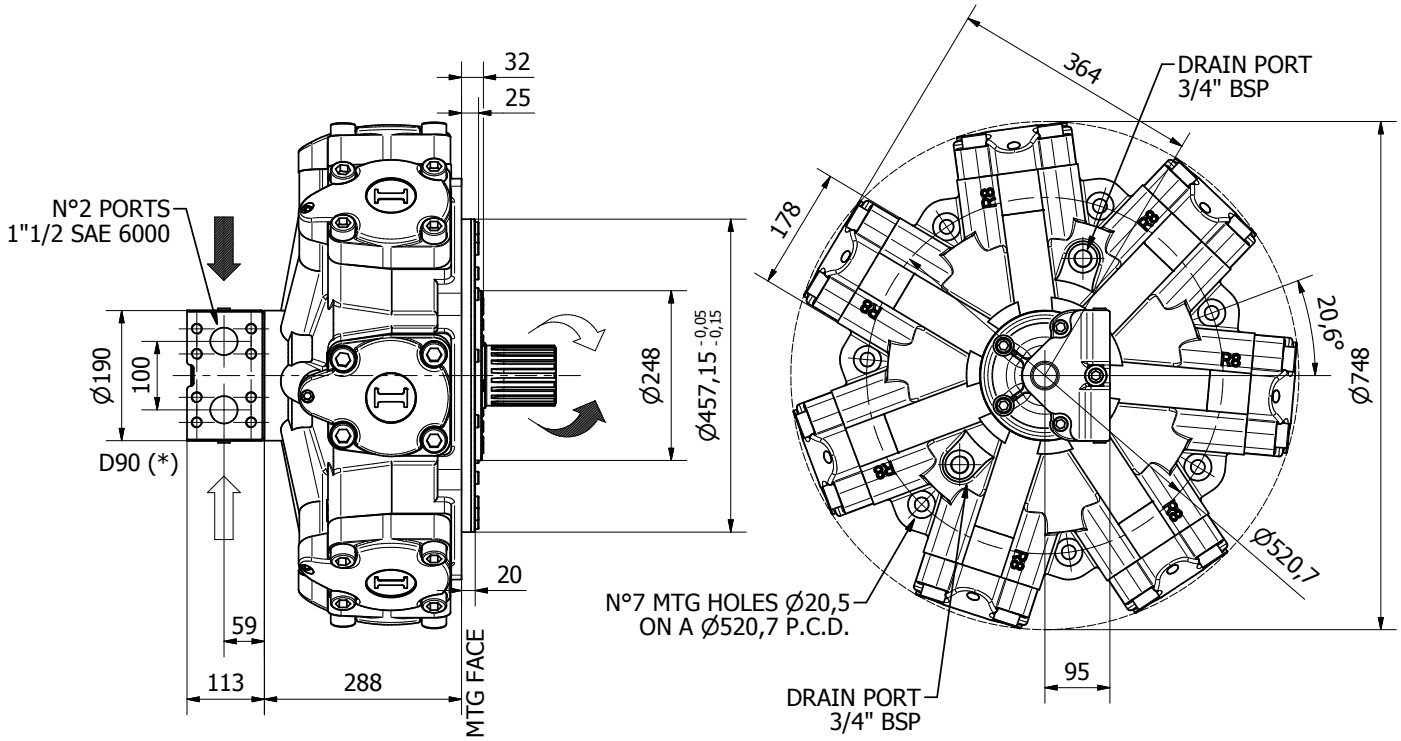
R8D H7

R8D H7	Pag. 136 - 139
R8D H7/C	Pag. 140 - 141
R8D H7/RM	Pag. 142 - 143
R8D H7 - PERFORMANCE CURVES	Pag. 144 - 148
R8D H7 - ORDERING CODE	Pag. 149

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R8D H7



Available distributor flange: FL16

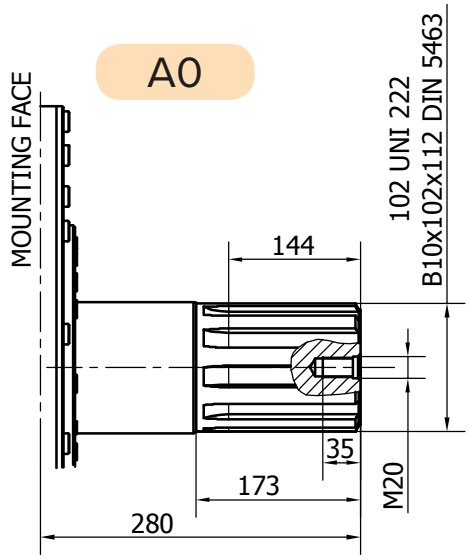
For S04, refer to page 186-187
(distributor fitting D90)

TECHNICAL DATA

		3400	3600	3900	4300	4600	5000	5400
DISPLACEMENT	[cc]	3413	3650	3907	4343	4616	5088	5384
SPECIFIC TORQUE	[Nm/bar]	54.3	58.1	62.2	69.1	73.5	81.0	85.7
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	200	185	175	160	150	140	130
PEAK SPEED (***)	[rpm]	220	210	200	190	190	180	170
MAX. CONT. POWER (****)	[kW]	238	238	238	238	238	238	230
MAX. POWER	[kW]	265	265	265	265	265	265	258
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	405	405	405	405	405	405	405
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

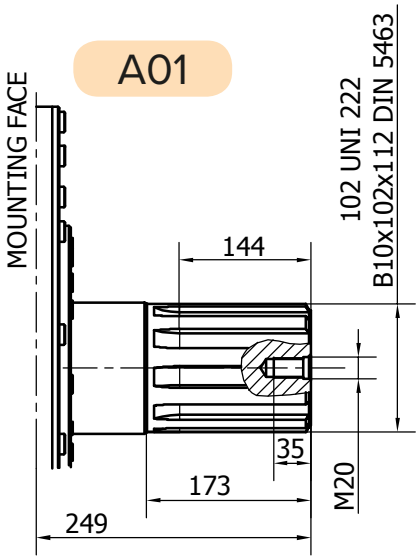
- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 174-175) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

