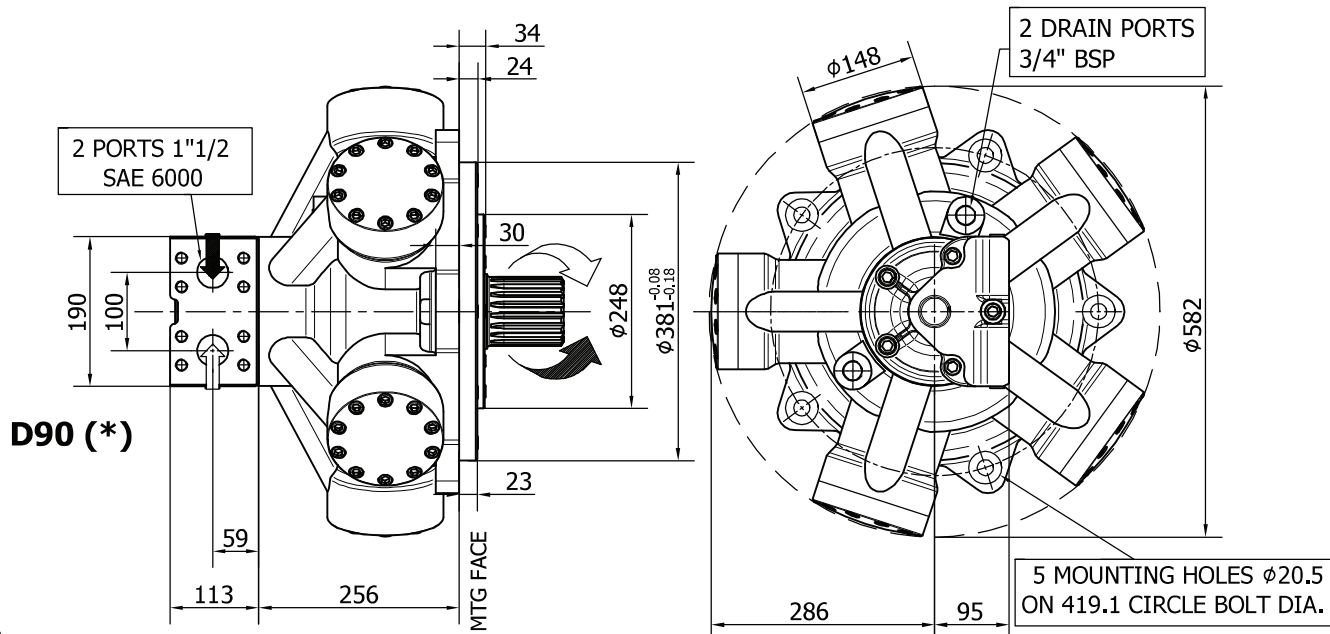

ITALGROUP SRL
IAMD SERIES - IAMD H55
GENERAL CATALOGUE
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INSTALLATION DRAWING

Available distributor flange: **FL7**
for S04, refer to page 157 (distributor fitting D90)



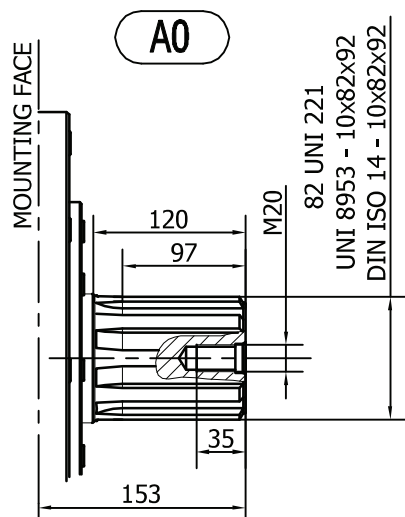
TECHNICAL DATA

		1800	2100	2300	2400
DISPLACEMENT	[cc]	1800	2066	2293	2393
SPECIFIC TORQUE	[Nm/bar]	28.7	32.9	36,5	38.9
MAX. CONT. PRESSURE	[bar]	250	250	250	240
HYDROSTATIC TEST PRES-SURE	[bar]	420	420	420	420
MAX. CONT. SPEED	[rpm]	250	220	210	190
PEAK SPEED (***)	[rpm]	285	250	235	220
MAX. CONT. POWER (****)	[kW]	173	175	185	170
MAX. CONT. POWER WITH FLUSHING	[kW]	215	215	215	200
MAX. CASE PRESSURE	[bar]	6	6	6	6
DRY WEIGHT	[kg]	203	203	203	203
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70

