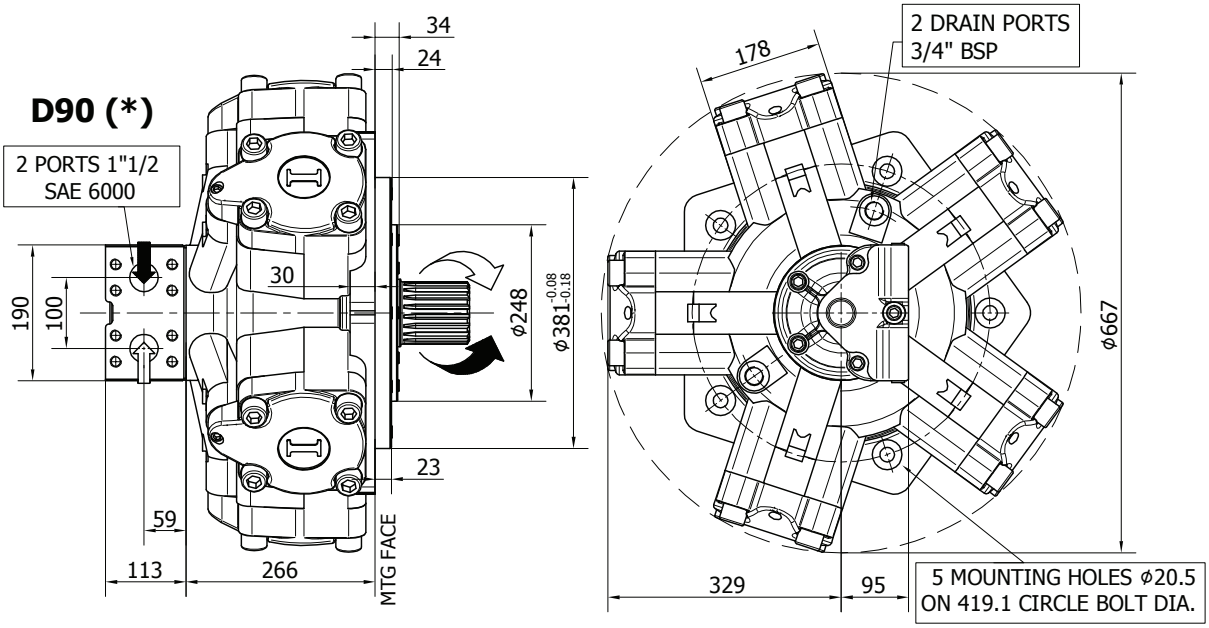
# ITALGROUP SRL
# IAM SERIES - IAM H6
# GENERAL CATALOGUE
# INDEX - IAM H6

## INSTALLATION DRAWING

Available distributor flange: FL7
for S04, refer to page 187 (distributor fitting D90)



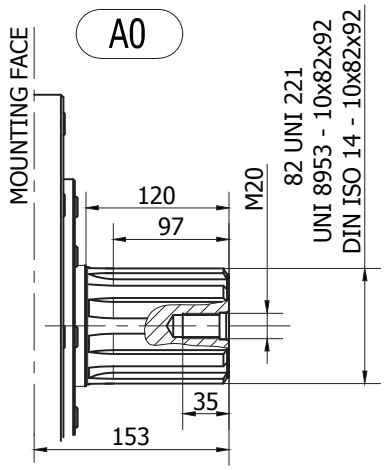

## TECHNICAL DATA

| | | 2200 | 2500 | 2800 | 3000 | 3200 | 3500 |
|---|---|---|---|---|---|---|---|
| DISPLACEMENT | [cc] | 2206 | 2525 | 2807 | 2983 | 3289 | 3479 |
| SPECIFIC TORQUE | [Nm/bar] | 35.1 | 40.2 | 44.7 | 47.5 | 52.3 | 55.4 |
| MAX. CONT. PRESSURE | [bar] | 250 | 250 | 250 | 250 | 250 | 250 |
| HYDROSTATIC TEST PRESSURE | [bar] | 420 | 420 | 420 | 420 | 420 | 420 |
| MAX. CONT. SPEED | [rpm] | 220 | 220 | 220 | 210 | 200 | 200 |
| PEAK SPEED (***) | [rpm] | 260 | 260 | 260 | 250 | 240 | 240 |
| MAX. CONT. POWER (****) | [kW] | 120 | 120 | 120 | 120 | 120 | 120 |
| MAX. POWER | [kW] | 170 | 170 | 170 | 170 | 170 | 170 |
| MAX. CASE PRESSURE | [bar] | 6 | 6 | 6 | 6 | 6 | 6 |
| DRY WEIGHT | [kg] | 308 | 308 | 308 | 308 | 308 | 308 |
| TEMPERATURE RANGE (**) | [°C] | -30÷70 | -30÷70 | -30÷70 | -30÷70 | -30÷70 | -30÷70 |

- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 176-177) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (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.

