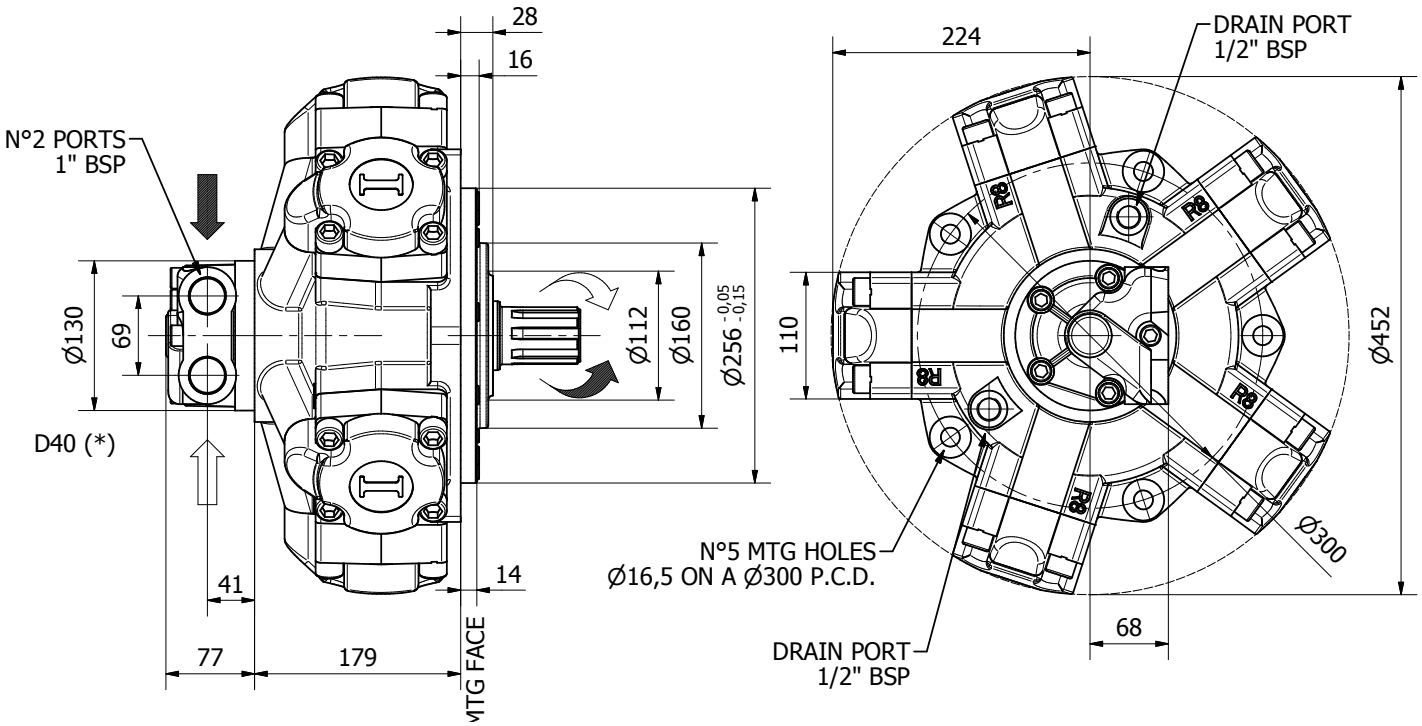
R8M H4

R8M H4	Pag. 94 - 95
R8M H4/C	Pag. 96 - 97
R8M H3/B45	Pag. 98 - 99
R8M H4/GM4	Pag. 100 - 101
R8M H4/S	Pag. 102- 103
R8M H4 - PERFORMANCE CURVES	Pag. 104 - 109
R8M H4 - ORDERING CODE	Pag. 110

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R8M H4



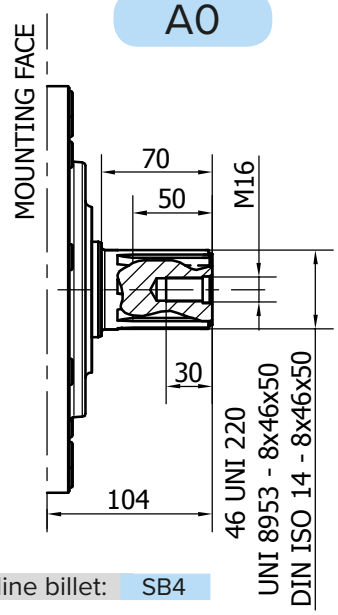
TECHNICAL DATA

		700	800	850	900	1000	1100	1200	1250	1400
DISPLACEMENT	[cc]	714	792	847	904	992	1116	1192	1247	1332
SPECIFIC TORQUE	[Nm/bar]	11.4	12.6	13.5	14.4	15.8	17.8	19.0	19.8	21.2
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	260	250	260	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	500	450	450	450	330	330	300	250	230
PEAK SPEED (***)	[rpm]	580	530	530	530	400	400	350	300	280
MAX. CONT. POWER (****)	[kW]	56	56	56	56	56	56	56	56	56
MAX. POWER	[kW]	82	82	82	82	82	82	82	82	82
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92	92	92	92
TEMPERATURE RANGE (**)	[°C]	-30÷70	-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. 178-179) 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 (see pag. 13). For more information please contact our technical department.

