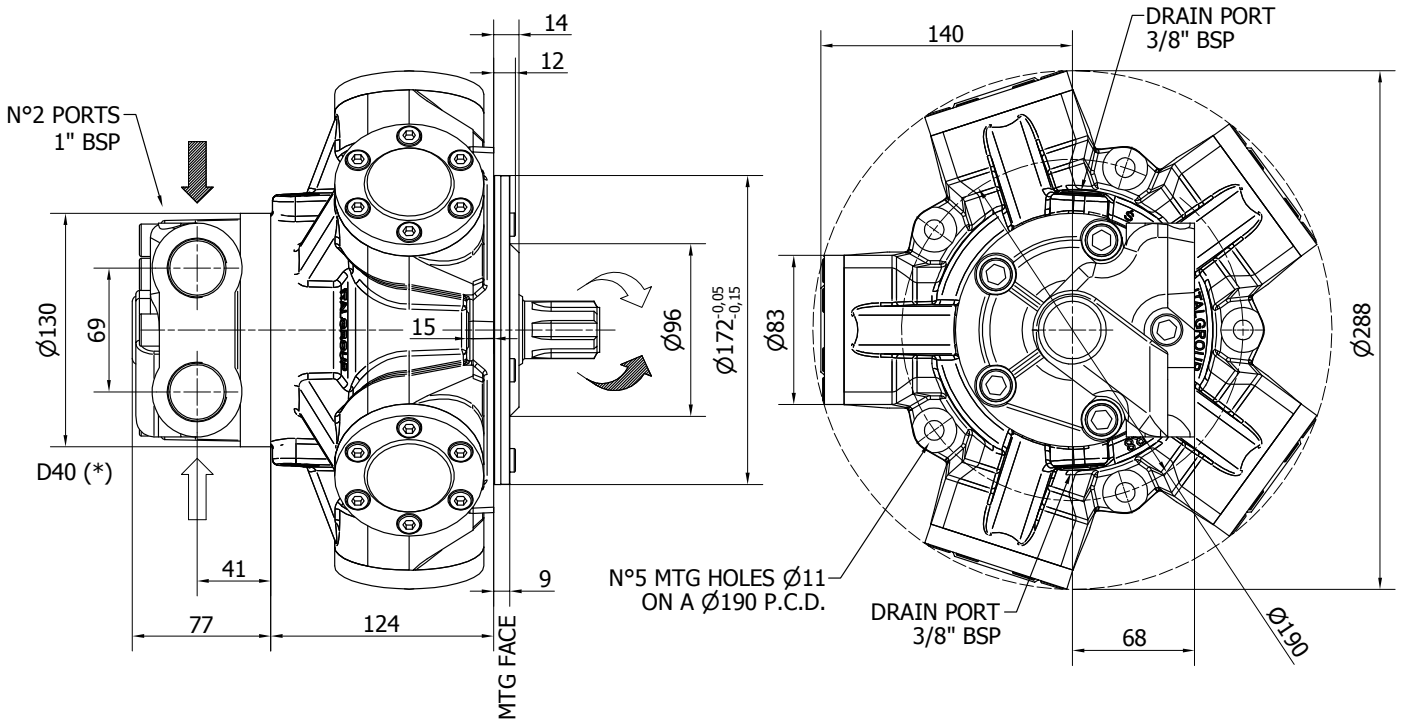
R8M H1

R8M 80-100-150-175-195 H1	Pag. 28 - 29
R8M 200-250-300 H1	Pag. 30 - 31
R8M H1/GM05	Pag. 32 - 33
R8M H1/BH	Pag. 34 - 35
R8M H1/GM1	Pag. 36 - 37
R8M 200-250-300/PH H1	Pag. 38 - 39
R8M H1 - PERFORMANCE CURVES	Pag. 40 - 44
R8M H1 - ORDERING CODE	Pag. 45

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R8M 80-100-150-175-195 H1



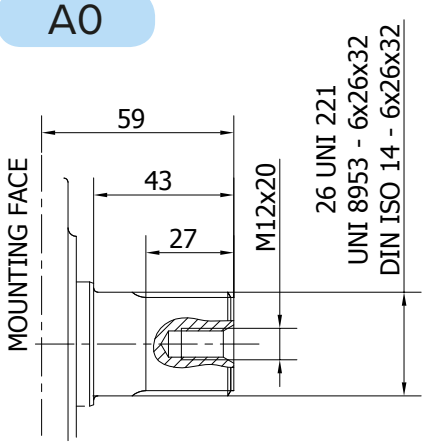
TECHNICAL DATA

		80	100	150	175	195
DISPLACEMENT	[cc]	80	100	157	176	195
SPECIFIC TORQUE	[Nm/bar]	1.3	1.6	2.5	2.8	3.1
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	950	950	950	800	800
PEAK SPEED (***)	[rpm]	1050	1050	1050	900	900
MAX. CONT. POWER (****)	[kW]	28	28	28	28	28
MAX. POWER	[kW]	41	41	41	41	41
MAX. CASE PRESSURE	[bar]	6	6	6	6	6
DRY WEIGHT	[kg]	26	26	26	26	26
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. 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.