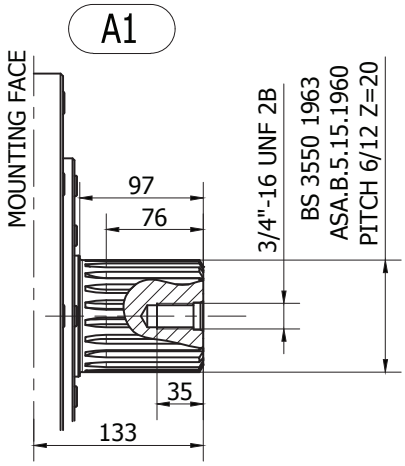
## SHAFT CONFIGURATIONS

### A0



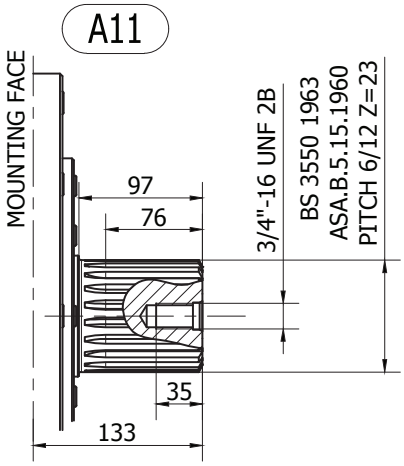

Available spline billet: SB9

### A1



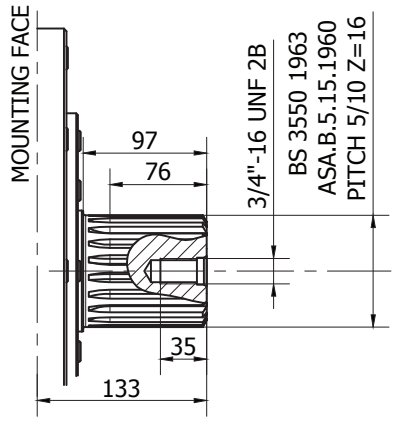

Available spline billet: SB10

### A11



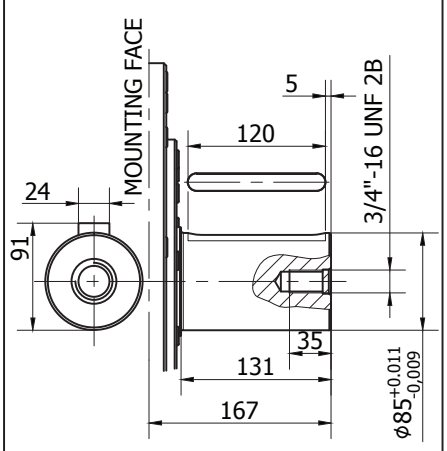

Available spline billet: SB24

### A12

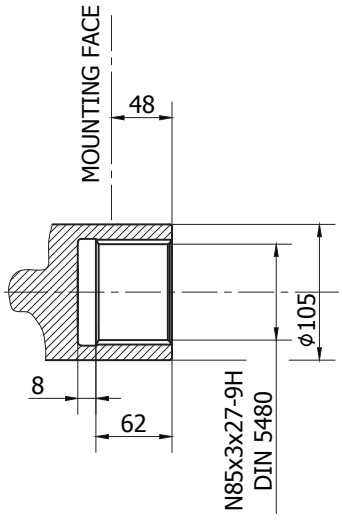



Available spline billet: SB27

### A2

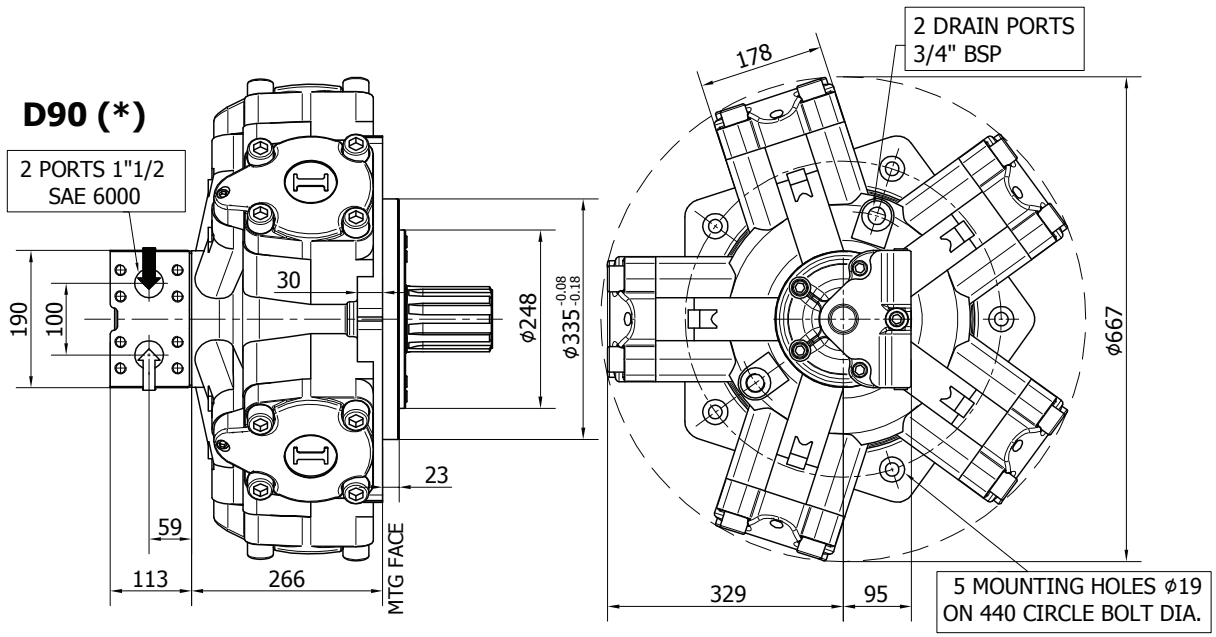



### A3



## INSTALLATION DRAWING

Available distributor flange: FL10
refer to page 185 (distributor fitting D75)



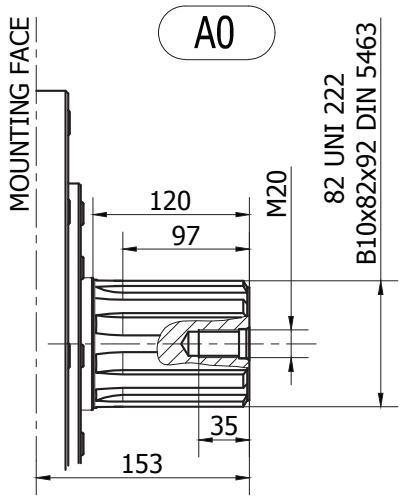

## TECHNICAL DATA

| | | 2200 | 2500 | 2800 | 3000 | 3200 | 3500 |
|---|---|---|---|---|---|---|---|
| DISPLACEMENT | [cc] | 2206 | 2525 | 2807 | 2983 | 3289 | 3479 |
| SPECIFIC TORQUE | [Nm/bar] | 35.1 | 40.2 | 44.7 | 47.5 | 52.3 | 55.4 |
| MAX. CONT. PRESSURE | [bar] | 250 | 250 | 250 | 250 | 250 | 250 |
| HYDROSTATIC TEST PRESSURE | [bar] | 420 | 420 | 420 | 420 | 420 | 420 |
| MAX. CONT. SPEED | [rpm] | 220 | 220 | 220 | 210 | 200 | 200 |
| PEAK SPEED (***) | [rpm] | 260 | 260 | 260 | 250 | 240 | 240 |
| MAX. CONT. POWER (****) | [kW] | 120 | 120 | 120 | 120 | 120 | 120 |
| MAX. POWER | [kW] | 170 | 170 | 170 | 170 | 170 | 170 |
| MAX. CASE PRESSURE | [bar] | 6 | 6 | 6 | 6 | 6 | 6 |
| DRY WEIGHT | [kg] | 308 | 308 | 308 | 308 | 308 | 308 |
| TEMPERATURE RANGE (**) | [°C] | -30÷70 | -30÷70 | -30÷70 | -30÷70 | -30÷70 | -30÷70 |

- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 176-177) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (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.

