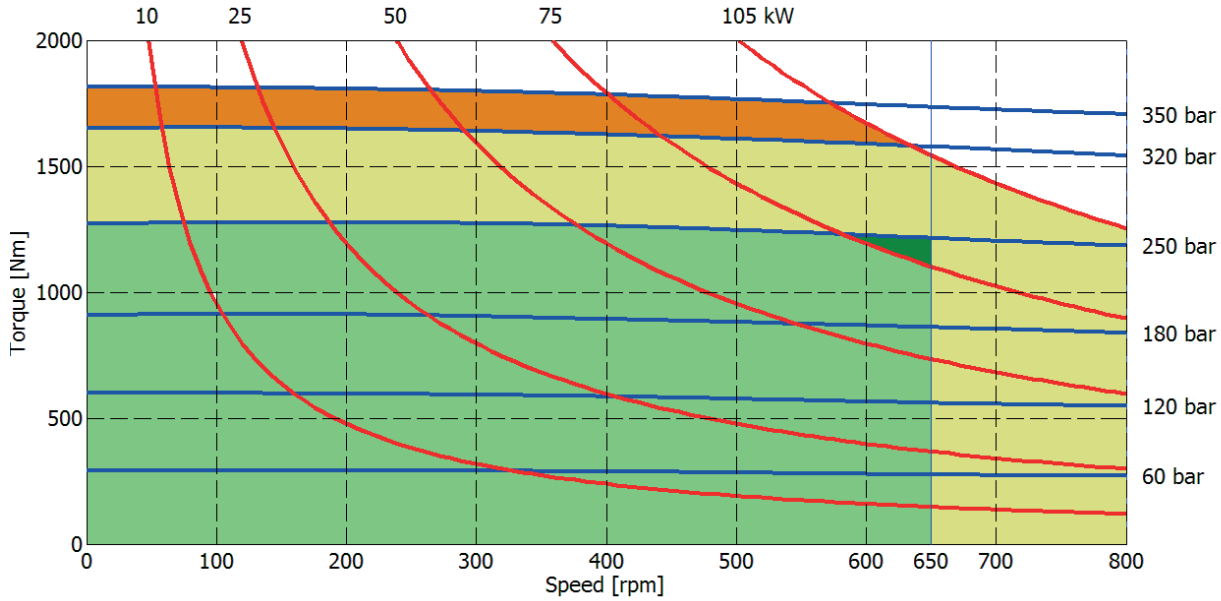
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

HC2 300



HC2 350



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

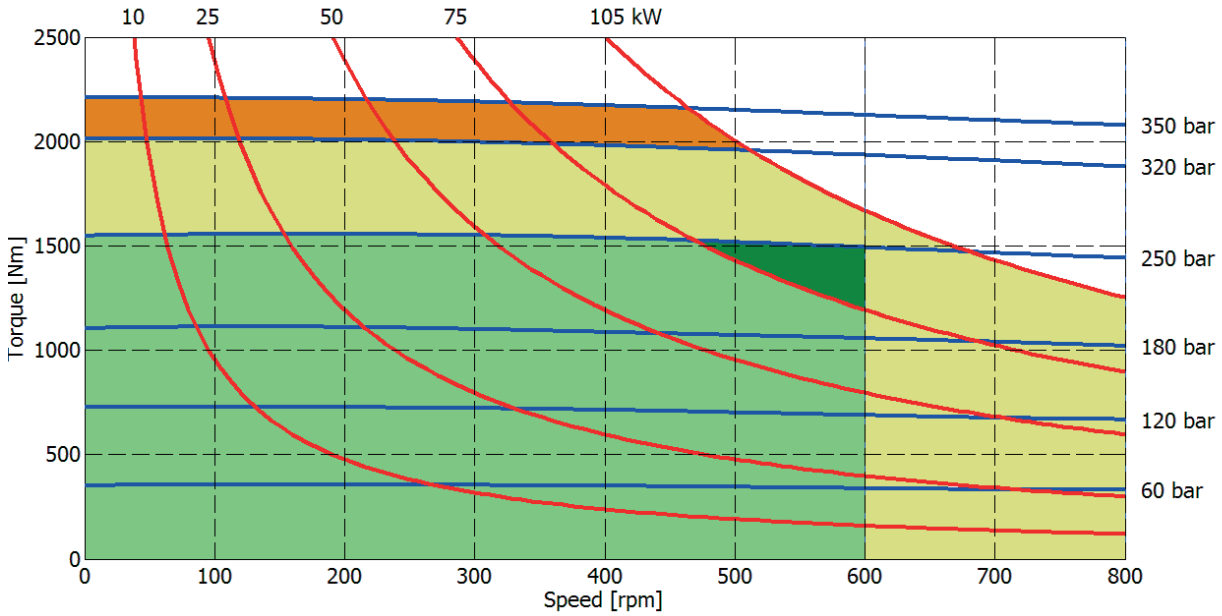
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