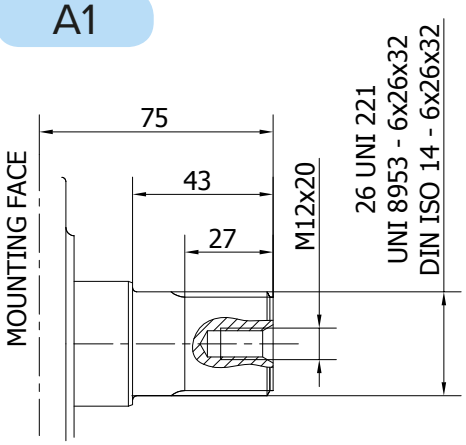
SHAFTS

A0



Available spline billet: SB1

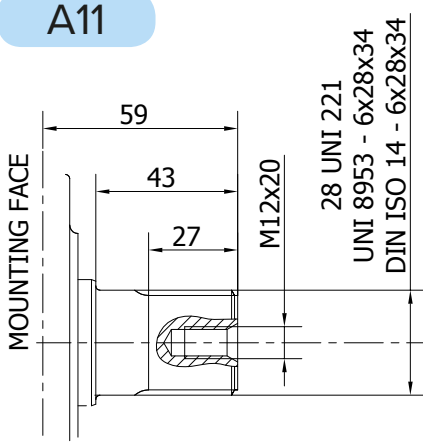
A1



Available spline billet: SB1

NOT AVAILABLE FOR 80 cc

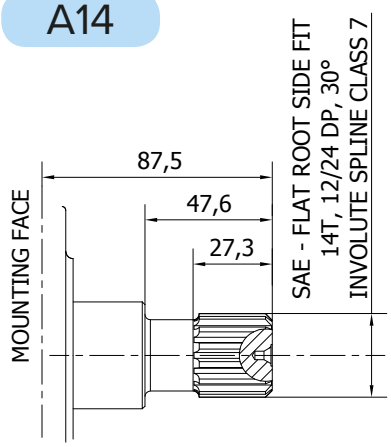
A11



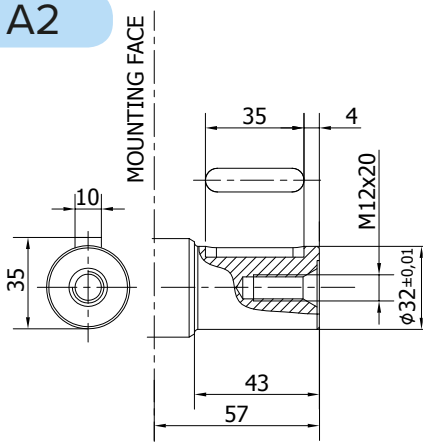
Available spline billet: SB14

NOT AVAILABLE FOR 80 cc

A14



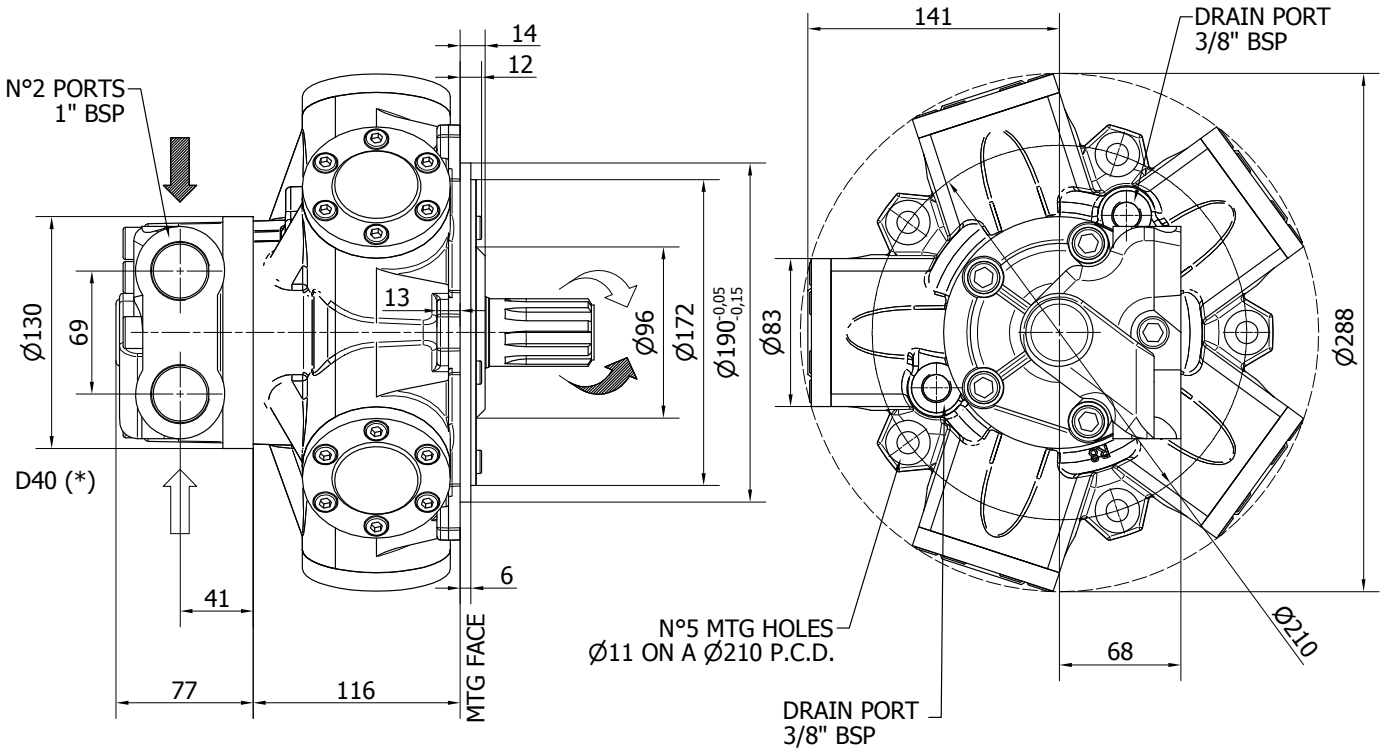
A2



NOT AVAILABLE FOR 80 cc

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R8M 200-250-300 H1

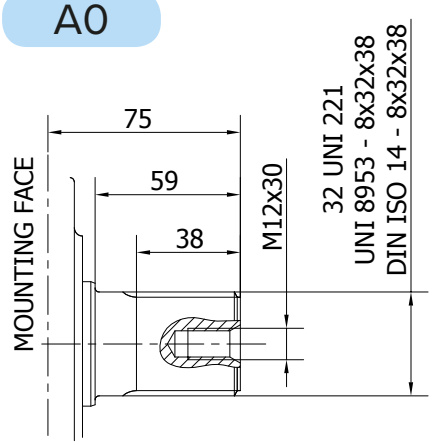


TECHNICAL DATA

		200	250	300
DISPLACEMENT	[cc]	207	257	307
SPECIFIC TORQUE	[Nm/bar]	3.3	4.1	4.9
MAX. CONT. PRESSURE	[bar]	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420
MAX. CONT. SPEED	[rpm]	750	750	750
PEAK SPEED (***)	[rpm]	850	850	850
MAX. CONT. POWER (****)	[kW]	28	28	28
MAX. POWER	[kW]	41	41	41
MAX. CASE PRESSURE	[bar]	6	6	6
DRY WEIGHT	[kg]	26	26	26
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70

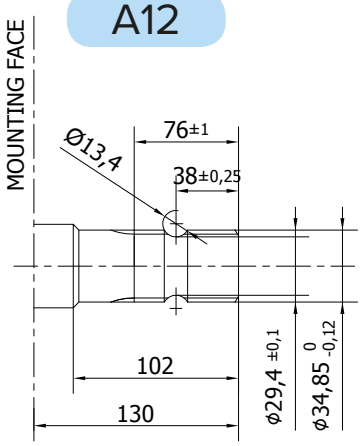
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 178-179) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle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