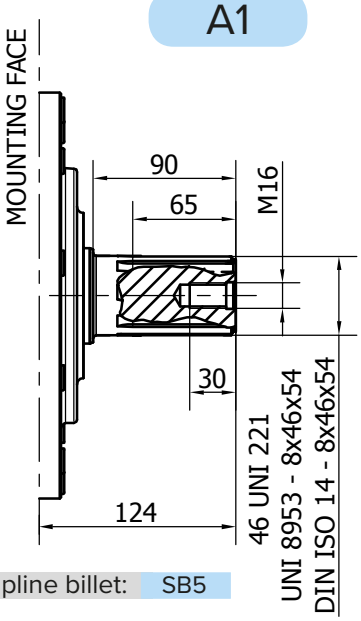
SHAFTS

A0



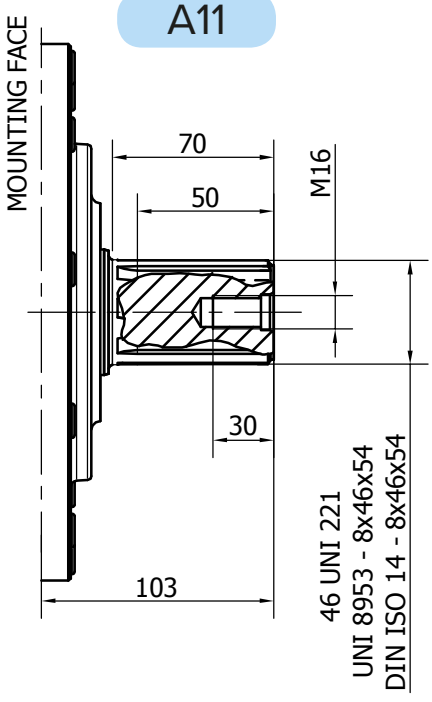
Available spline billet: SB4

A1



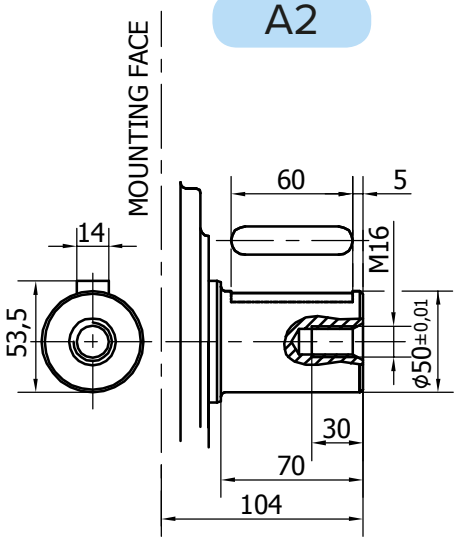
Available spline billet: SB5

A11

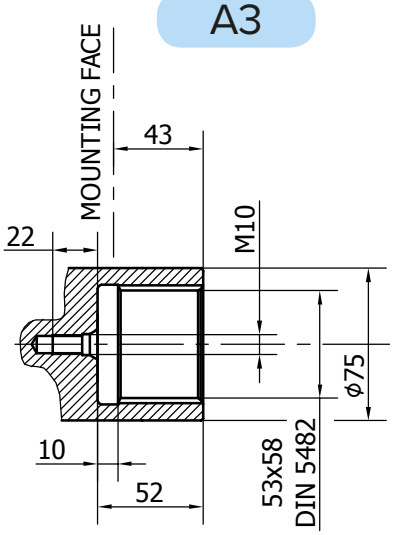


Available spline billet: SB5

A2



A3

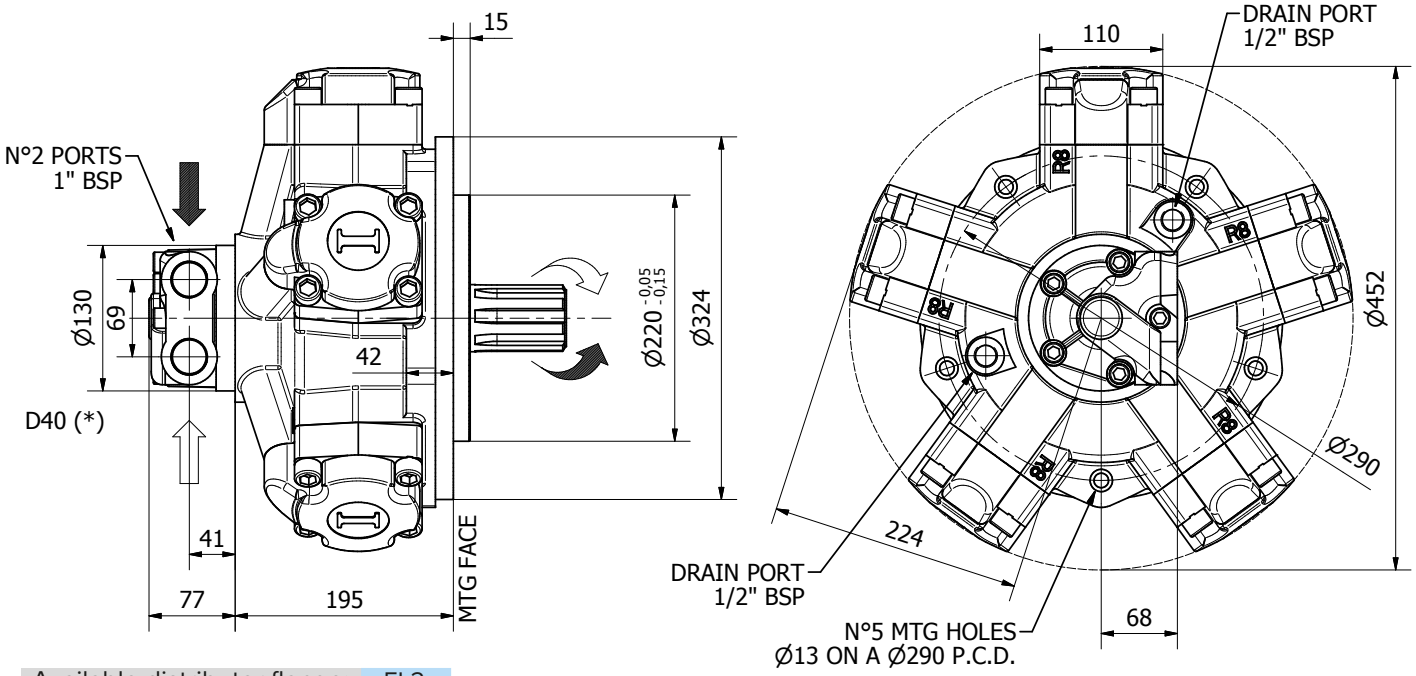


Available spline bar: B8079

NOT AVAILABLE FOR
850-1200-1400 cc

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R8M H4/C



Available distributor flange: FL2

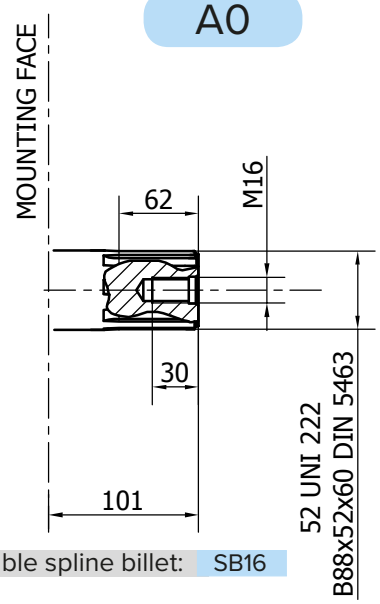
Refer to page 190-191
(distributor fitting D47)

TECHNICAL DATA

		700	800	900	1000	1100	1250
DISPLACEMENT	[cc]	714	792	904	992	1116	1247
SPECIFIC TORQUE	[Nm/bar]	11.4	12.6	14.4	15.8	17.8	19.8
MAX. CONT. PRESSURE	[bar]	270	270	270	270	260	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	500	450	450	330	330	250
PEAK SPEED (***)	[rpm]	580	530	530	400	400	300
MAX. CONT. POWER (****)	[kW]	56	56	56	56	56	56
MAX. POWER	[kW]	82	82	82	82	82	82
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

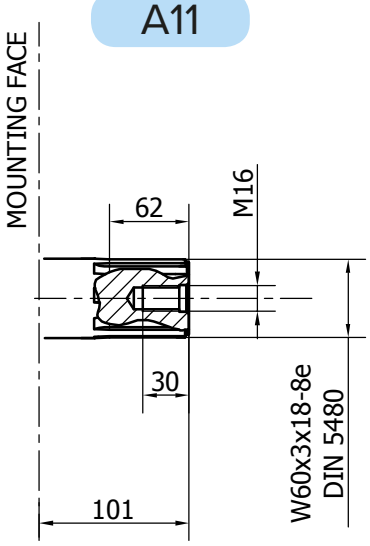
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 178-179) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required (see pag. 13). For more information please contact our technical department.

