
ITALGROUP SRL

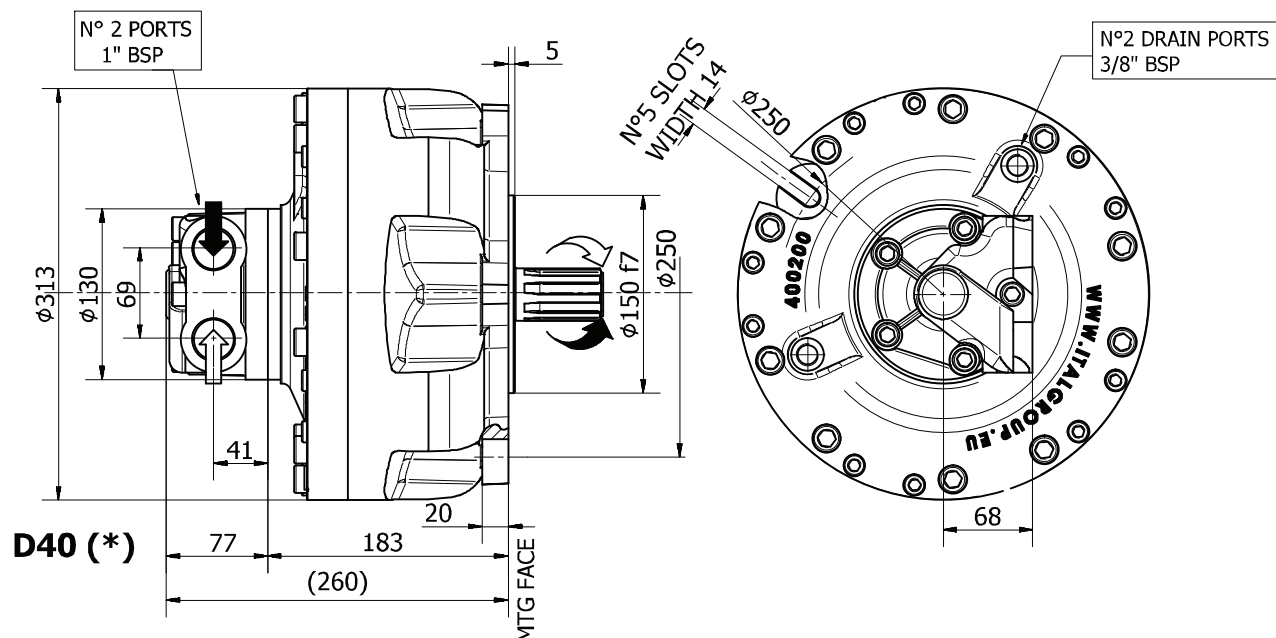
HCD SERIES - HCD2

GENERAL CATALOGUE

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INSTALLATION DRAWING



TECHNICAL DATA

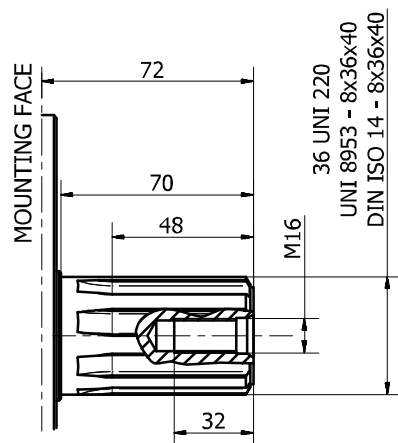
		200	250	300	350	400	500
DISPLACEMENT	[cc]	193	251	305	348	424	493
SPECIFIC TORQUE	[Nm/bar]	3,06	4,00	4,84	5,52	6,76	7,84
MAX. CONT. PRESSURE	[bar]	300	300	300	300	300	275
HYDROSTATIC TEST PRESSURE	[bar]	450	450	450	450	450	420
MAX. CONT. SPEED	[rpm]	1250	1050	800	650	550	550
PEAK SPEED (***)	[rpm]	1500	1200	1150	1150	900	900
MAX. CONT. POWER (****)	[kW]	80	80	80	80	80	80
MAX. CONT. POWER WITH FLUSHING	[kW]	112	112	112	112	112	112
MAX. CASE PRESSURE	[bar]	10	10	10	10	10	10
DRY WEIGHT	[kg]	53	53	53	53	53	53
TEMPERATURE RANGE (**)	[°C]	-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.

