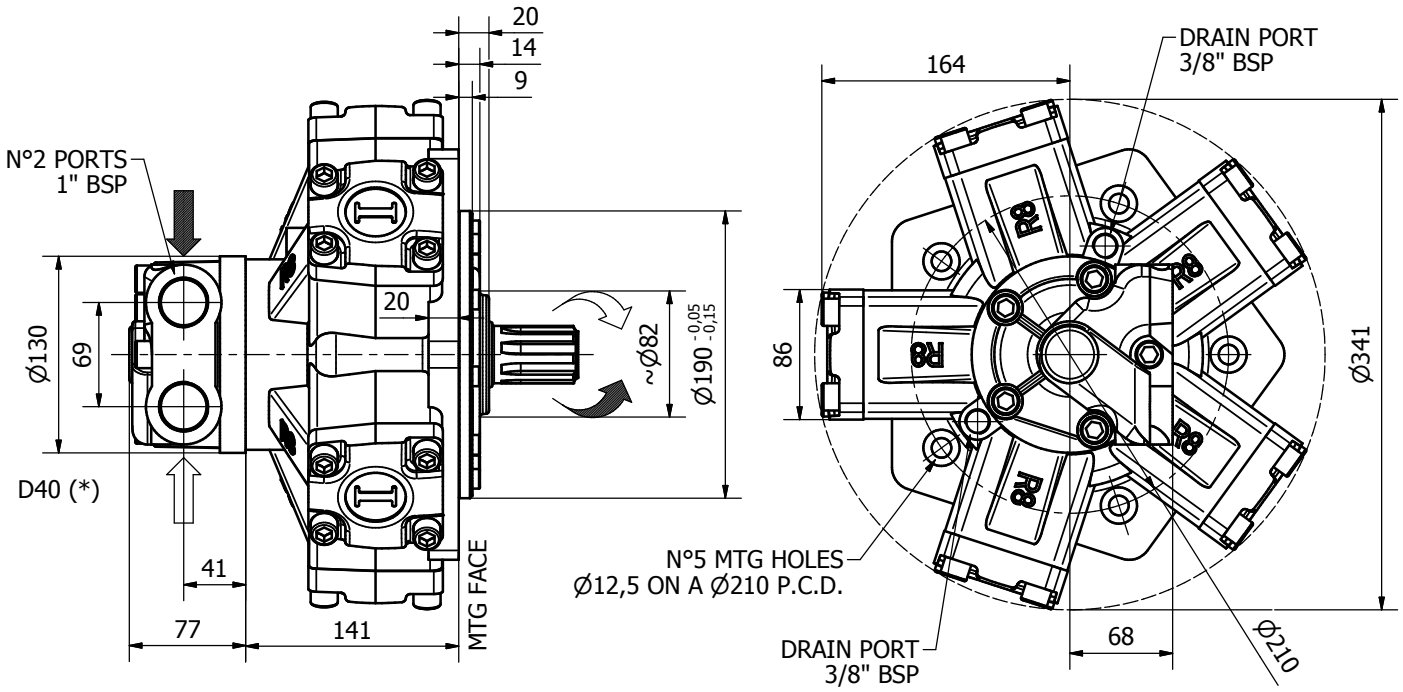
R8M H2

R8M 200-250-300-350 H2	Pag. 48 - 49
R8M 400-500-600 H2	Pag. 50 - 51
R8M 160-190-250/C190 H2	Pag. 52 - 53
R8M 250-300-350-400/C300 H2	Pag. 54 - 55
R8M 200/B10 H2	Pag. 56 - 57
R8M H2/PH	Pag. 58 - 59
R8M H2/GM2	Pag. 60 - 61
R8M H2/S	Pag. 62 - 63
R8M H2 - PERFORMANCE CURVES	Pag. 64 - 69
R8M H2 - ORDERING CODE	Pag. 70

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R8M 200-250-300-350 H2

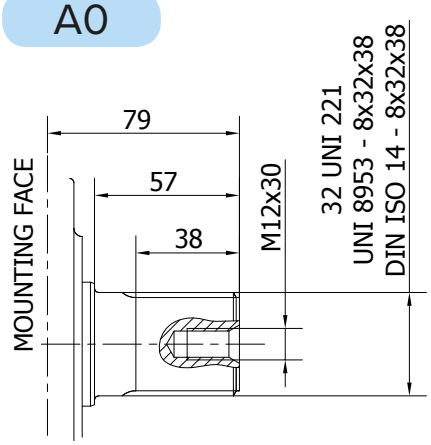


TECHNICAL DATA

		200	250	300	350
DISPLACEMENT	[cc]	198	253	314	362
SPECIFIC TORQUE	[Nm/bar]	3.2	4.0	5.0	5.8
MAX. CONT. PRESSURE	[bar]	270	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420
MAX. CONT. SPEED	[rpm]	800	750	750	650
PEAK SPEED (***)	[rpm]	900	850	850	750
MAX. CONT. POWER (****)	[kW]	35	35	35	35
MAX. POWER	[kW]	50	50	50	50
MAX. CASE PRESSURE	[bar]	6	6	6	6
DRY WEIGHT	[kg]	42	42	42	42
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70

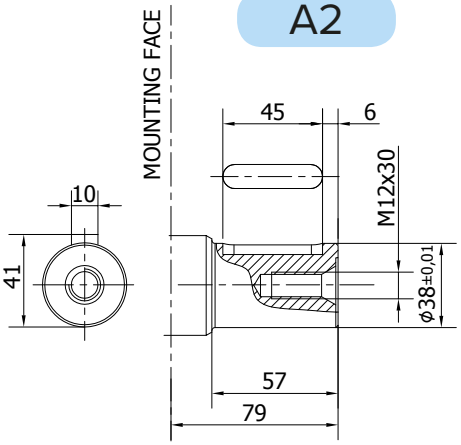
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 178-179) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle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