A0



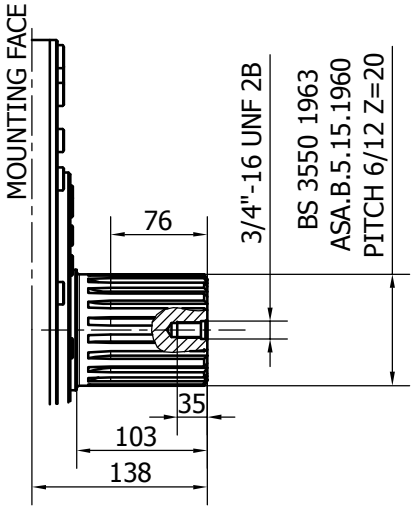
Available spline billet: SB11

A01



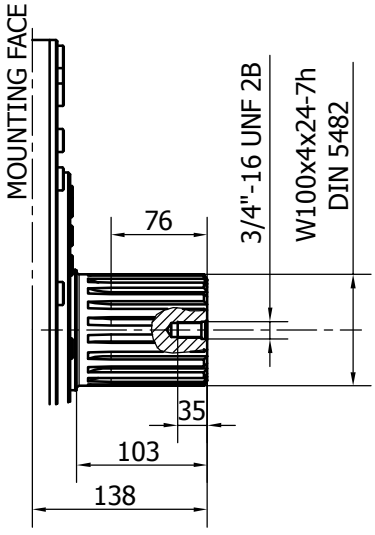
Available spline billet: SB11

A1



Available spline billet: SB10

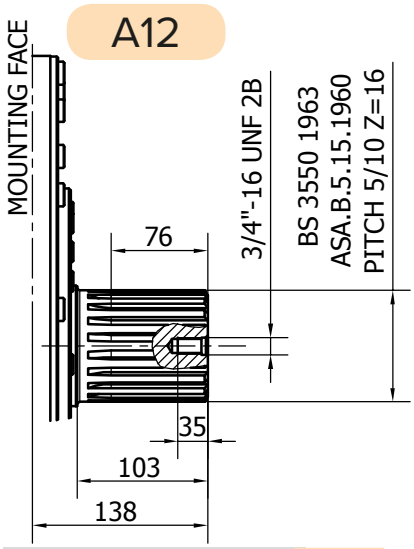
A11



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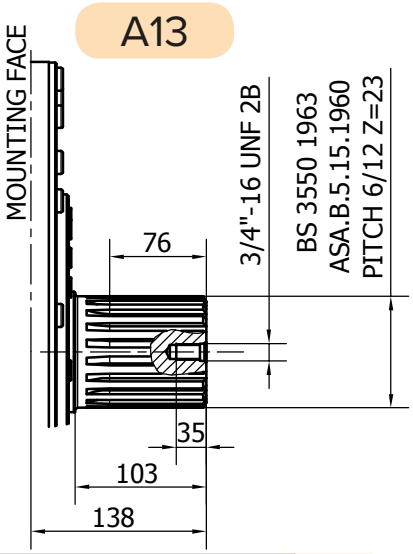
R8D H7