A0

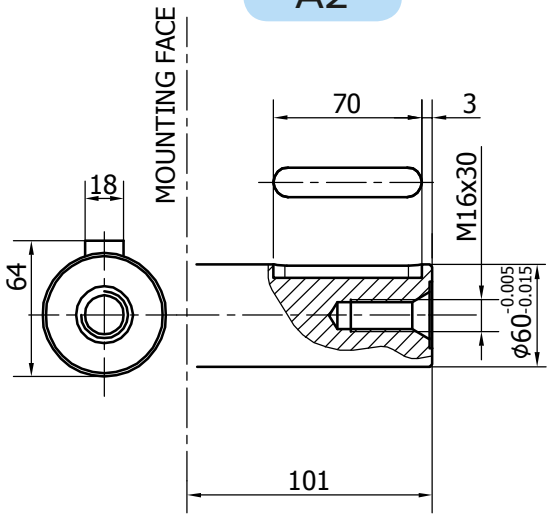


Available spline billet: SB16

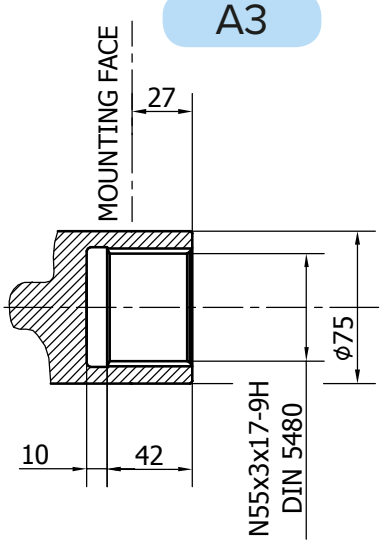
A11



A2

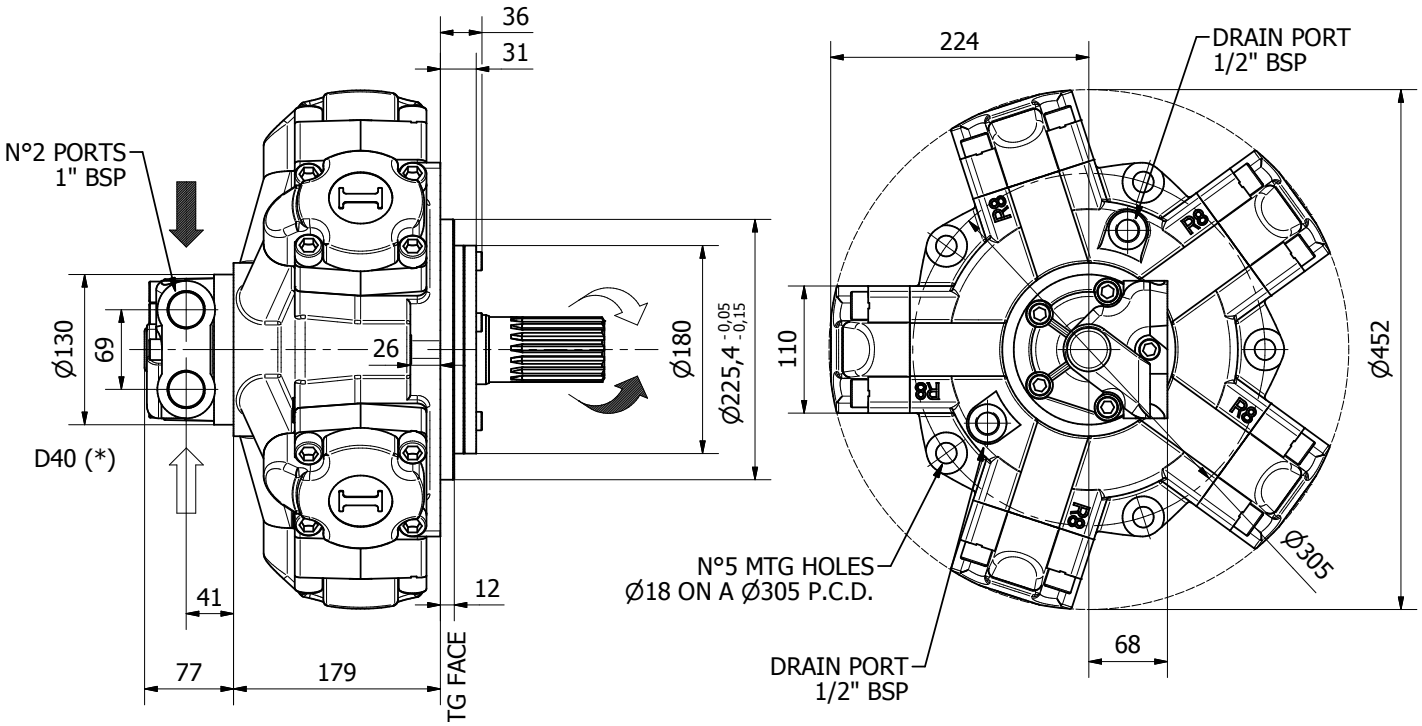


A3



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R8M H4/B45

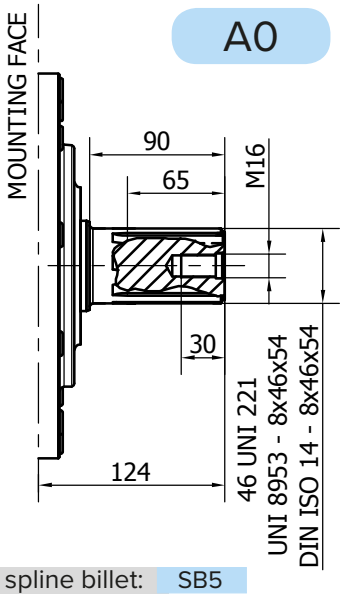


TECHNICAL DATA

		700	800	900	1000	1100	1250
DISPLACEMENT	[cc]	714	792	904	992	1116	1247
SPECIFIC TORQUE	[Nm/bar]	11.4	12.6	14.4	15.8	17.8	19.8
MAX. CONT. PRESSURE	[bar]	270	270	270	270	260	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	500	450	450	330	330	250
PEAK SPEED (***)	[rpm]	580	530	530	400	400	300
MAX. CONT. POWER (****)	[kW]	56	56	56	56	56	56
MAX. POWER	[kW]	82	82	82	82	82	82
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

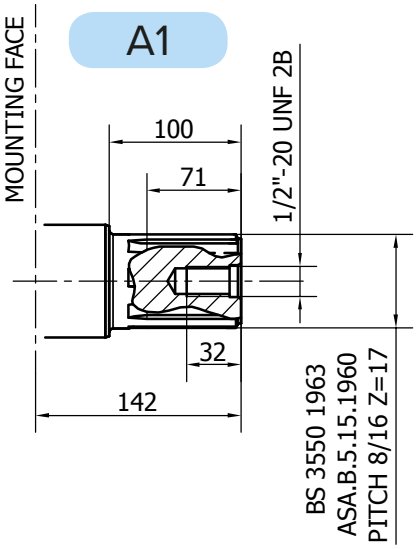
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 178-179) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required (see pag. 13). For more information please contact our technical department.