A0

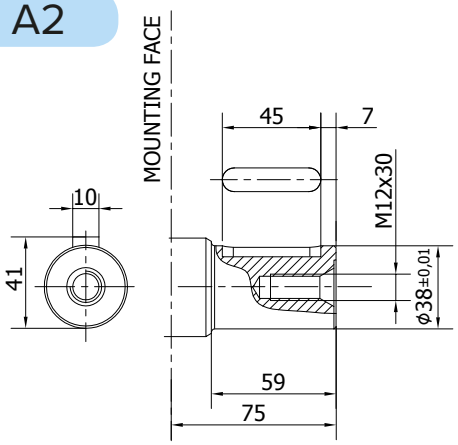


Available spline billet: SB2

A12

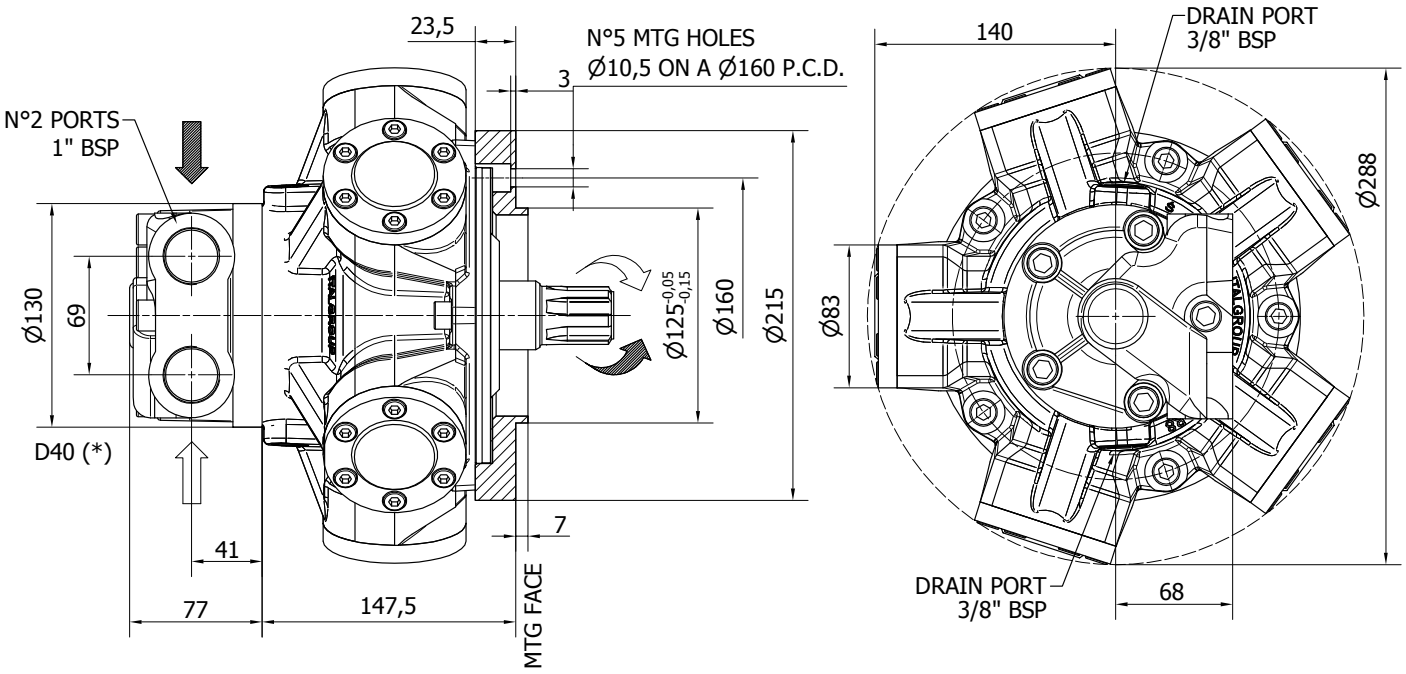


A2



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R8M H1/GM05

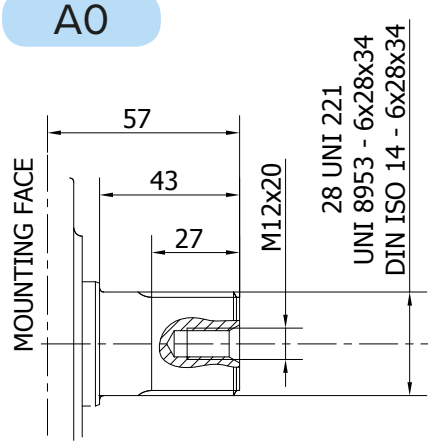


TECHNICAL DATA

		100	150	175	195	250
DISPLACEMENT	[cc]	100	157	176	195	257
SPECIFIC TORQUE	[Nm/bar]	1.6	2.5	2.8	3.1	4.1
MAX. CONT. PRESSURE	[bar]	270	270	270	270	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	950	950	800	800	750
PEAK SPEED (***)	[rpm]	1050	1050	900	900	850
MAX. CONT. POWER (****)	[kW]	28	28	28	28	28
MAX. POWER	[kW]	41	41	41	41	41
MAX. CASE PRESSURE	[bar]	6	6	6	6	6
DRY WEIGHT	[kg]	26	26	26	26	26
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. 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.

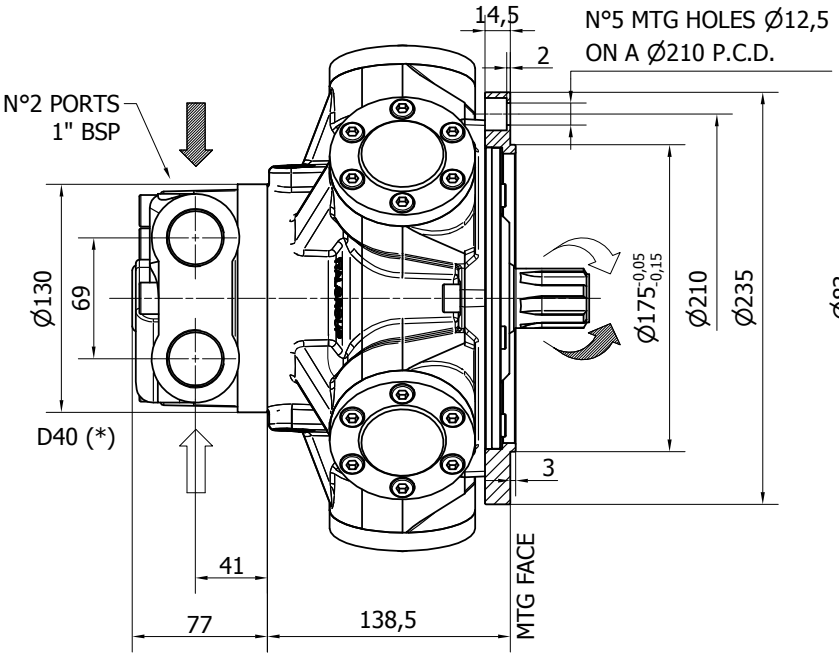
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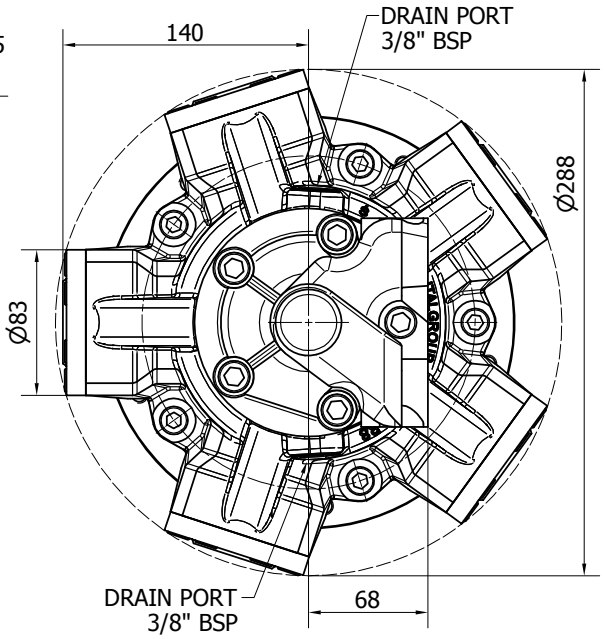


