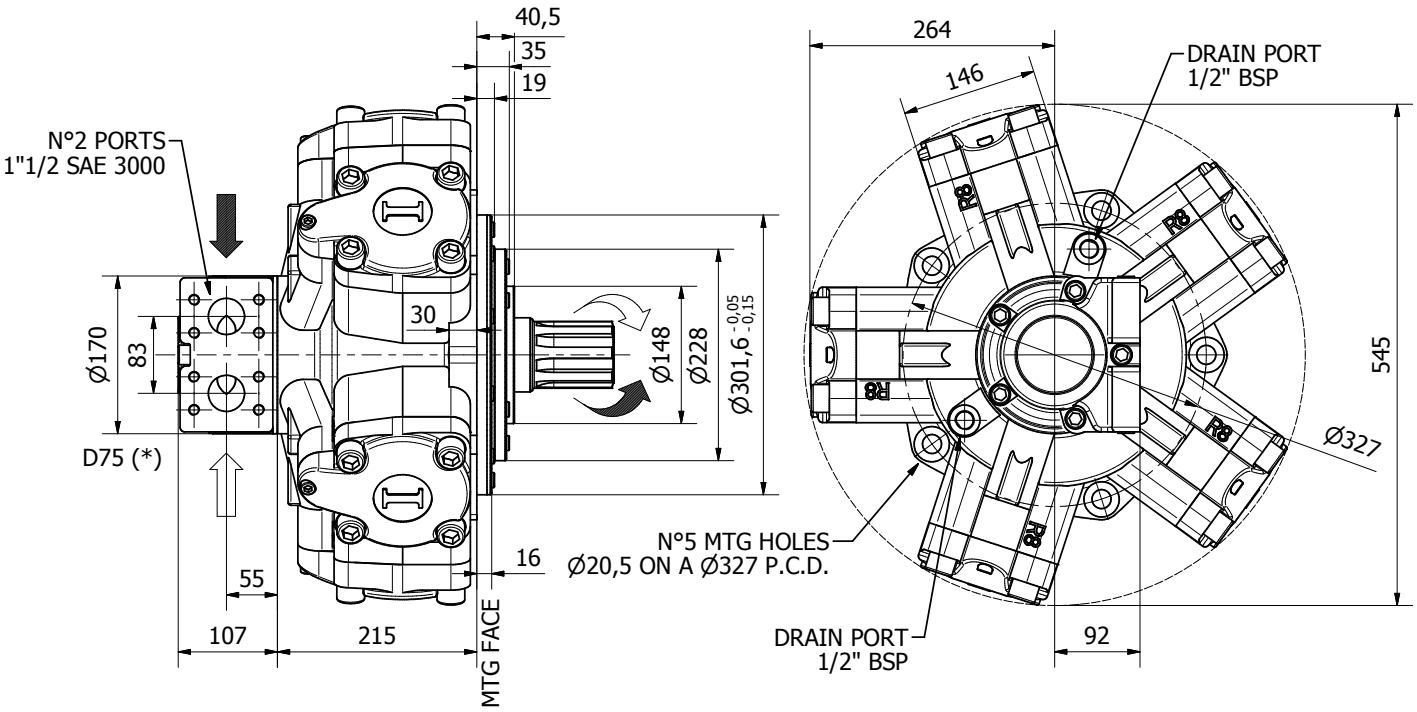
R8M H5

R8M H5	Pag. 122 - 124
R8M H5/C1100	Pag. 126 - 127
R8M 1600-1800-2000-2200/C H5	Pag. 128 - 129
R8M 1000/B60-1400/B80-1600/B100 H5	Pag. 130 - 131
R8M H5/GM5 - R8M H5/S	Pag. 132 - 133
R8M H5 - PERFORMANCE CURVES	Pag. 134 - 138
R8M H5 - ORDERING CODE	Pag. 139

The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.

R8M H5



Available distributor flanges: FL5 FL6

For S03 and S04, refer to page 190-191 (distributor fitting D75)

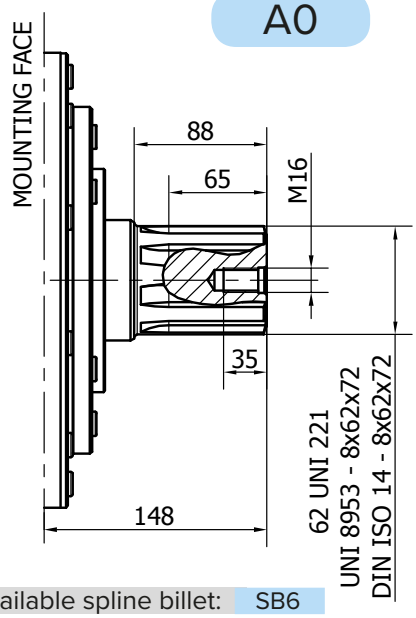
TECHNICAL DATA

		1000	1200	1400	1500	1600	1800	2000	2200
DISPLACEMENT	[cc]	1094	1231	1376	1528	1648	1815	2035	2220
SPECIFIC TORQUE	[Nm/bar]	17.4	19.6	21.9	24.3	26.2	28.9	32.4	35.3
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	260	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	350	300	300	300	300	250	230	220
PEAK SPEED (***)	[rpm]	400	350	350	350	340	300	260	240
MAX. CONT. POWER (****)	[kW]	92	92	92	92	92	92	92	92
MAX. POWER	[kW]	122	122	122	122	122	122	122	122
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	173	173	173	173	173	173	173	173
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

- (*) The standard distributor (D75) 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.