A0



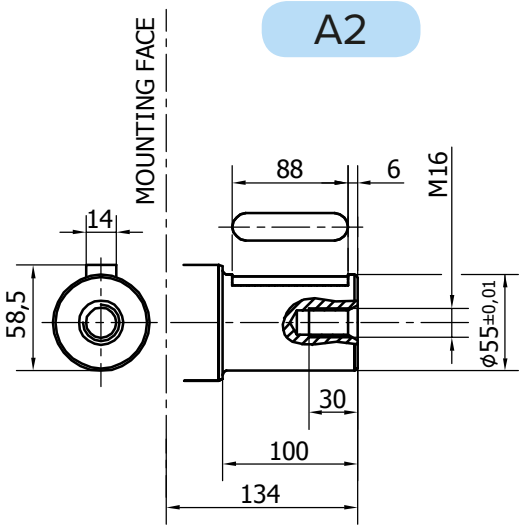
Available spline billet: SB5

A1

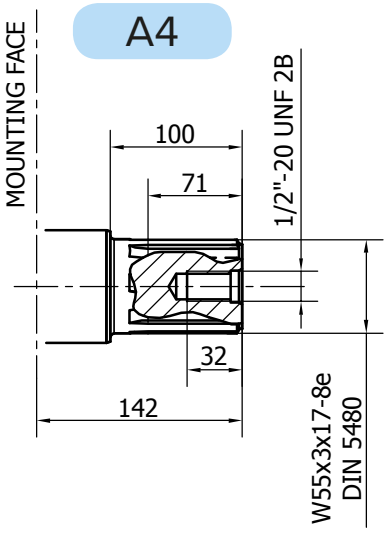


Available spline billet: SB21

A2



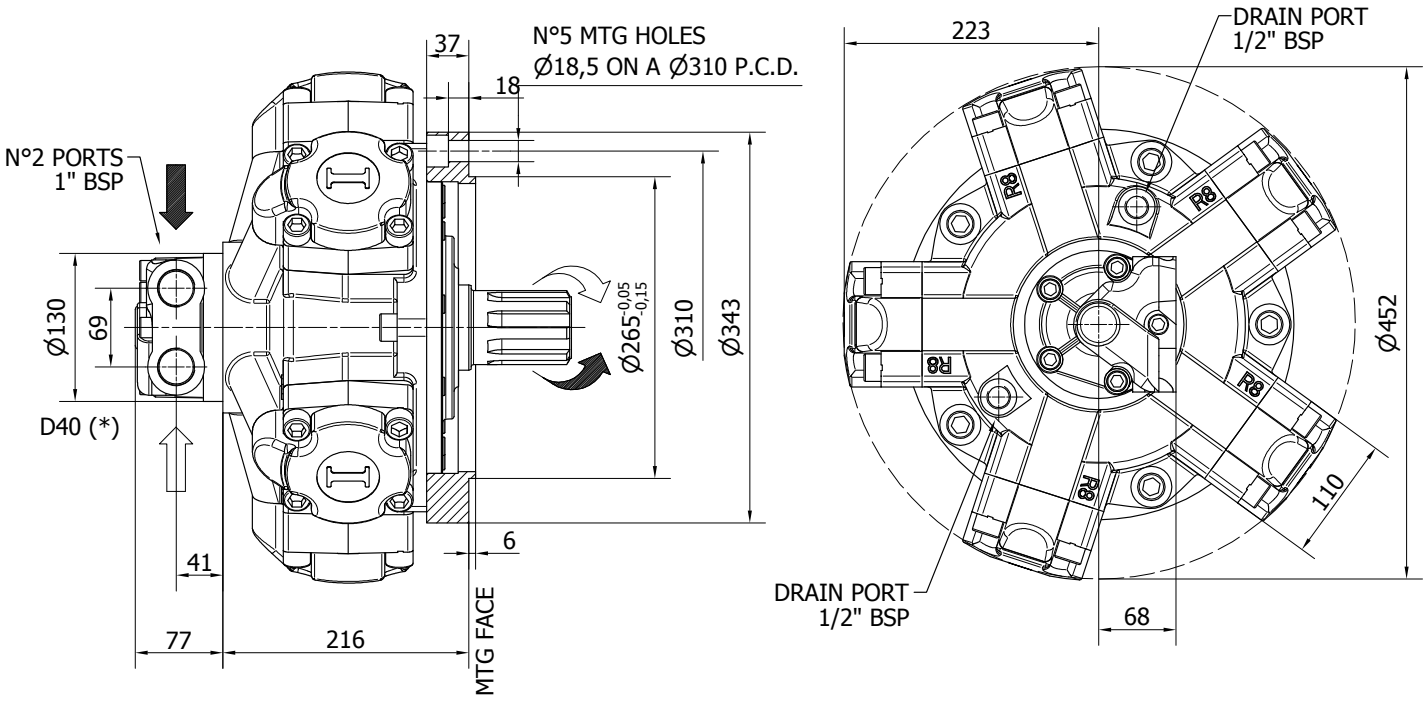
A4



Available spline billet: SB30

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R8M H4/GM4

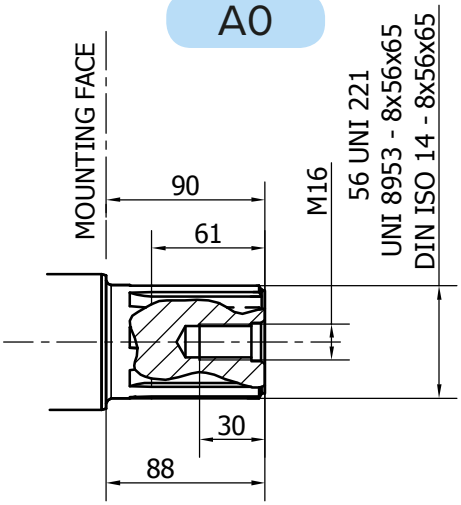


TECHNICAL DATA

		700	800	900	1000	1100	1250
DISPLACEMENT	[cc]	714	792	904	992	1116	1247
SPECIFIC TORQUE	[Nm/bar]	11.4	12.6	14.4	15.8	17.8	19.8
MAX. CONT. PRESSURE	[bar]	270	270	270	270	260	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	500	450	450	330	330	250
PEAK SPEED (***)	[rpm]	580	530	530	400	400	300
MAX. CONT. POWER (****)	[kW]	56	56	56	56	56	56
MAX. POWER	[kW]	82	82	82	82	82	82
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

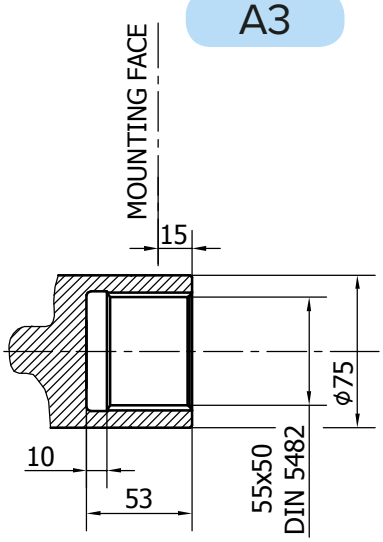
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 178-179) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required (see pag. 13). For more information please contact our technical department.

