ITALGROUP SRL
IAMD SERIES - IAMD H3
GENERAL CATALOGUE
INDEX - IAMD H3

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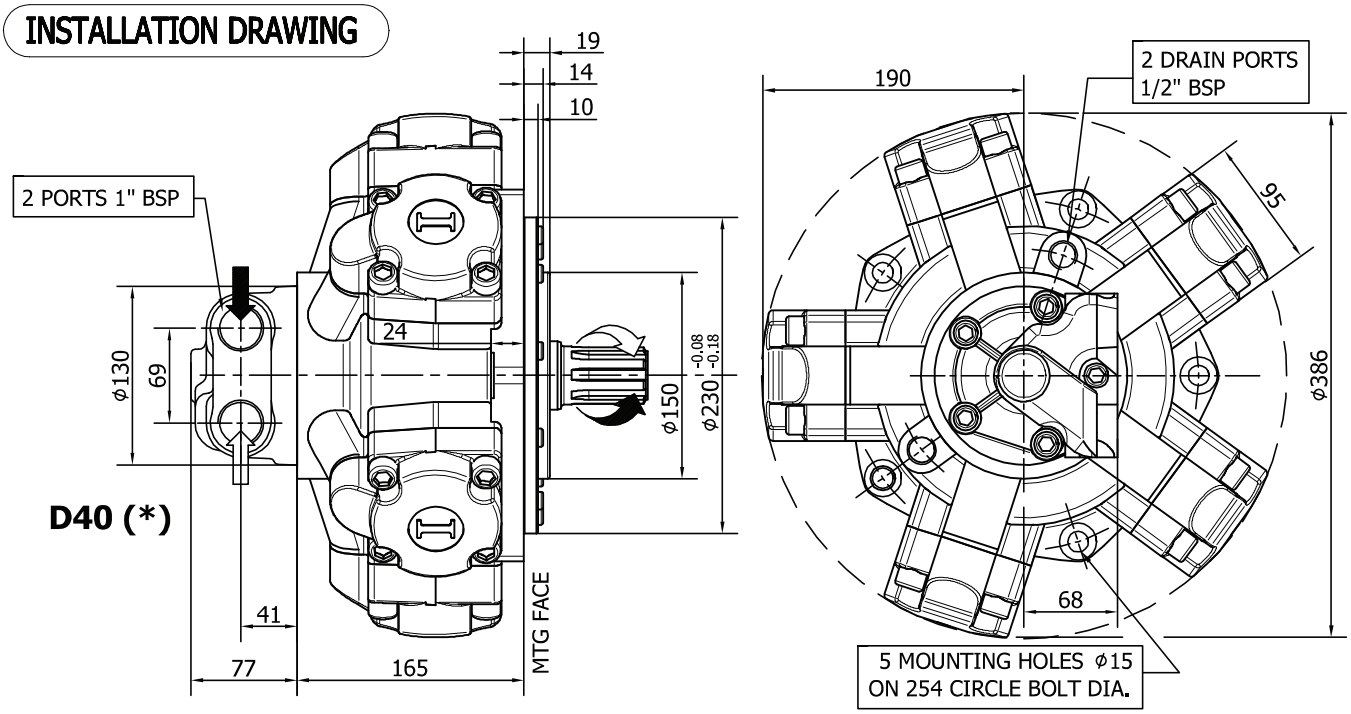
INSTALLATION DRAWING



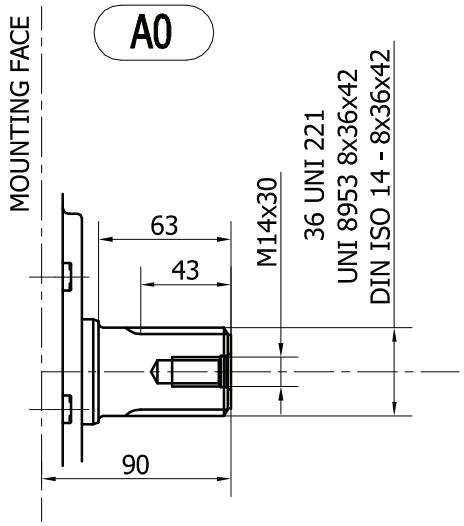
TECHNICAL DATA

		350	400	450	500	600
DISPLACEMENT	[cc]	342	390	452	492	594
SPECIFIC TORQUE	[Nm/bar]	5.44	6.2	7.20	7.80	9,46
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	850	750	650	600	500
PEAK SPEED (***)	[rpm]	950	860	760	690	570
MAX. CONT. POWER (****)	[kW]	80	80	80	80	80
MAX. CONT. POWER WITH FLUSHING	[kW]	120	120	120	120	120
MAX. CASE PRESSURE	[bar]	6	6	6	6	6
DRY WEIGHT	[kg]	68	68	68	68	68
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