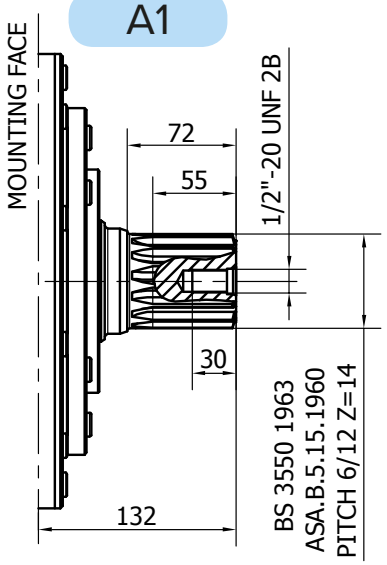
SHAFTS

A0



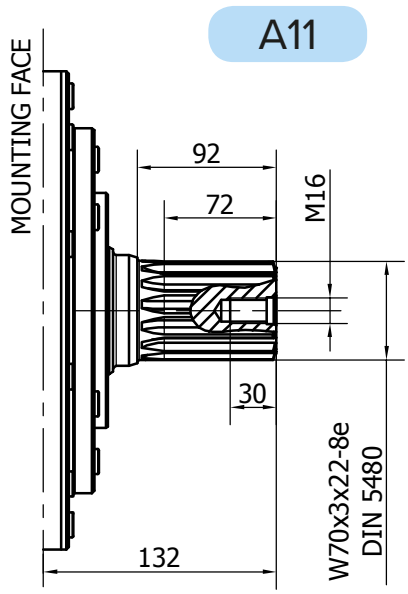
Available spline billet: SB6

A1

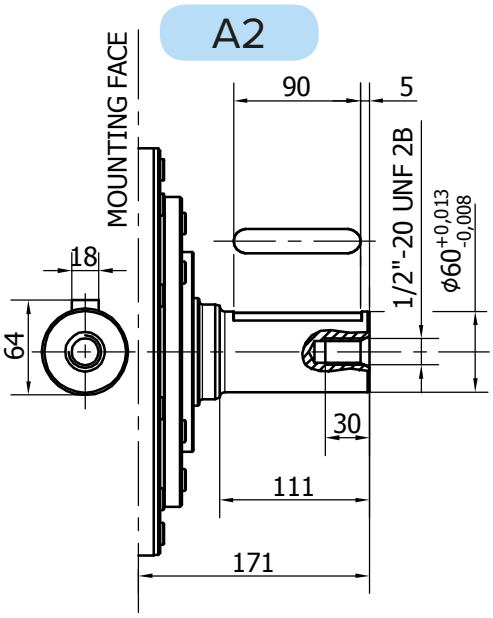


Available spline billet: SB7

A11



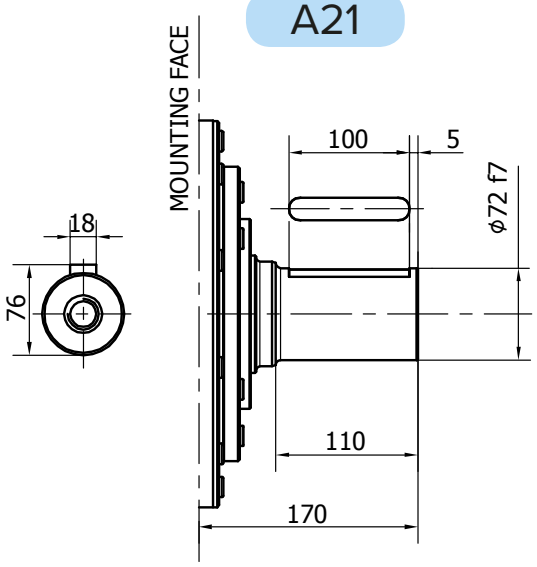
A2



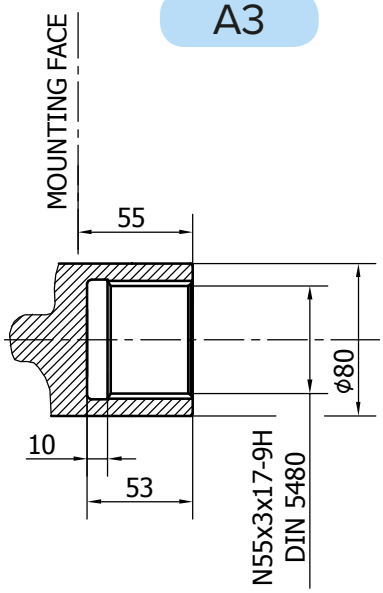
The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.

R8M H5

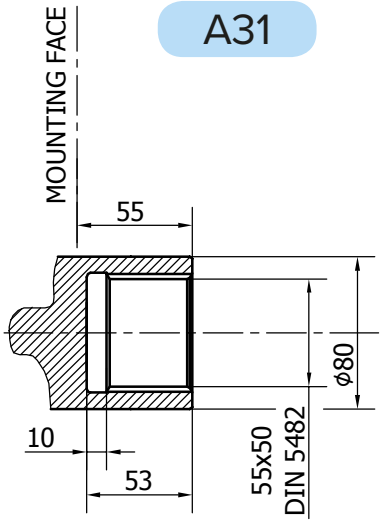
A21



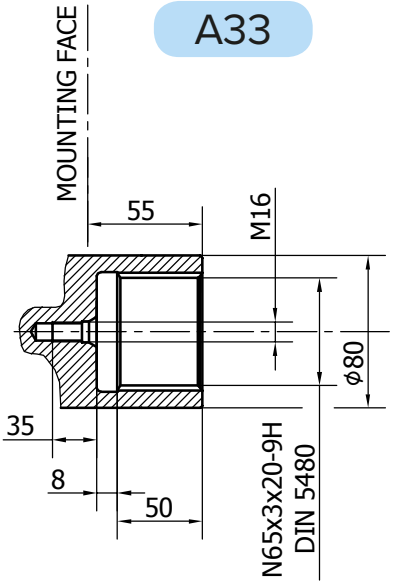
A3



A31



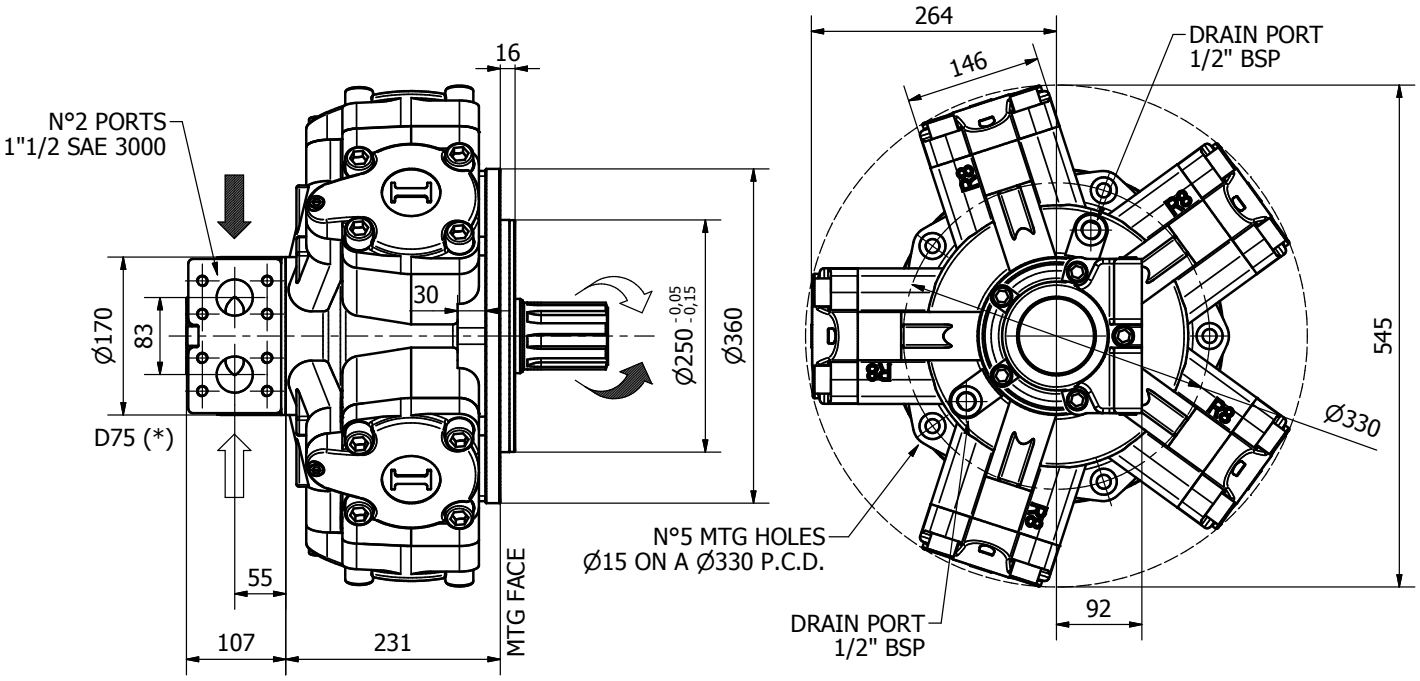
A33



SHAFTS

The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.

R8M H5/C1100



Available distributor flange: FL4

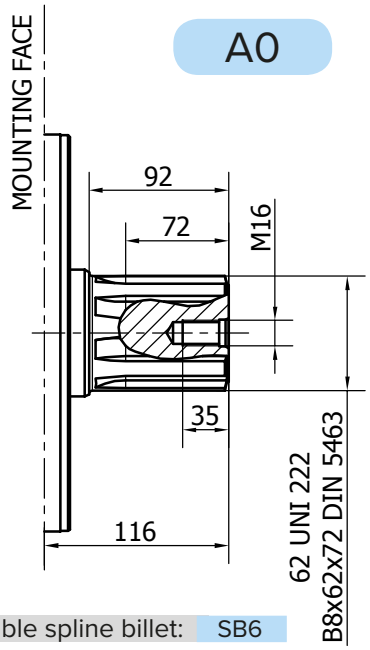
Refer to page 190-191
(distributor fitting D75)