A12



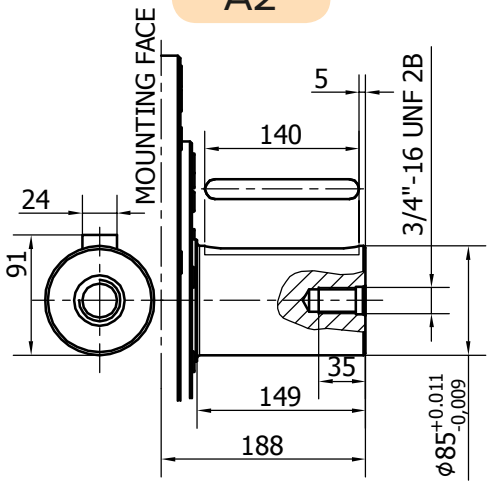
Available spline billet: SB27

A13

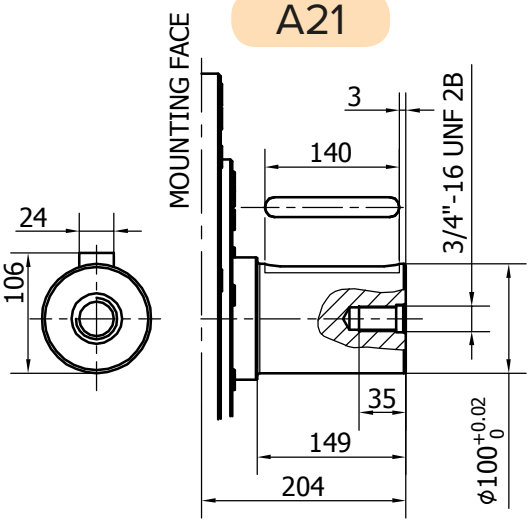


Available spline billet: SB24

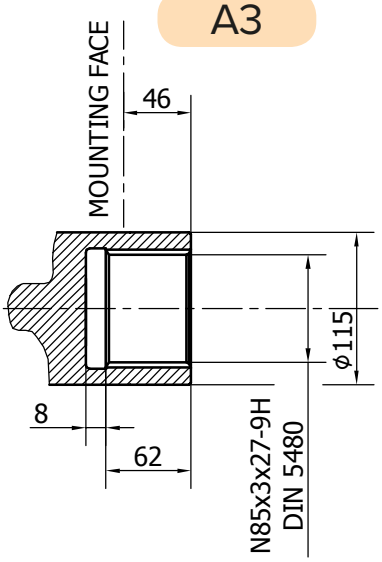
A2



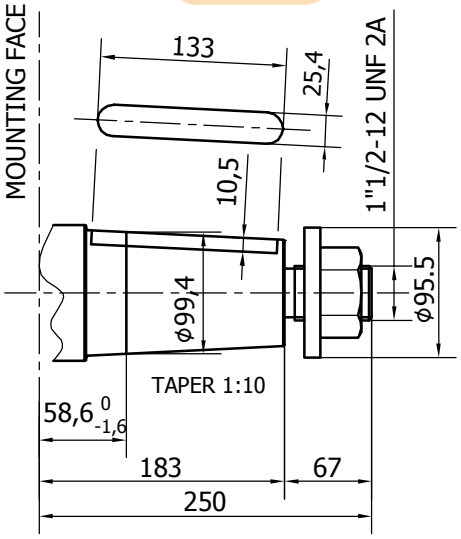
A21



A3

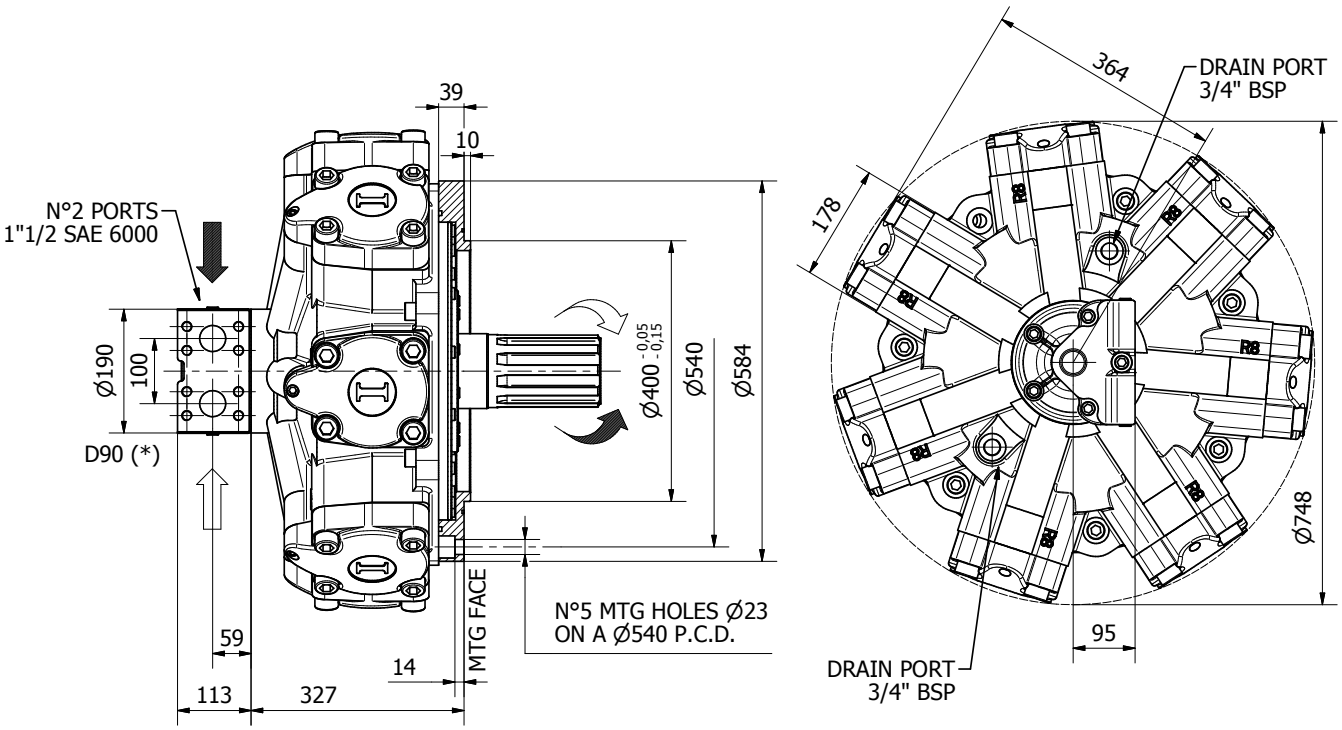


A4



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R8D H7/C



Available distributor flange: FL8

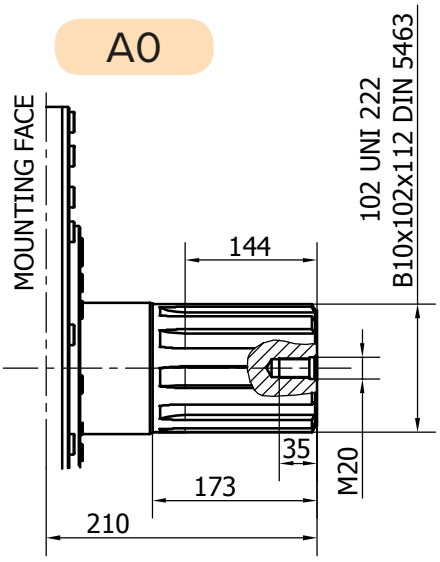
Refer to page 186-187
(distributor fitting D90)

TECHNICAL DATA

		3400	3600	3900	4300	4600	5000	5400
DISPLACEMENT	[cc]	3413	3650	3907	4343	4616	5088	5384
SPECIFIC TORQUE	[Nm/bar]	54.3	58.1	62.2	69.1	73.5	81.0	85.7
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	200	185	175	160	150	140	130
PEAK SPEED (***)	[rpm]	220	210	200	190	190	180	170
MAX. CONT. POWER (****)	[kW]	238	238	238	238	238	238	230
MAX. POWER	[kW]	265	265	265	265	265	265	258
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	405	405	405	405	405	405	405
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

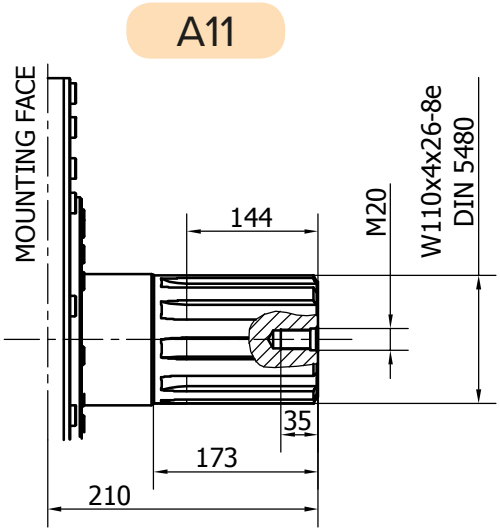
- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 174-175) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