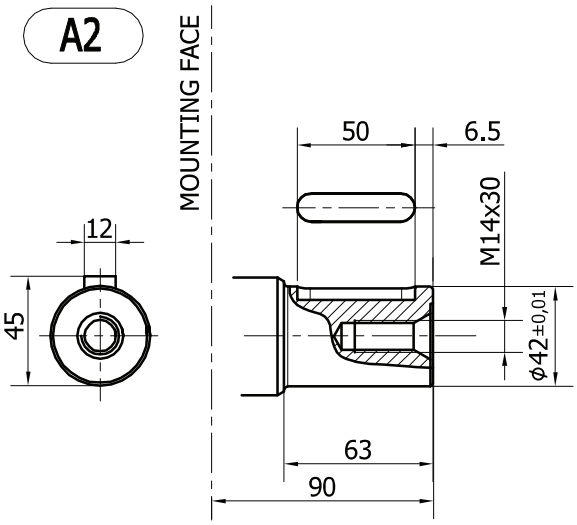
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 148-149) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum continuous power with flushing (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

SHAFT CONFIGURATIONS

A0

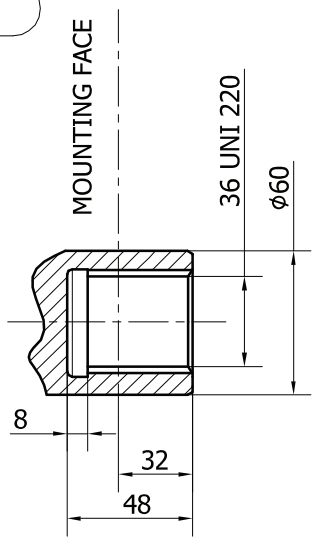


A2



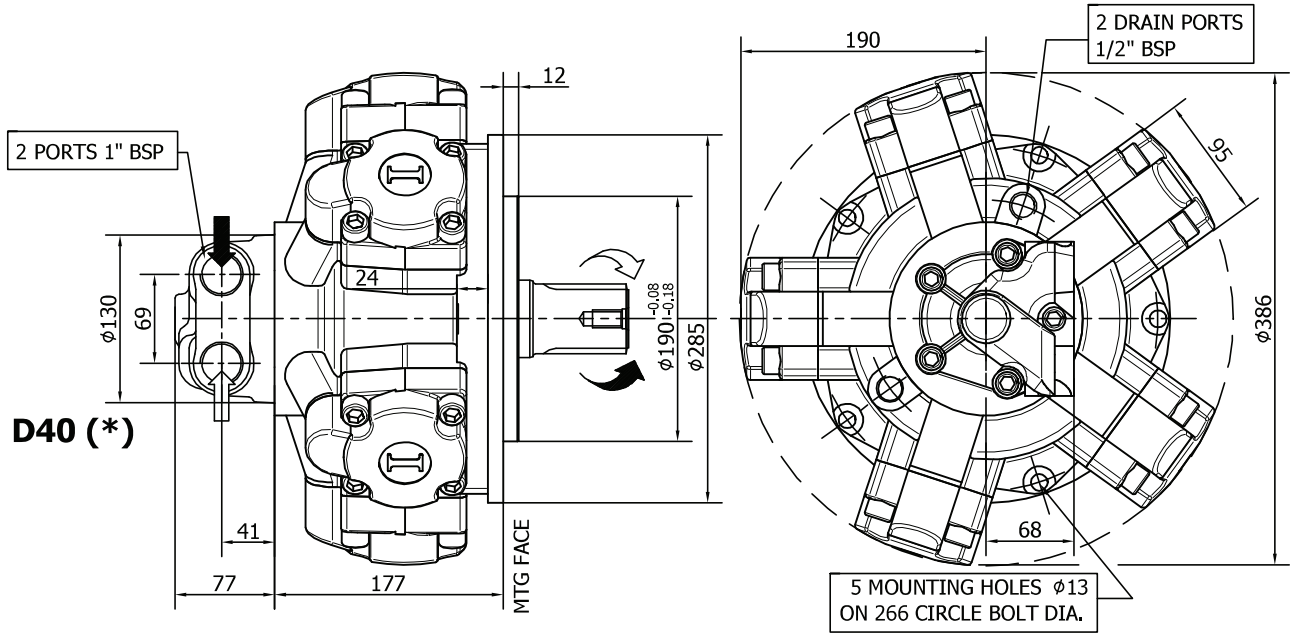
Available spline billet: SB3

A3



INSTALLATION DRAWING

Available distributor flange: FL2
refer to page 156 (distributor fitting D47)