TECHNICAL DATA

		1000	1200	1400	1500	1600	1800	2000	2200
DISPLACEMENT	[cc]	1094	1231	1376	1528	1648	1815	2035	2220
SPECIFIC TORQUE	[Nm/bar]	17.4	19.6	21.9	24.3	26.2	28.9	32.4	35.3
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	260	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	350	300	300	300	300	250	230	220
PEAK SPEED (***)	[rpm]	400	350	350	350	340	300	260	240
MAX. CONT. POWER (****)	[kW]	92	92	92	92	92	92	92	92
MAX. POWER	[kW]	122	122	122	122	122	122	122	122
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	173	173	173	173	173	173	173	173
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

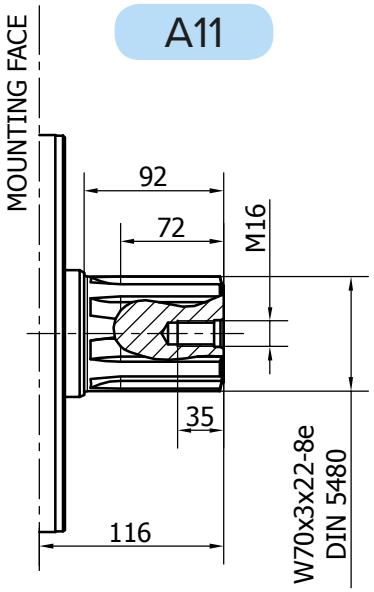
- (*) The standard distributor (D75) is shown. Please refer to distributors section (pag. 178-179) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required (see pag. 13). For more information please contact our technical department.

A0

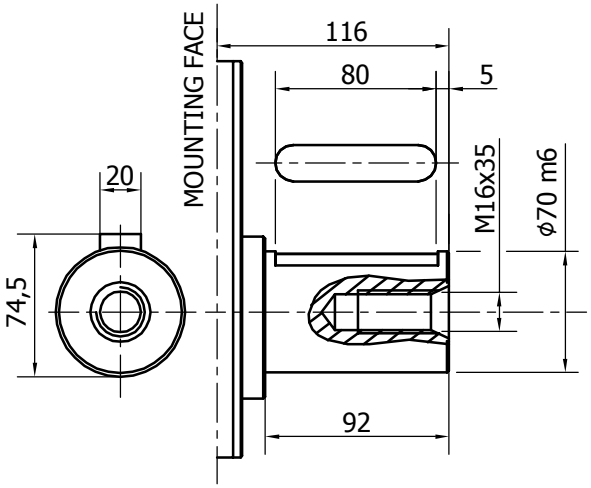


Available spline billet: SB6

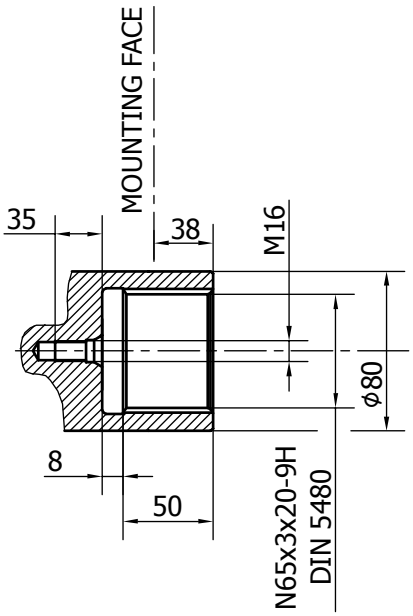
A11



A2

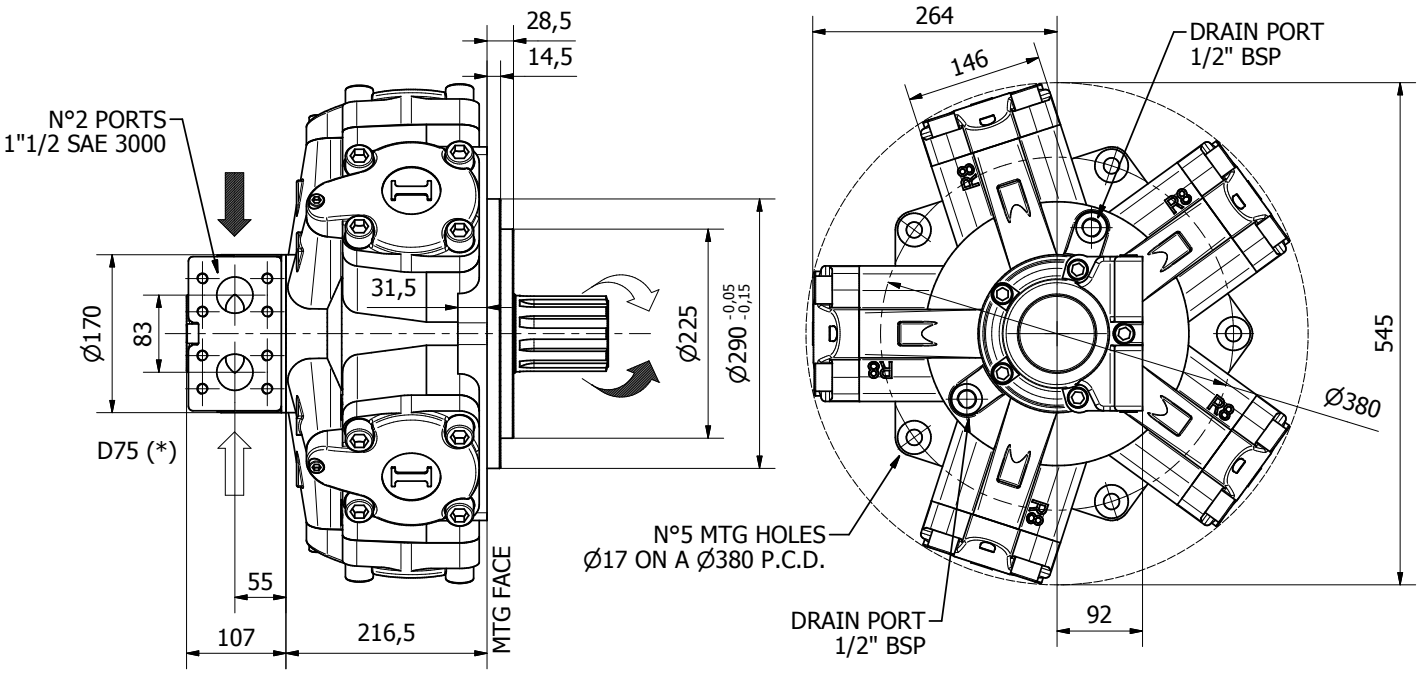


A3



The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.

R8M 1600-1800-2000-2200/C H5



Available distributor flange: FL4

Refer to page 190-191
(distributor fitting D75)

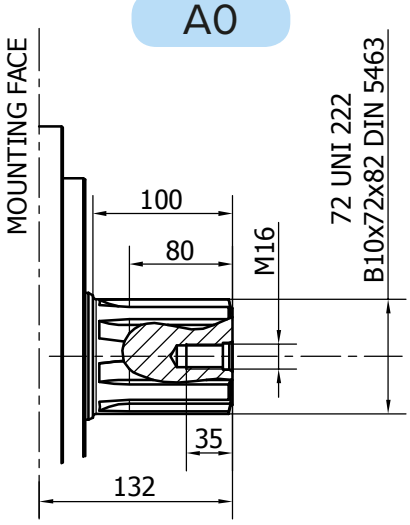
TECHNICAL DATA

		1600	1800	2000	2200
DISPLACEMENT	[cc]	1648	1815	2035	2220
SPECIFIC TORQUE	[Nm/bar]	26.2	28.9	32.4	35.3
MAX. CONT. PRESSURE	[bar]	270	260	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420
MAX. CONT. SPEED	[rpm]	300	250	230	220
PEAK SPEED (***)	[rpm]	340	300	260	240
MAX. CONT. POWER (****)	[kW]	92	92	92	92
MAX. POWER	[kW]	122	122	122	122
MAX. CASE PRESSURE	[bar]	6	6	6	6
DRY WEIGHT	[kg]	173	173	173	173
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70

- (*) The standard distributor (D75) 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.