A0

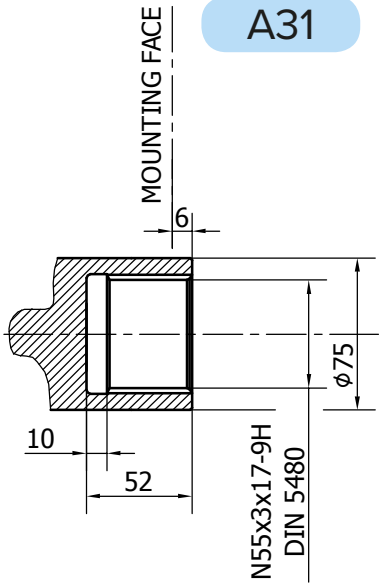


Available spline billet: SB17

A3

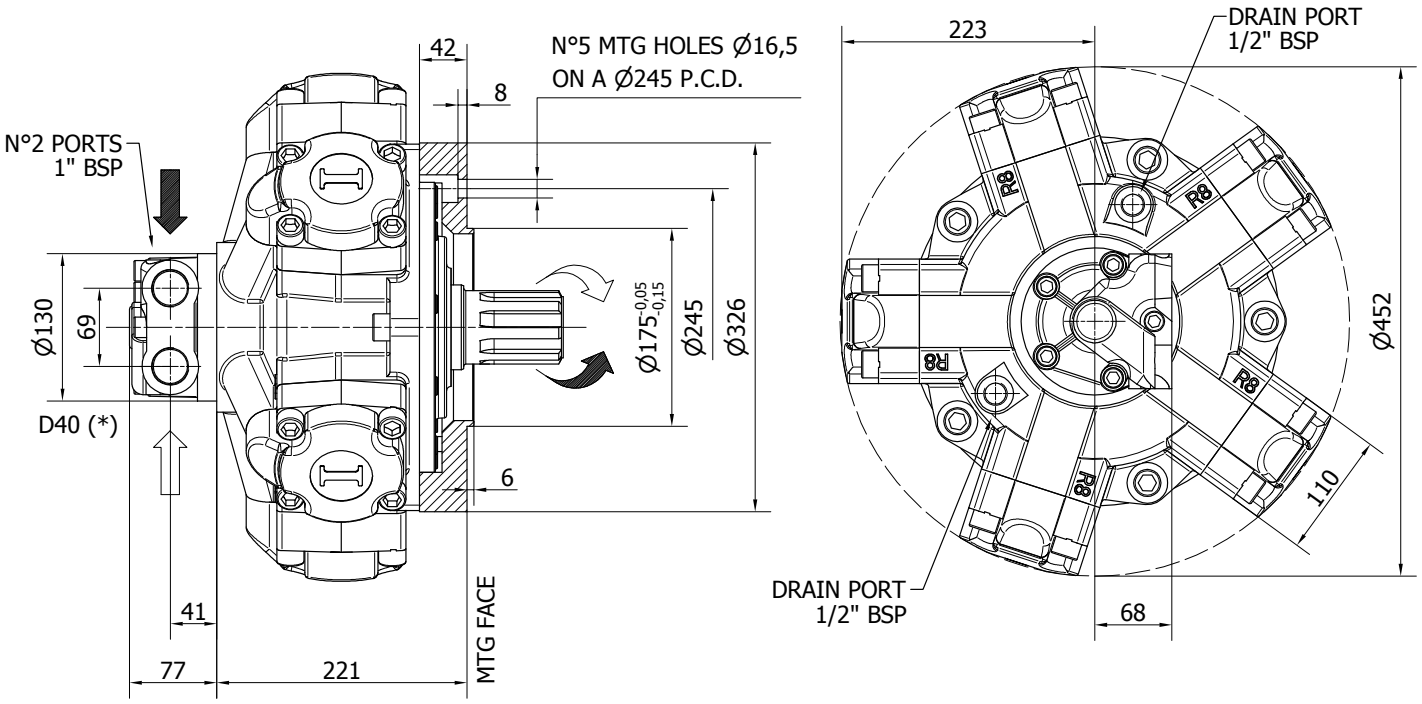


A31



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R8M H4/S

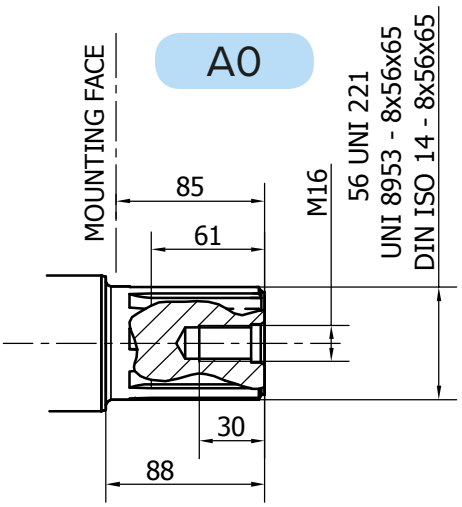


TECHNICAL DATA

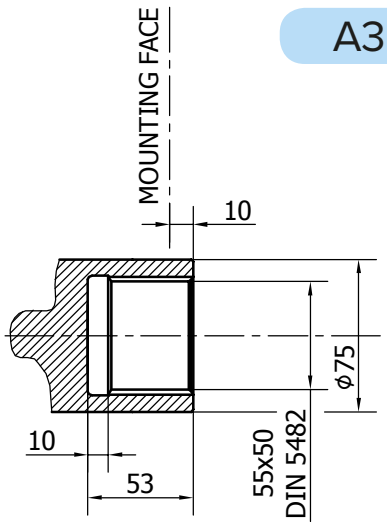
		700	800	900	1000	1100	1250
DISPLACEMENT	[cc]	714	792	904	992	1116	1247
SPECIFIC TORQUE	[Nm/bar]	11.4	12.6	14.4	15.8	17.8	19.8
MAX. CONT. PRESSURE	[bar]	270	270	270	270	260	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	500	450	450	330	330	250
PEAK SPEED (***)	[rpm]	580	530	530	400	400	300
MAX. CONT. POWER (****)	[kW]	56	56	56	56	56	56
MAX. POWER	[kW]	82	82	82	82	82	82
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92
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. 178-179) 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 (see pag. 13). For more information please contact our technical department.