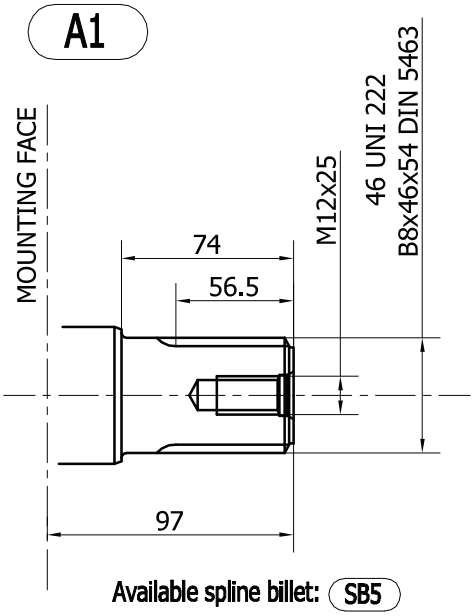
TECHNICAL DATA

		350	400	450	500	600
DISPLACEMENT	[cc]	342	390	452	492	594
SPECIFIC TORQUE	[Nm/bar]	5.44	6.2	7.20	7.80	9,46
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	850	750	650	600	500
PEAK SPEED (***)	[rpm]	950	860	760	690	570
MAX. CONT. POWER (****)	[kW]	80	80	80	80	80
MAX. CONT. POWER WITH FLUSHING	[kW]	120	120	120	120	120
MAX. CASE PRESSURE	[bar]	6	6	6	6	6
DRY WEIGHT	[kg]	68	68	68	68	68
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 148-149) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum continuous power with flushing (see pag. 13).
- (****) 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.