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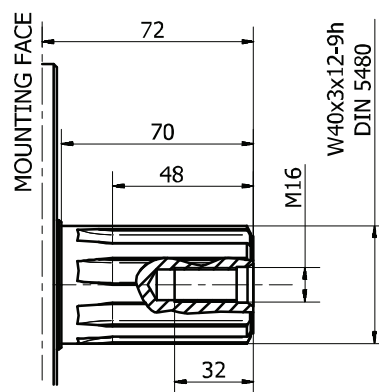
SHAFT CONFIGURATIONS

A0



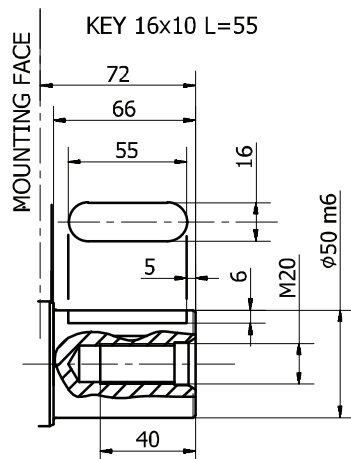
Available spline billet: (SB3)

A1

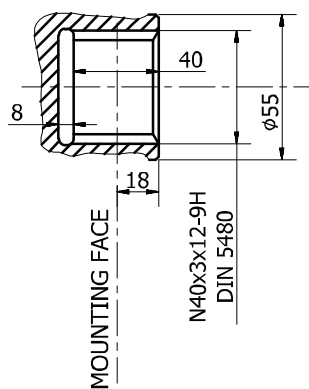


Available spline billet: (SB22)