A0

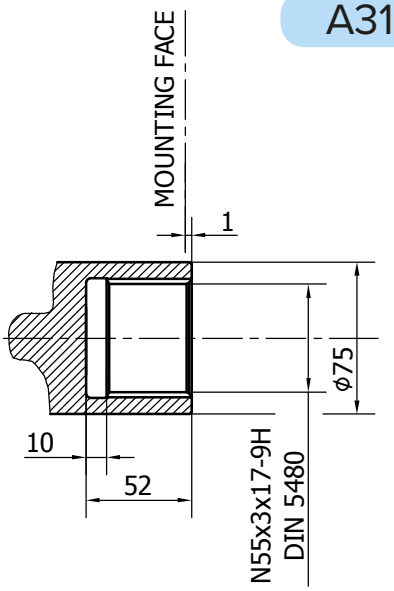


A3



Available spline billet: SB17

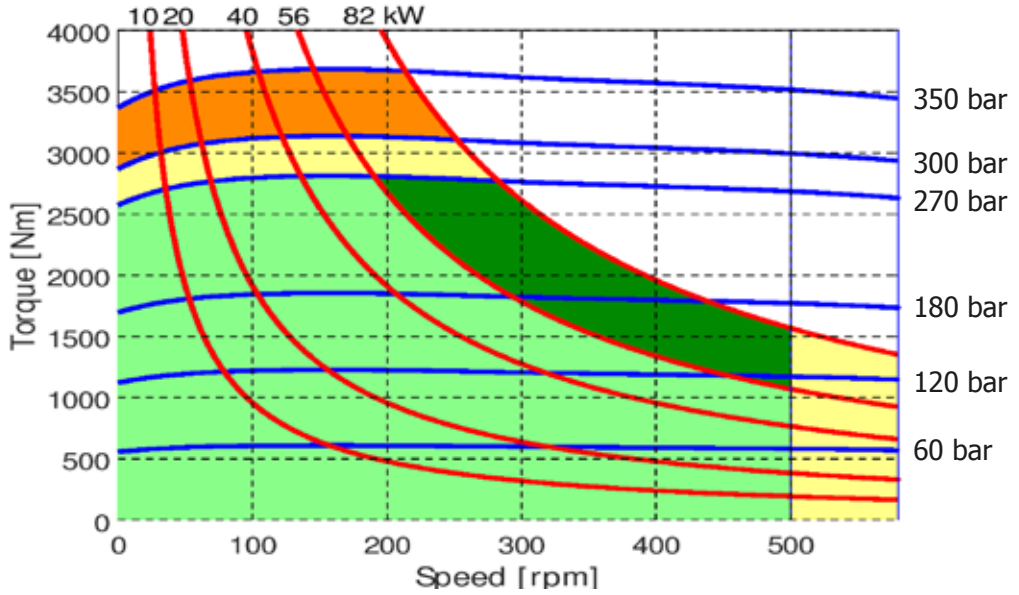
A31



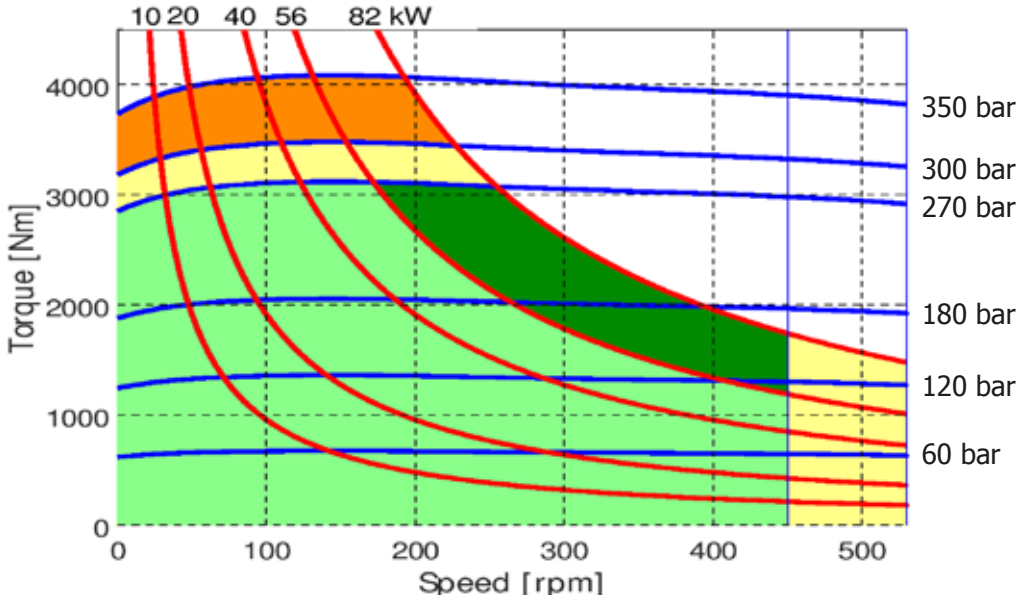
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R8M H4 - PERFORMANCE CURVES

R8M 700 H4



R8M 800 H4



Continuous operation

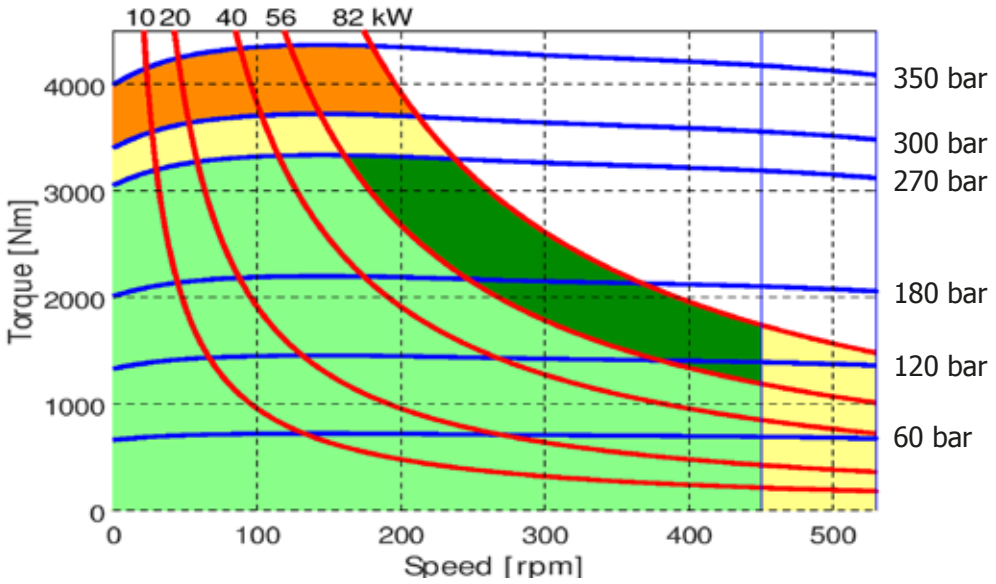
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

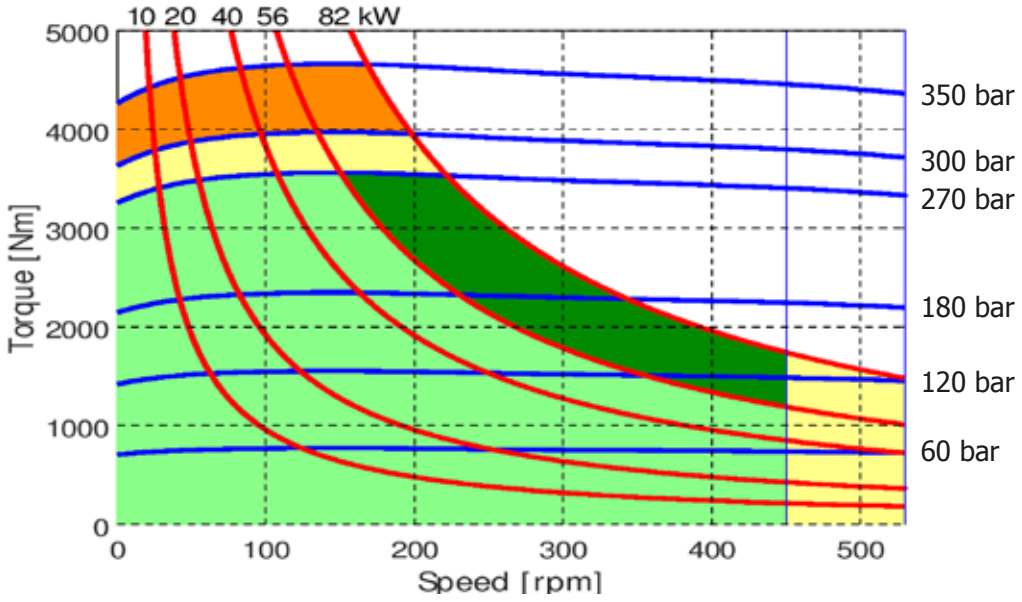
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