Available spline billet: SB14

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R8M H1/BH



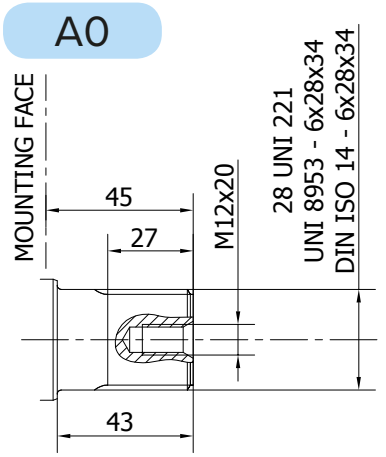


TECHNICAL DATA

		100	150	175	195	250	300
DISPLACEMENT	[cc]	100	157	176	195	257	307
SPECIFIC TORQUE	[Nm/bar]	1.6	2.5	2.8	3.1	4.1	4.9
MAX. CONT. PRESSURE	[bar]	270	270	270	270	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	950	950	800	800	750	750
PEAK SPEED (***)	[rpm]	1050	1050	900	900	850	850
MAX. CONT. POWER (****)	[kW]	28	28	28	28	28	28
MAX. POWER	[kW]	41	41	41	41	41	41
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	26	26	26	26	26	26
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.

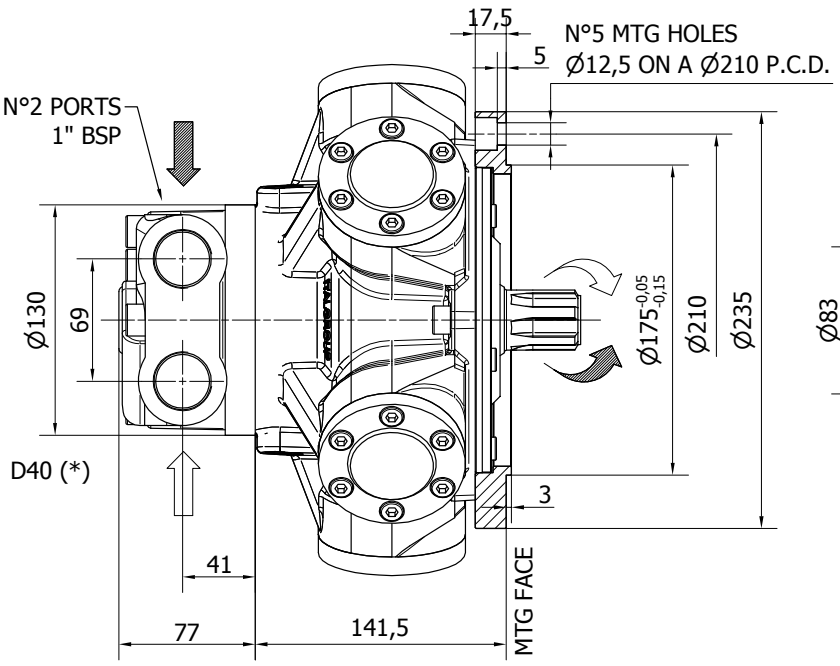
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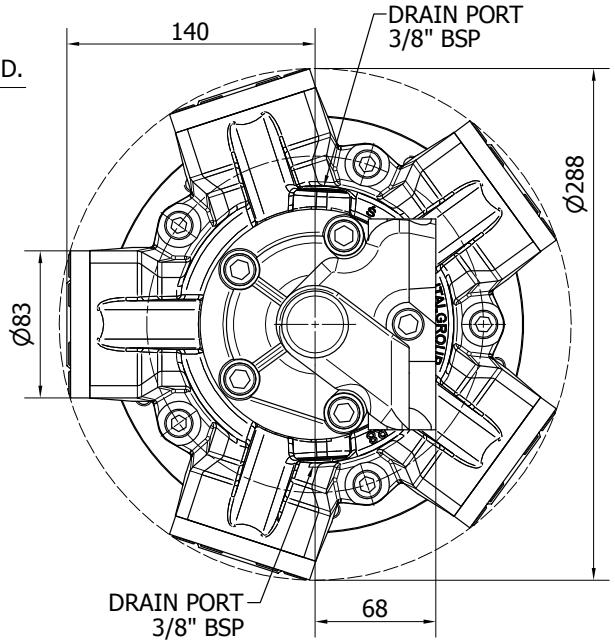


Available spline billet: SB14

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R8M H1/GM1



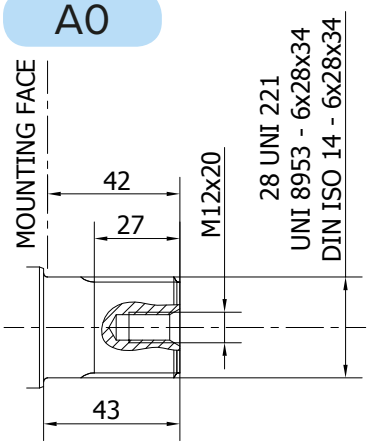


TECHNICAL DATA

		100	150	175	195	250	300
DISPLACEMENT	[cc]	100	157	176	195	257	307
SPECIFIC TORQUE	[Nm/bar]	1.6	2.5	2.8	3.1	4.1	4.9
MAX. CONT. PRESSURE	[bar]	270	270	270	270	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	950	950	800	800	750	750
PEAK SPEED (***)	[rpm]	1050	1050	900	900	850	850
MAX. CONT. POWER (****)	[kW]	28	28	28	28	28	28
MAX. POWER	[kW]	41	41	41	41	41	41
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	26	26	26	26	26	26
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.