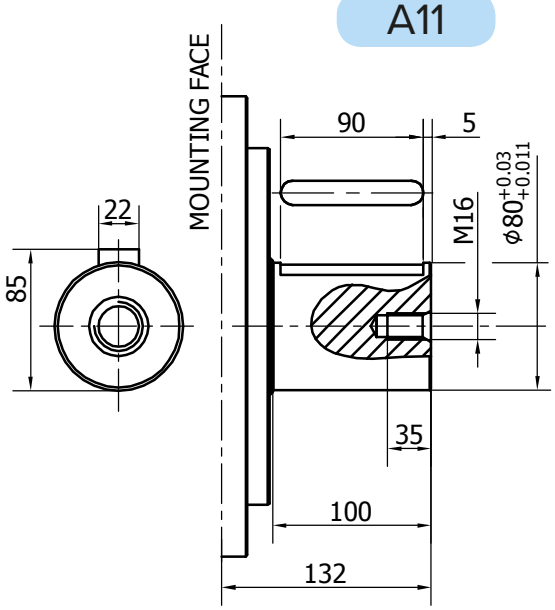
SHAFTS

A0

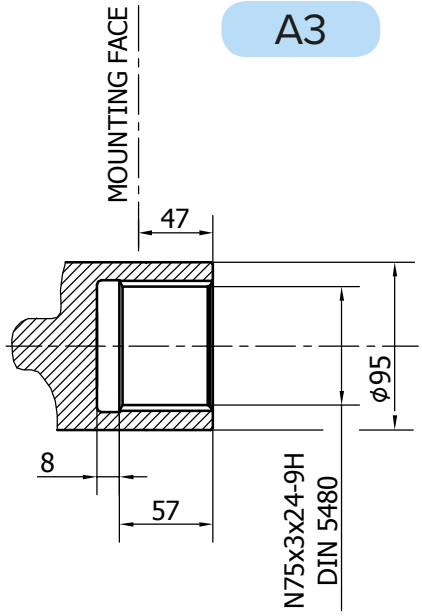


Available spline billet: SB8

A11

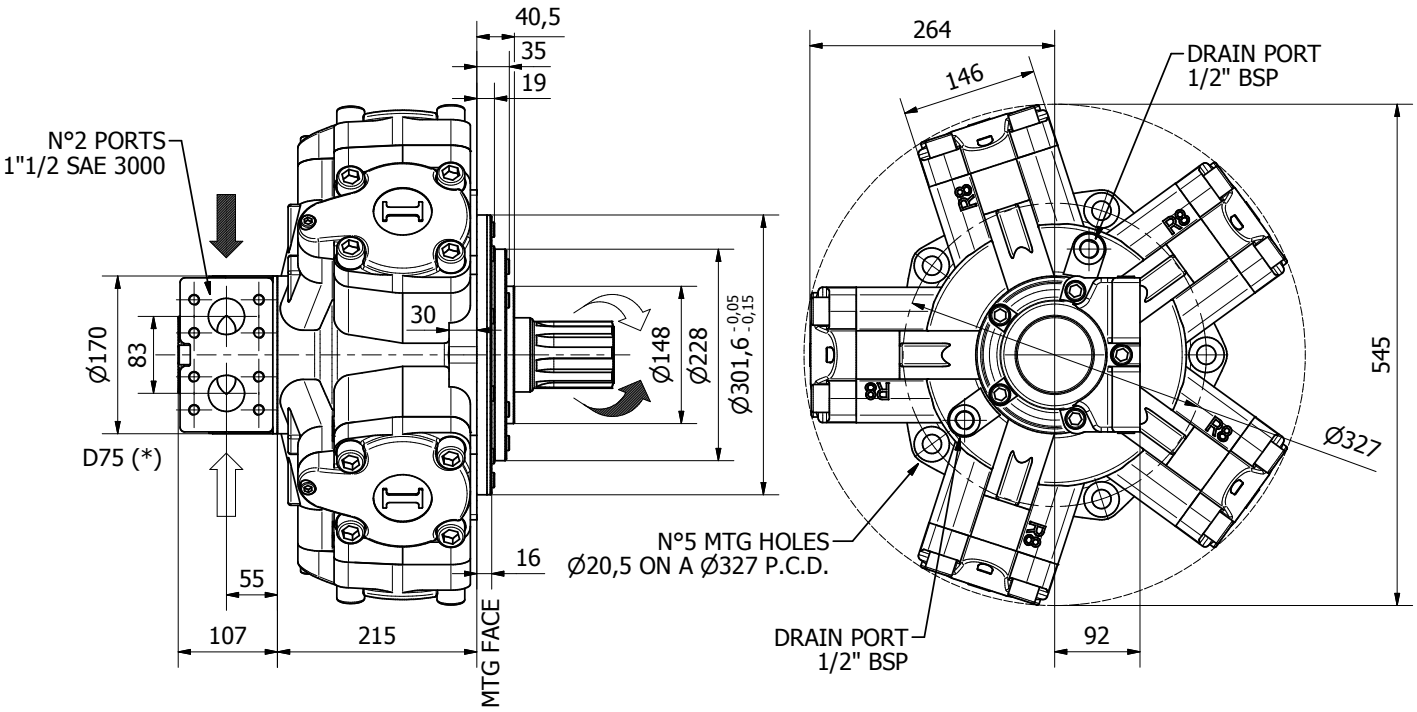


A3



The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.

R8M 1000/B60-1400/B80-1600/B100



Available distributor flanges: FL5 FL6

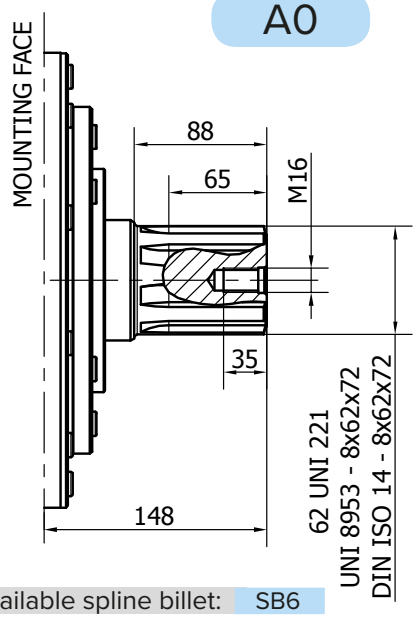
For S03 and S04, refer to page 190-191 (distributor fitting D75)

TECHNICAL DATA

		1000	1400	1600
DISPLACEMENT	[cc]	1094	1376	1648
SPECIFIC TORQUE	[Nm/bar]	17.4	21.9	26.2
MAX. CONT. PRESSURE	[bar]	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420
MAX. CONT. SPEED	[rpm]	350	300	300
PEAK SPEED (***)	[rpm]	400	350	340
MAX. CONT. POWER (****)	[kW]	92	92	92
MAX. POWER	[kW]	122	122	122
MAX. CASE PRESSURE	[bar]	6	6	6
DRY WEIGHT	[kg]	173	173	173
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70

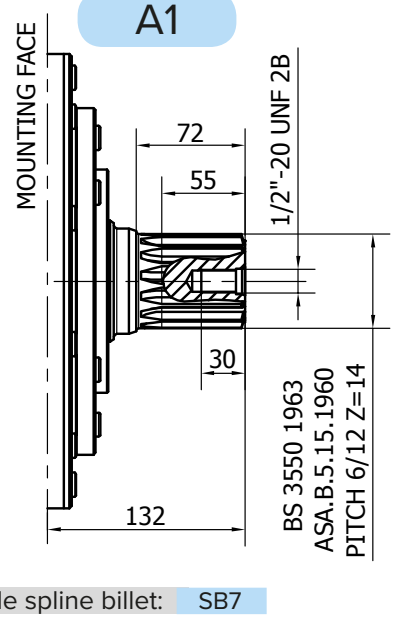
- (*) The standard distributor (D75) is shown. Please refer to distributors section (pag. 178-179) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required (see pag. 13). For more information please contact our technical department.