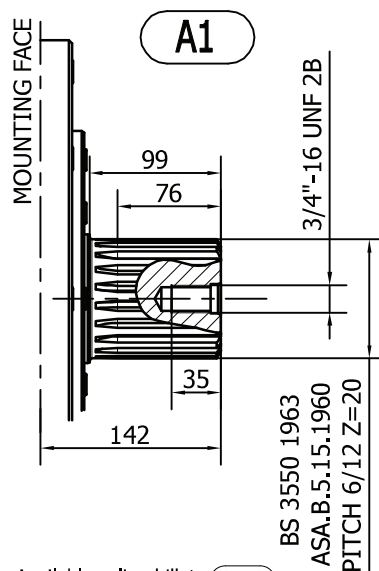
- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 148-149) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum continuous power with flushing (see pag. 13).
- (****) For motor 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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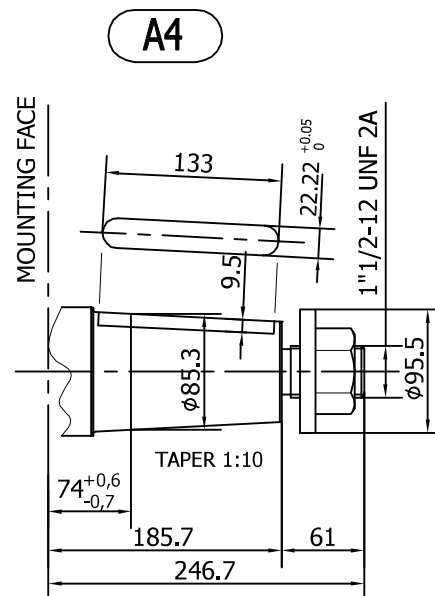
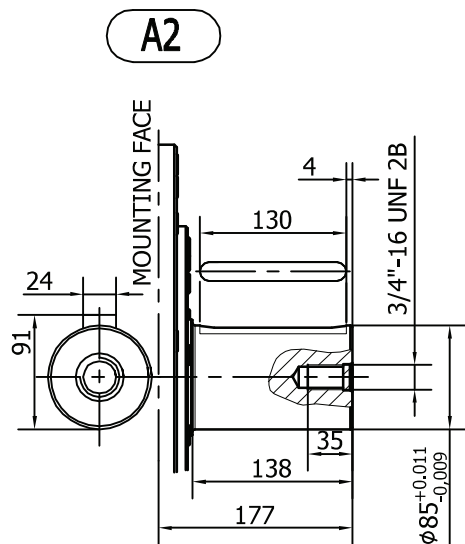
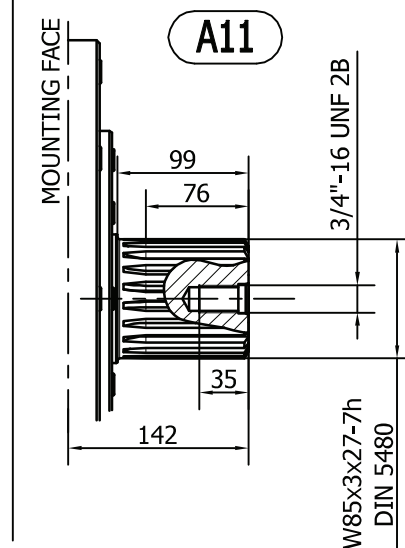
SHAFT CONFIGURATIONS



Available spline billet: (SB9)

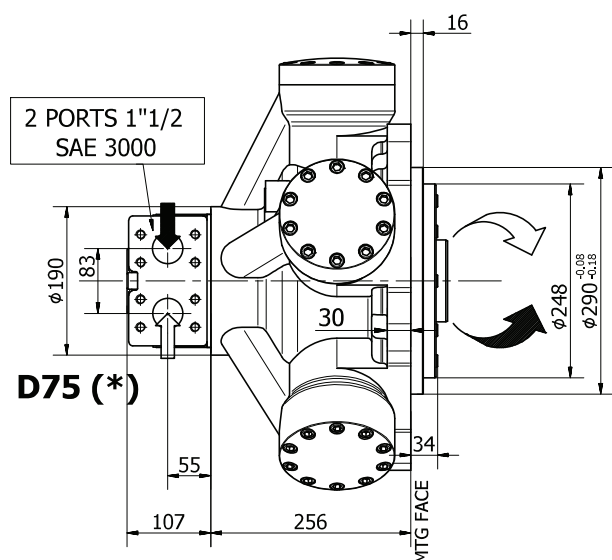


Available spline billet: (SB10)