A0

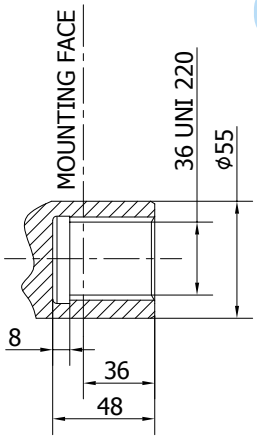


Available spline billet: SB2

A2



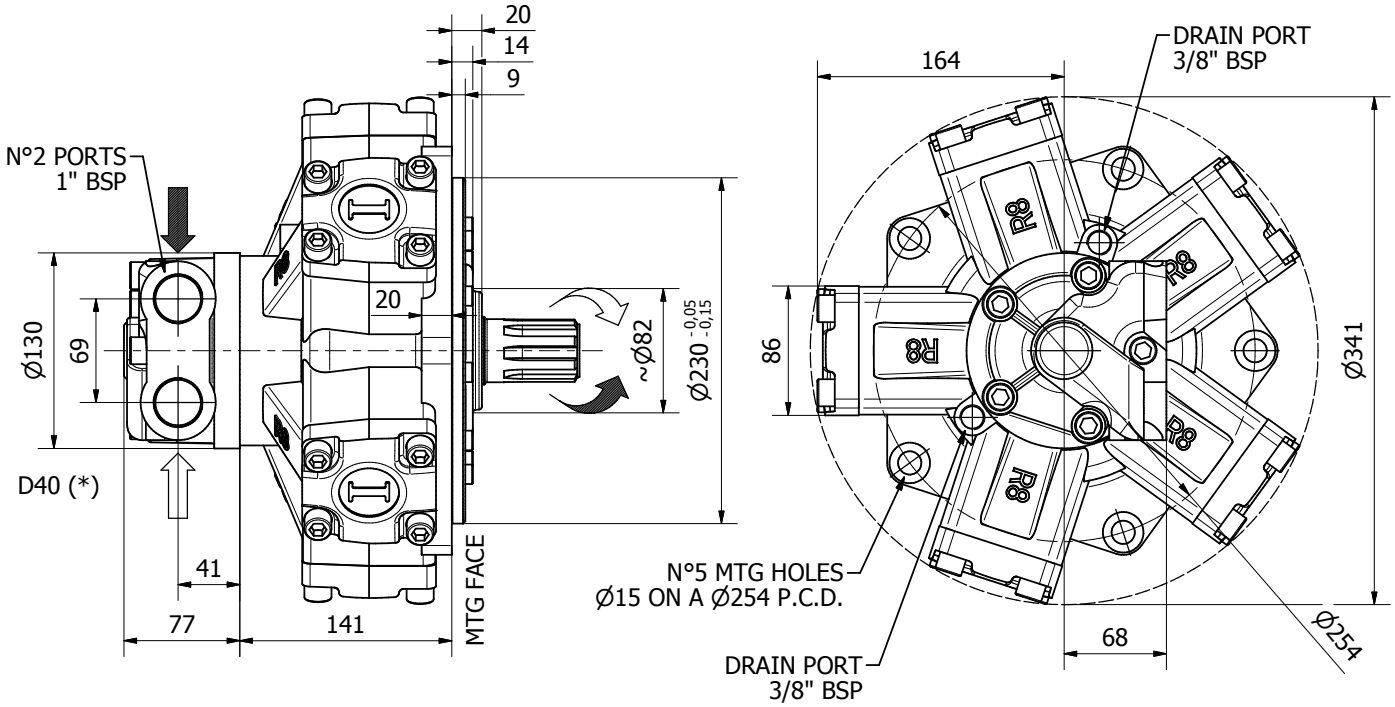
A3



Available spline bar: B8078

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R8M 400-500-600 H2

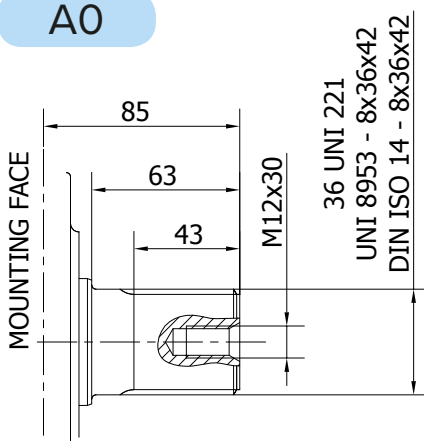


TECHNICAL DATA

		400	500	600
DISPLACEMENT	[cc]	424	492	584
SPECIFIC TORQUE	[Nm/bar]	6.7	7.8	9.3
MAX. CONT. PRESSURE	[bar]	270	260	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420
MAX. CONT. SPEED	[rpm]	600	500	500
PEAK SPEED (***)	[rpm]	700	600	600
MAX. CONT. POWER (****)	[kW]	35	35	35
MAX. POWER	[kW]	50	50	50
MAX. CASE PRESSURE	[bar]	6	6	6
DRY WEIGHT	[kg]	42	42	42
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70

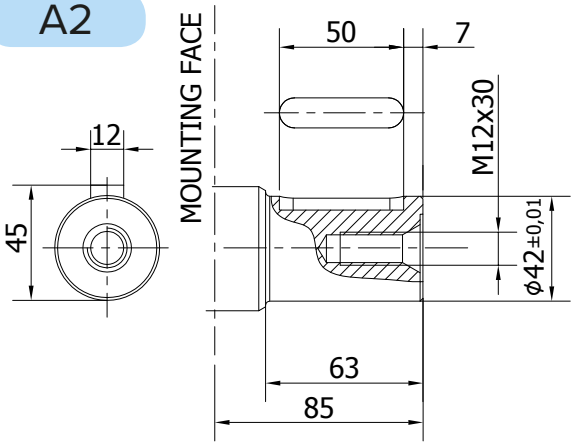
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 178-179) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle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

A0

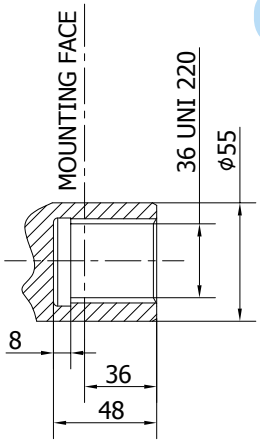


Available spline billet: SB3

A2



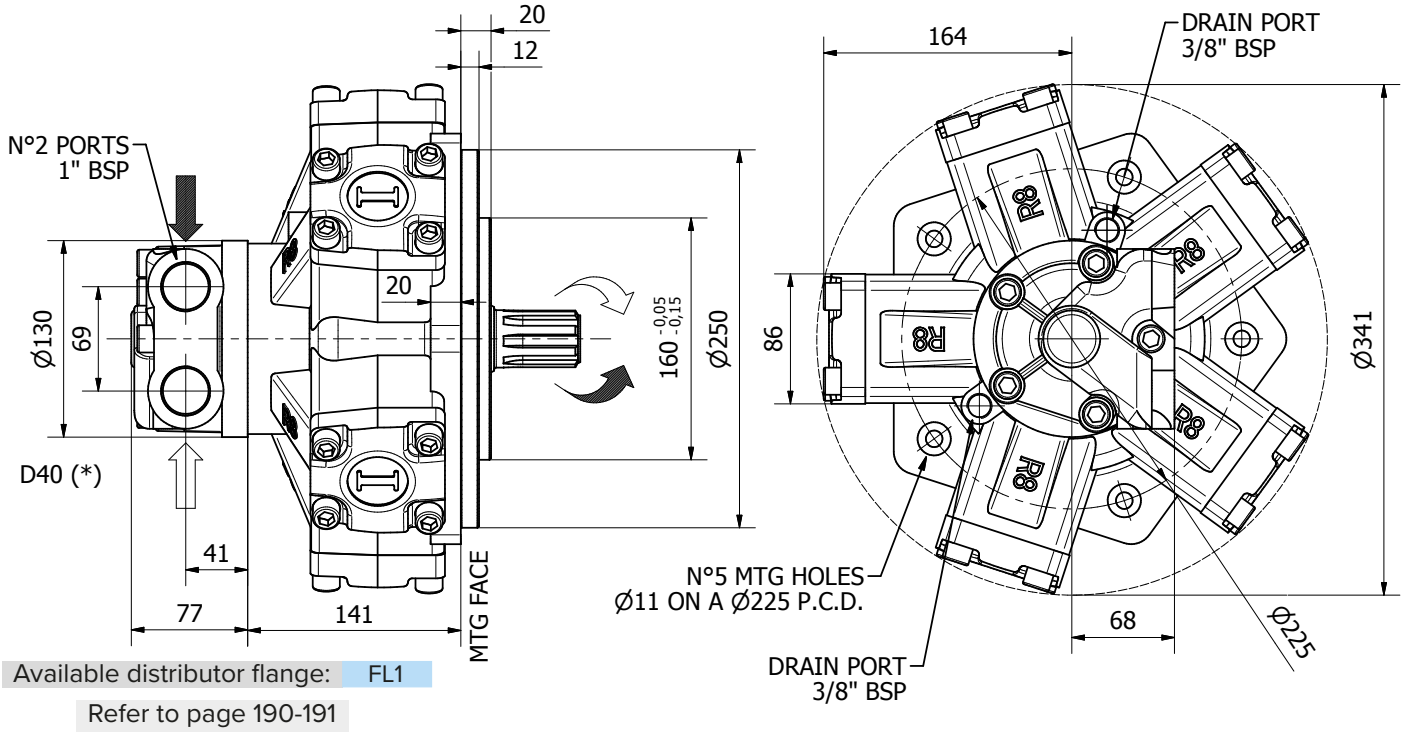
A3



Available spline bar: B8078

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R8M 160-190-250/C190 H2



Available distributor flange: FL1

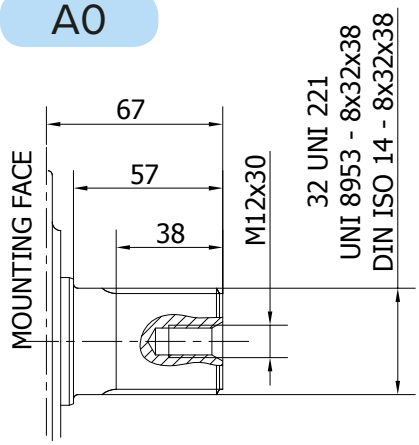
Refer to page 190-191
(distributor fitting D47)

TECHNICAL DATA

		160	190	250
DISPLACEMENT	[cc]	162	198	253
SPECIFIC TORQUE	[Nm/bar]	2.6	3.2	4.0
MAX. CONT. PRESSURE	[bar]	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420
MAX. CONT. SPEED	[rpm]	950	800	750
PEAK SPEED (***)	[rpm]	1050	900	850
MAX. CONT. POWER (****)	[kW]	35	35	35
MAX. POWER	[kW]	50	50	50
MAX. CASE PRESSURE	[bar]	6	6	6
DRY WEIGHT	[kg]	42	42	42
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70

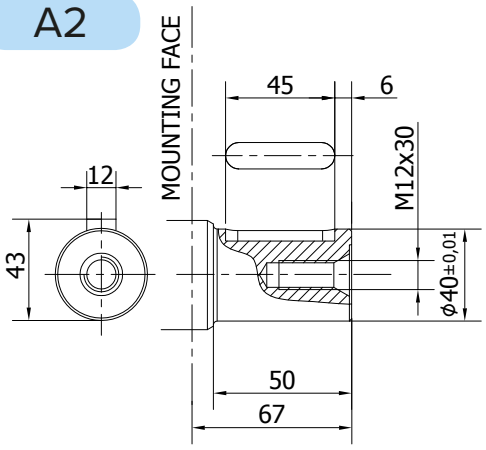
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 178-179) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle 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