A0



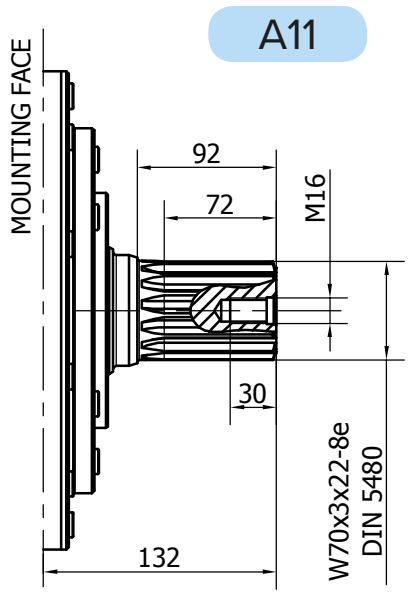
Available spline billet: SB6

A1

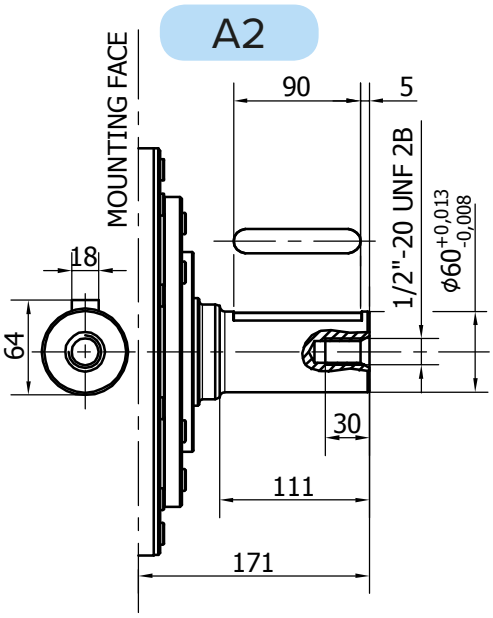


Available spline billet: SB7

A11

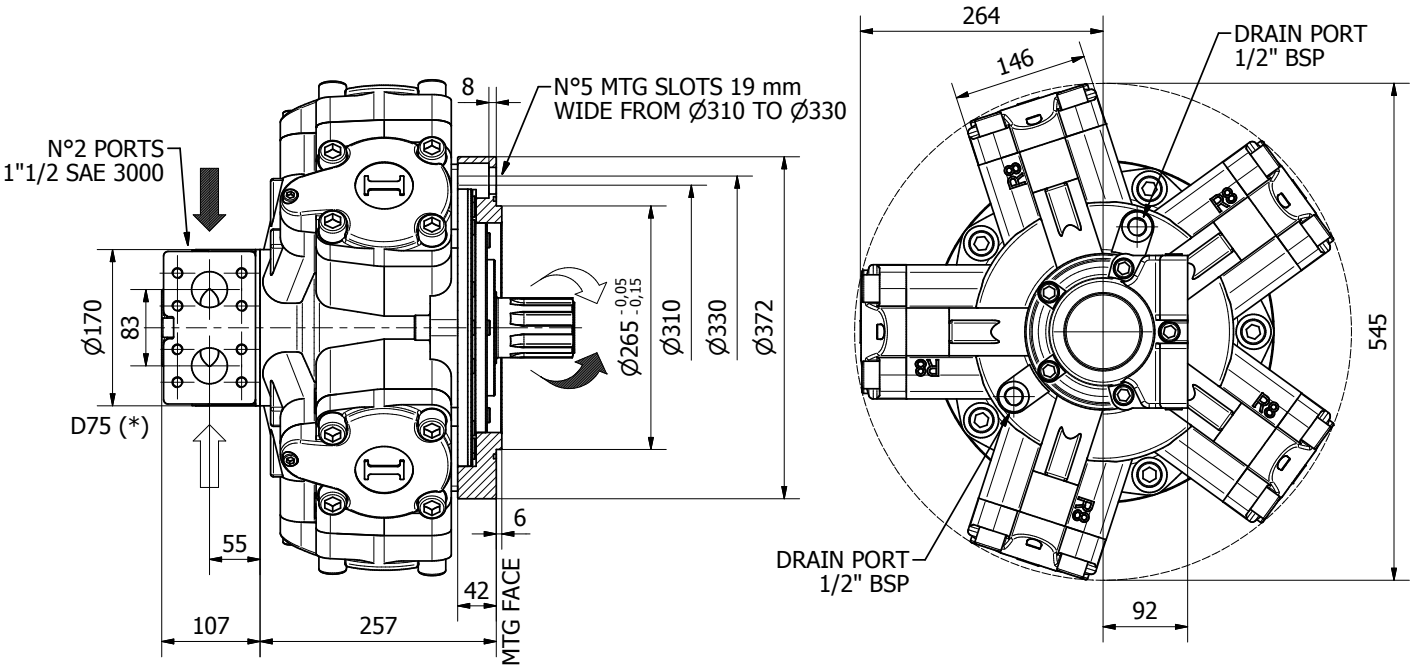


A2



The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.

R8M H5/GM5 - R8M H5/S

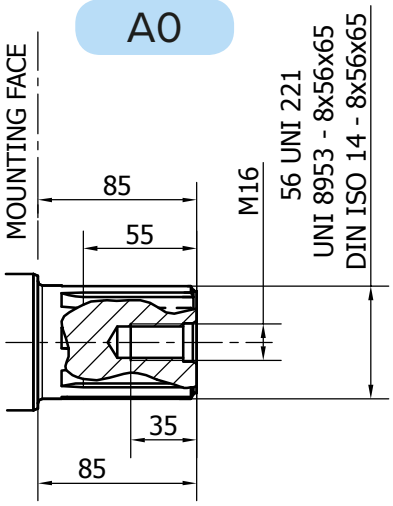


TECHNICAL DATA

		1000	1200	1400	1500	1600	1800	2000	2200
DISPLACEMENT	[cc]	1094	1231	1376	1528	1648	1815	2035	2220
SPECIFIC TORQUE	[Nm/bar]	17.4	19.6	21.9	24.3	26.2	28.9	32.4	35.3
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	260	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	350	300	300	300	300	250	230	220
PEAK SPEED (***)	[rpm]	400	350	350	350	340	300	260	240
MAX. CONT. POWER (****)	[kW]	92	92	92	92	92	92	92	92
MAX. POWER	[kW]	122	122	122	122	122	122	122	122
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	173	173	173	173	173	173	173	173
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

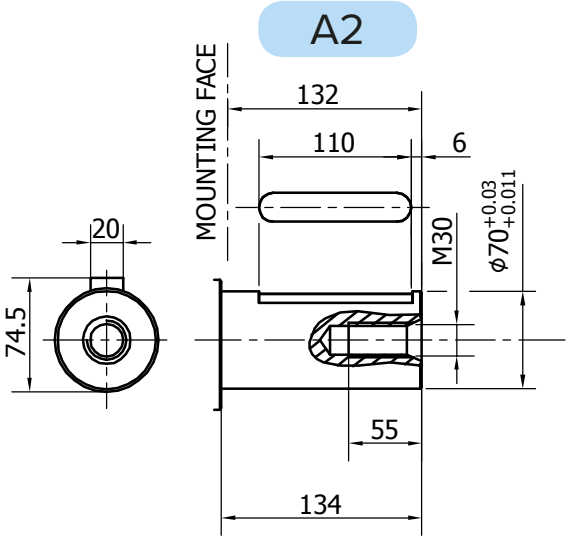
- (*) The standard distributor (D75) is shown. Please refer to distributors section (pag. 178-179) for differents distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power.
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required (see pag. 13). For more information please contact our technical department.