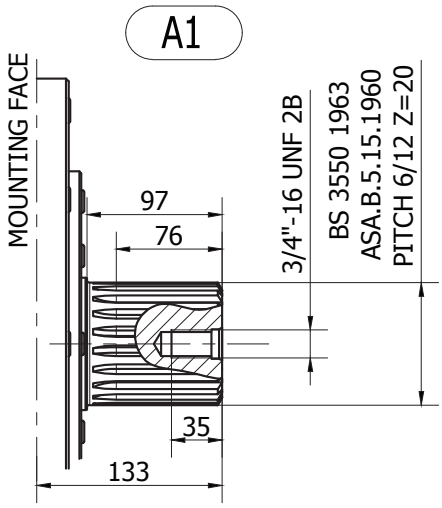
## SHAFT CONFIGURATIONS

### A0



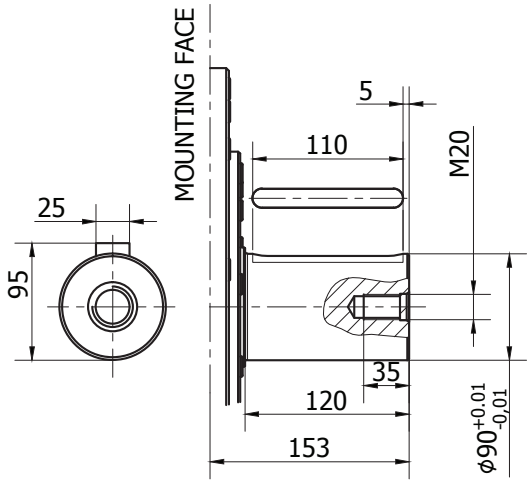

Available spline billet: SB9

### A1

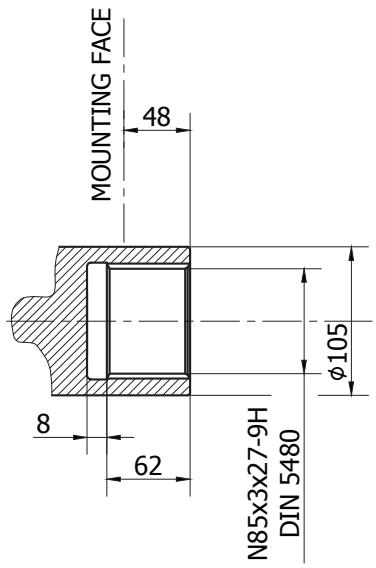



Available spline billet: SB10

### A2

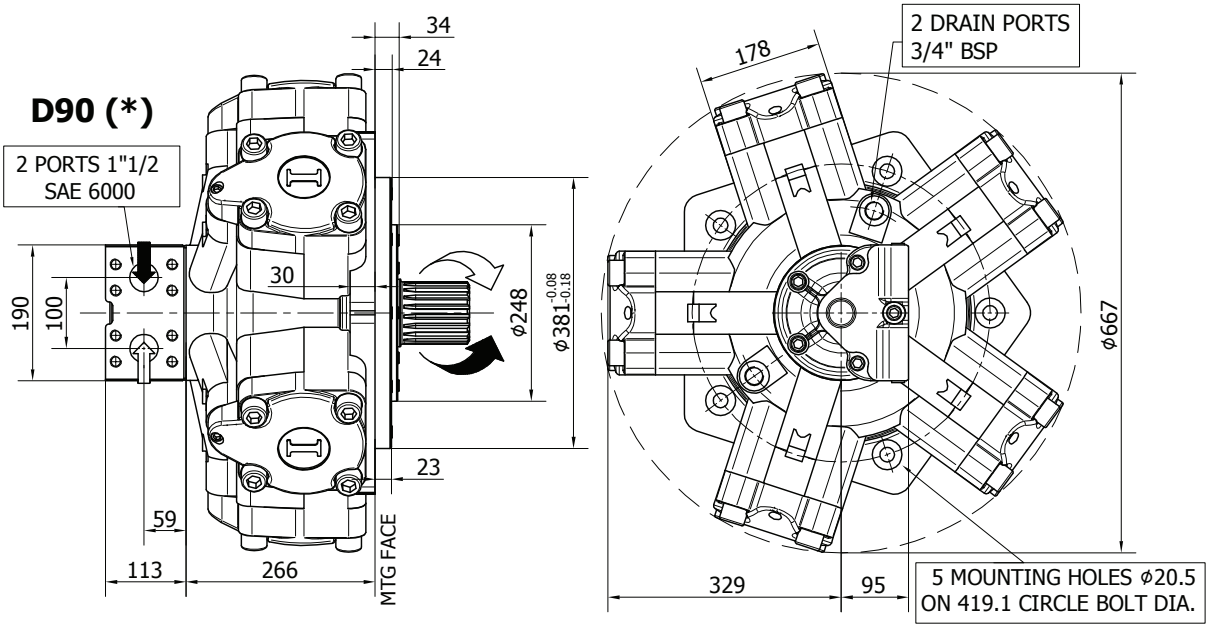



### A3



## INSTALLATION DRAWING

Available distributor flange: FL7
for S04, refer to page 187 (distributor fitting D90)



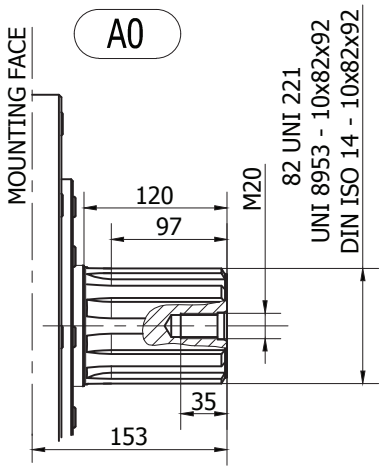

## TECHNICAL DATA

| | | 2200 | 2500 | 3000 |
|---|---|---|---|---|
| DISPLACEMENT | [cc] | 2206 | 2525 | 2983 |
| SPECIFIC TORQUE | [Nm/bar] | 35.1 | 40.2 | 47.5 |
| MAX. CONT. PRESSURE | [bar] | 250 | 250 | 250 |
| HYDROSTATIC TEST PRESSURE | [bar] | 420 | 420 | 420 |
| MAX. CONT. SPEED | [rpm] | 220 | 220 | 210 |
| PEAK SPEED (***) | [rpm] | 260 | 260 | 250 |
| MAX. CONT. POWER (****) | [kW] | 120 | 120 | 120 |
| MAX. POWER | [kW] | 170 | 170 | 170 |
| MAX. CASE PRESSURE | [bar] | 6 | 6 | 6 |
| DRY WEIGHT | [kg] | 308 | 308 | 308 |
| TEMPERATURE RANGE (**) | [°C] | -30÷70 | -30÷70 | -30÷70 |

- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 176-177) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (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.