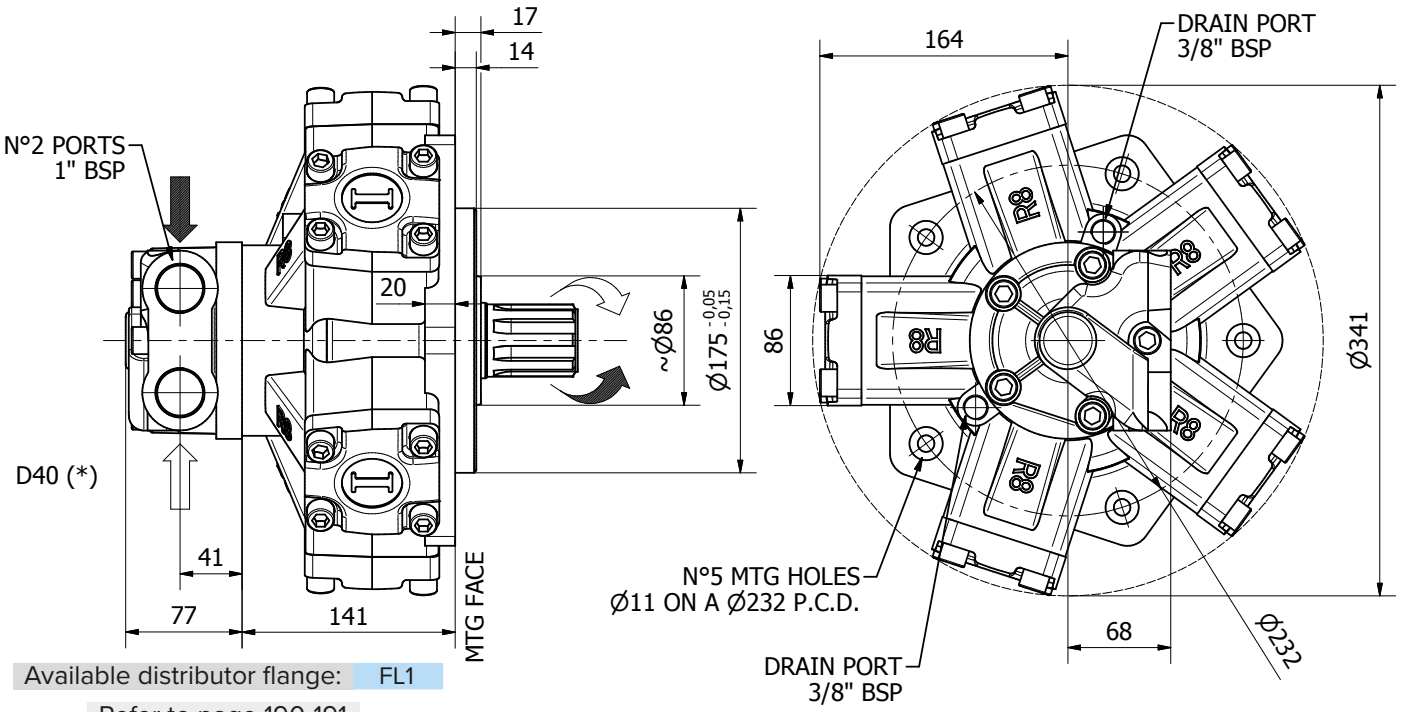
A2



NOT AVAILABLE FOR
160 AND 250 cc

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R8M 250-300-350-400/C300 H2



Available distributor flange: FL1

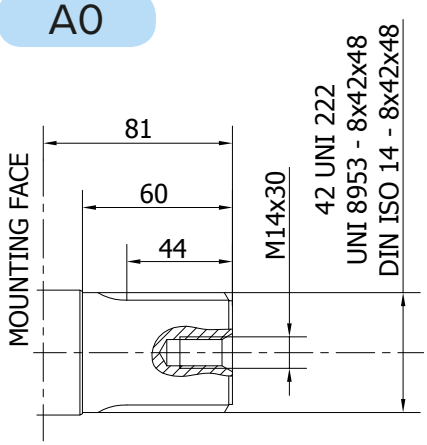
Refer to page 190-191
(distributor fitting D47)

TECHNICAL DATA

		250	300	350	400
DISPLACEMENT	[cc]	253	314	362	393
SPECIFIC TORQUE	[Nm/bar]	4.0	5.0	5.8	6.3
MAX. CONT. PRESSURE	[bar]	270	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420
MAX. CONT. SPEED	[rpm]	750	750	650	600
PEAK SPEED (***)	[rpm]	850	850	750	700
MAX. CONT. POWER (****)	[kW]	35	35	35	35
MAX. POWER	[kW]	50	50	50	50
MAX. CASE PRESSURE	[bar]	6	6	6	6
DRY WEIGHT	[kg]	42	42	42	42
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70

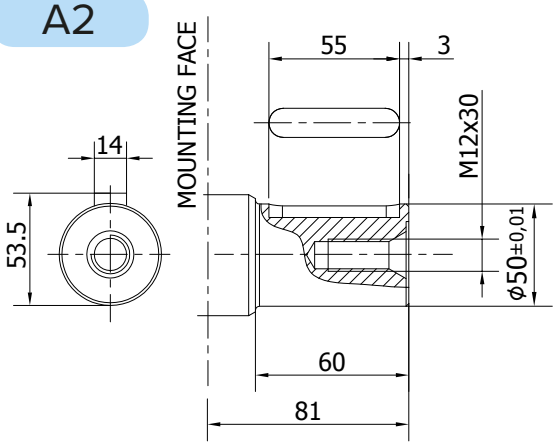
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 178-179) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle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