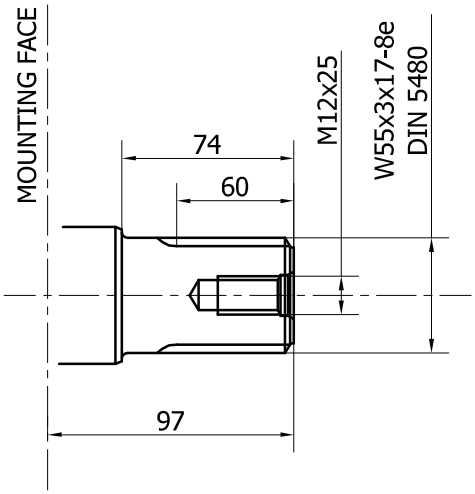
SHAFT CONFIGURATIONS

A1

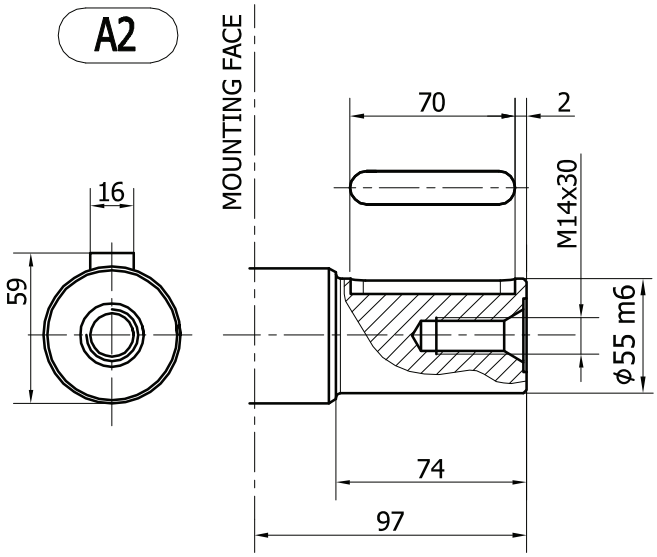


Available spline billet: SB5

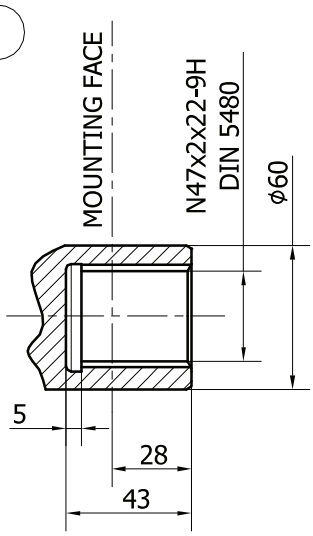
A11



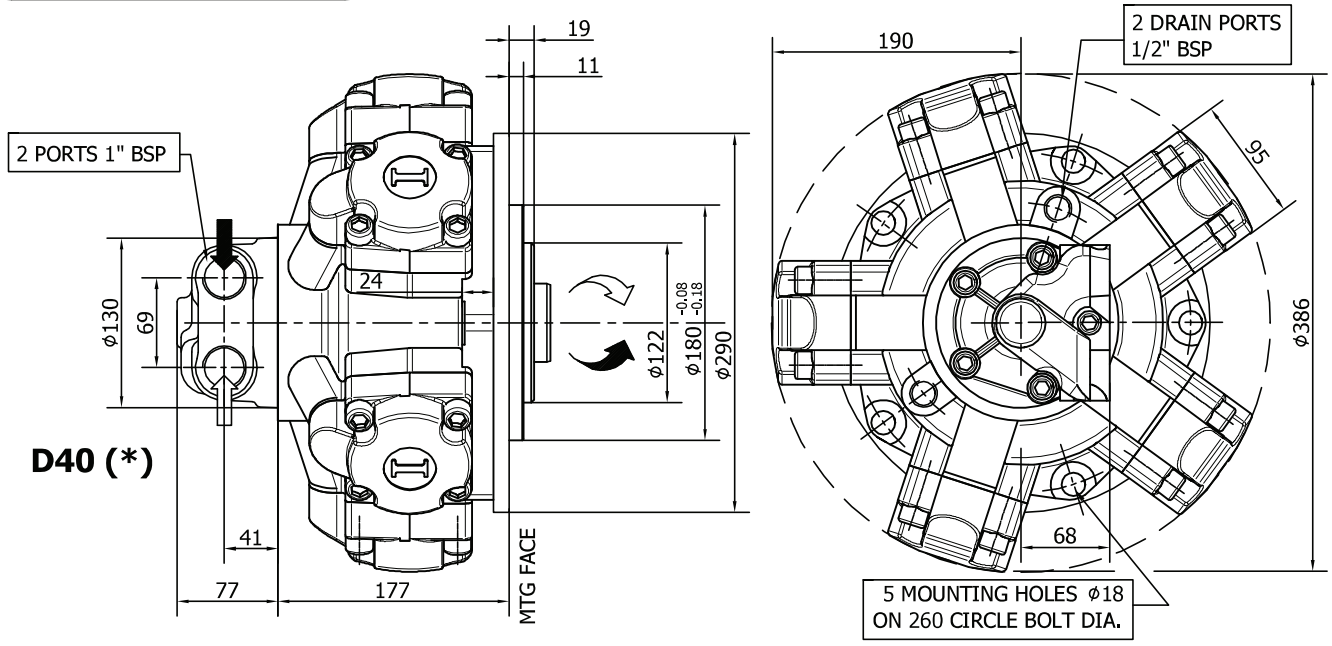
A2



A3



INSTALLATION DRAWING



TECHNICAL DATA

		350	400	450	500	600
DISPLACEMENT	[cc]	342	390	452	492	594
SPECIFIC TORQUE	[Nm/bar]	5.44	6.2	7.20	7.80	9,46
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	850	750	650	600	500
PEAK SPEED (***)	[rpm]	950	860	760	690	570
MAX. CONT. POWER (****)	[kW]	80	80	80	80	80
MAX. CONT. POWER WITH FLUSHING	[kW]	120	120	120	120	120
MAX. CASE PRESSURE	[bar]	6	6	6	6	6
DRY WEIGHT	[kg]	68	68	68	68	68
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 148-149) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
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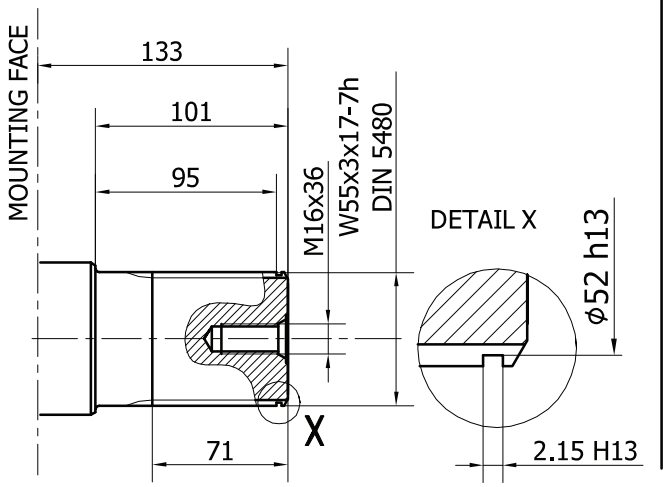
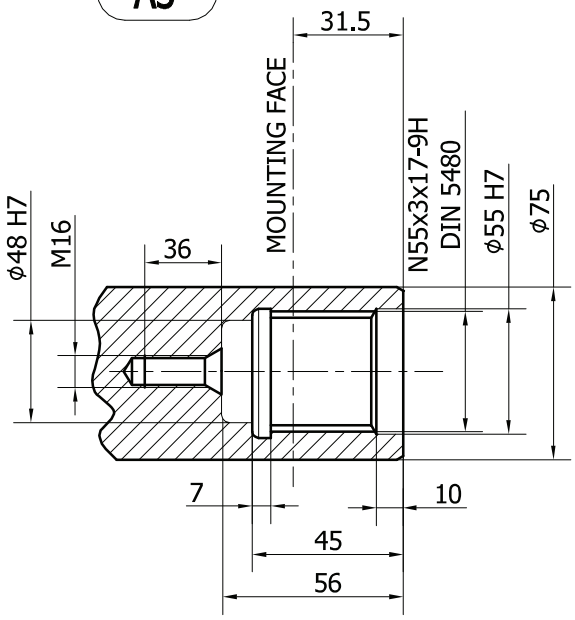
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