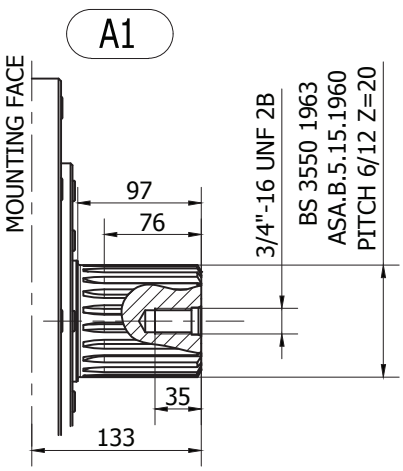
## SHAFT CONFIGURATIONS

### A0



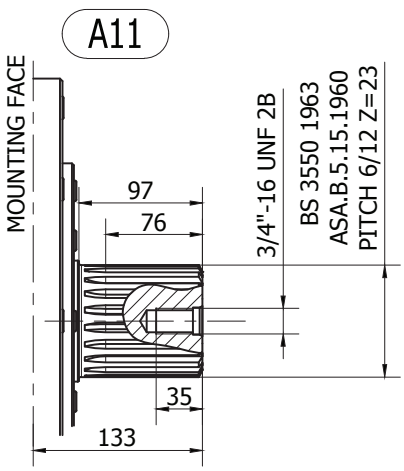

Available spline billet: SB9

### A1



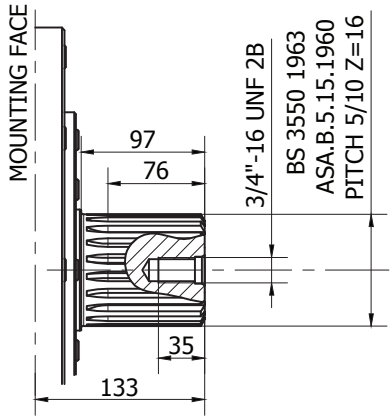

Available spline billet: SB10

### A11



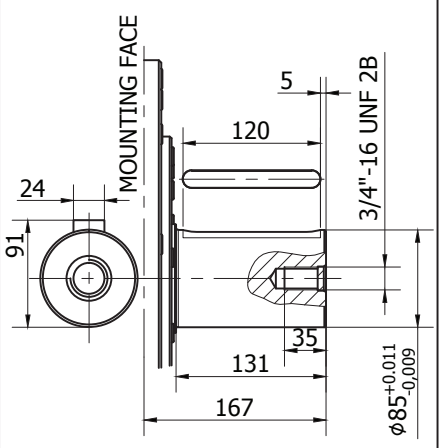

Available spline billet: SB24