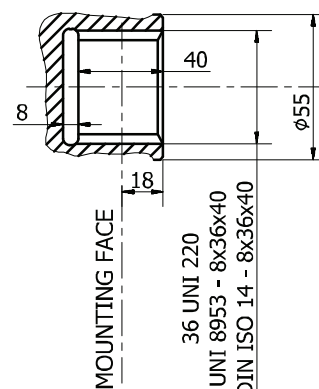
A2



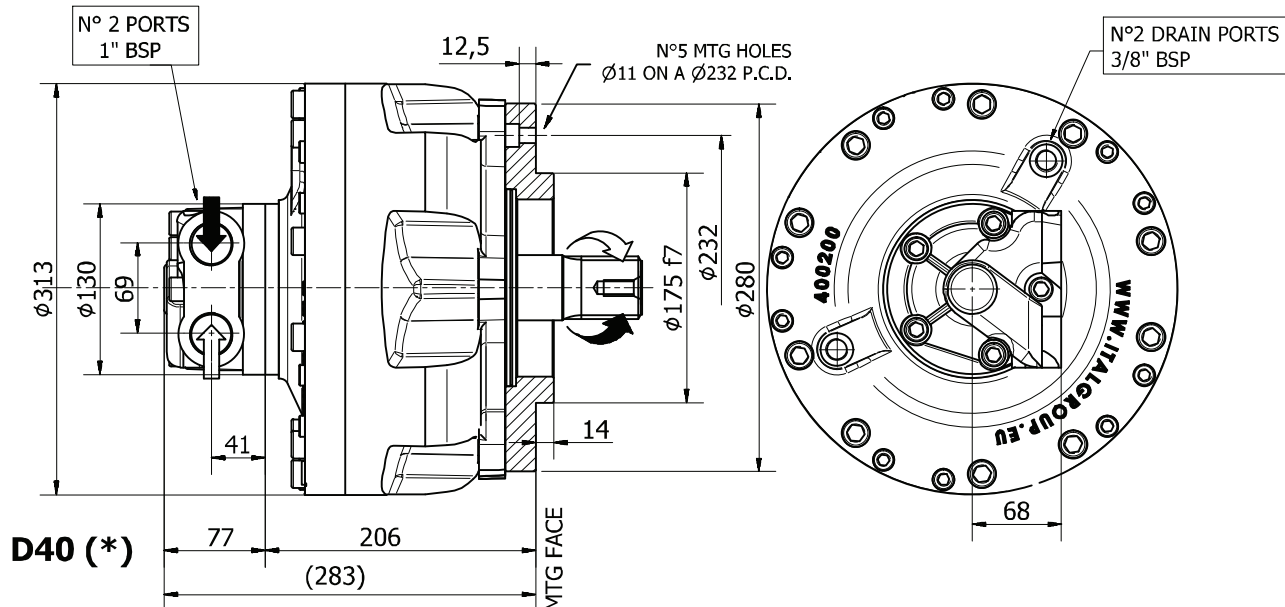
A3



A31



INSTALLATION DRAWING



TECHNICAL DATA

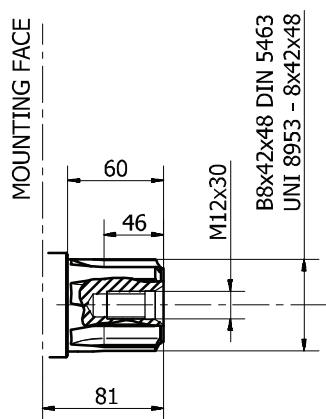
		200	250	300	350	400	500
DISPLACEMENT	[cc]	193	251	305	348	424	493
SPECIFIC TORQUE	[Nm/bar]	3,06	4,00	4,84	5,52	6,76	7,84
MAX. CONT. PRESSURE	[bar]	300	300	300	300	300	275
HYDROSTATIC TEST PRESSURE	[bar]	450	450	450	450	450	420
MAX. CONT. SPEED	[rpm]	1250	1050	800	650	550	550
PEAK SPEED (***)	[rpm]	1500	1200	1250	1200	900	900
MAX. CONT. POWER (****)	[kW]	80	80	80	80	80	80
MAX. CONT. POWER WITH FLUSHING	[kW]	112	112	112	112	112	112
MAX. CASE PRESSURE	[bar]	10	10	10	10	10	10
DRY WEIGHT	[kg]	53	53	53	53	53	53
TEMPERATURE RANGE (**)	[°C]	-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).
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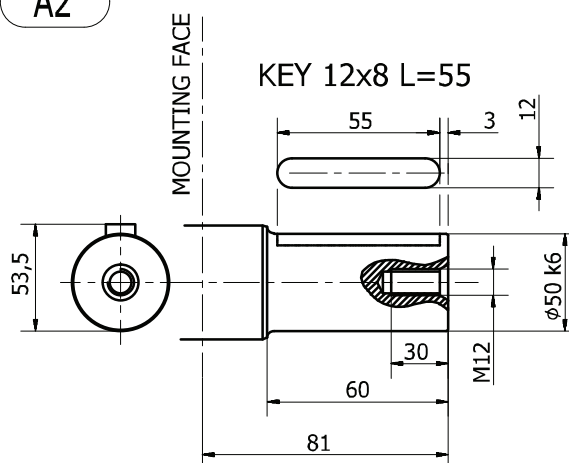
SHAFT CONFIGURATIONS