SHAFT CONFIGURATIONS

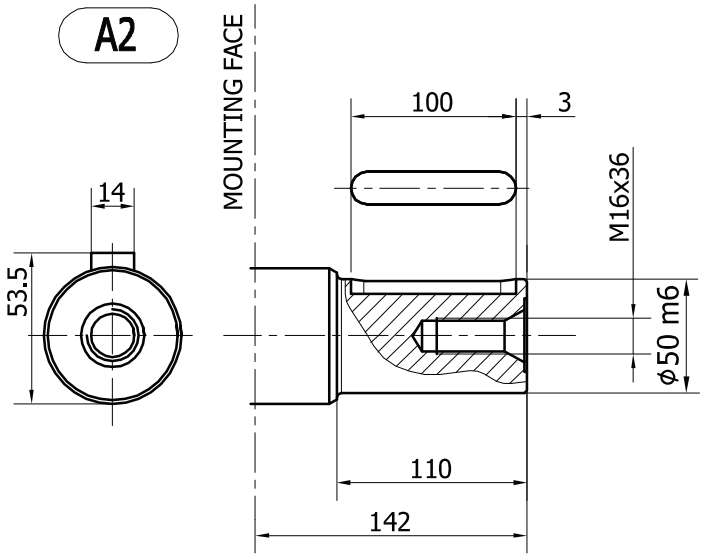
A11



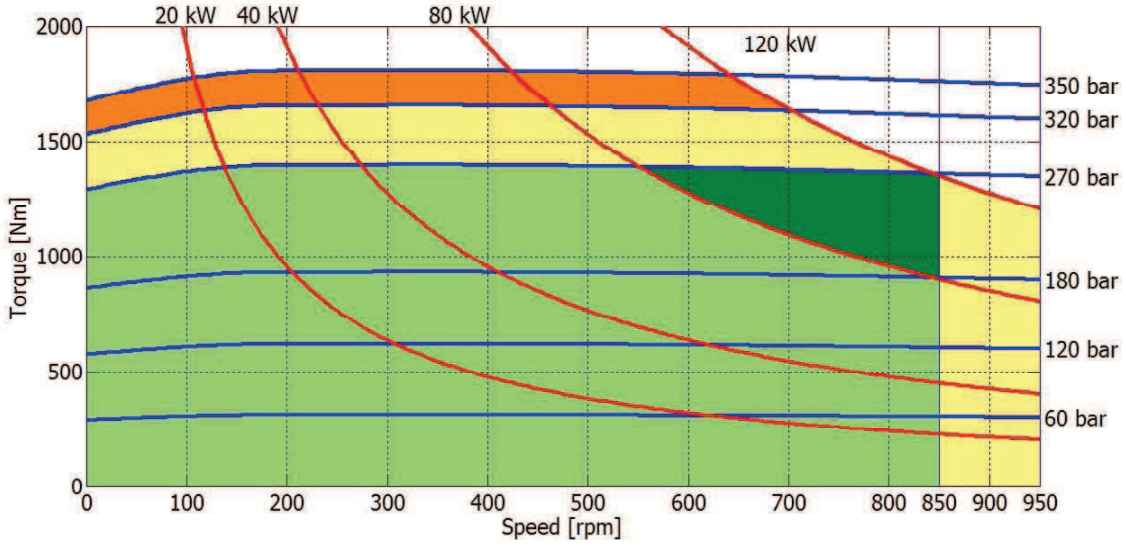
A3



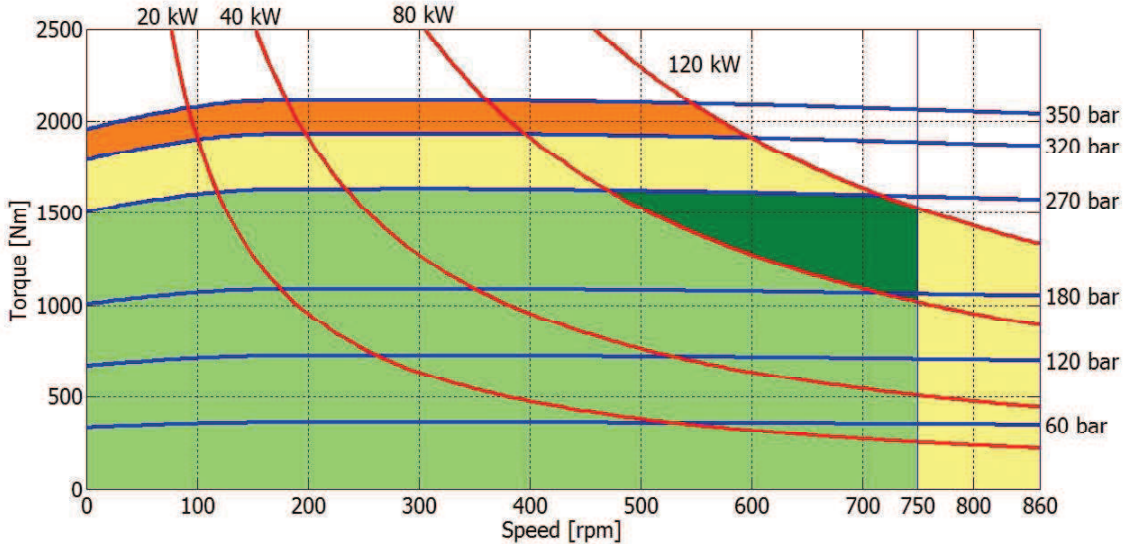
A2



350 cc



400 cc



Continuous operation