### A12

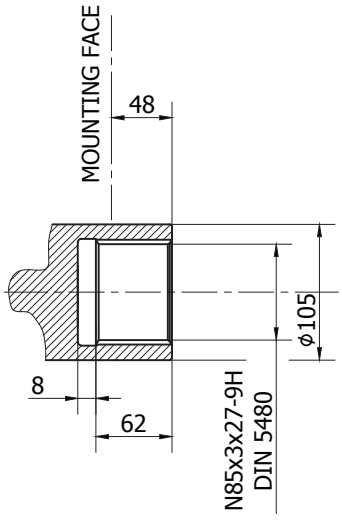



Available spline billet: SB27

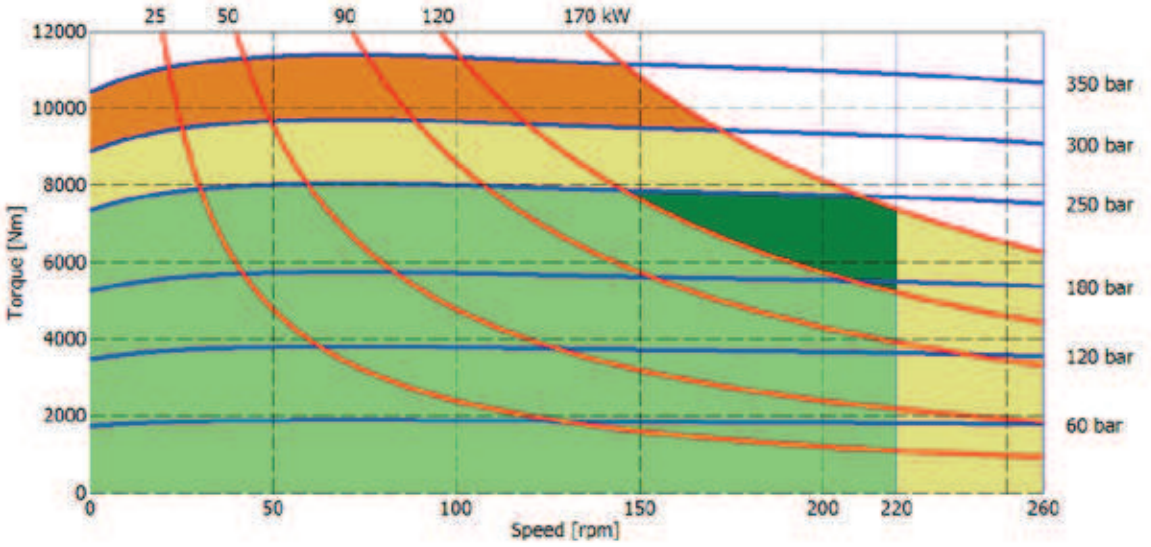
### A2



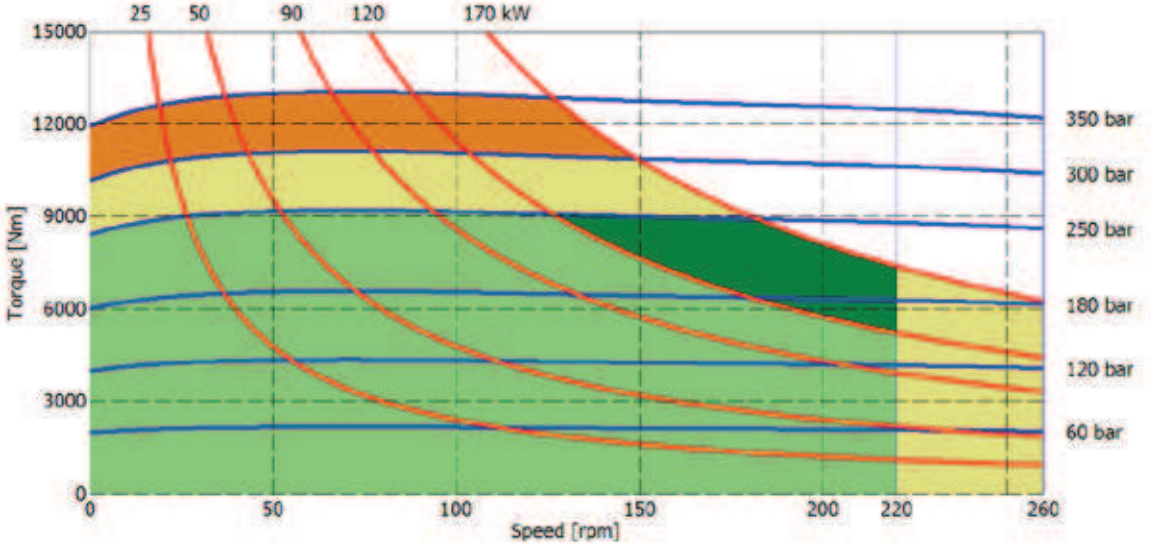

### A3



## 2200 cc




## 2500 cc




Continuous operation

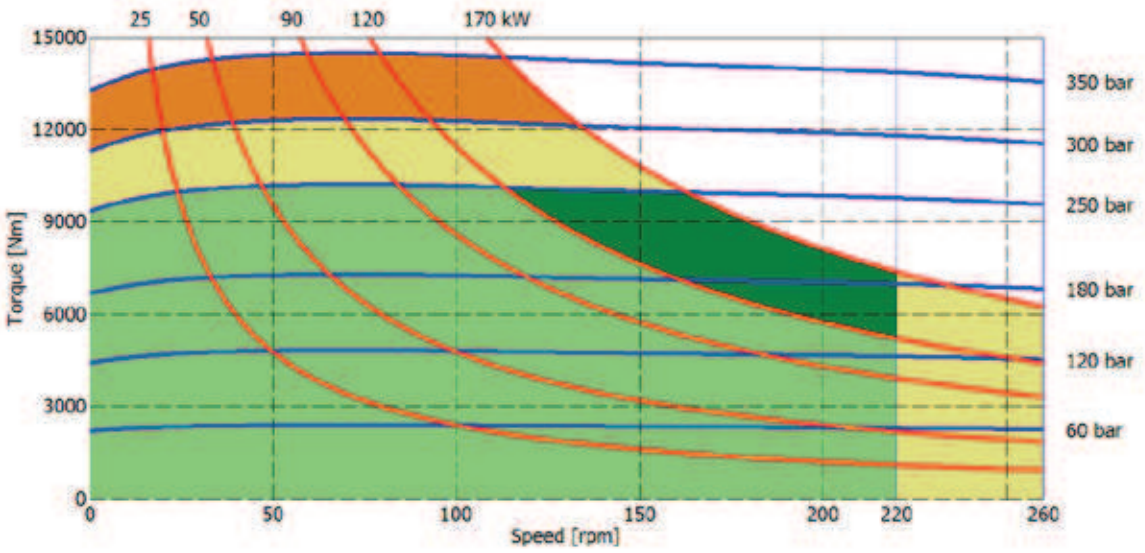
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