A0

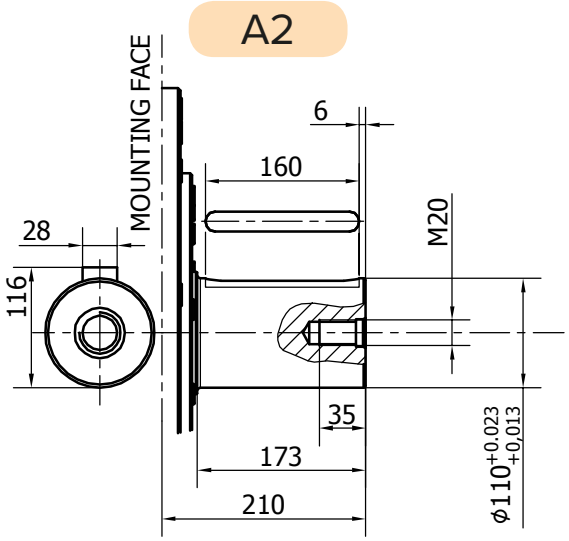


Available spline billet: SB11

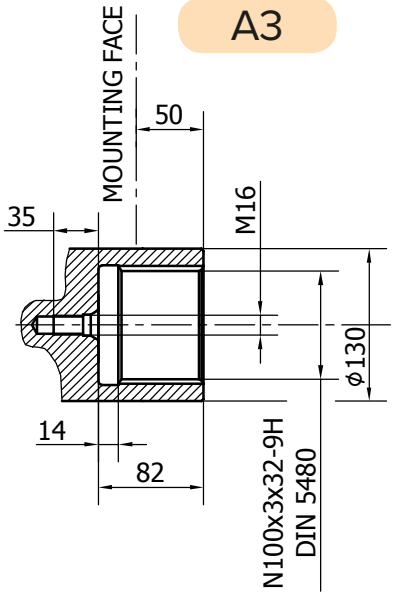
A11



A2

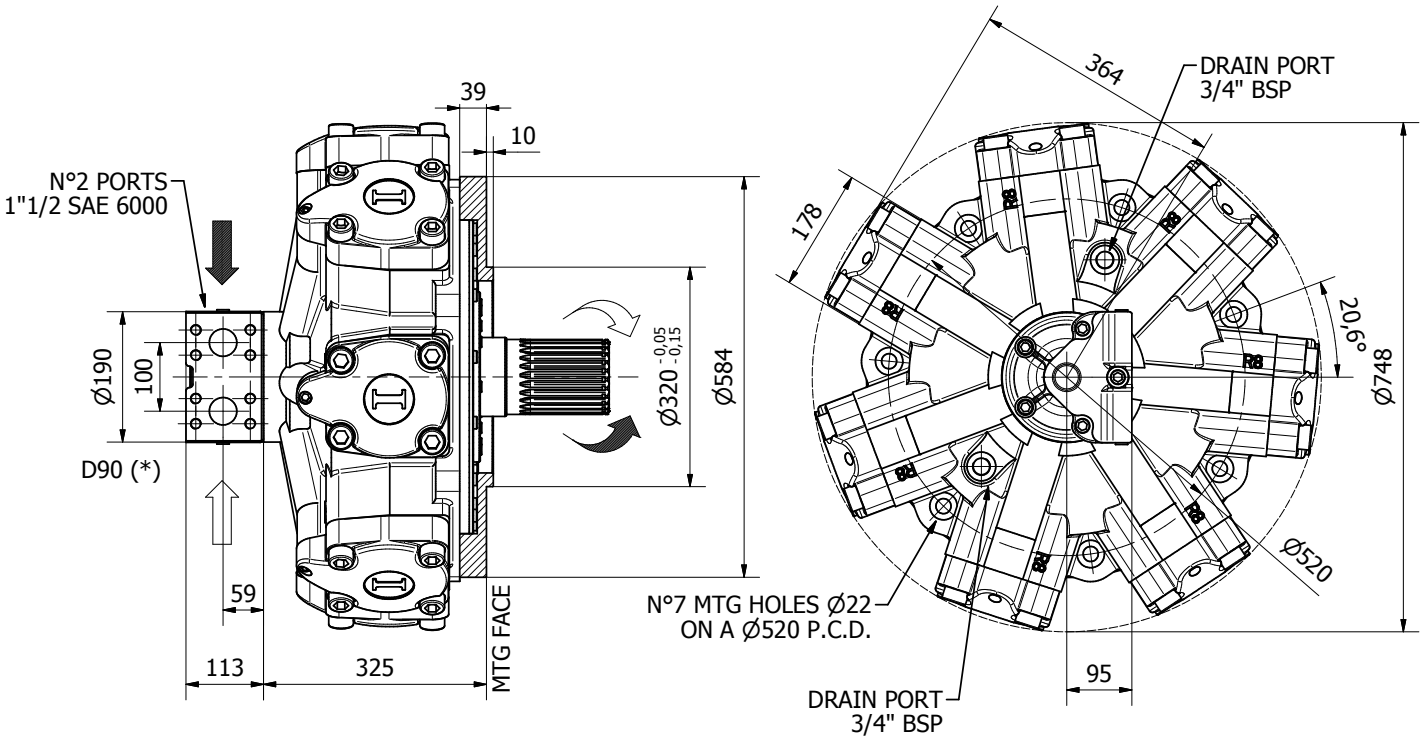


A3



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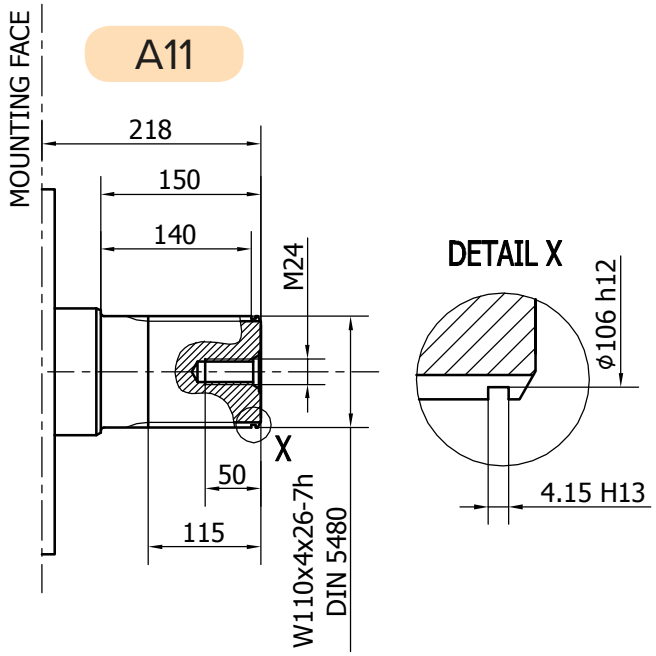
R8D H7/RM