A0

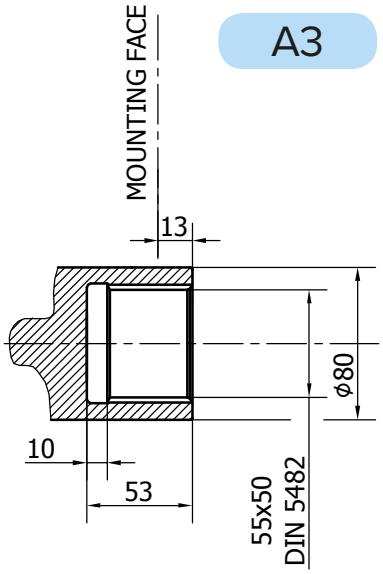


Available spline billet: SB17

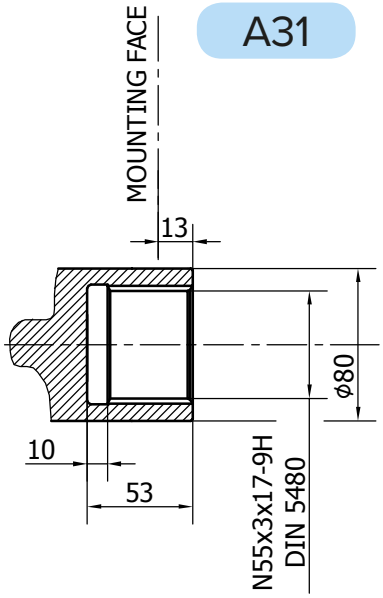
A2



A3



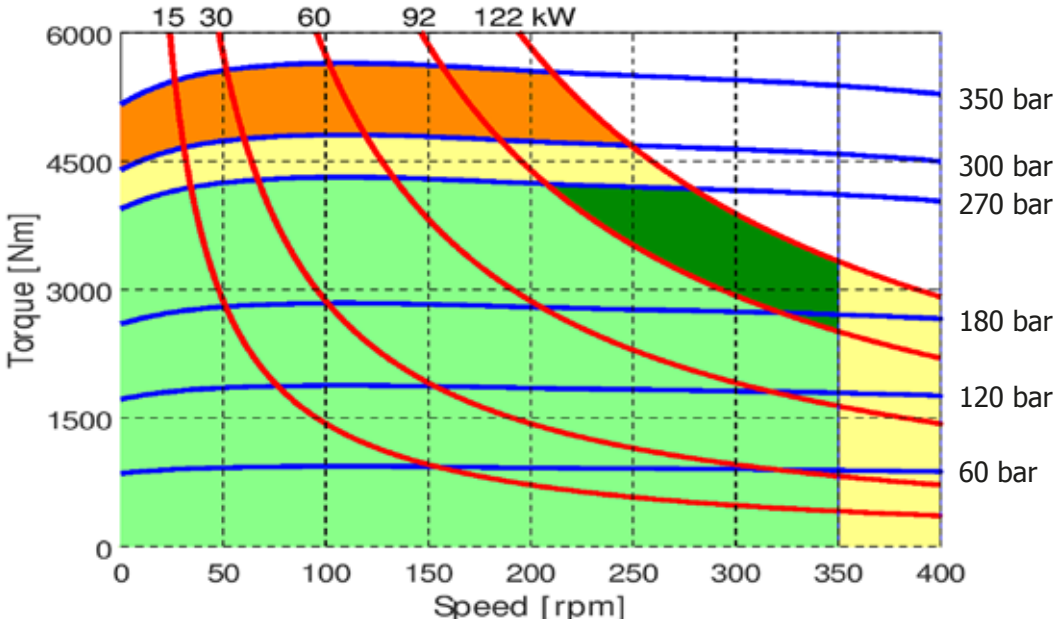
A31



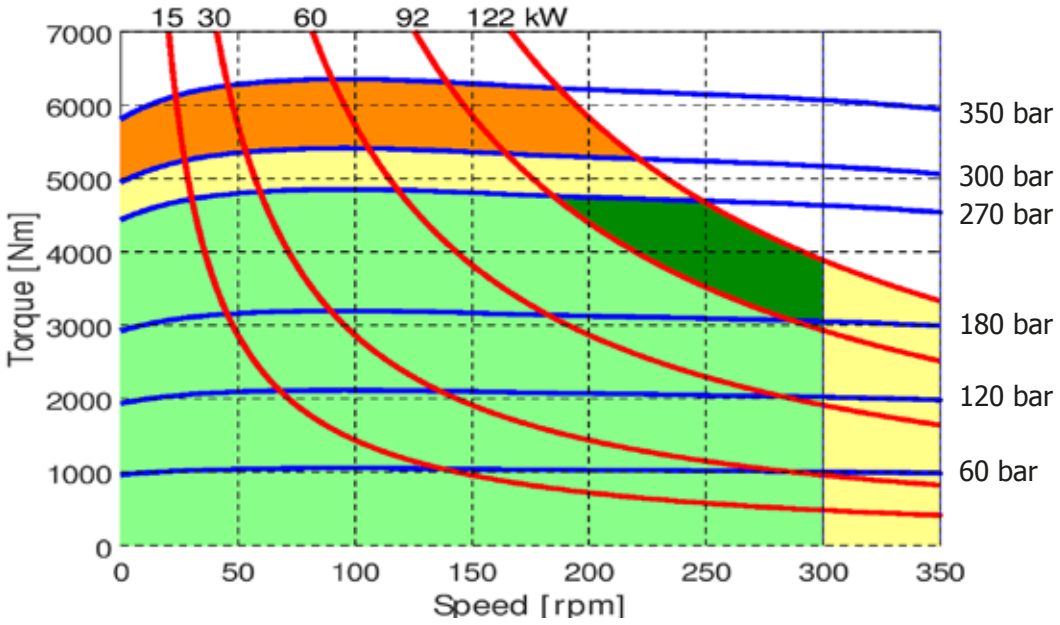
The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.

R8M H5 - PERFORMANCE CURVES

R8M 1000 H5



R8M 1200 H5



Continuous operation

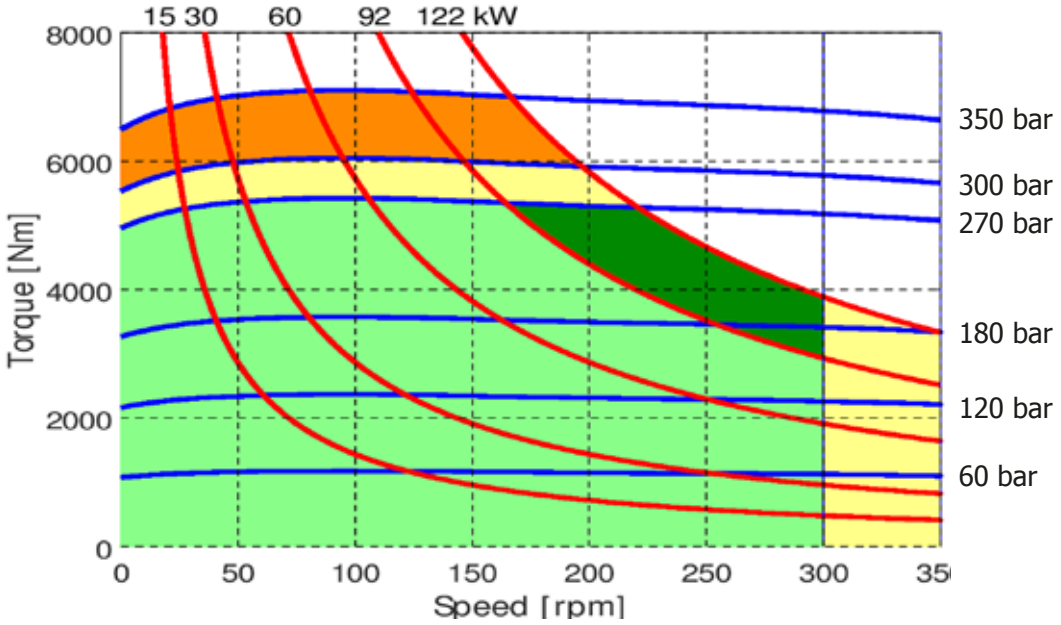
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