R8M 850 H4



R8M 900 H4



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

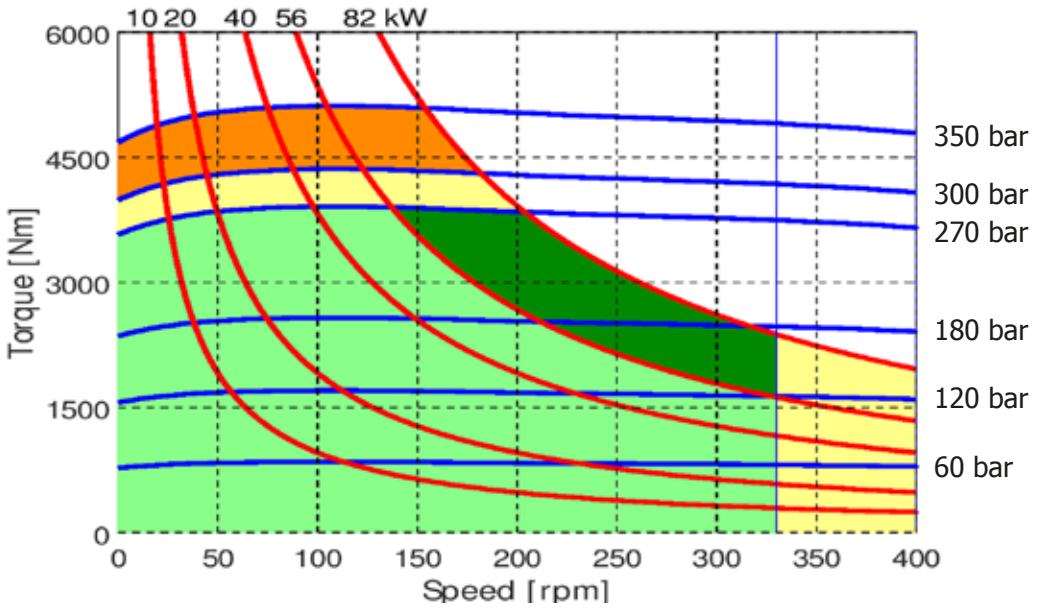
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

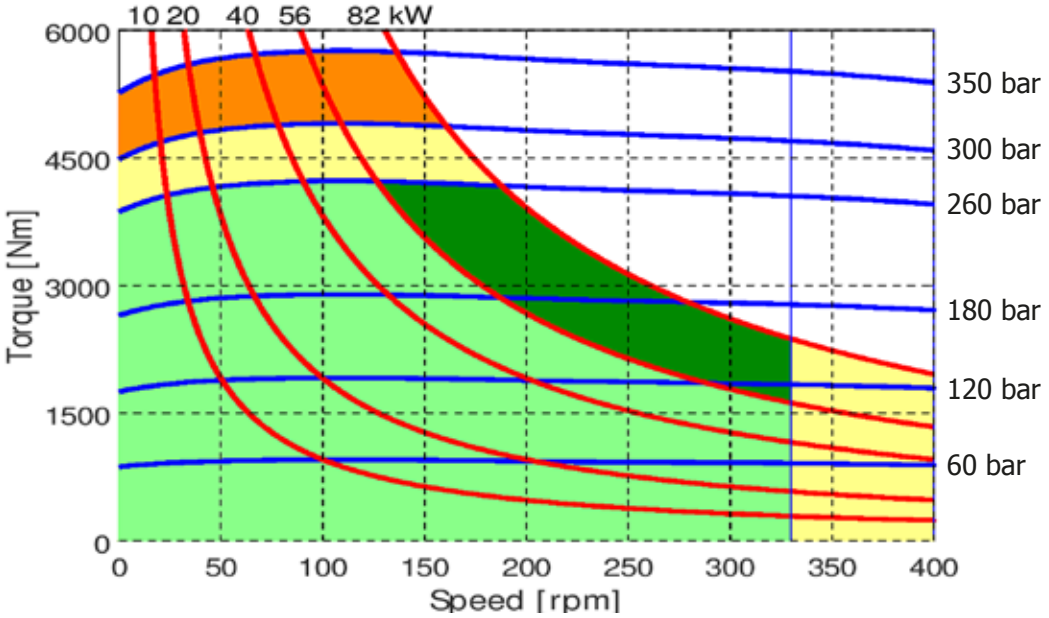
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R8M H4 - PERFORMANCE CURVES

R8M 1000 H4



R8M 1100 H4



Continuous operation

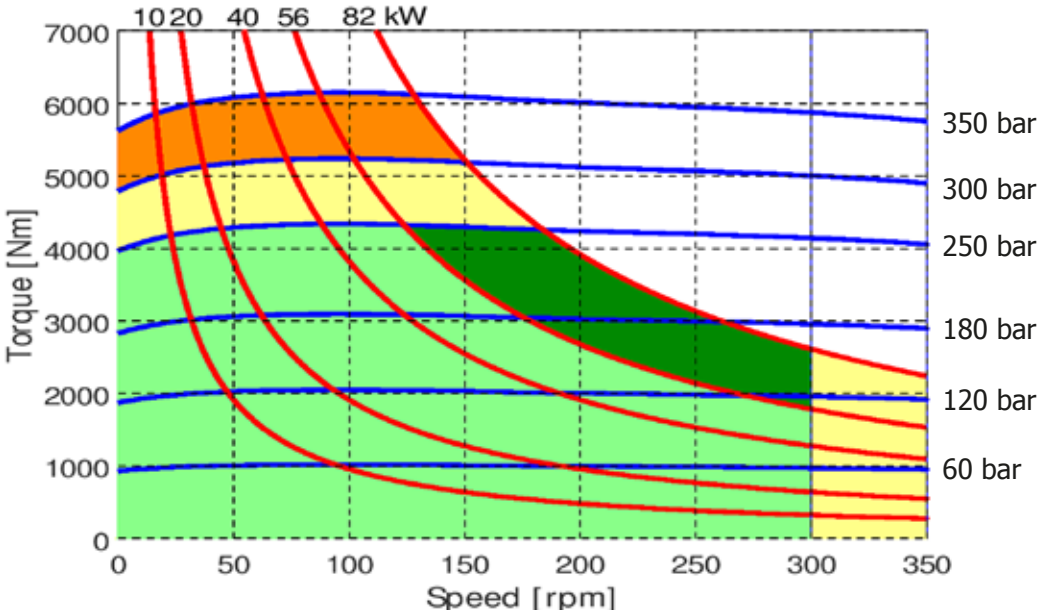
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

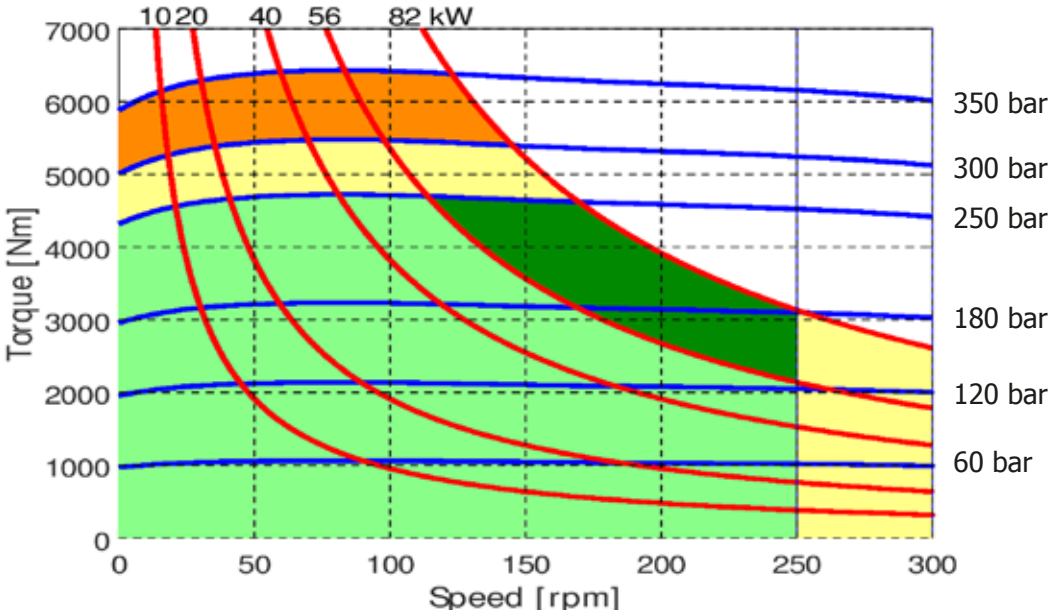
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