TECHNICAL DATA

		3400	3600	3900	4300	4600	5000	5400
DISPLACEMENT	[cc]	3413	3650	3907	4343	4616	5088	5384
SPECIFIC TORQUE	[Nm/bar]	54.3	58.1	62.2	69.1	73.5	81.0	85.7
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	200	185	175	160	150	140	130
PEAK SPEED (***)	[rpm]	220	210	200	190	190	180	170
MAX. CONT. POWER (****)	[kW]	238	238	238	238	238	238	230
MAX. POWER	[kW]	265	265	265	265	265	265	258
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	405	405	405	405	405	405	405
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

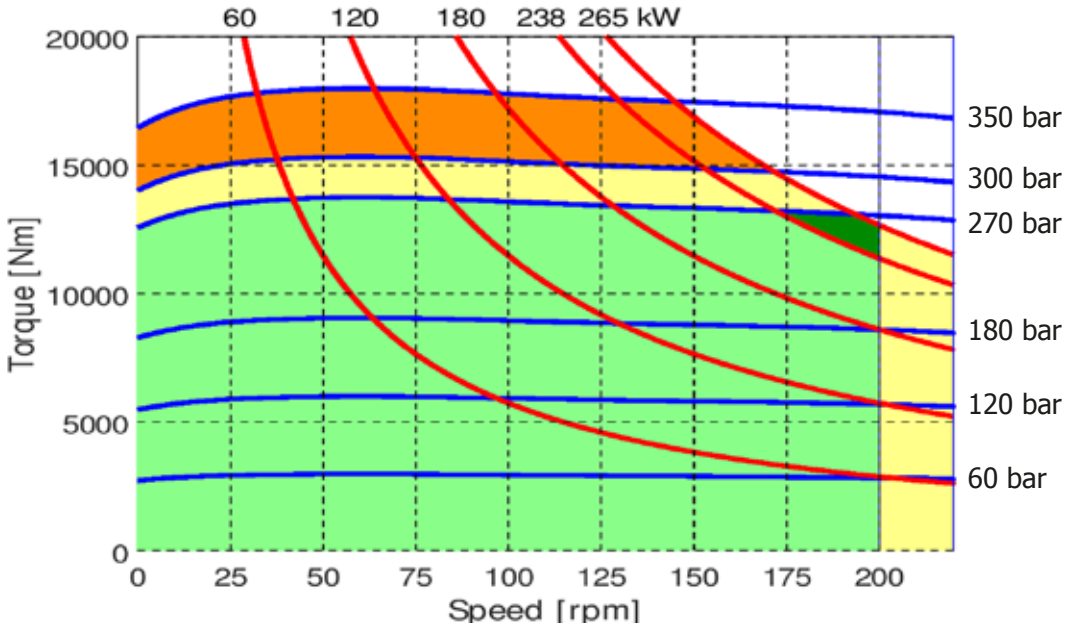
- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 174-175) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.



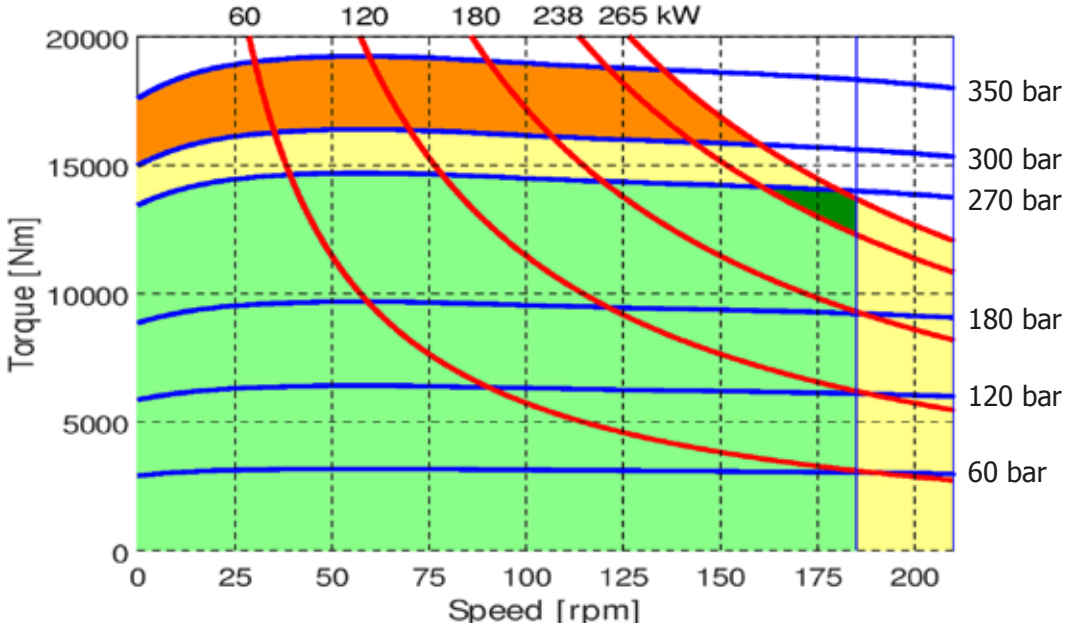
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R8D H7 - PERFORMANCE CURVES