A0



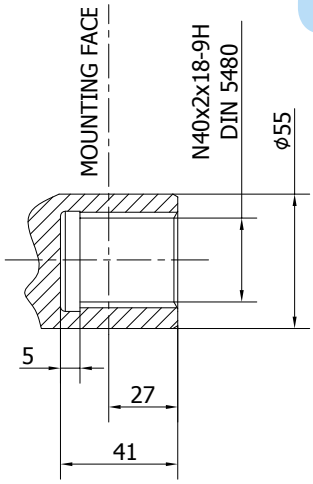
Available spline billet: SB15

A2



NOT AVAILABLE FOR 250 cc

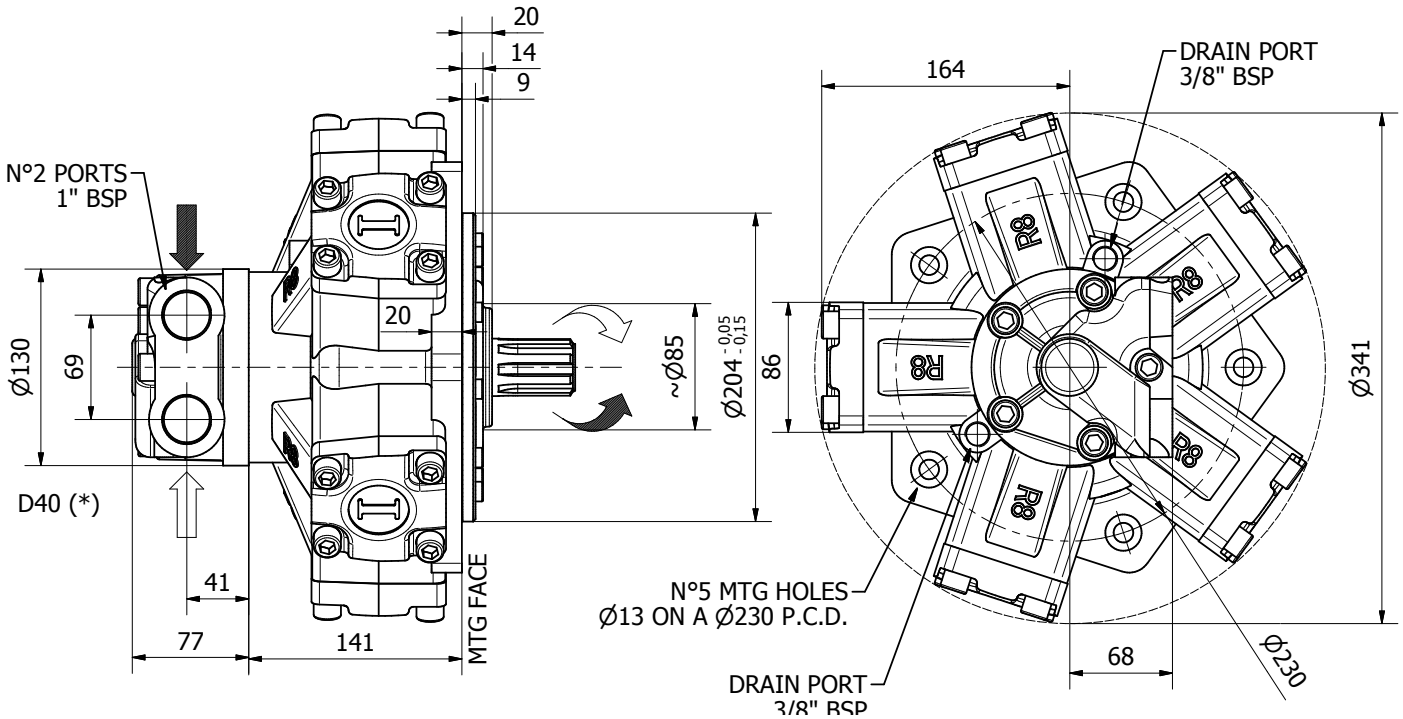
A3



NOT AVAILABLE FOR 250 cc

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R8M 200/B10 H2

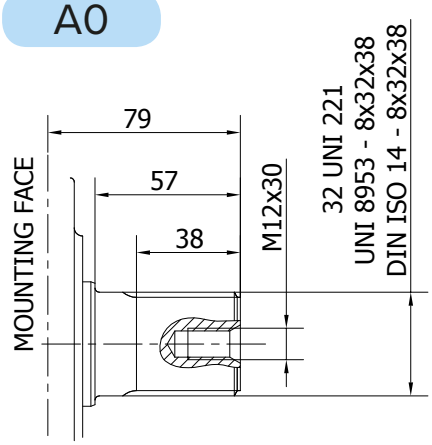


TECHNICAL DATA

		200
DISPLACEMENT	[cc]	198
SPECIFIC TORQUE	[Nm/bar]	3.2
MAX. CONT. PRESSURE	[bar]	270
HYDROSTATIC TEST PRESSURE	[bar]	420
MAX. CONT. SPEED	[rpm]	800
PEAK SPEED (***)	[rpm]	900
MAX. CONT. POWER (****)	[kW]	35
MAX. POWER	[kW]	50
MAX. CASE PRESSURE	[bar]	6
DRY WEIGHT	[kg]	42
TEMPERATURE RANGE (**)	[°C]	-30÷70

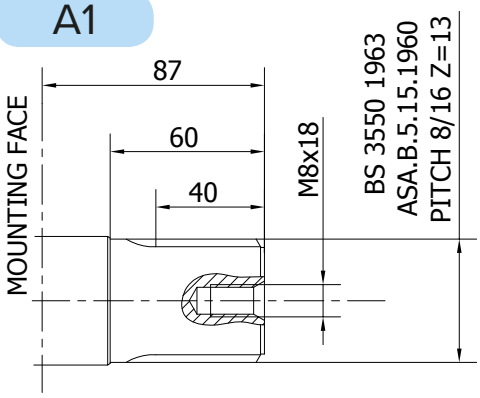
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 178-179) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle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

A0

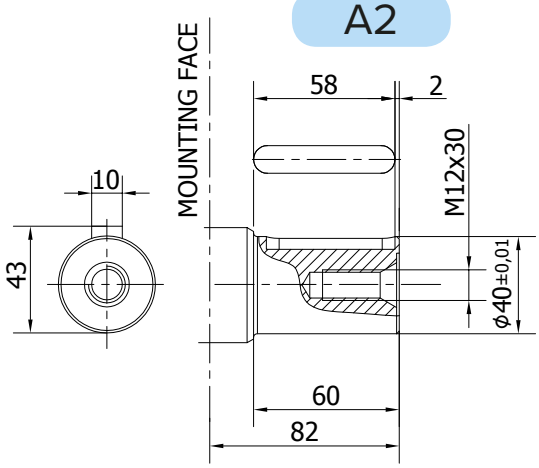


Available spline billet: SB2

A1

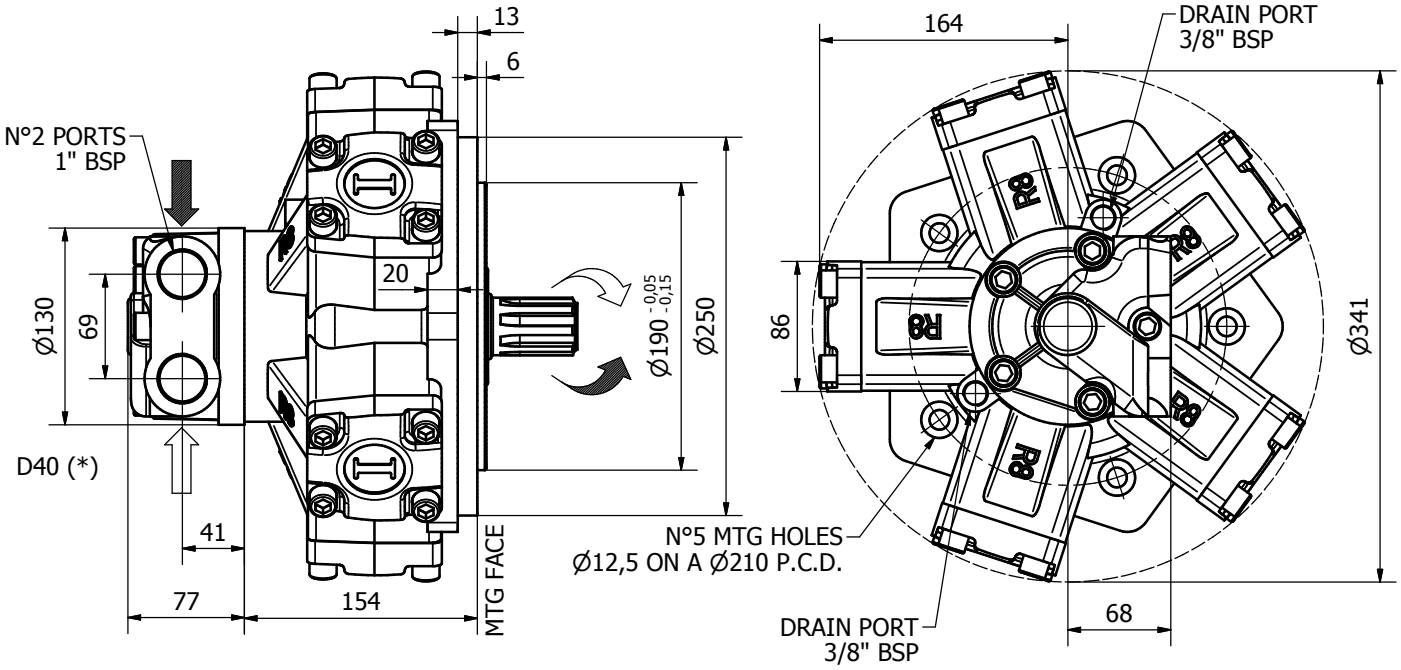


A2



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R8M H2/PH

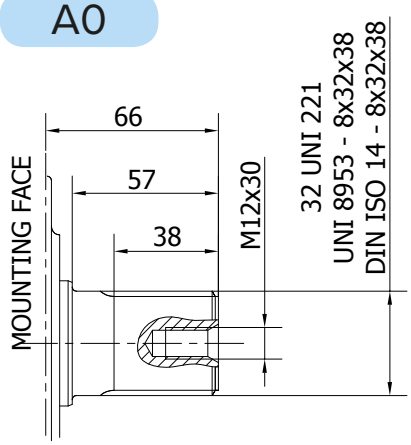


TECHNICAL DATA

		200	250	300	350	400	500	600
DISPLACEMENT	[cc]	198	253	314	362	424	492	584
SPECIFIC TORQUE	[Nm/bar]	3.2	4.0	5.0	5.8	6.7	7.8	9.3
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	260	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	800	750	750	650	600	500	500
PEAK SPEED (***)	[rpm]	900	850	850	750	700	600	600
MAX. CONT. POWER (****)	[kW]	35	35	35	35	35	35	35
MAX. POWER	[kW]	50	50	50	50	50	50	50
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	42	42	42	42	42	42	42
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

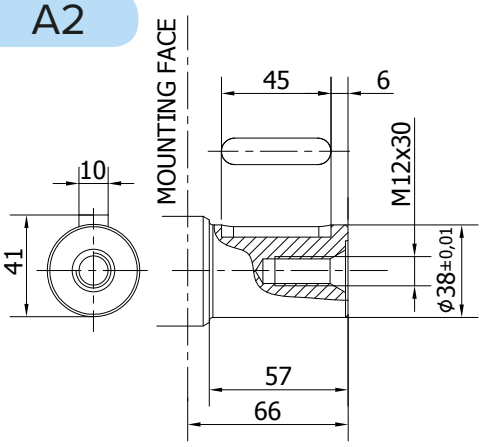
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 178-179) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle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