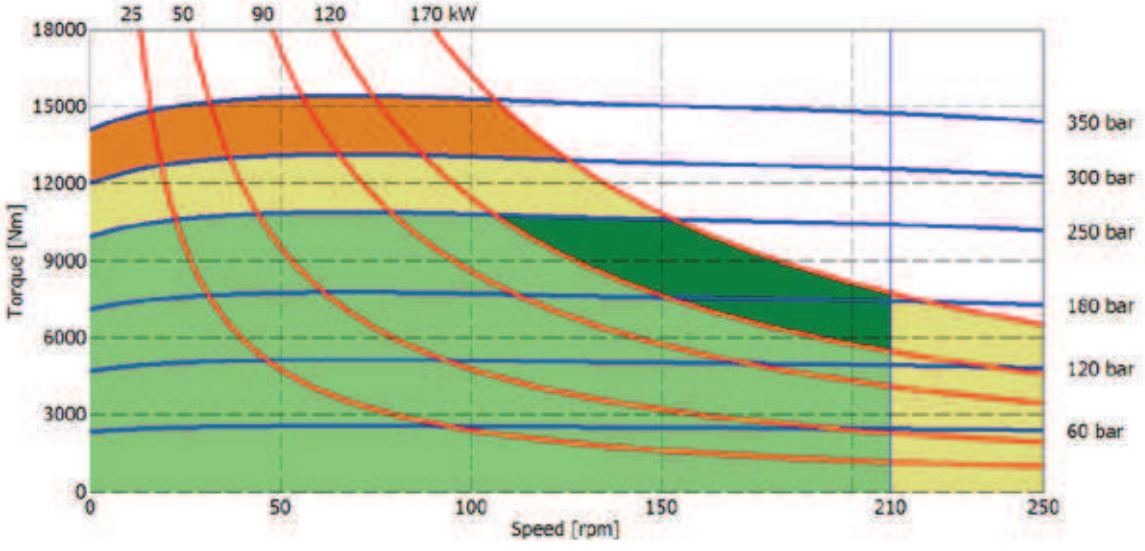
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

**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.

## 2800 cc




## 3000 cc




Continuous operation

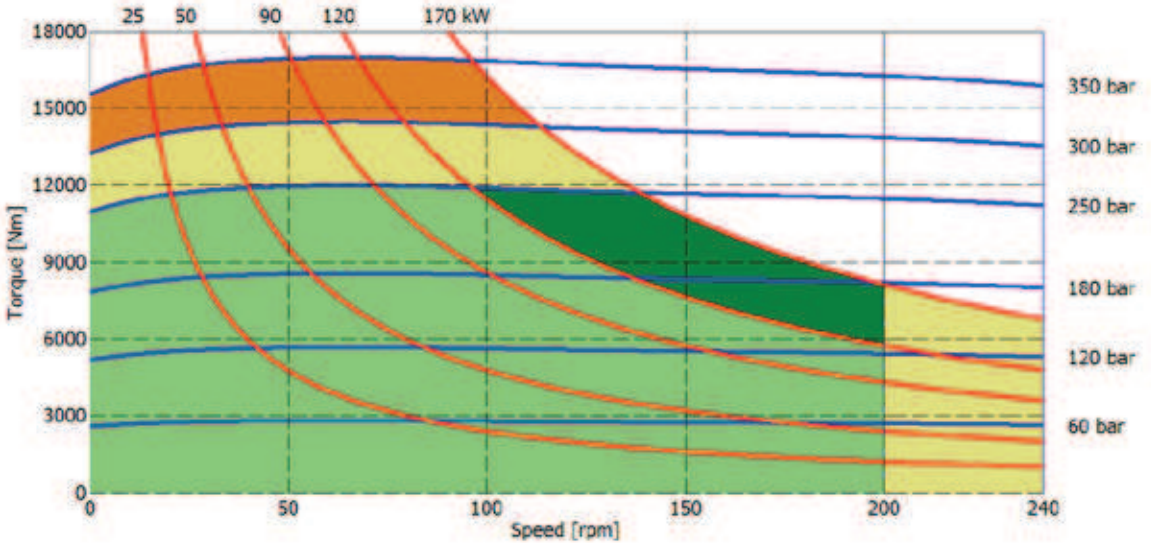
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

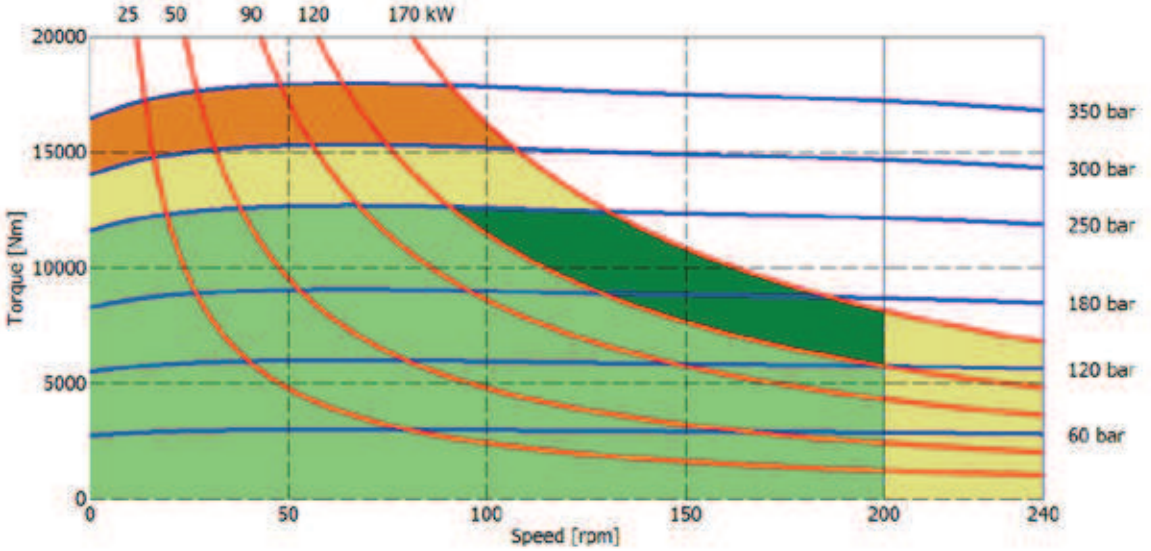
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