R8M 1200 H4



R8M 1250 H4



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

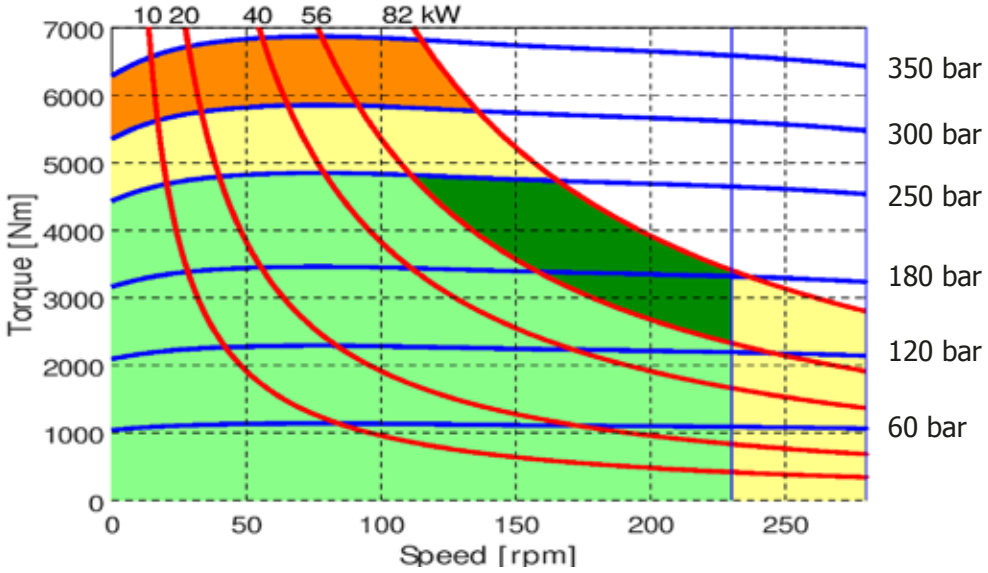
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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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R8M H4 - PERFORMANCE CURVES

R8M 1400 H4



Continuous operation

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

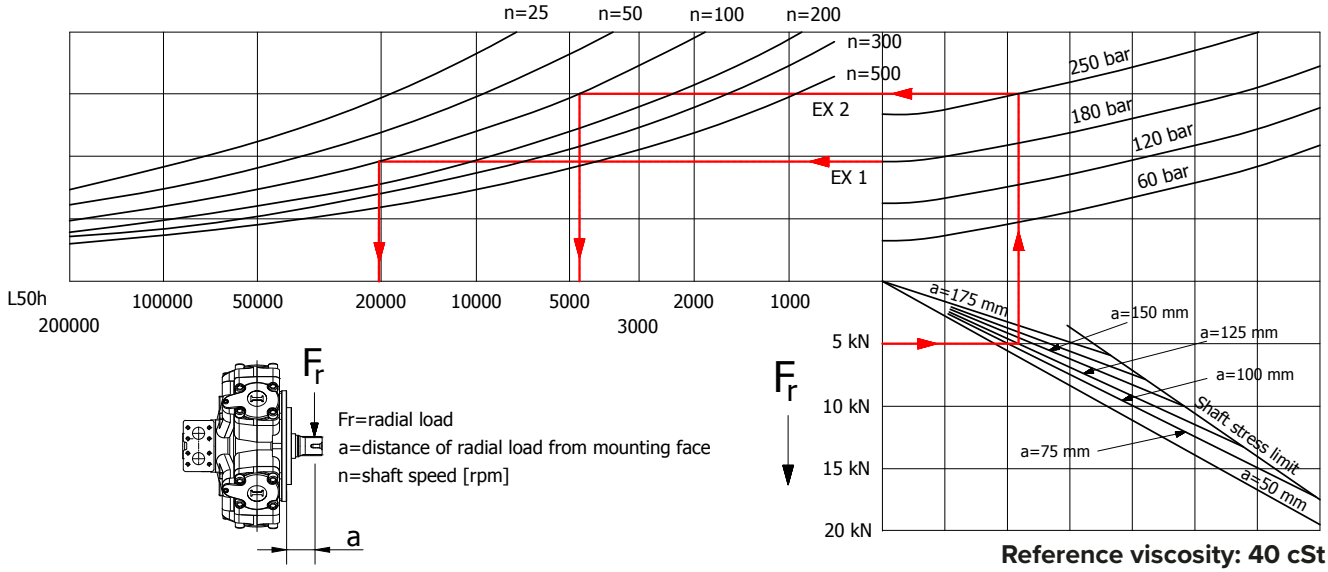
Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period

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 800 cc



Reference viscosity: 40 cSt

Example:

We suppose (EX1): p=180 [bar], n=100 [rpm]; we obtain an average lifetime of 25000 [h].
If we suppose (EX2): F_r=10 [kN], a=150 [mm], n=100 [rpm] and p=180 [bar] we obtain an average lifetime of 18000 [h].

The above data are referring to the R8M H4 series motors, displacement 800 cc.

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R8M H4 - ORDERING CODE

R8M | - - | - - | H4 | - - | - - | - - | - - | - - | SB -

DISPLACEMENT
- 700
- 800
- 850
- 900
- 1000
- 1100
- 1250
- 1400

INTERCHANGEABILITY
- /C
- /B45
- /GM4
- /S

SERIE
- H4

SHAFT
- A0
- A1
- A11
- A2
- A3
- A31
- A4

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

See pag. 178-179

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

See pag. 180-184

SPECIAL FEATURES
- MP
- SPSL
- HPS
- CCW

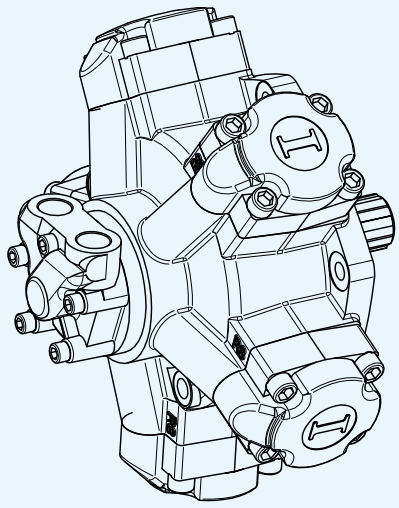
See pag. 23

- Z - -

Italgroup internal code

SPLINE BILLET
- SB4
- SB5
- SB16
- SB17
- SB21

See pag. 185-188



EXAMPLES:

R8M 800 H4 A0 D40
R8M 800/C H4 A0 D47
R8M 1000/GM4 H4 A3 D47 CCW