A0



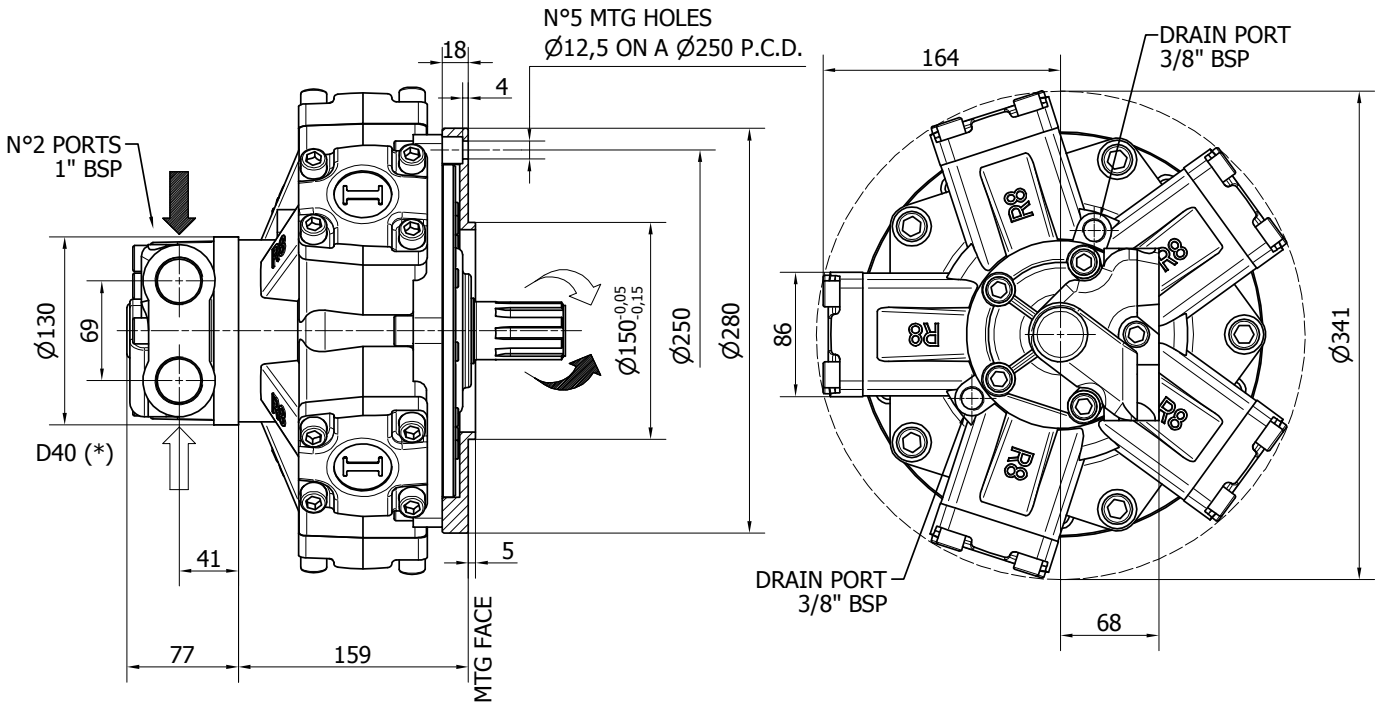
Available spline billet: SB2

A2



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R8M H2/GM2

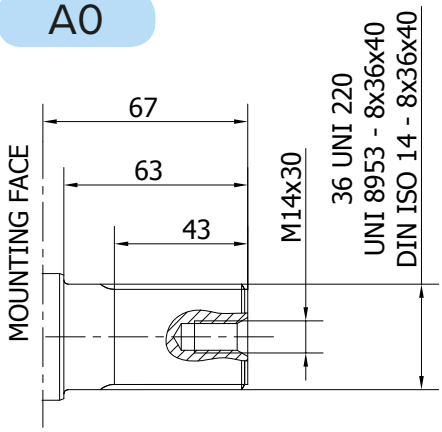


TECHNICAL DATA

		200	250	300	350	400	500	600
DISPLACEMENT	[cc]	198	253	314	362	424	492	584
SPECIFIC TORQUE	[Nm/bar]	3.2	4.0	5.0	5.8	6.7	7.8	9.3
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	260	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	800	750	750	650	600	500	500
PEAK SPEED (***)	[rpm]	900	850	850	750	700	600	600
MAX. CONT. POWER (****)	[kW]	35	35	35	35	35	35	35
MAX. POWER	[kW]	50	50	50	50	50	50	50
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	42	42	42	42	42	42	42
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

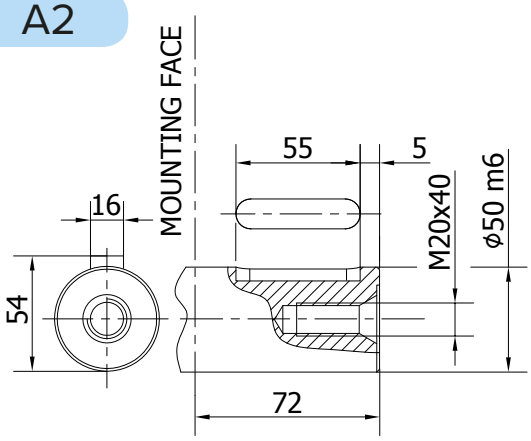
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 178-179) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle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