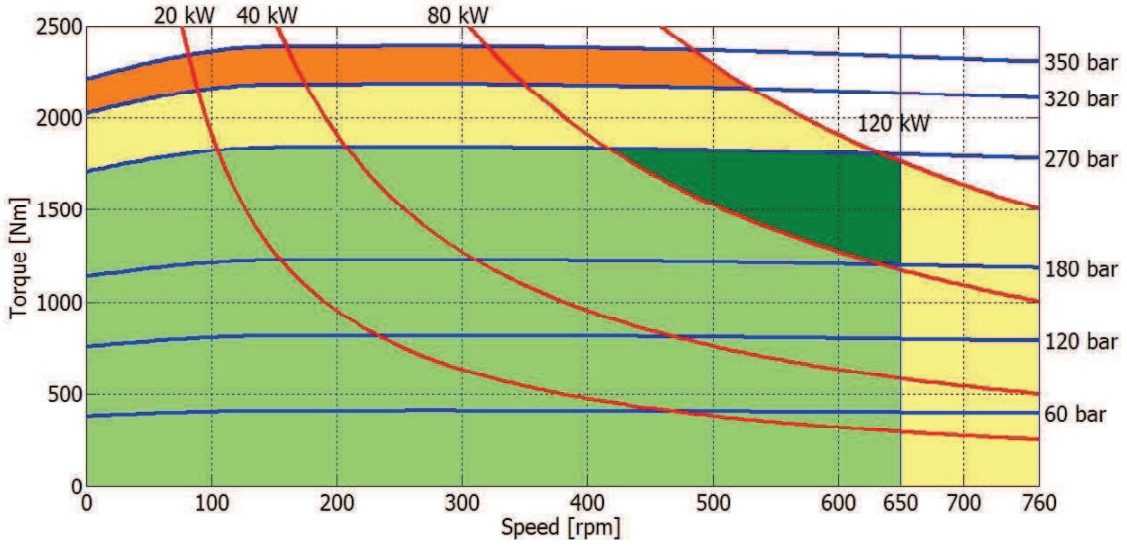
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

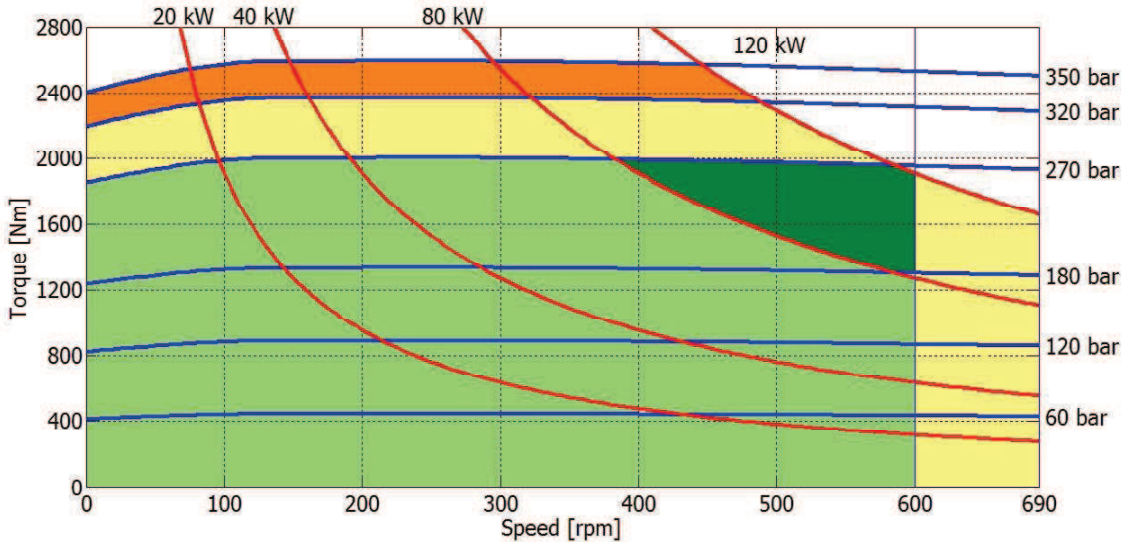
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