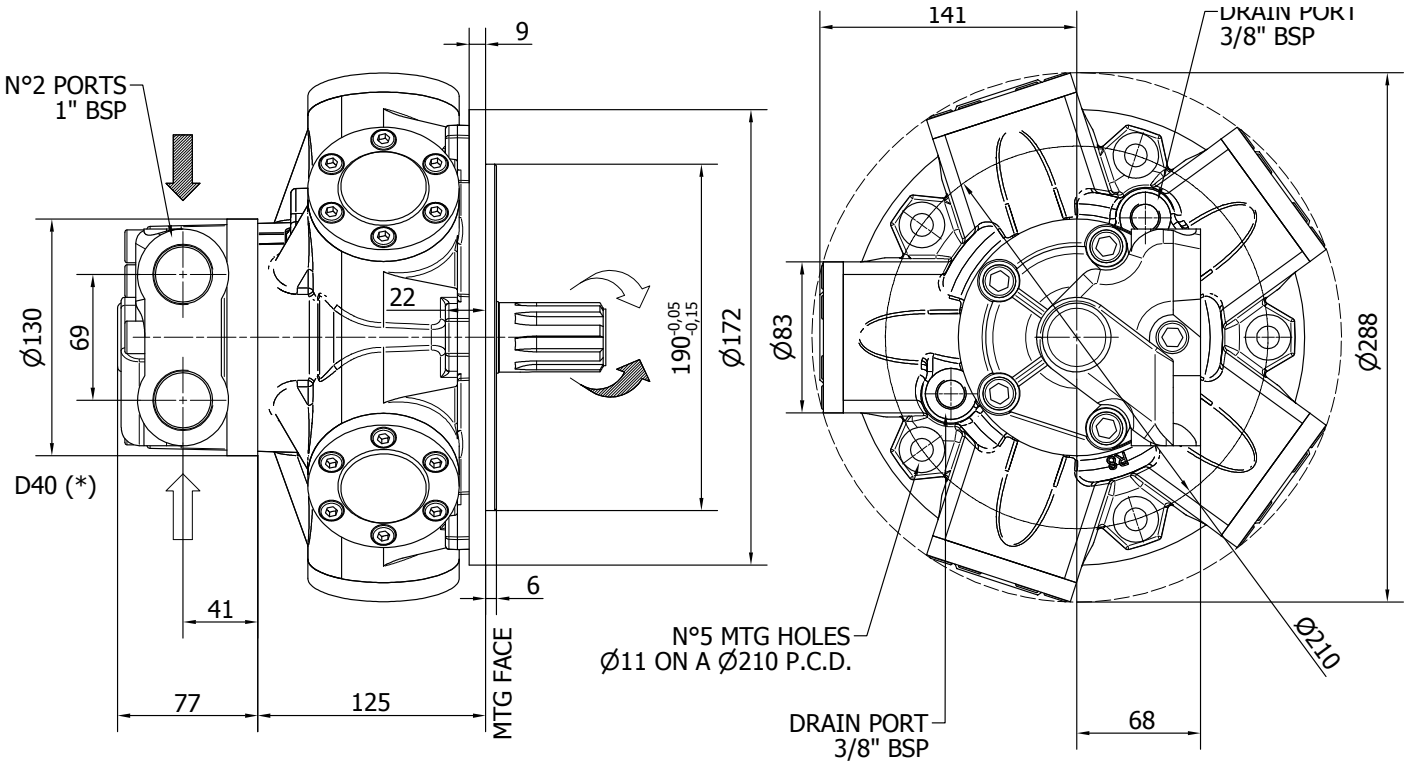
A0



Available spline billet: SB14

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R8M 200-250-300/PH H1

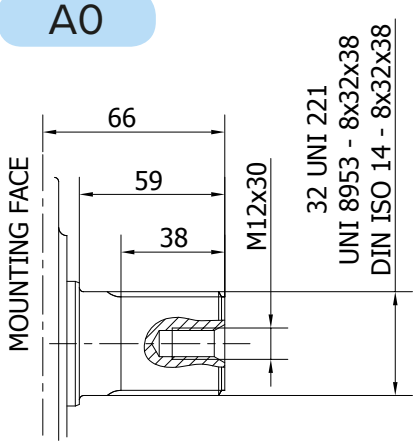


TECHNICAL DATA

		200	250	300
DISPLACEMENT	[cc]	207	257	307
SPECIFIC TORQUE	[Nm/bar]	3.3	4.1	4.9
MAX. CONT. PRESSURE	[bar]	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420
MAX. CONT. SPEED	[rpm]	750	750	750
PEAK SPEED (***)	[rpm]	850	850	850
MAX. CONT. POWER (****)	[kW]	28	28	28
MAX. POWER	[kW]	41	41	41
MAX. CASE PRESSURE	[bar]	6	6	6
DRY WEIGHT	[kg]	26	26	26
TEMPERATURE RANGE (**)	[°C]	-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