A0

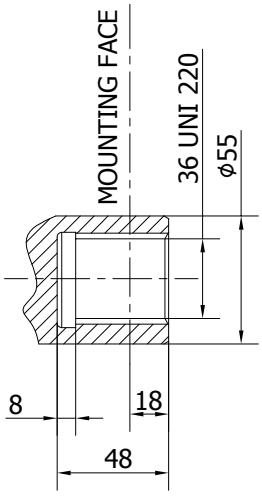


Available spline billet: SB3

A2



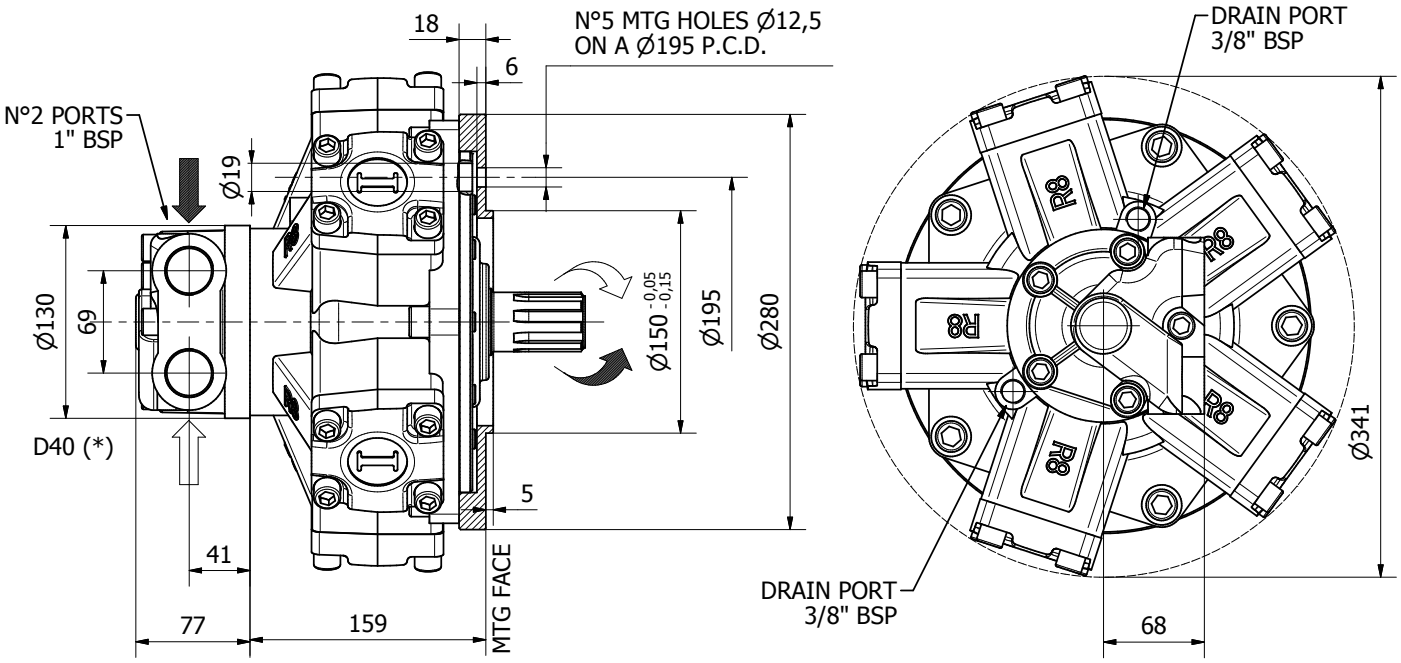
A3



Available spline bar: B8078

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R8M H2/S

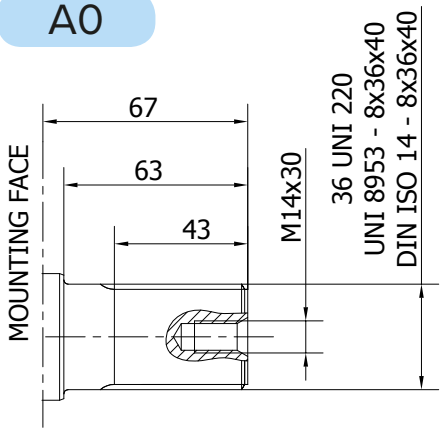


TECHNICAL DATA

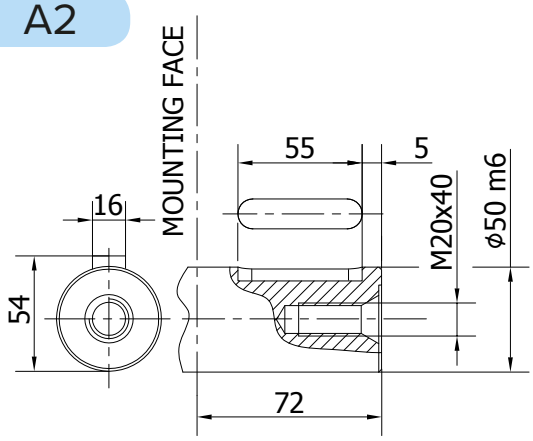
		200	250	300	350	400	500	600
DISPLACEMENT	[cc]	198	253	314	362	424	492	584
SPECIFIC TORQUE	[Nm/bar]	3.2	4.0	5.0	5.8	6.7	7.8	9.3
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	260	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	800	750	750	650	600	500	500
PEAK SPEED (***)	[rpm]	900	850	850	750	700	600	600
MAX. CONT. POWER (****)	[kW]	35	35	35	35	35	35	35
MAX. POWER	[kW]	50	50	50	50	50	50	50
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	42	42	42	42	42	42	42
TEMPERATURE RANGE (**)	[°C]	-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.

A0

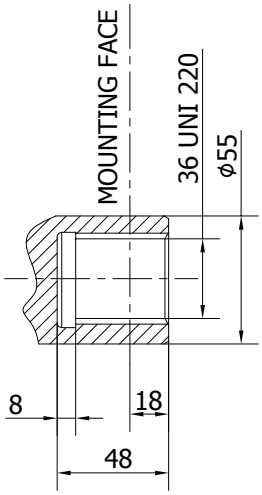


A2



Available spline billet: SB3

A3

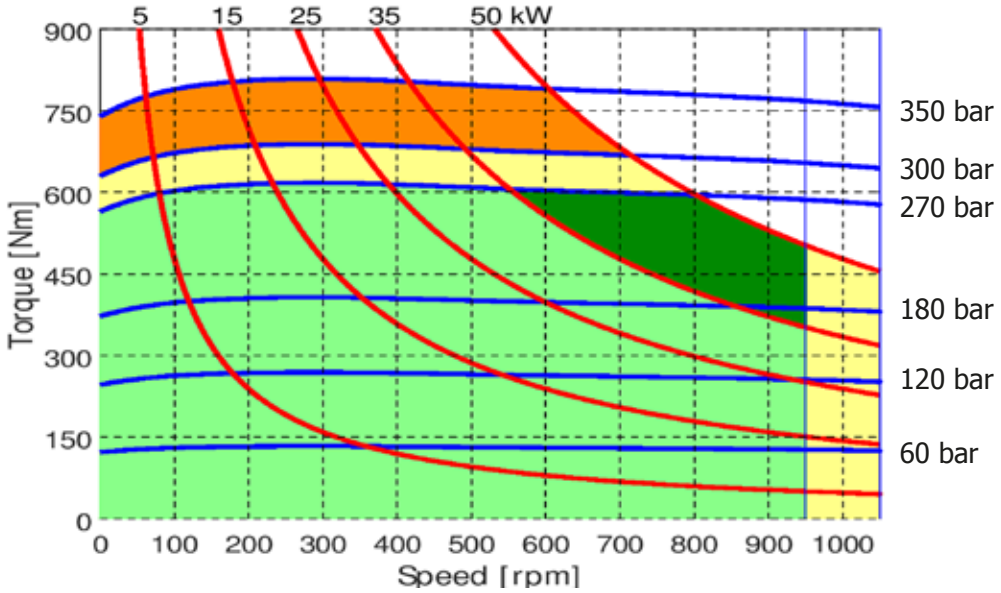


Available spline bar: B8078

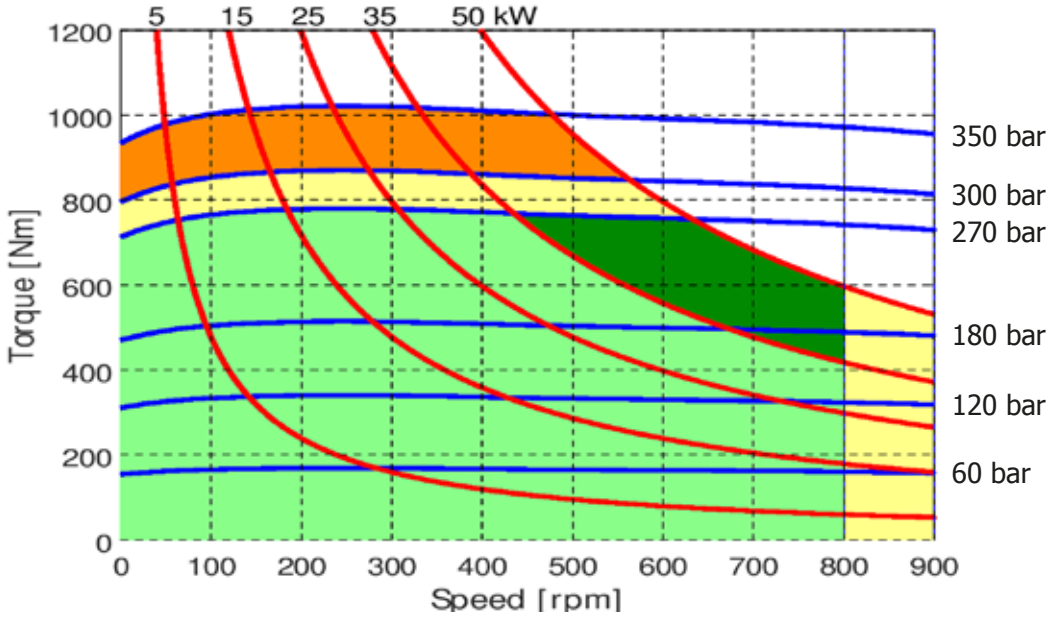
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R8M H2 - PERFORMANCE CURVES

R8M 160 H2



R8M 190 H2



Continuous operation

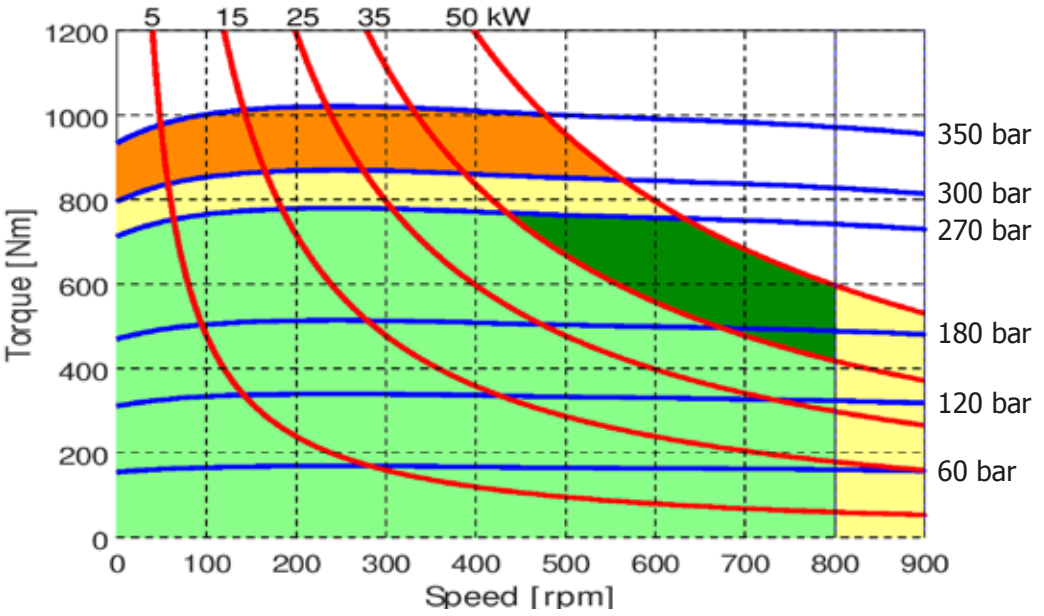
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