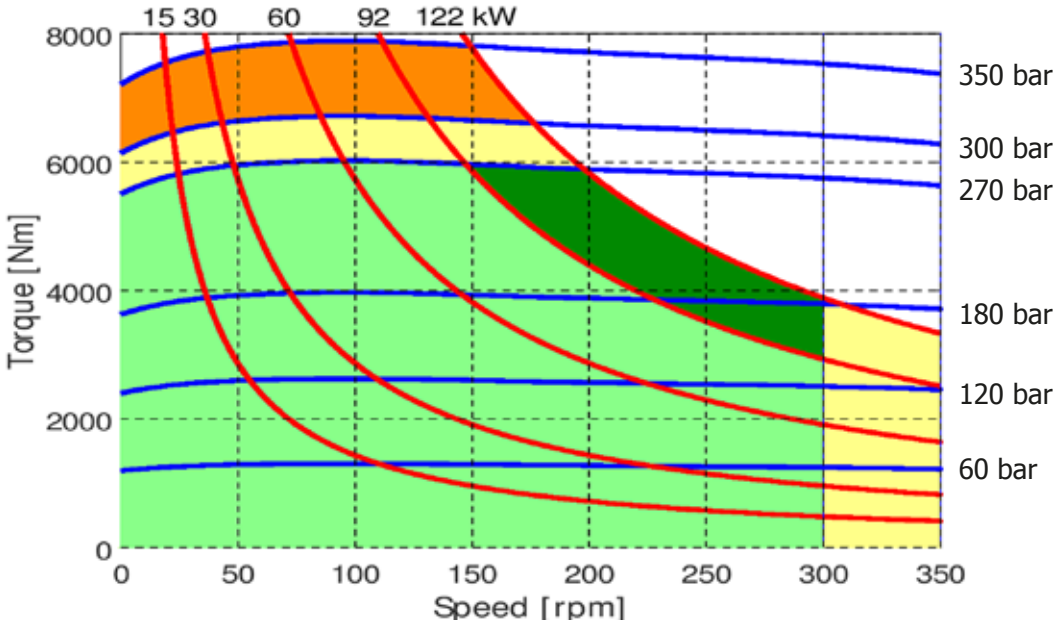
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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 1400 H5



R8M 1500 H5



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

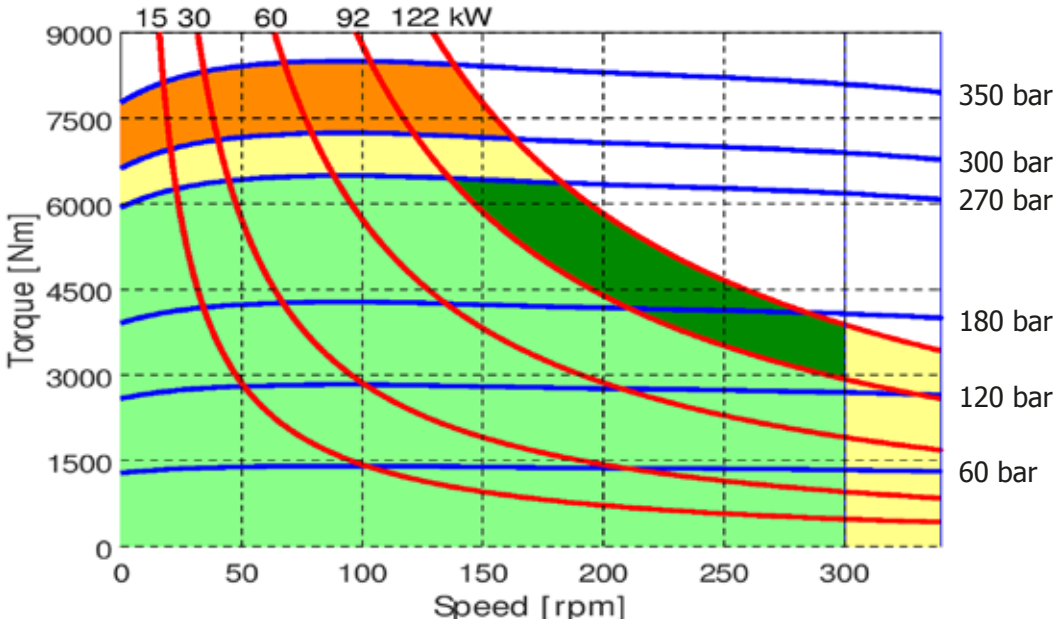
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

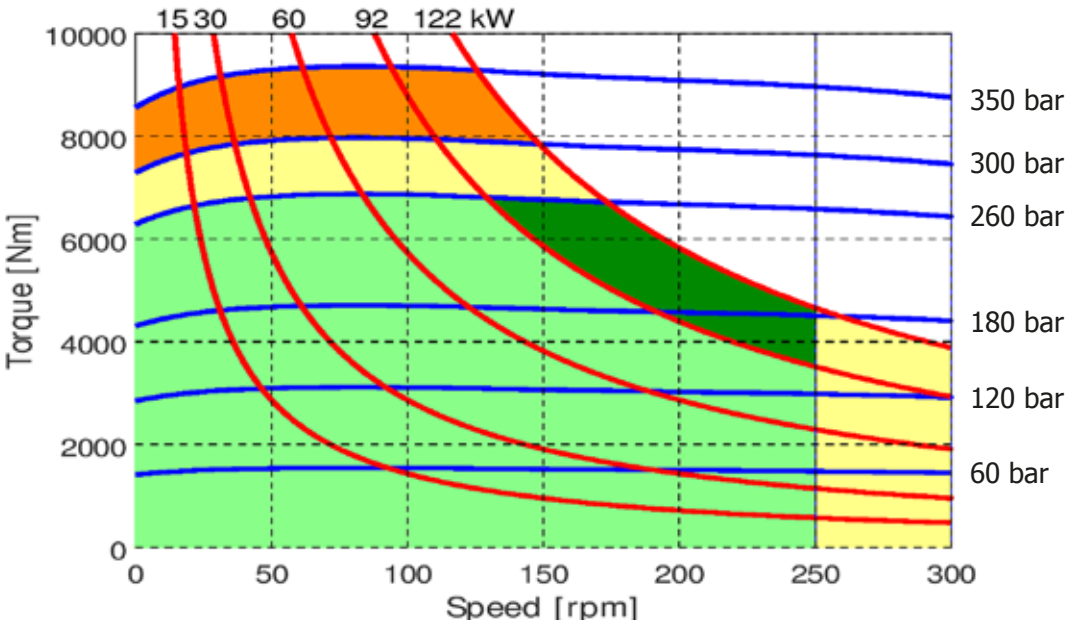
The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.

R8M H5 - PERFORMANCE CURVES

R8M 1600 H5



R8M 1800 H5



Continuous operation

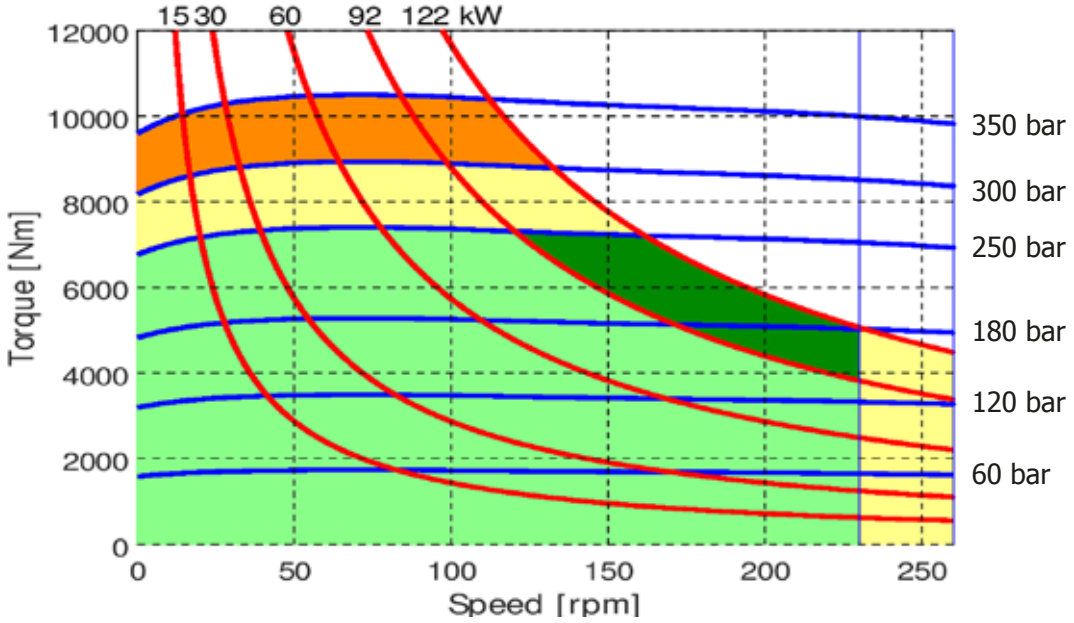
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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