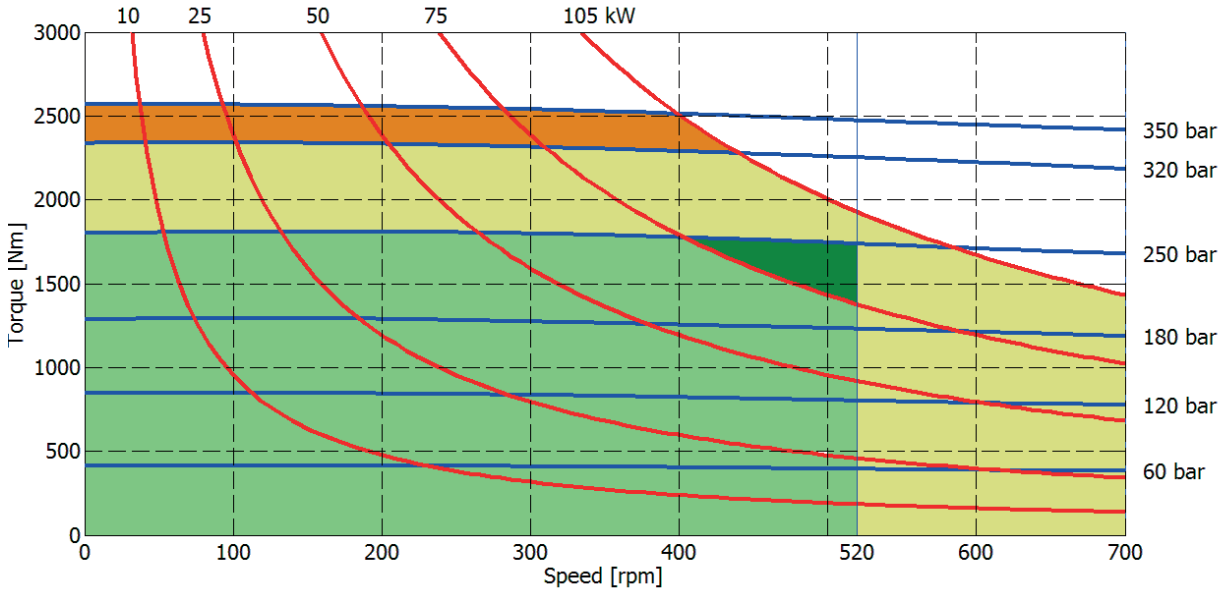
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HC2 - PERFORMANCE CURVES

HC2 400



HC2 500



Continuous operation

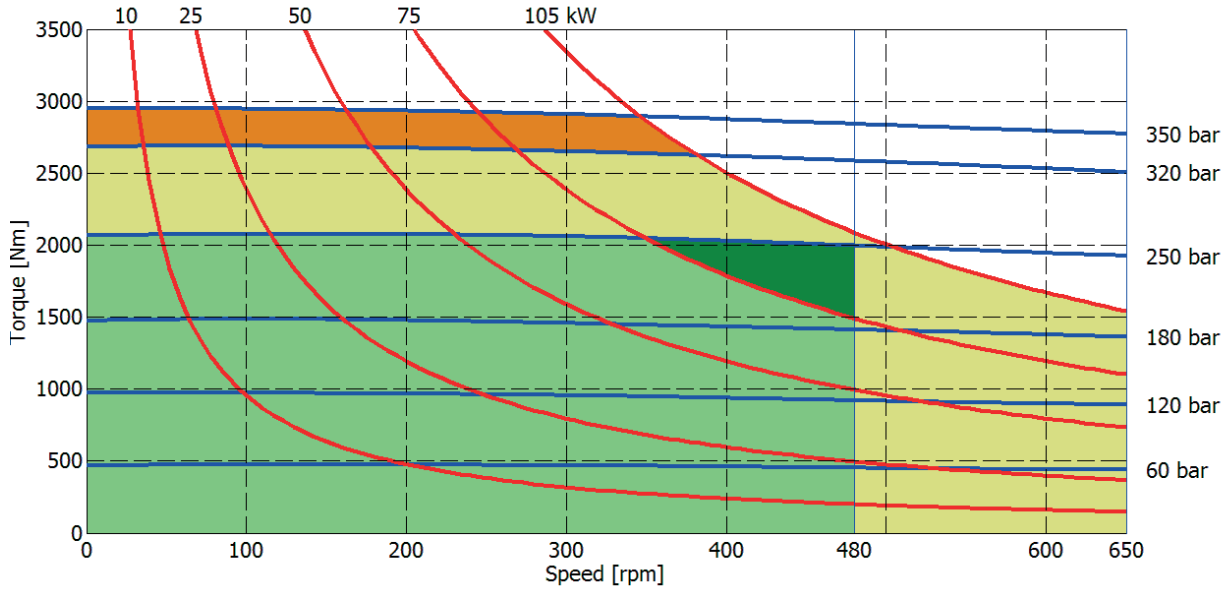
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