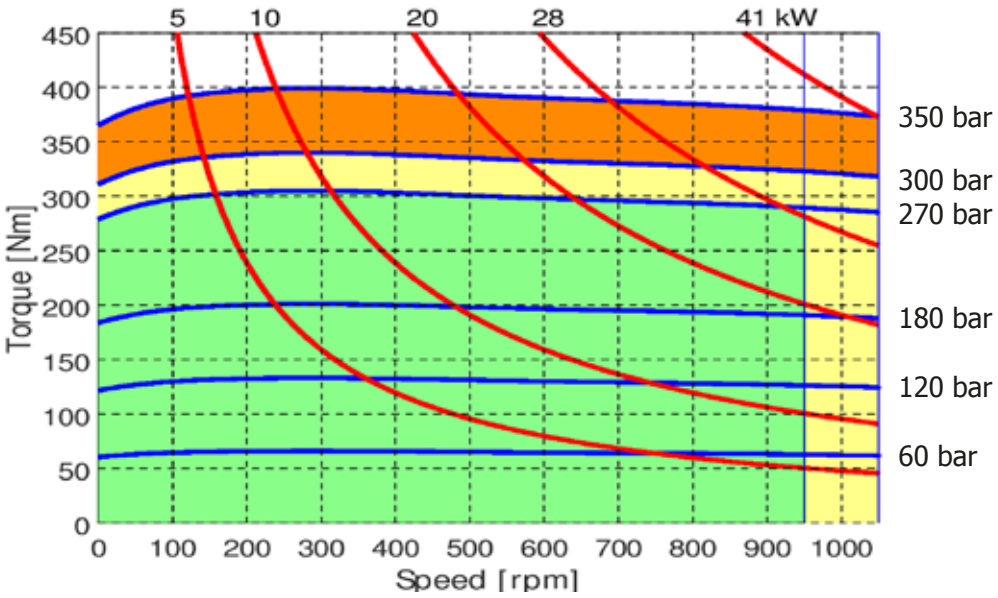


Available spline billet: SB2

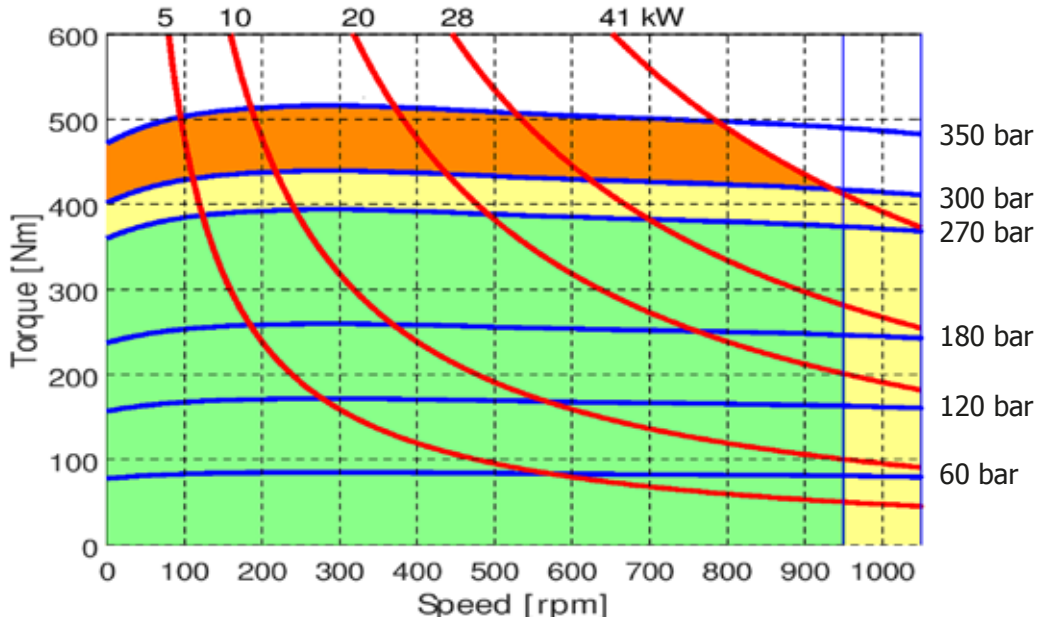
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R8M H1 - PERFORMANCE CURVES

R8M 80 H1



R8M 100 H1



Continuous operation

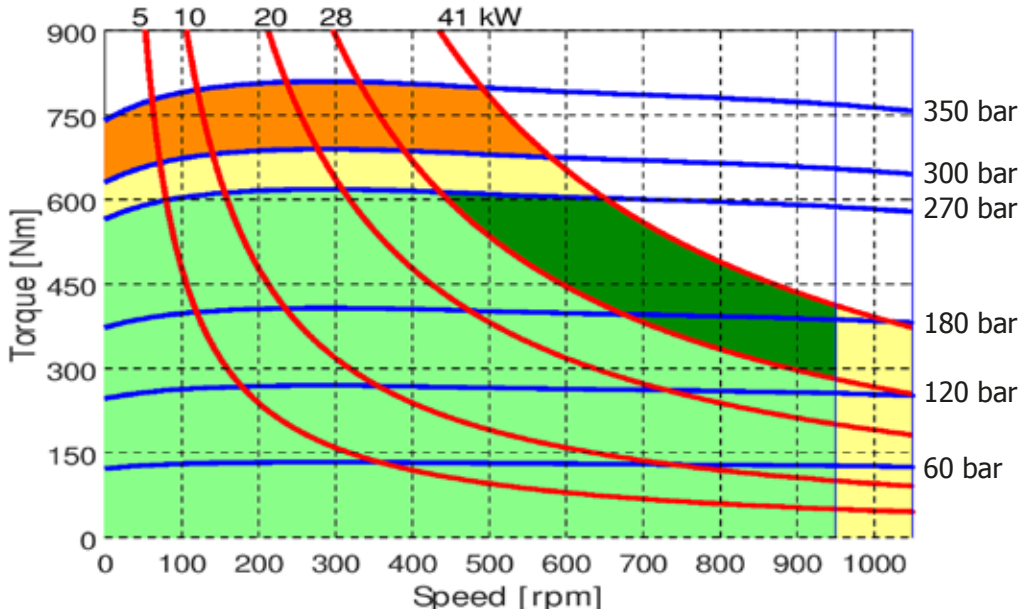
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

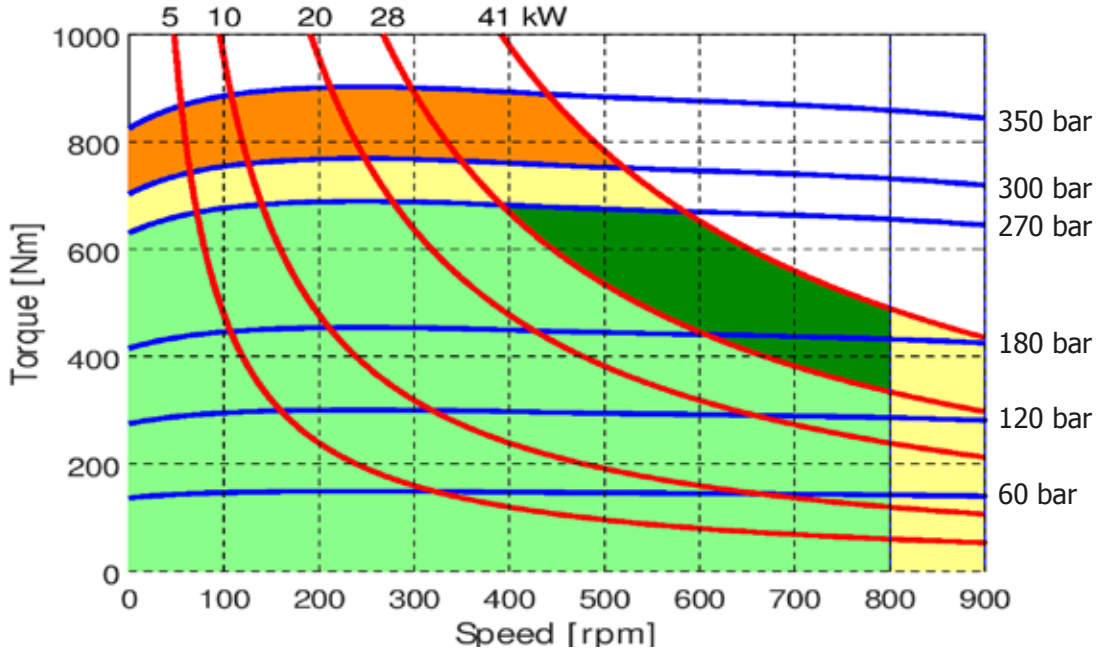
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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 150 H1