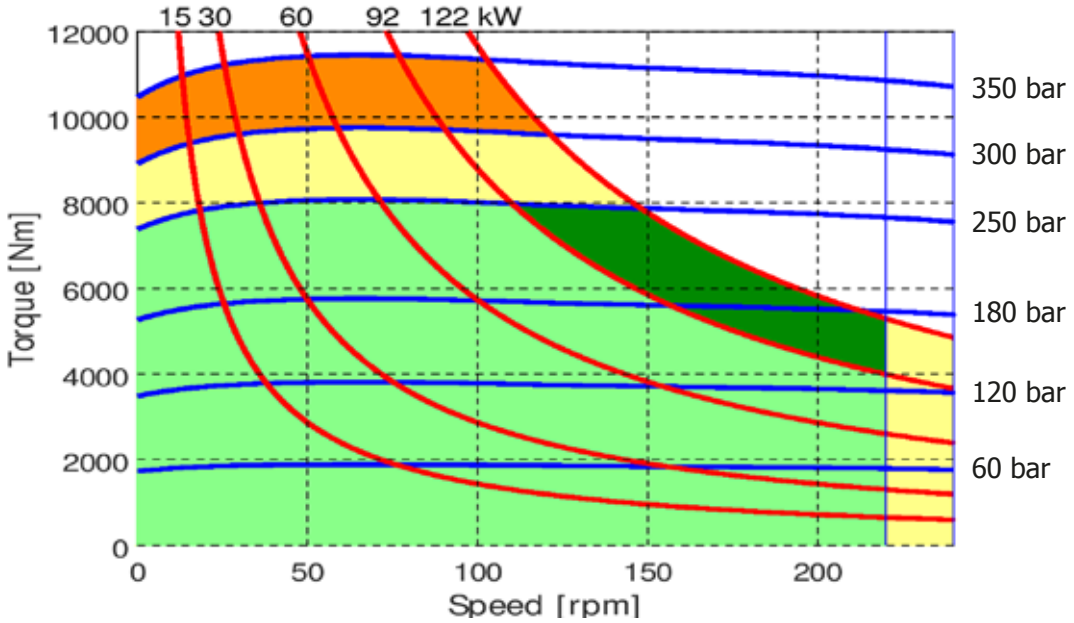
Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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 2000 H5



R8M 2200 H5



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)

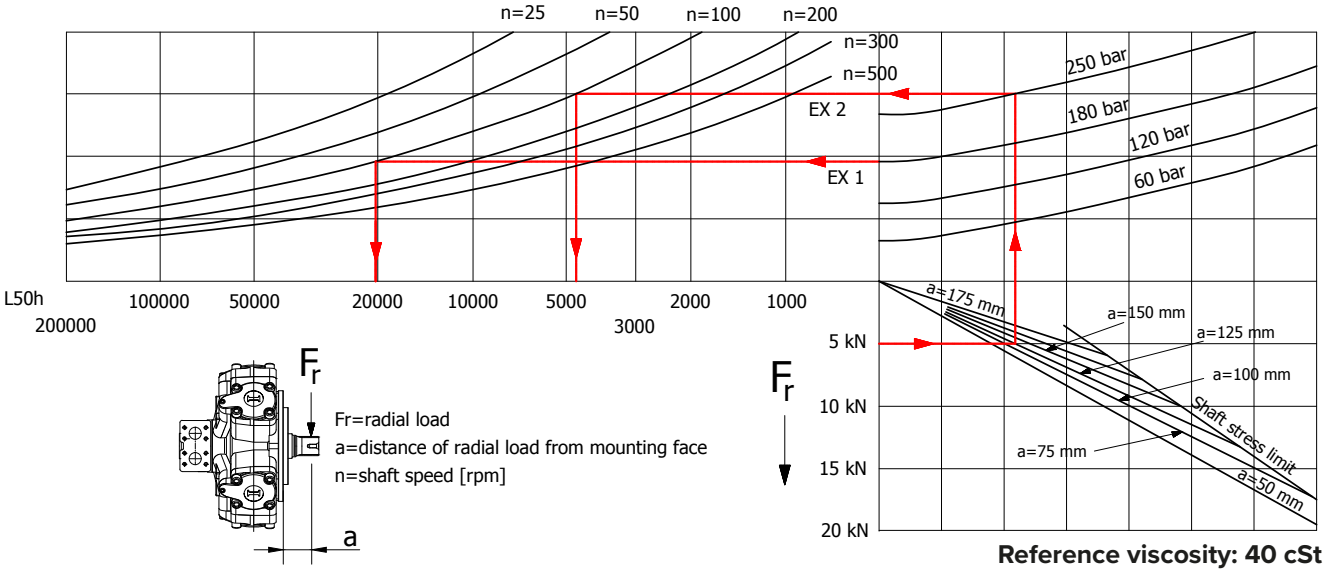
The above diagrams are referring to the hydraulic motor working with a fluid in ideal conditions (viscosity at 40 cSt). In case the working temperature increases and viscosity reach values under the recommended values (see hydraulic fluid recommendations) flushing must be performed or ISO oil grade must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

The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.

R8M H5 - PERFORMANCE CURVES

BEARING LIFE

Reference displacement 1600 cc



Reference viscosity: 40 cSt

Example:
We suppose (EX1): p=120 [bar], n=300 [rpm]; we obtain an average lifetime of 33000 [h].
If we suppose (EX2): F_r=15 [kN], a=150 [mm], n=200 [rpm] and p=180 [bar] we obtain an average lifetime of 11000 [h].

The above data are referring to the R8M H5 series motors, displacement 1600 cc.

R8M H5 - ORDERING CODE

R8M | - - | - - | H5 | - - | - - | - - | - - | SB -

DISPLACEMENT
- 1000
- 1200
- 1400
- 1500
- 1600
- 1800
- 2000
- 2200

INTERCHANGEABILITY
- /C1100
- /C
- /B60
- /B80
- /B100
- /GM5

SERIE
- H5

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

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

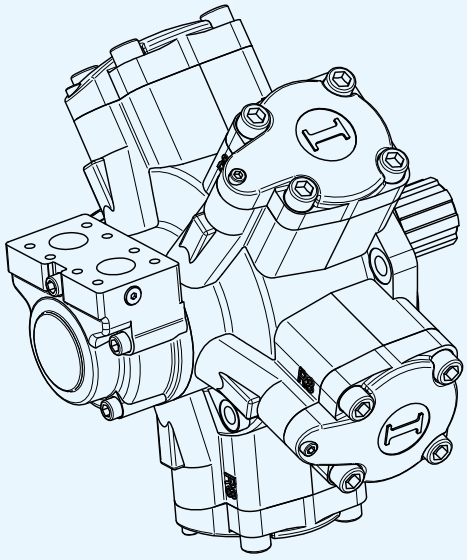
SPECIAL FEATURES
- MP
- SPSL
- HPS
- CCW

See pag. 23

- Z - - Italgroup internal code

SPLINE BILLET
- SB6
- SB7
- SB8
- SB17

See pag. 185-188



EXAMPLES:

R8M 1000 H5 A1 D75 SB7
R8M 1400/C H5 A2 D75
R8M 2000 H5 A0 D90 CCW SB6

The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization of Italgroup S.r.l. is strictly forbidden.