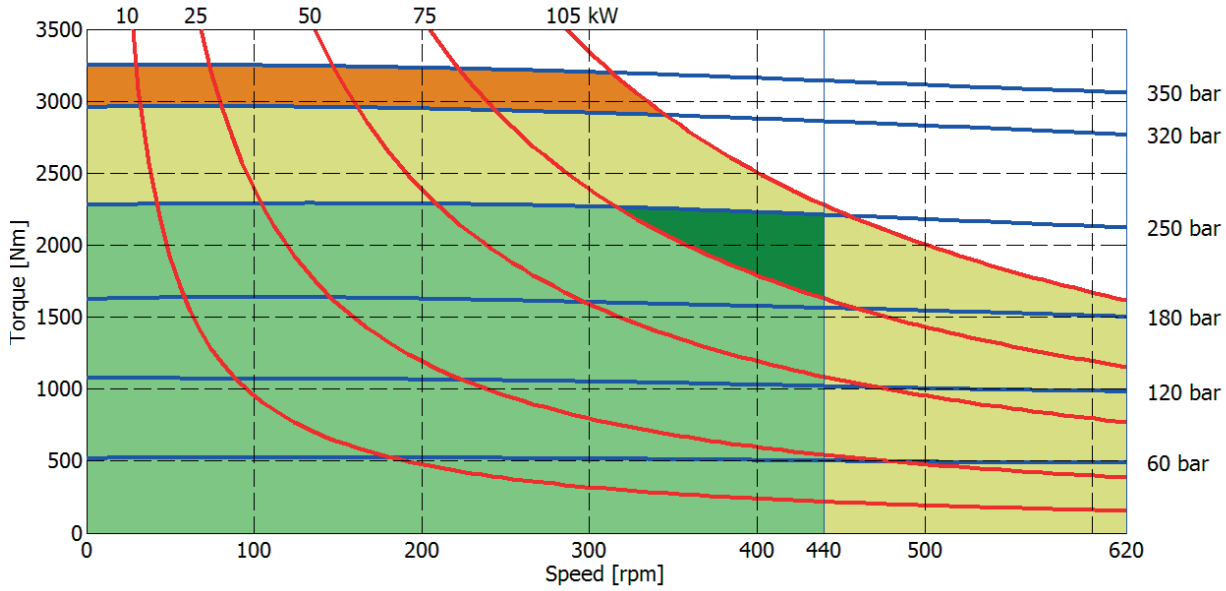
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

HC2 600



HC2 650



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)