R8M 175 H1



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

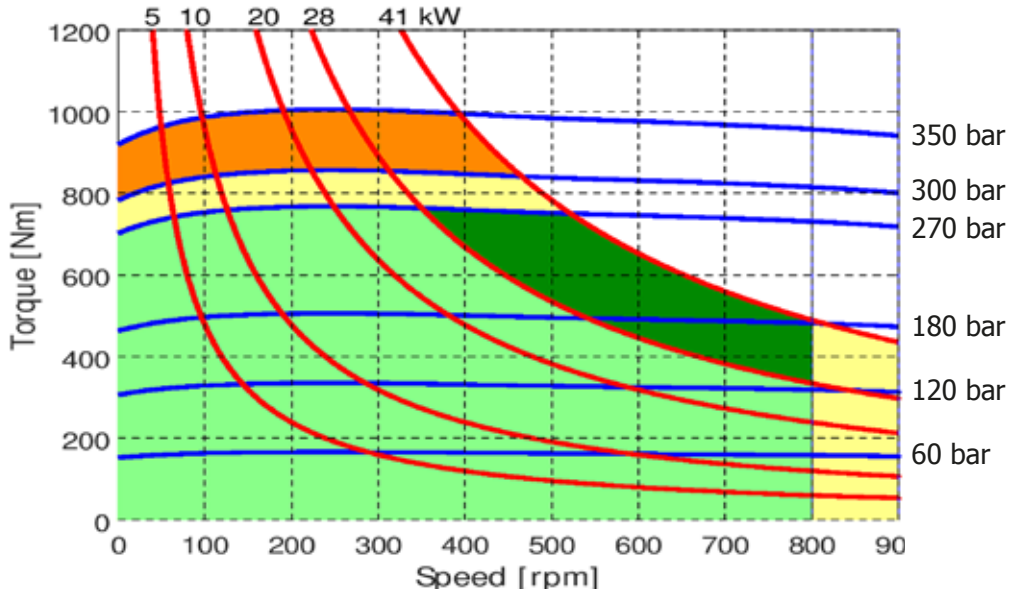
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

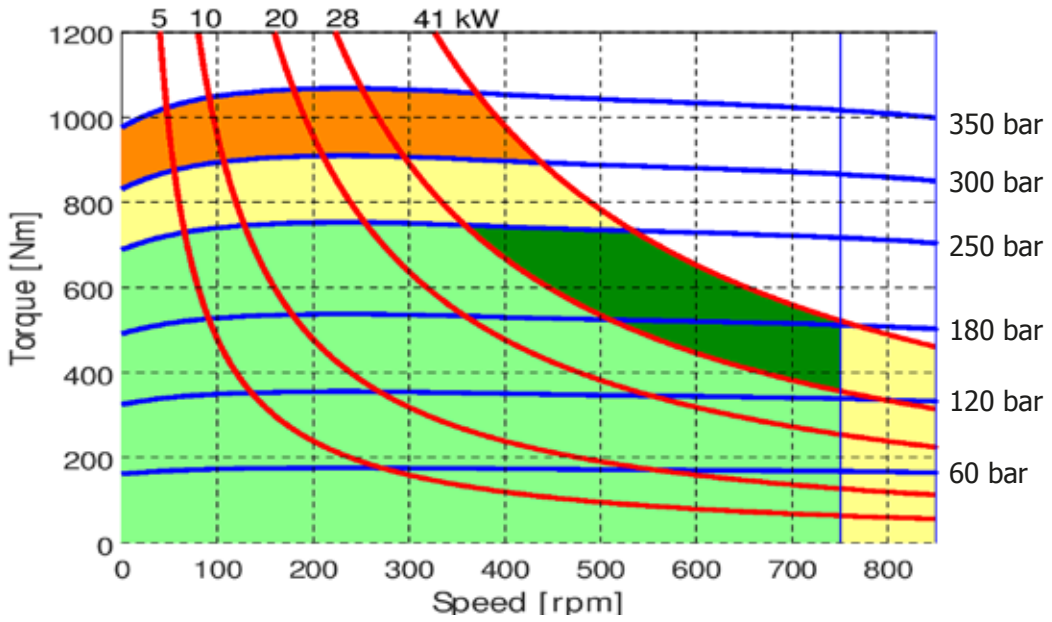
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R8M H1 - PERFORMANCE CURVES

R8M 195 H1



R8M 200 H1



Continuous operation

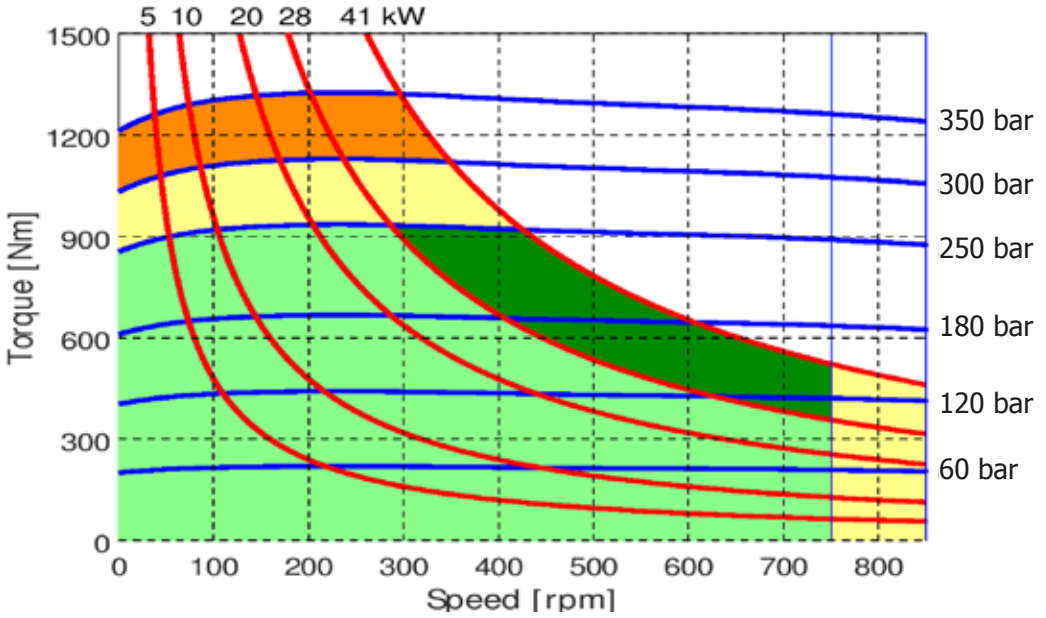
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