R8D 3400 H7



R8D 3600 H7



Continuous operation

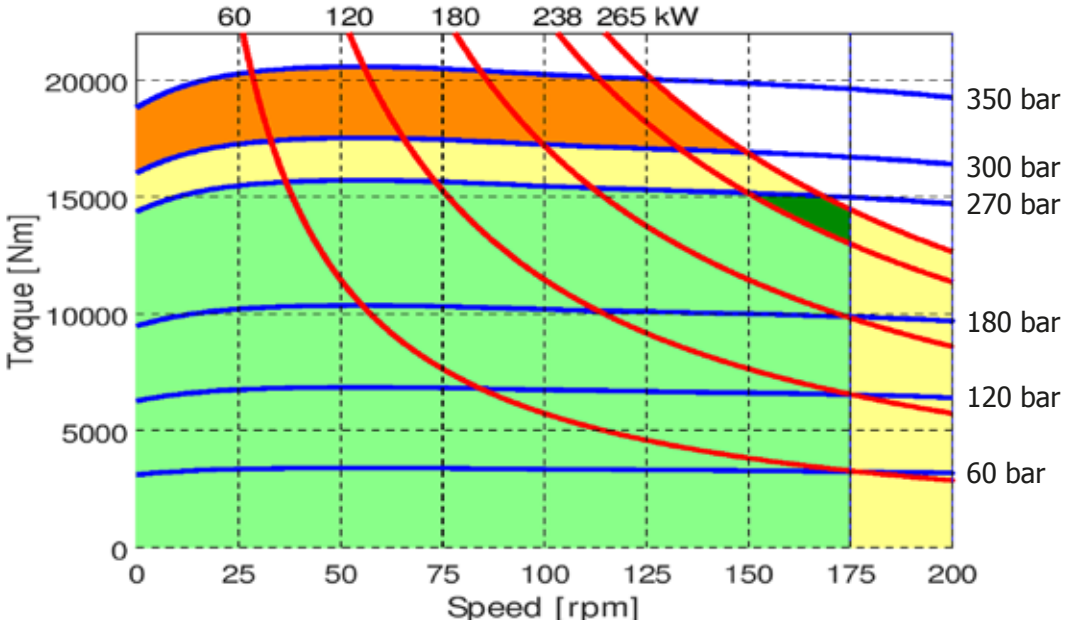
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

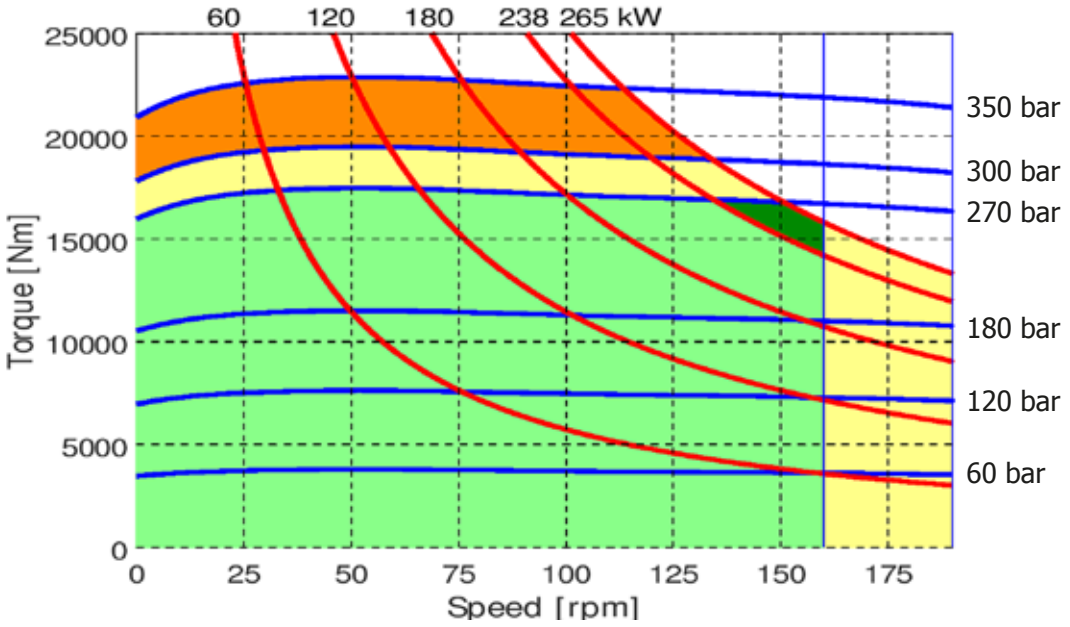
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

R8D 3900 H7



R8D 4300 H7



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

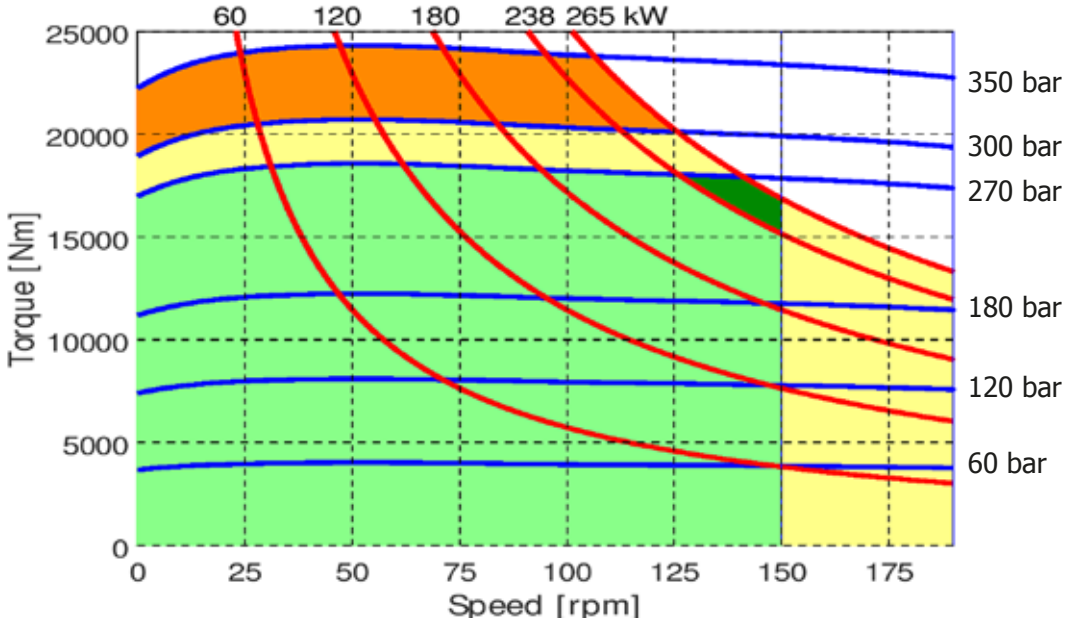
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