**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.

## 3200 cc




## 3500 cc




Continuous operation

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

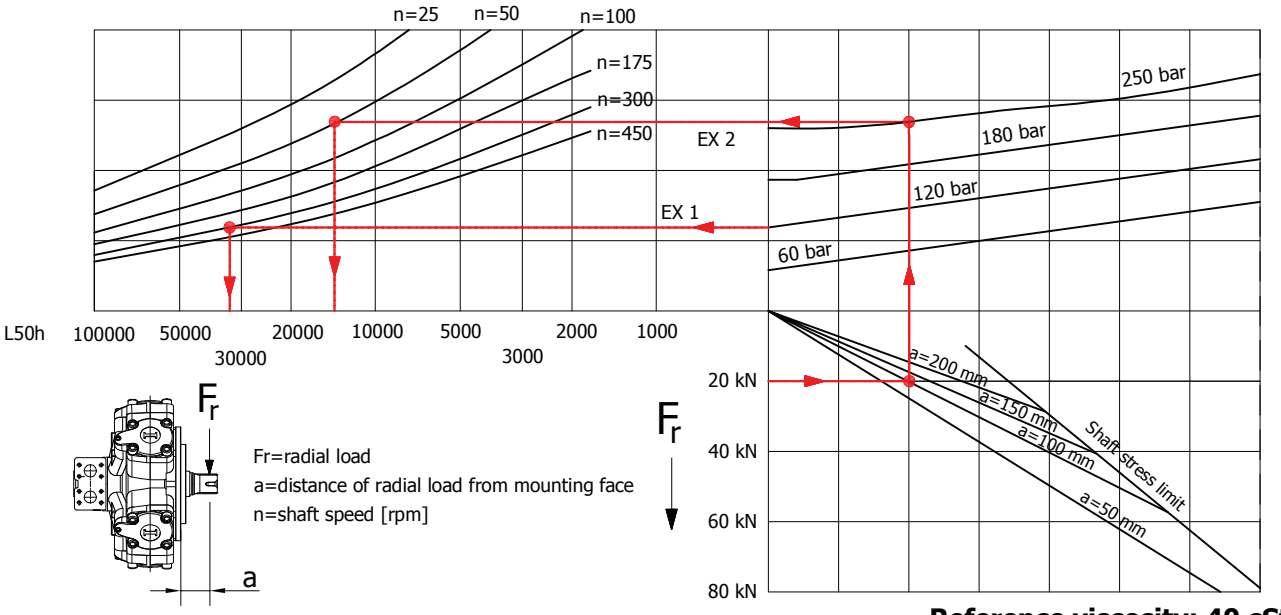
Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period

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.

## BEARING LIFE

**Reference displacement 3000 cc**




**Reference viscosity: 40 cSt**

Example:
We suppose (EX1): p=120 [bar], n=300 [rpm]; we obtain an average lifetime of 34000 [h].
If we suppose (EX2): $F_r$=20 [kN], a=100 [mm], n=50 [rpm] and p=250 [bar] we obtain an average lifetime of 13000 [h].

**The above data are referring to the IAM H6 series motors, displacement 3000 cc.**

# IAM H6 - ORDERING CODE

IAM - - - - H6 - - - - - - - - - - - - SB -

**DISPLACEMENT**
- 2200
- 2500
- 2800
- 3000
- 3200
- 3500

**INTERCHAGEABILITY**
- /C
- /B125
- /B150
- /B200
- /GM5

**SERIE**
- H6

**SHAFT**
- A0
- A1
- A11
- A12
- A2
- A3

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

See pag. 178-181

**SPECIAL FEATURES**
- MP
- SPSL
- HPS
- CCW

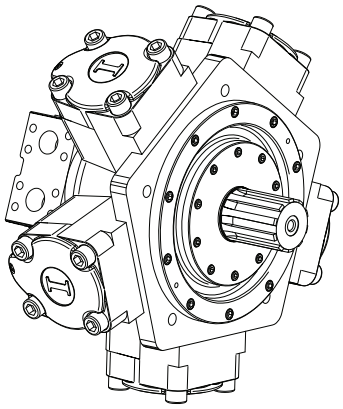
See pag. 23

- Z - -

Italgroup internal code

**SPLINE BILLET**
- SB9
- SB10
- SB24
- SB27

See pag. 182-183



- D31B
- D31BJ
- D36B
- D36BJ
- D310B
- D310BJ
- D40
- D40J
- D47
- D47J
- D416
- D416J
- D75
- D75J
- D90
- D90J

See pag. 176-177

## EXAMPLES:

IAM 2200 H6 A1 D90J
IAM 3000 H6 A0 D90 SB9
IAM 2500/C H6 A0 D90J CCW SB9