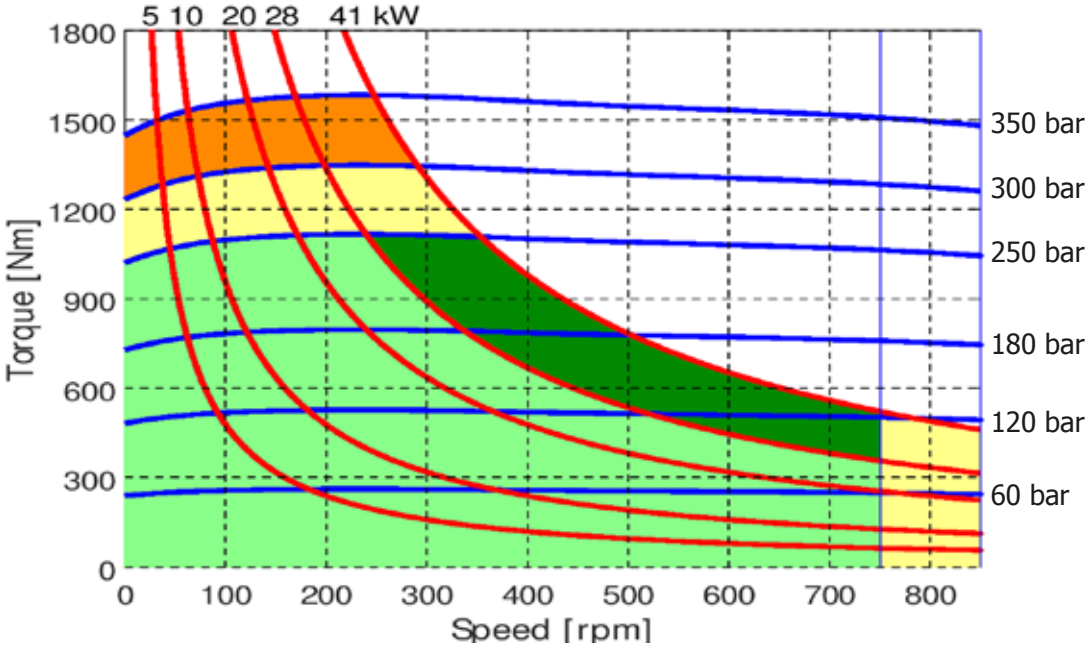
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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 250 H1



R8M 300 H1



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)

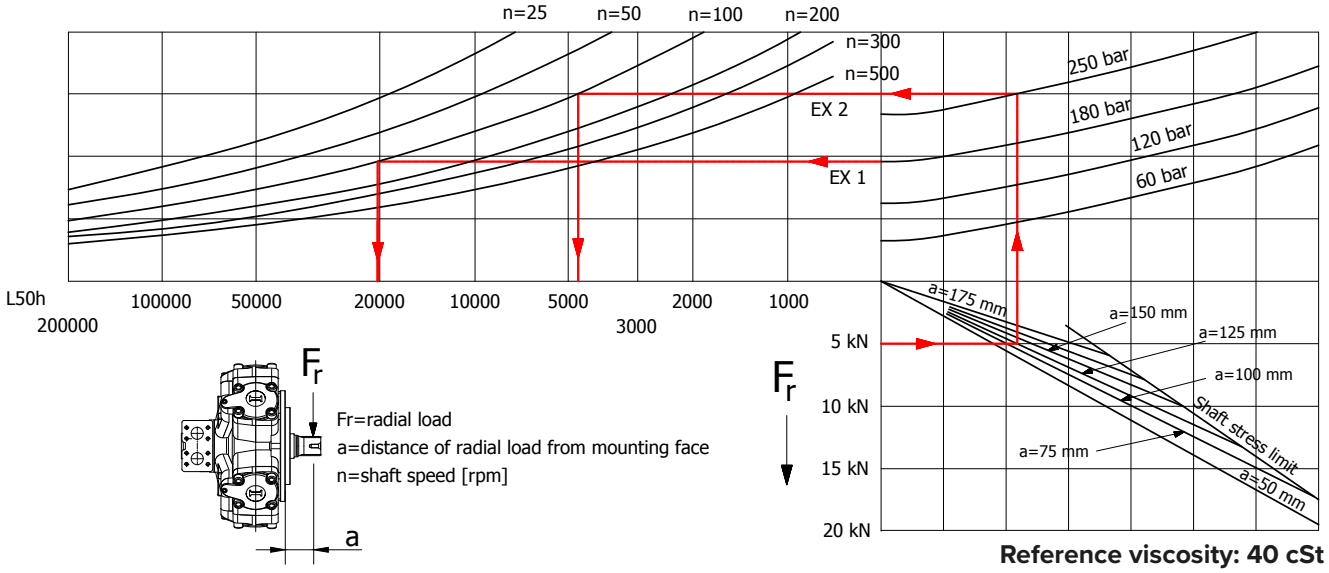
The above diagrams are referring to the hydraulic motor working with a fluid in ideal conditions (viscosity at 40 cSt). In case the working temperature increases and viscosity reach values under the recommended values (see hydraulic fluid recommendations) flushing must be performed or ISO oil grade must be changed. The working temperature must not overcome 70 °C.

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R8M H1 - PERFORMANCE CURVES

BEARING LIFE

Reference displacement 195 cc



Reference viscosity: 40 cSt

Example:
We suppose (EX1): p=180 [bar], n=100 [rpm]; we obtain an average lifetime of 20000 [h].
If we suppose (EX2): F_r=5 [kN], a=125 [mm], p=250 [bar] and n=100 [rpm], we obtain an average lifetime of 4500 [h].

The above data are referring to the R8M H1 series motors, displacement 195 cc.

R8M H1 - ORDERING CODE

R8M | - - | - - | H1 | - - | - - | - - | - - | SB -

DISPLACEMENT
- 80
- 100
- 150
- 175
- 195
- 200
- 250
- 300

INTERCHANGEABILITY
- /GM05
- /GM1
- /BH
- /PH

SERIE
- H1

SHAFT
- A0
- A1
- A11
- A12
- A2

DISTRIBUTOR

D31B	D31BJ
D36B	D36BJ
D310B	D310BJ
D40	D40J
D47	D47J
D416	D416J

See pag. 178-179

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

See pag. 180-184

SPECIAL FEATURES
- MP
- SPSL
- HPS
- CCW

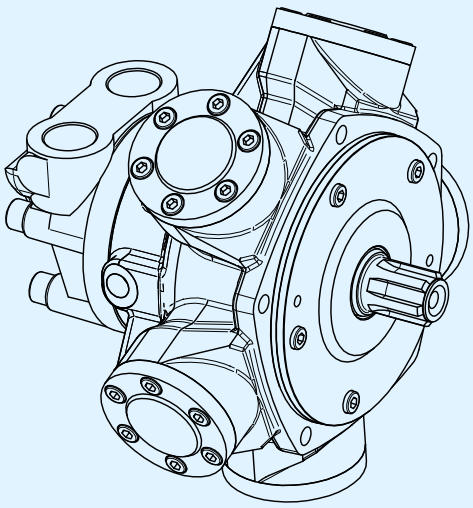
See pag. 23

- Z - -

Italgroup internal code

SPLINE BILLET
- SB1
- SB2
- SB14

See pag. 185-188



EXAMPLES:

R8M 100 H1 A0 D40
R8M 195/GM1 H1 A0 D40J SB14
R8M 200/PH H1 A0 D31B

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