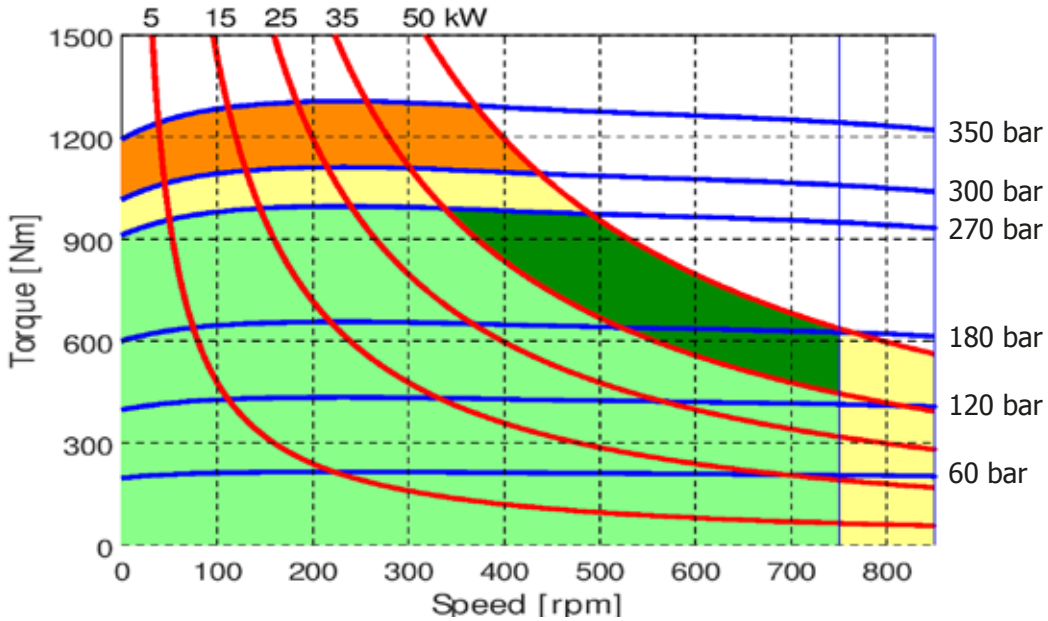
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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 200 H2



R8M 250 H2



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

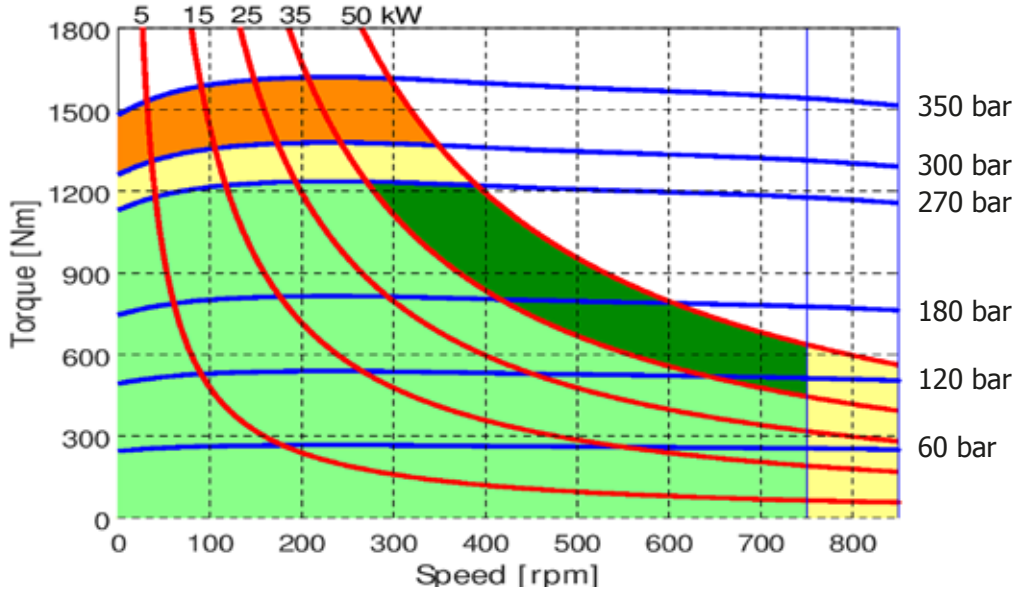
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

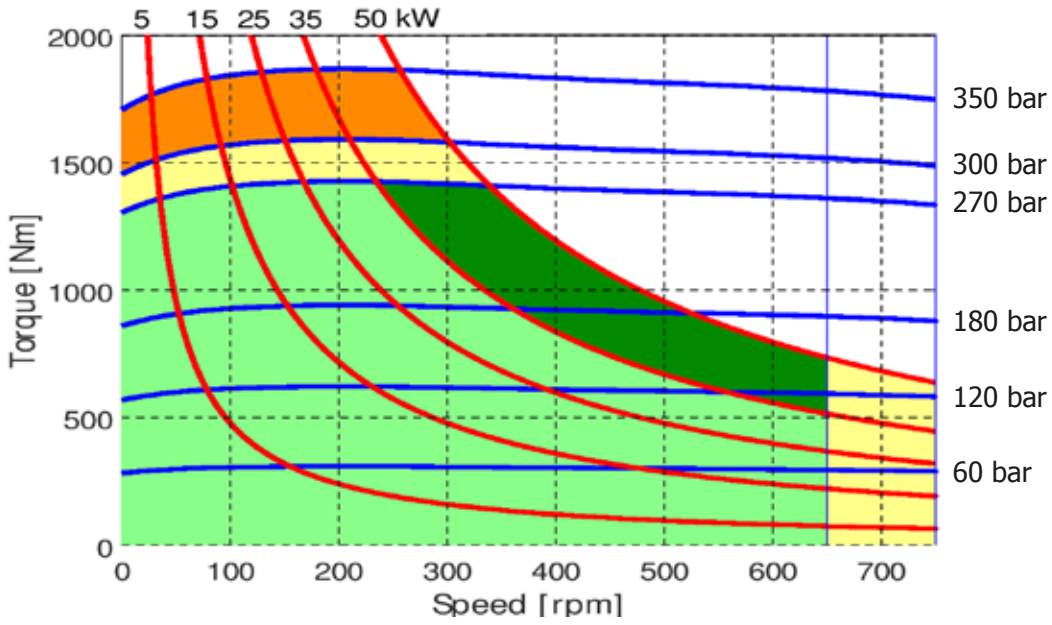
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R8M H2 - PERFORMANCE CURVES

R8M 300 H2



R8M 350 H2



Continuous operation

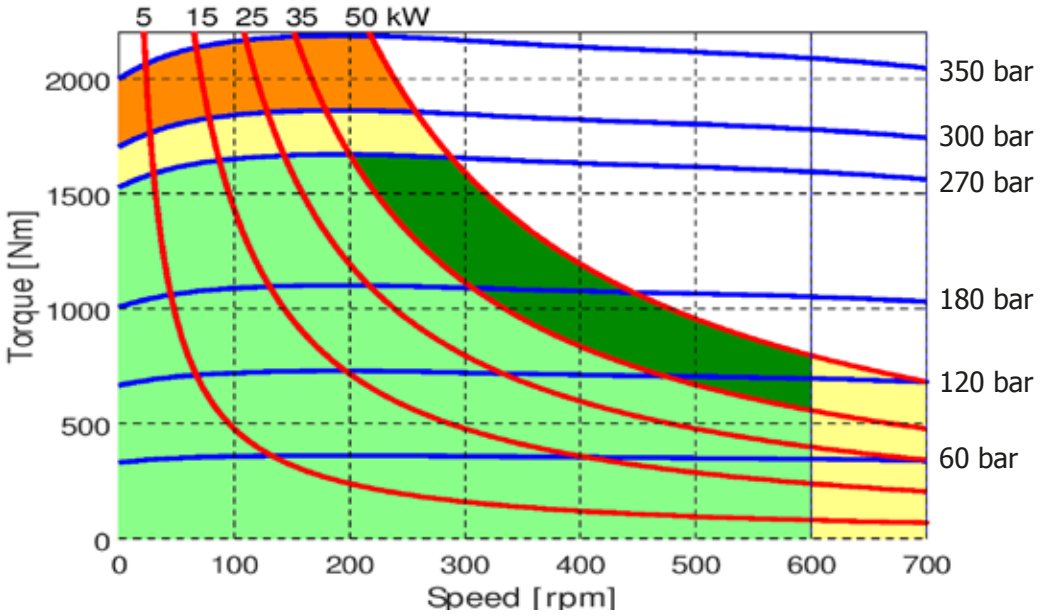
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