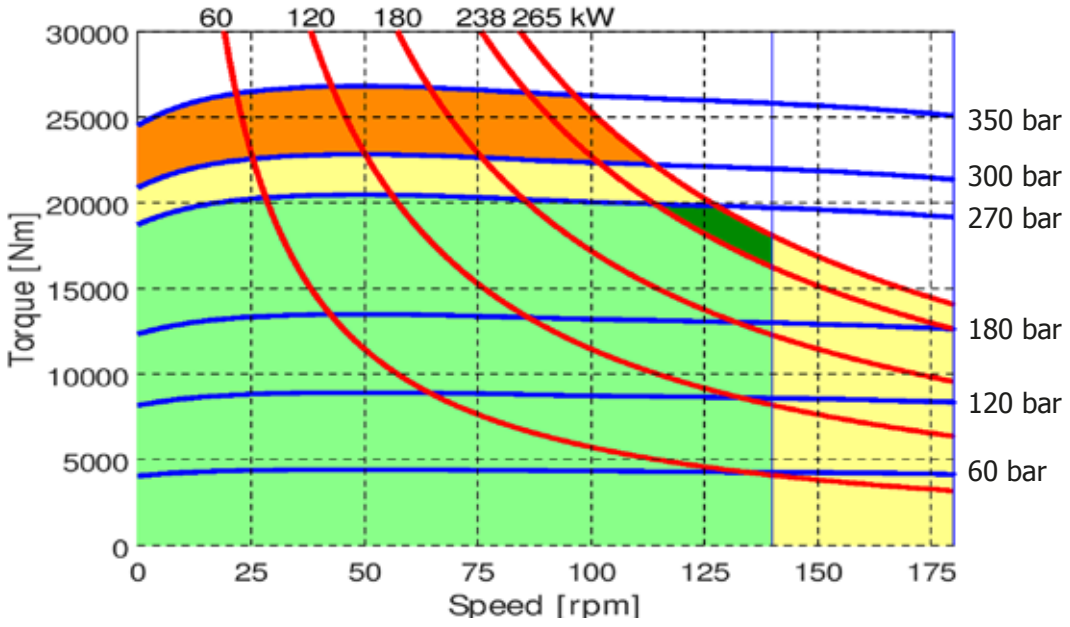
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R8D H7 - PERFORMANCE CURVES

R8D 4600 H7



R8D 5000 H7



Continuous operation

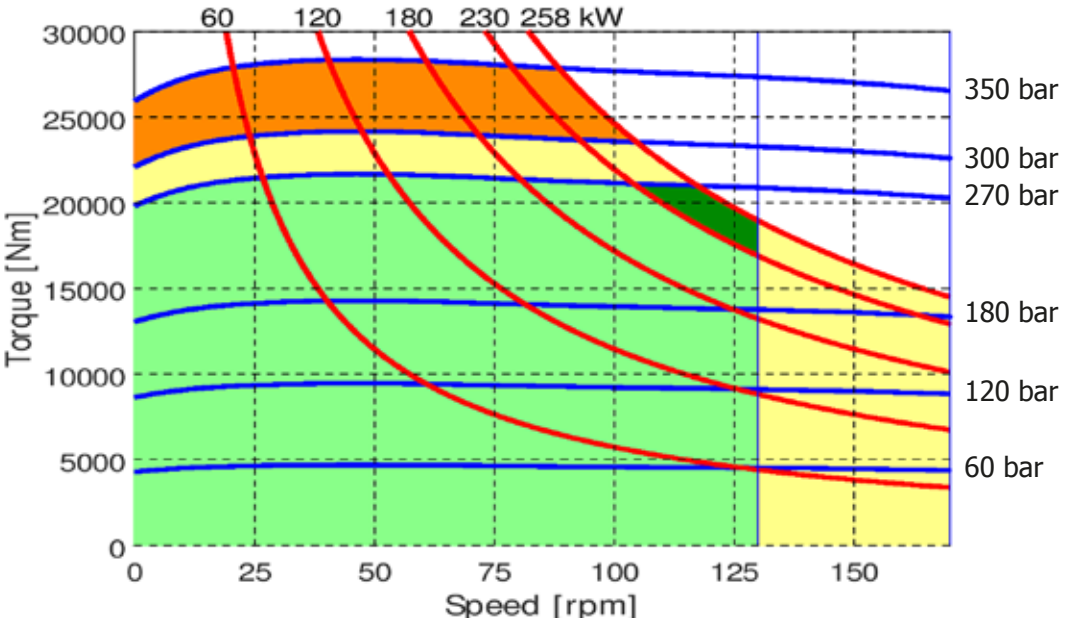
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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.

R8D 5400 H7



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

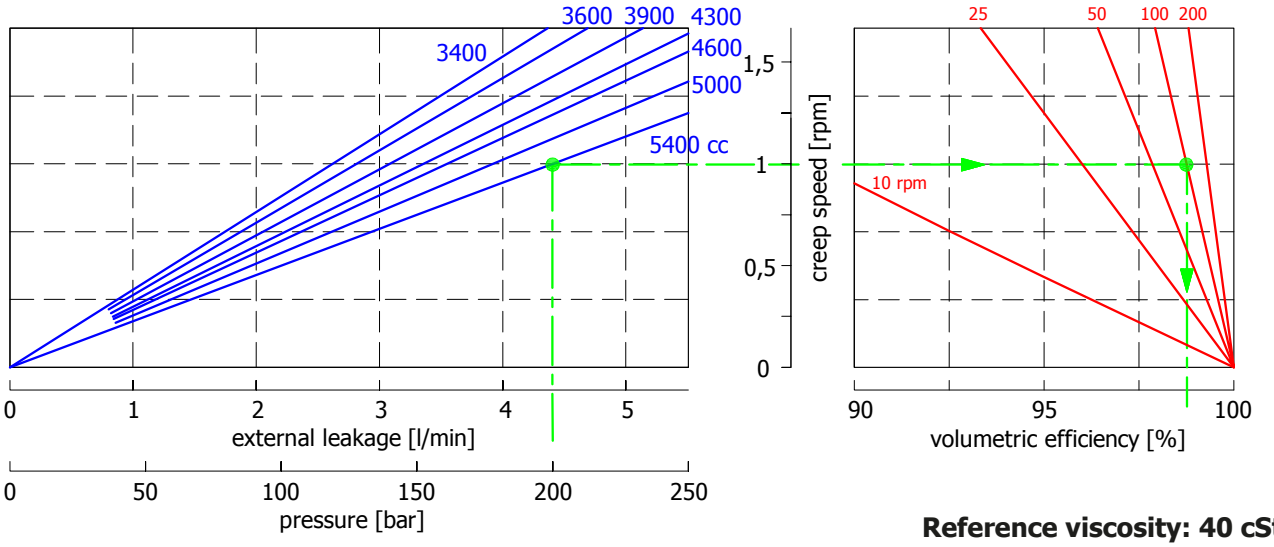
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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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R8D H7 - PERFORMANCE CURVES