A0

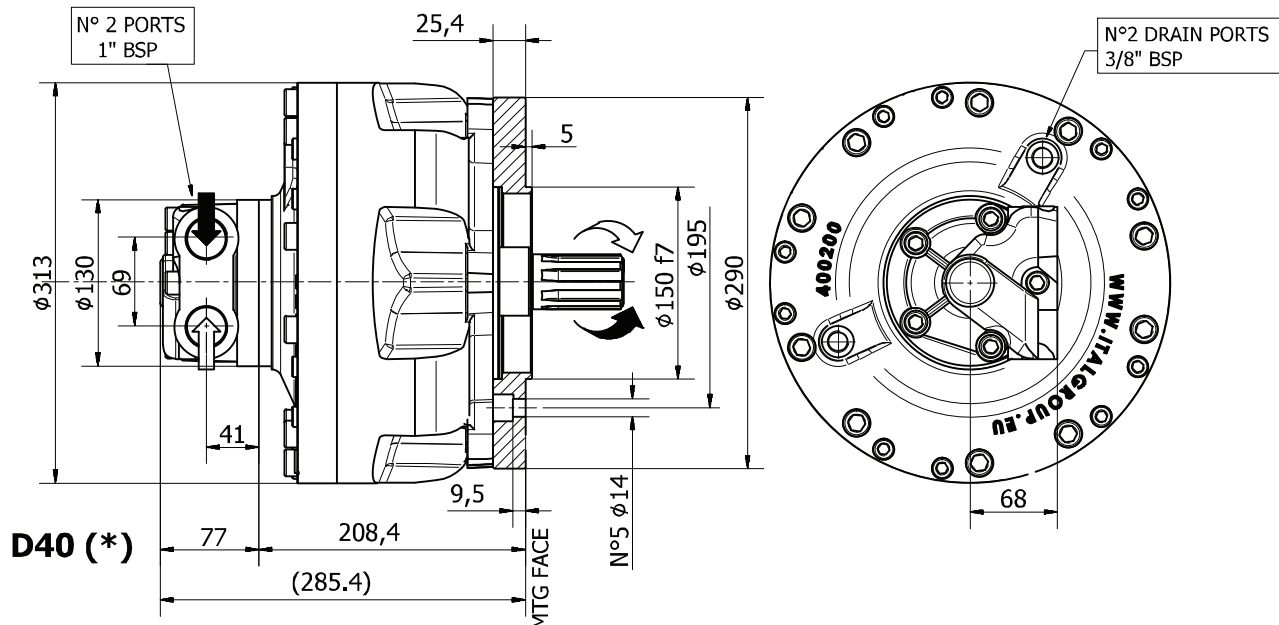


Available spline billet: SB15

A2



INSTALLATION DRAWING



TECHNICAL DATA

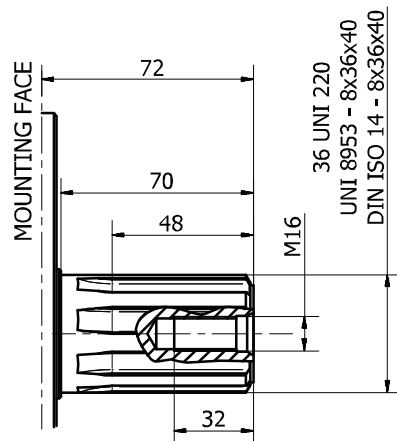
		200	250	300	350	400	500
DISPLACEMENT	[cc]	193	251	305	348	424	493
SPECIFIC TORQUE	[Nm/bar]	3,06	4,00	4,84	5,52	6,76	7,84
MAX. CONT. PRESSURE	[bar]	300	300	300	300	300	275
HYDROSTATIC TEST PRESSURE	[bar]	450	450	450	450	450	420
MAX. CONT. SPEED	[rpm]	1250	1050	800	650	550	550
PEAK SPEED (***)	[rpm]	1500	1200	1250	1200	900	900
MAX. CONT. POWER (****)	[kW]	80	80	80	80	80	80
MAX. CONT. POWER WITH FLUSHING	[kW]	112	112	112	112	112	112
MAX. CASE PRESSURE	[bar]	10	10	10	10	10	10
DRY WEIGHT	[kg]	53	53	53	53	53	53
TEMPERATURE RANGE (**)	[°C]	-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).
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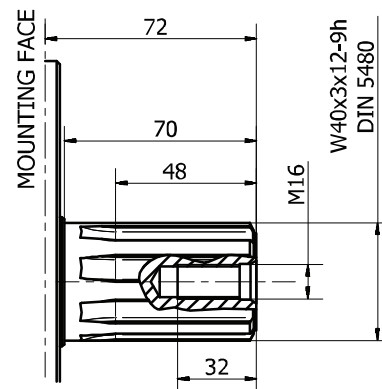
SHAFT CONFIGURATIONS

A0



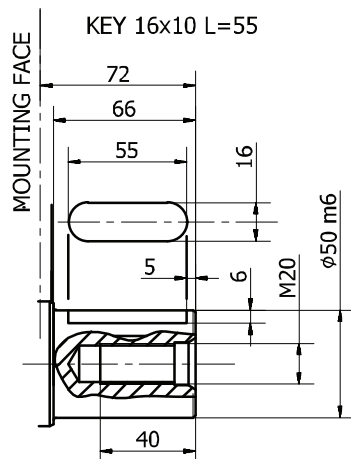
Available spline billet: (SB3)

A1

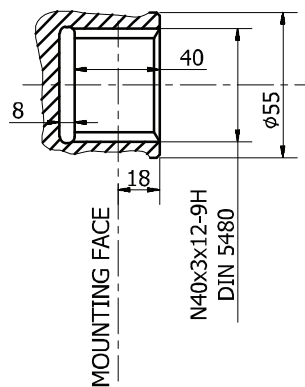


Available spline billet: (SB22)