450 cc



500 cc



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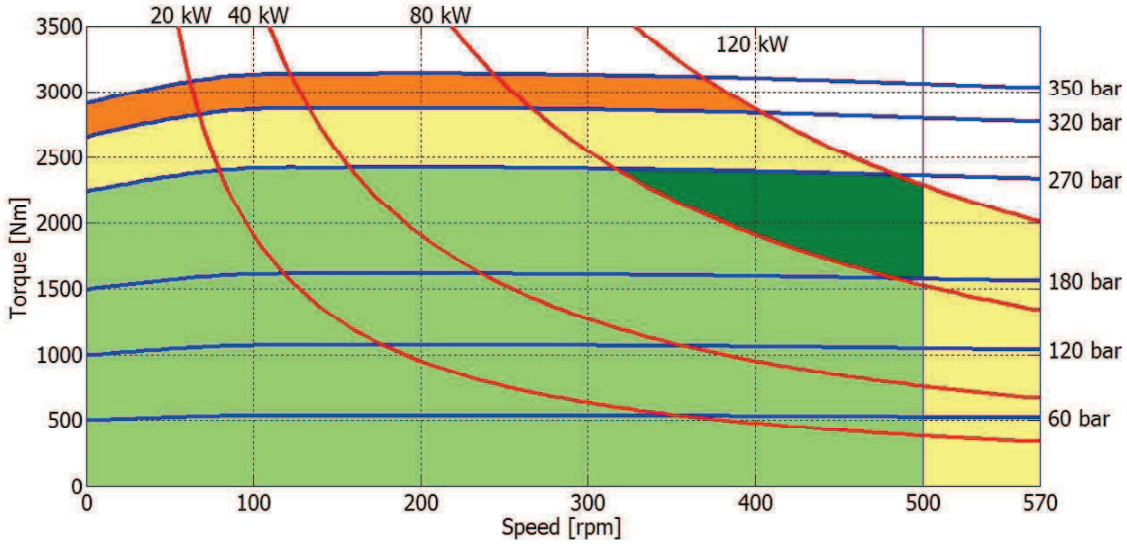
600 cc



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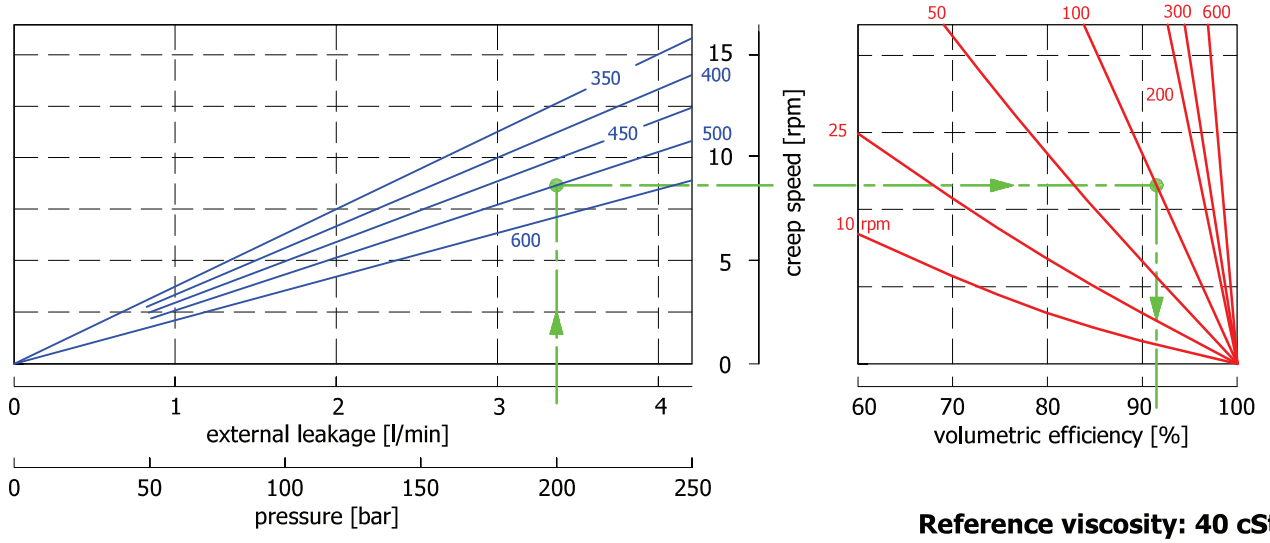
CREEP SPEED - VOLUMETRIC EFFICIENCY