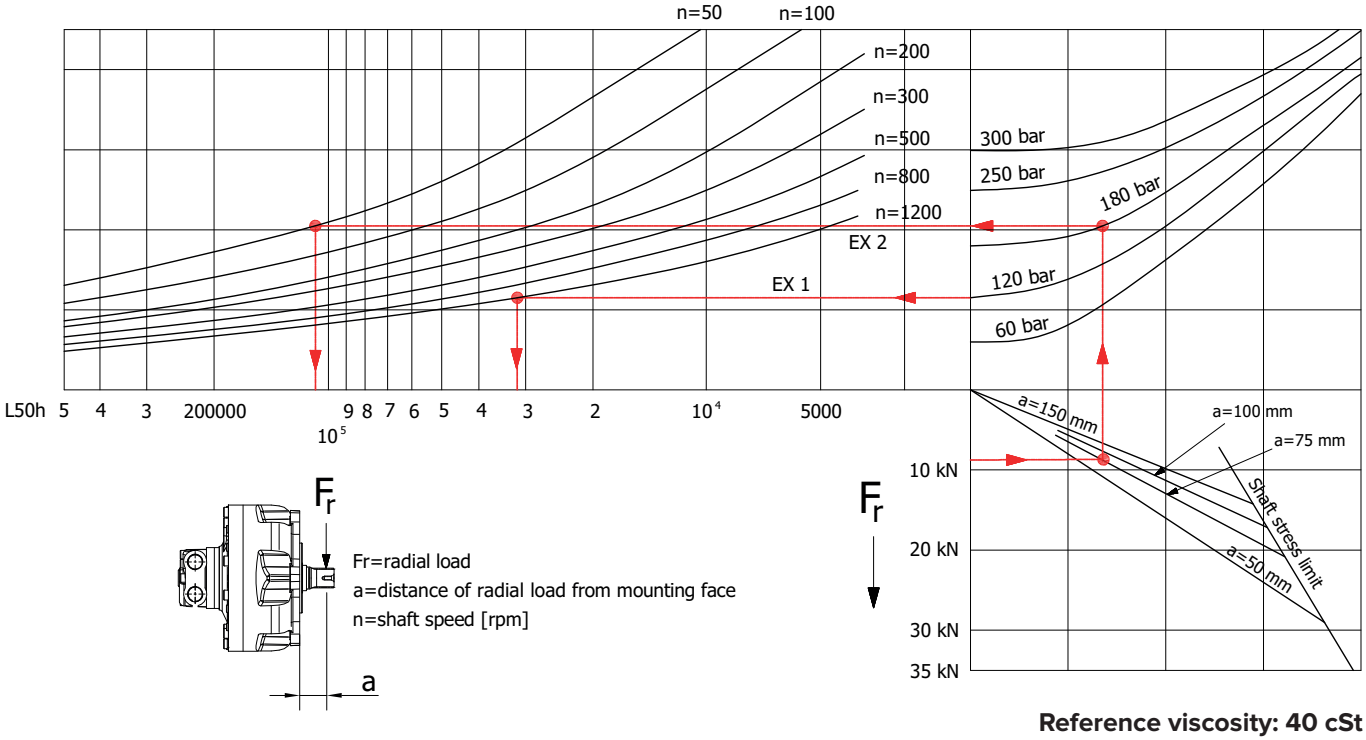
The above diagrams are referring to the hydraulic motor working with a fluid in ideal conditions (viscosity at 40 cSt). In case the working temperature increases and viscosity reach values under the recommended values (see hydraulic fluid recommendations) flushing must be performed or ISO oil grade must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

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HC2 - PERFORMANCE CURVES

BEARING LIFE

Reference displacement 350 cc



Reference viscosity: 40 cSt

Example:

We suppose (EX1): p=120 [bar], n=1200 [rpm]; we obtain an average lifetime of 31000 [h].

If we suppose (EX2): F_r=9 [kN], a=75 [mm], n=50 [rpm] and p=180 [bar] we obtain an average lifetime of 105000 [h].

The above data are referring to the HC2 series motors, displacement 350 cc.

HC2 - ORDERING CODE

HC2 - - - - - - - - - - - - - - SB -

DISPLACEMENT

200
250
300
350
400
500
600
650

INTERCHANGEABILITY

/C300 (*)
/S2
/TF

SHAFT

A0 A01
A1 A2
A3 A31
A32 A4

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

SB3
SB5
SB22

SPLINE BAR

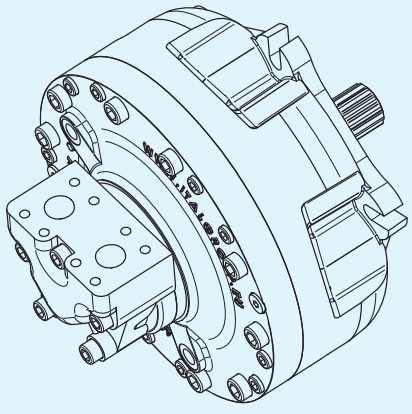
B8076
B8078

See pag. 107-108

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

EXAMPLES:

HC2 400 A1 D40 SB22
HC2 300/TF A0 D47 CCW
HC2 600/S2 A0 D310B EST30



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