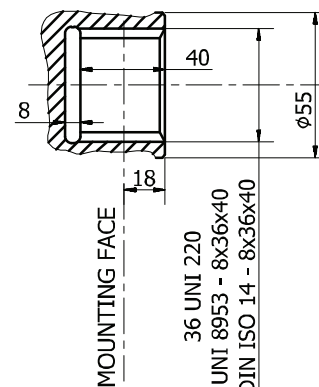
A2



A3

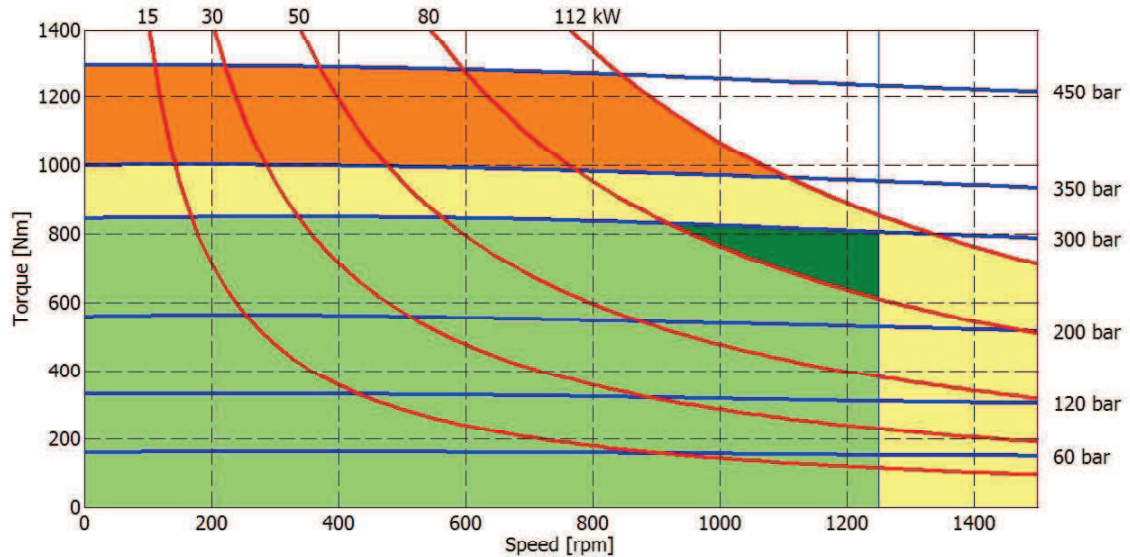


A31

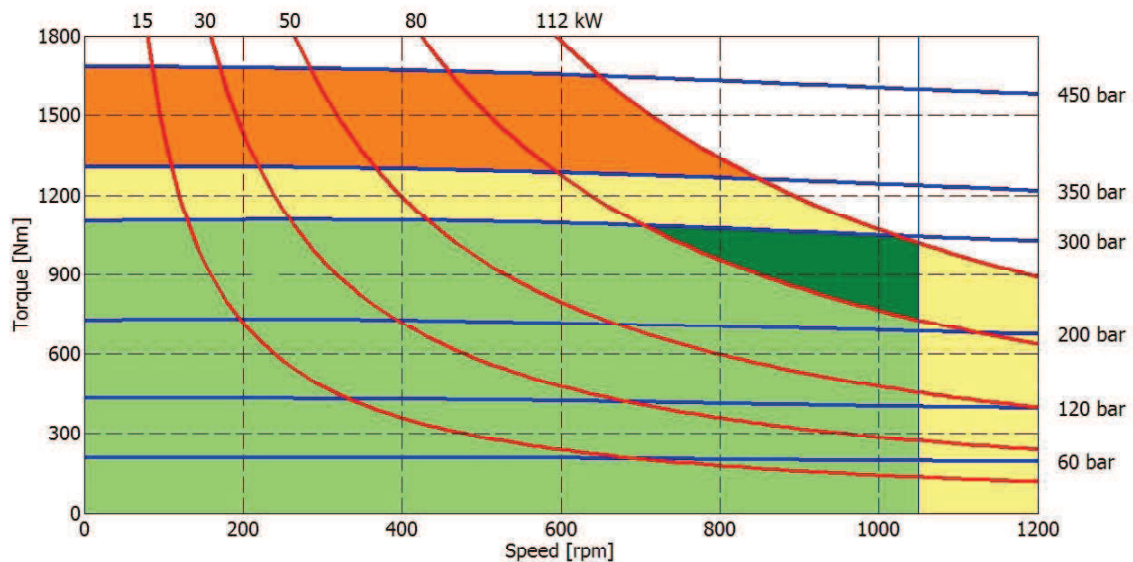


HCD2- PERFORMANCE DIAGRAMS

200 cc



250 cc