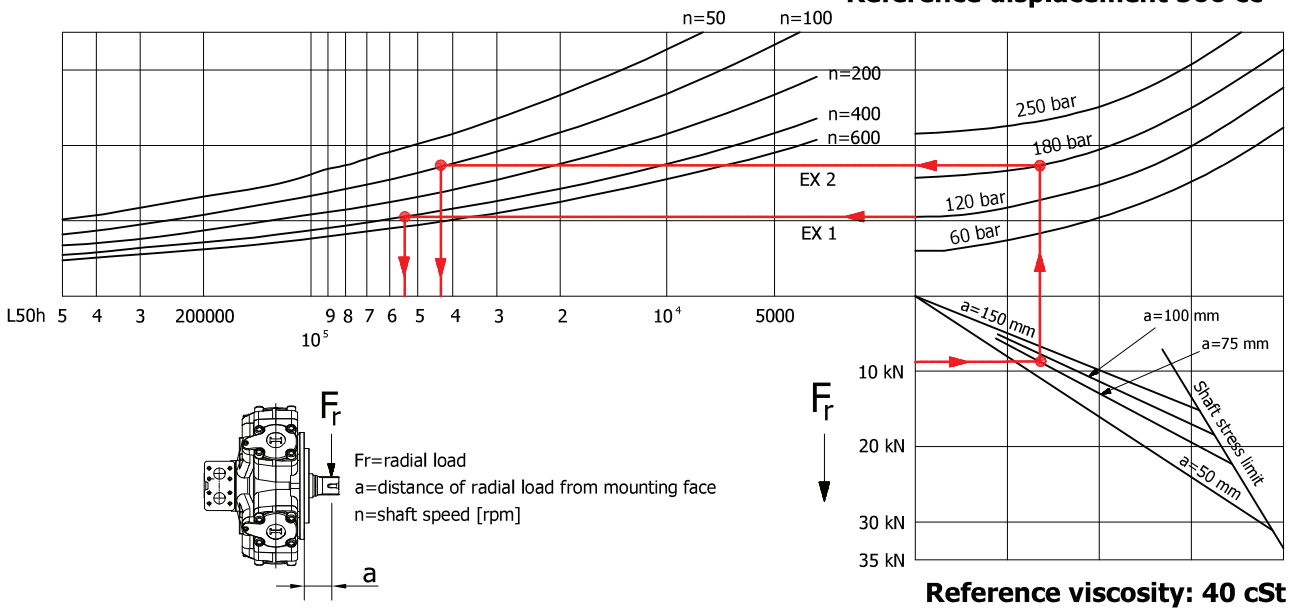


Reference viscosity: 40 cSt

Example:
We suppose (500 cc): p=200 [bar], we obtain: external leakage 3,3 [l/min], shaft creep speed 8,5 [rpm].
If we suppose (500 cc): p=200 [bar] and n=100 [rpm] we obtain a volumetric efficiency of 91,5%;

BEARING LIFE

Reference displacement 500 cc



Reference viscosity: 40 cSt

Example:
We suppose (EX1): p=120 [bar], n=400 [rpm]; we obtain an average lifetime of 53000 [h].
If we suppose (EX2): F_r=9 [kN], a=75 [mm], n=100 [rpm] and p=180 [bar] we obtain an average lifetime of 42000 [h].

IAMD H3 - ORDERING CODE

IAMD - - - - H3 - - - - - - - - - - SB -

DISPLACEMENT
- 350
- 400
- 450
- 500
- 600

INTERCHAGEABILITY
- /C
- /RM

SERIE
- H3

SHAFT
- A0
- A1
- A3

DISTRIBUTOR
- D40
- D40J
- D47
- D47J

See pag. 148-149

TACHOMETER
- TA
- TB
- TT1
- TQ1
- EST
- EST30
- EST31

See pag. 150-153

SPECIAL FEATURES
- MP
- SPSL
- HPS
- CCW

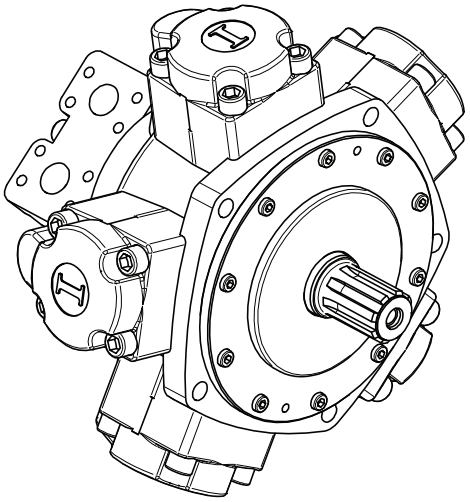
See pag. 23

- Z - -

Italgroup internal code

SPLINE BILLET
- SB3
- SB5

See pag. 154-155



EXAMPLES:

IAMD 450/C H3 A1 D47
IAMD 600 H3 A0 D40J EST30 CCW
IAMD 500/C H3 A1 D40 SB5