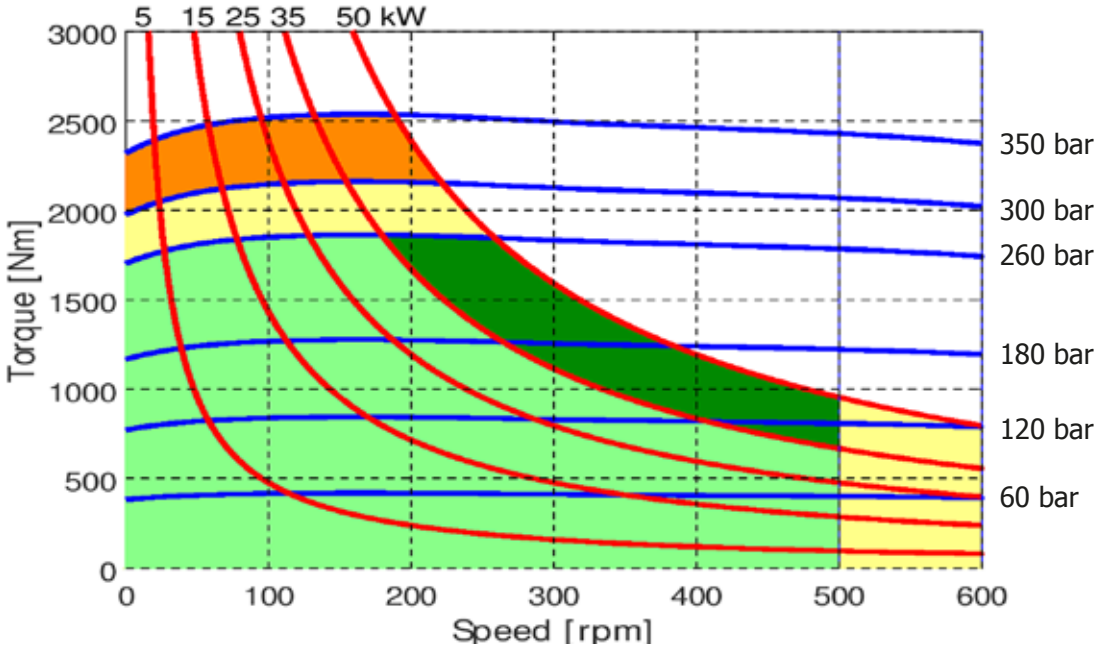
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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 400 H2



R8M 500 H2



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

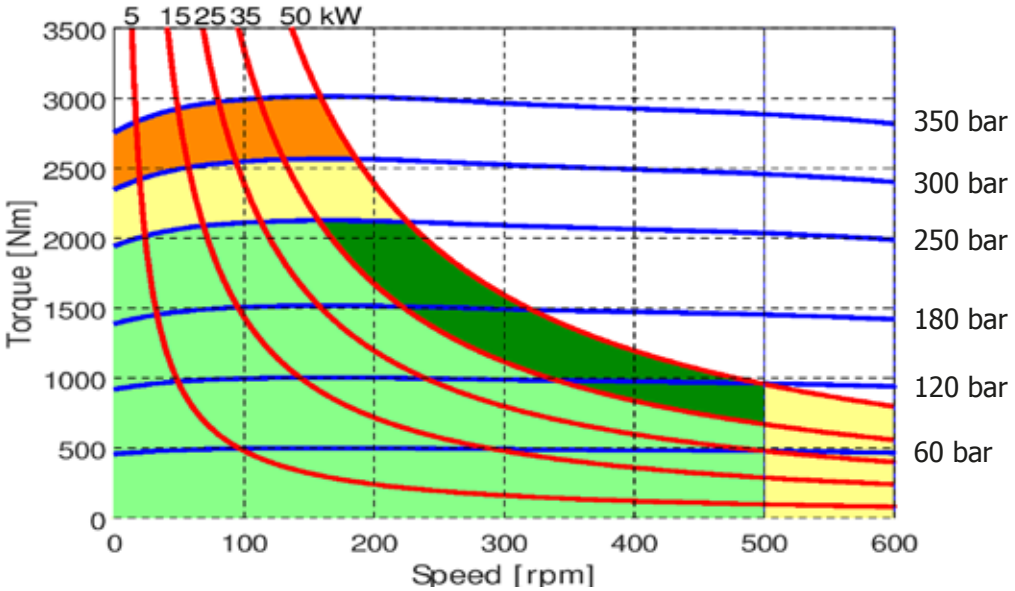
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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 H2 - PERFORMANCE CURVES

R8M 600 H2



Continuous operation

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

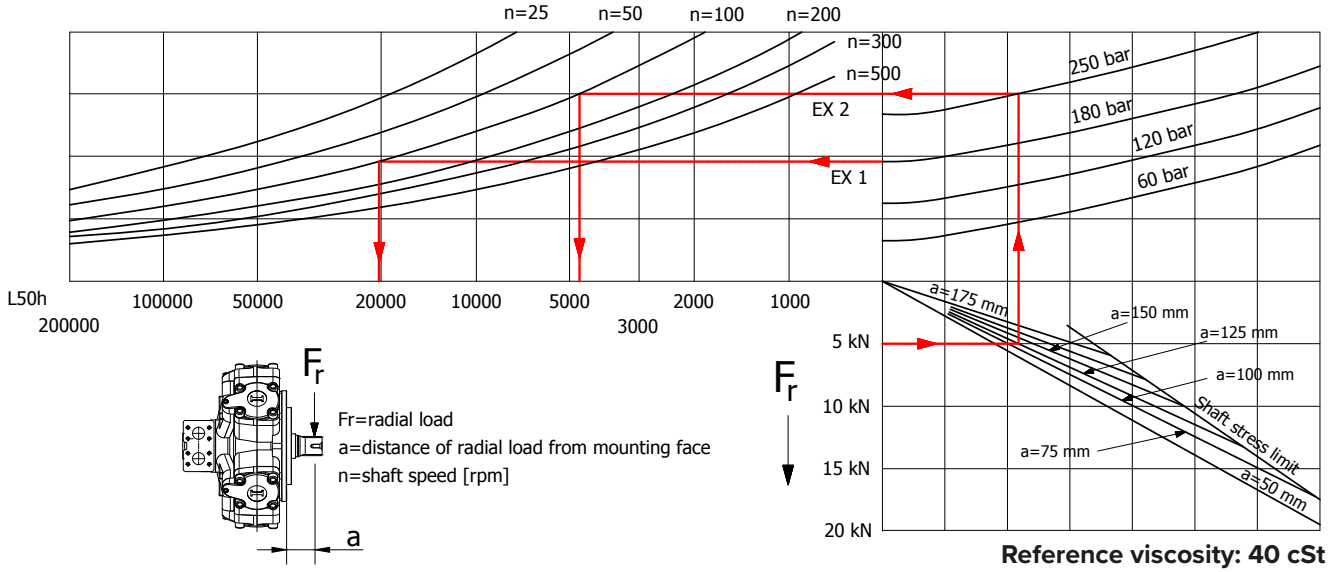
Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period

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 300 cc



Reference viscosity: 40 cSt

Example:

We suppose (EX1): p=120 [bar], n=50 [rpm]; we obtain an average lifetime of 200000 [h].

If we suppose (EX2): F_r=10 [kN], a=50 [mm], n=50 [rpm] and p=250 [bar] we obtain an average lifetime of 12500 [h].

The above data are referring to the R8M H2 series motors, displacement 300 cc.

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R8M H2 - ORDERING CODE

R8M - - - - H2 - - - - - - - - - - - - SB -

DISPLACEMENT
- 160
- 190
- 200
- 250
- 300
- 350
- 400
- 500
- 600

INTERCHANGEABILITY
- /C190
- /C300
- /B10
- /PH
- /GM2
- /S

SERIE
- H2

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

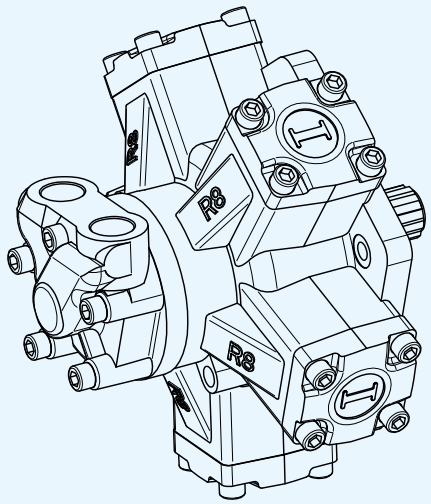
See pag. 23

- Z - -

Italgroup internal code

SPLINE BILLET
- SB2
- SB3
- SB15

See pag. 185-188



EXAMPLES:

R8M 190/C190 H2 A0 D40
R8M 300 H2 A2 D310B
R8M 400/C300 H2 A3 D47 CCW