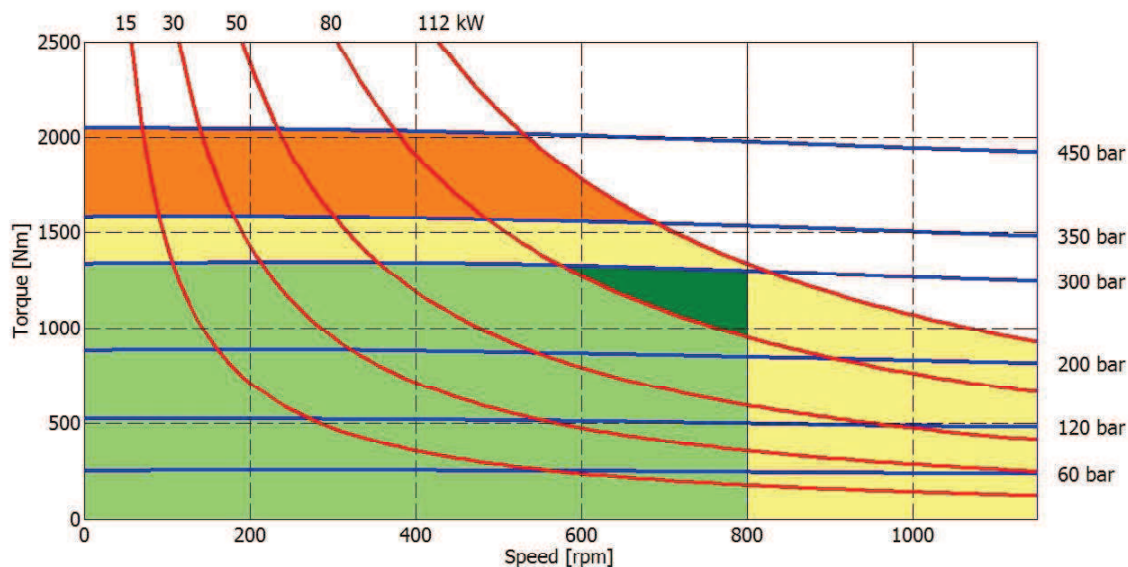
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

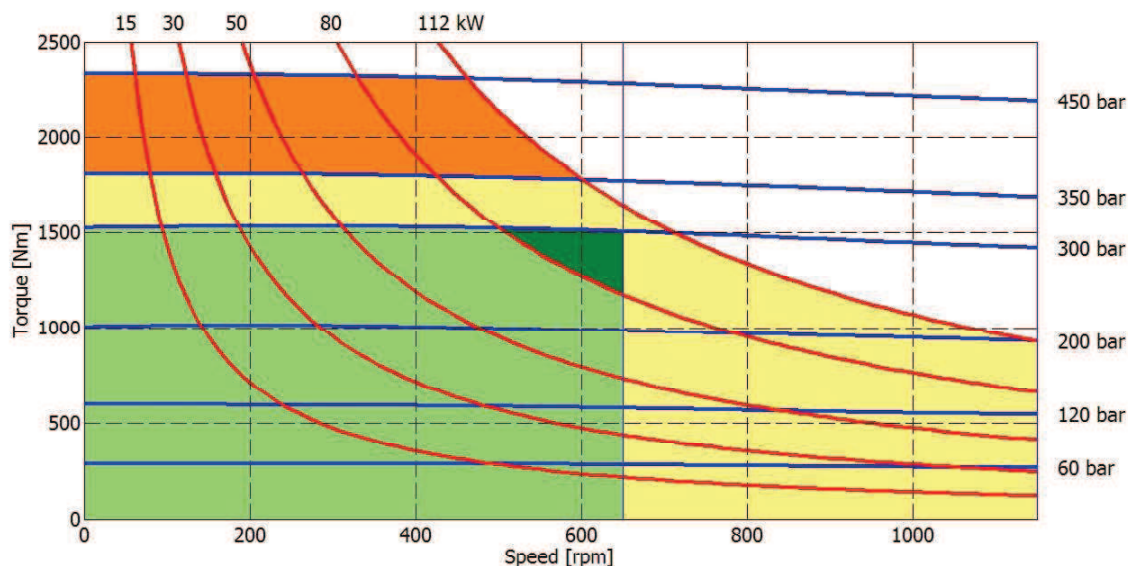
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HCD2- PERFORMANCE DIAGRAMS