CREEP SPEED - VOLUMETRIC EFFICIENCY

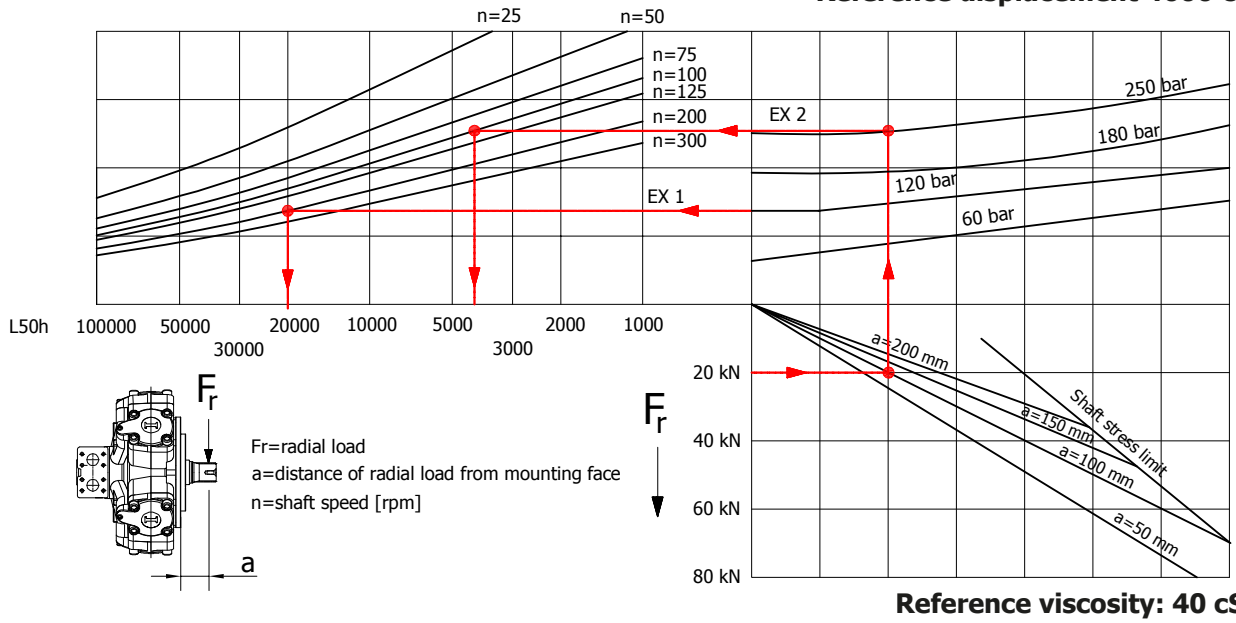


Reference viscosity: 40 cSt

Example:
We suppose (5400 cc): p=200 [bar], we obtain: external leakage 4,3 [l/min], shaft creep speed 1 [rpm].
If we suppose (5400 cc): p=200 [bar] and n=100 [rpm] we obtain a volumetric efficiency of 98,5%;

BEARING LIFE

Reference displacement 4600 cc



Fr=radial load
a=distance of radial load from mounting face
n=shaft speed [rpm]

Reference viscosity: 40 cSt

Example:
We suppose (EX1): p=120 [bar], n=200 [rpm]; we obtain an average lifetime of 20000 [h].
If we suppose (EX2): F_r=20 [kN], a=100 [mm], n=100 [rpm] and p=250 [bar] we obtain an average lifetime of 4000 [h].

R8D H7 - ORDERING CODE

R8D - - - - H7 - - - - - - - - - - - - SB -

DISPLACEMENT
- 3400
- 3600
- 3900
- 4300
- 4600
- 5000
- 5400

INTERCHANGEABILITY
- /C
- /RM

SERIE
- H7

SHAFT
- A0
- A01
- A1
- A11
- A12
- A13
- A2
- A21
- A3
- A4

DISTRIBUTOR
- D90
- D90J

See pag. 174-175

TACHOMETER
- TA
- TB
- TT1
- TQ1
- EST
- EST30
- EST31
- EST32
- EST33

See pag. 177-180

SPECIAL FEATURES
- MP
- SPSL
- HPS
- CCW

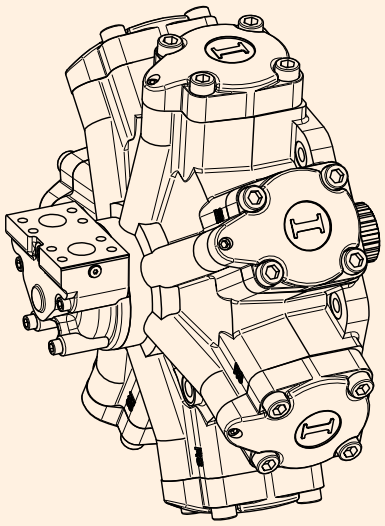
See pag. 23

- Z - -

Italgroup internal code

SPLINE BILLET
- SB10
- SB11
- SB24
- SB27

See pag. 181-185



EXAMPLES:

R8D 4600 H7 A1 D90 CCW
R8D 5000 H7 A0 D90 SB10
R8D 5400/C H7 A0 D90

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