300 cc



350 cc



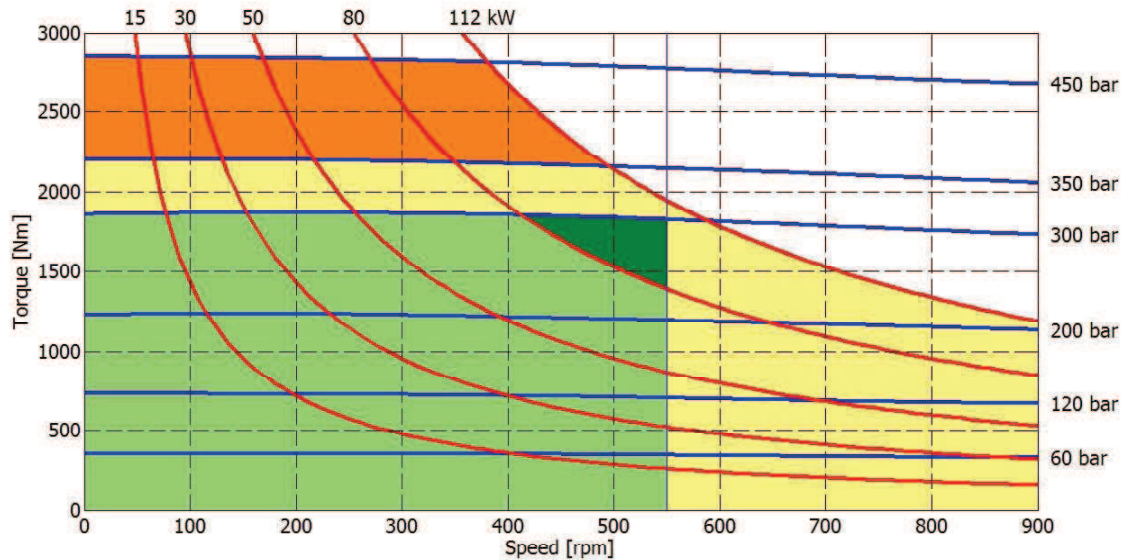
- Continuous operation
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- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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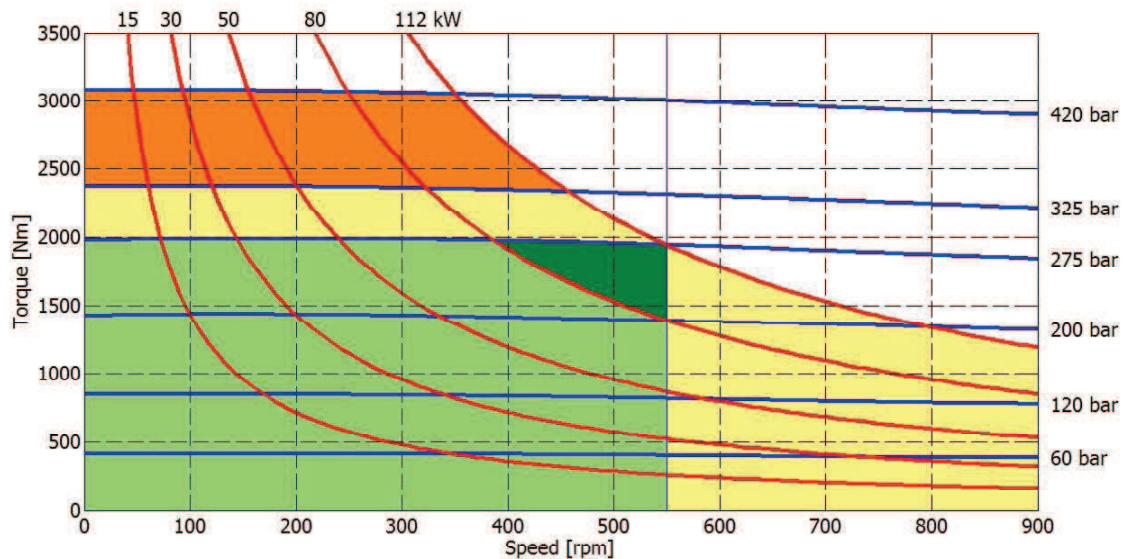
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HCD2- PERFORMANCE DIAGRAMS

400 cc



500 cc

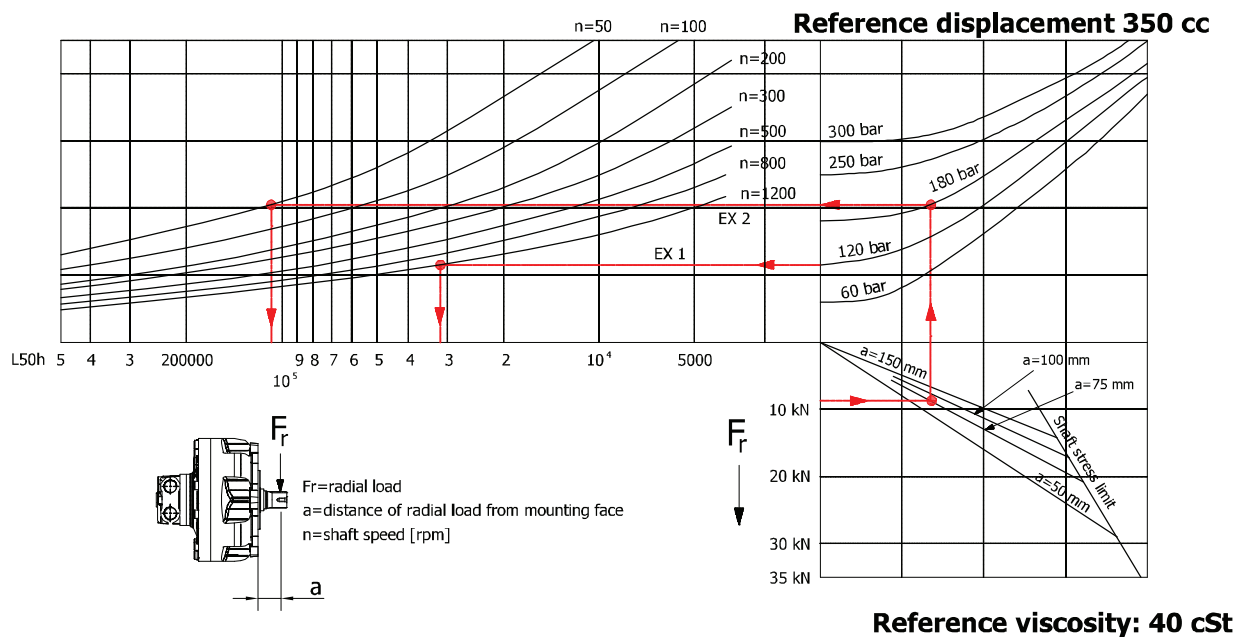


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
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BEARING LIFE



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].

HCD2 - ORDERING CODE

HCD	2	---	--	--	--	--	--	SB -
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DISPLACEMENT

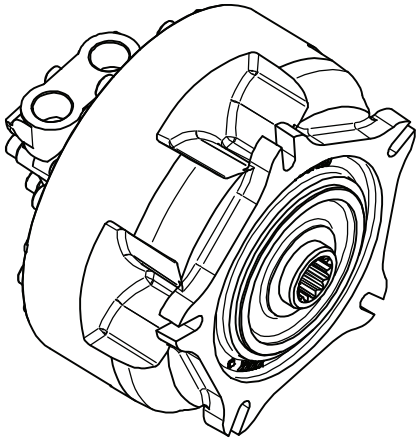
200 250 300 350
400 500

INTERCHANGEABILITY

/C300
/S2

SHAFT

A0 A1
A2 A3
A31



TACHOMETER

J (*)
TA
TB
TT1
TQ1
EST
EST30
EST31

See pag. 84-87

(*) Tachometer predisposition

SPECIAL FEATURES

HSM
See pag. 7

MP
SPSL
HPS
CCW
See pag. 23

Z - -
Italgroup
internal code

DISTRIBUTOR

D31B D36B
D310B D40
D47 D416

See pag. 82-83

SPLINE BILLET

SB3 SB15
SB22

See pag. 88