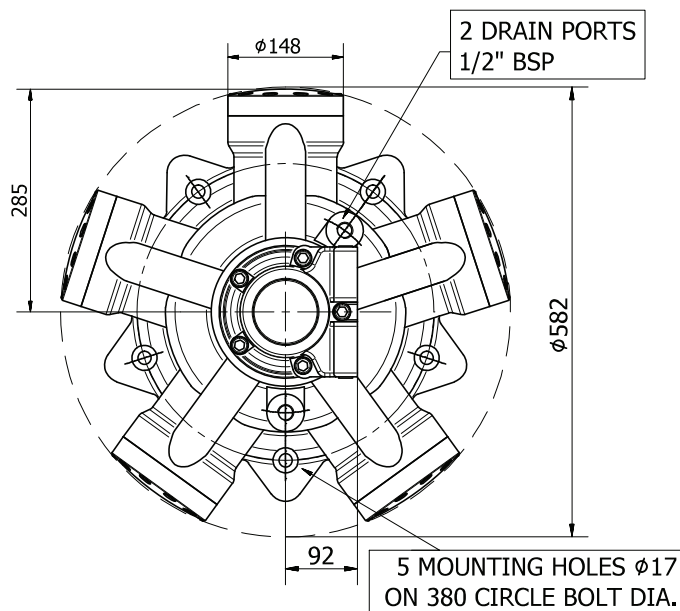


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INSTALLATION DRAWING



Available distributor flange: **FL4**
refer to page 156 (distributor fitting D75)



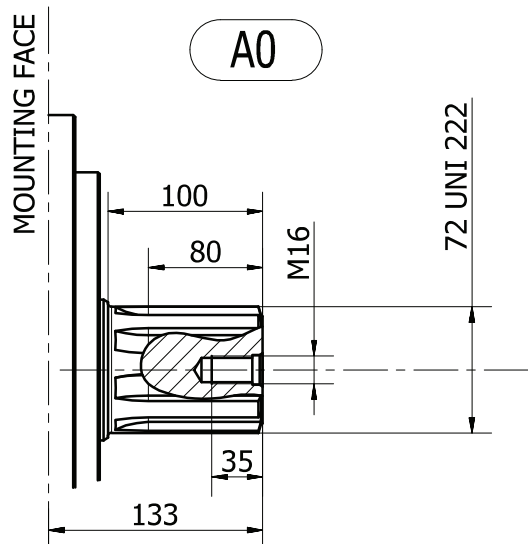
TECHNICAL DATA

		1800	2100	2300	2400
DISPLACEMENT	[cc]	1800	2066	2293	2393
SPECIFIC TORQUE	[Nm/bar]	28.7	32.9	36,5	38.9
MAX. CONT. PRESSURE	[bar]	250	250	250	240
HYDROSTATIC TEST PRES-SURE	[bar]	420	420	420	420
MAX. CONT. SPEED	[rpm]	250	220	210	190
PEAK SPEED (***)	[rpm]	285	250	235	220
MAX. CONT. POWER (****)	[kW]	173	175	185	170
MAX. CONT. POWER WITH FLUSHING	[kW]	215	215	215	200
MAX. CASE PRESSURE	[bar]	6	6	6	6
DRY WEIGHT	[kg]	203	203	203	203
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70

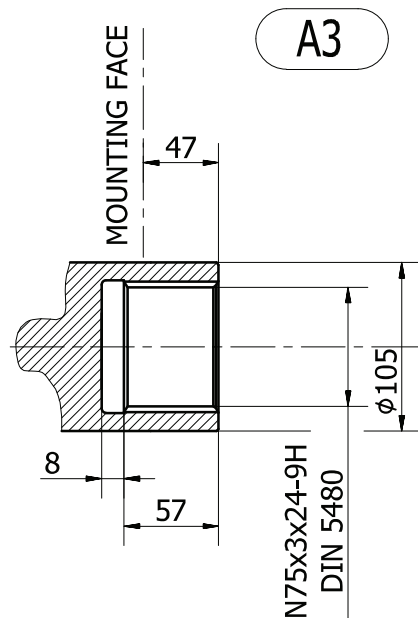
- (*) The standard distributor (D75) is shown. Please refer to distributors section (pag. 148-149) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum continuous power with flushing (see pag. 13).
- (****) For motor 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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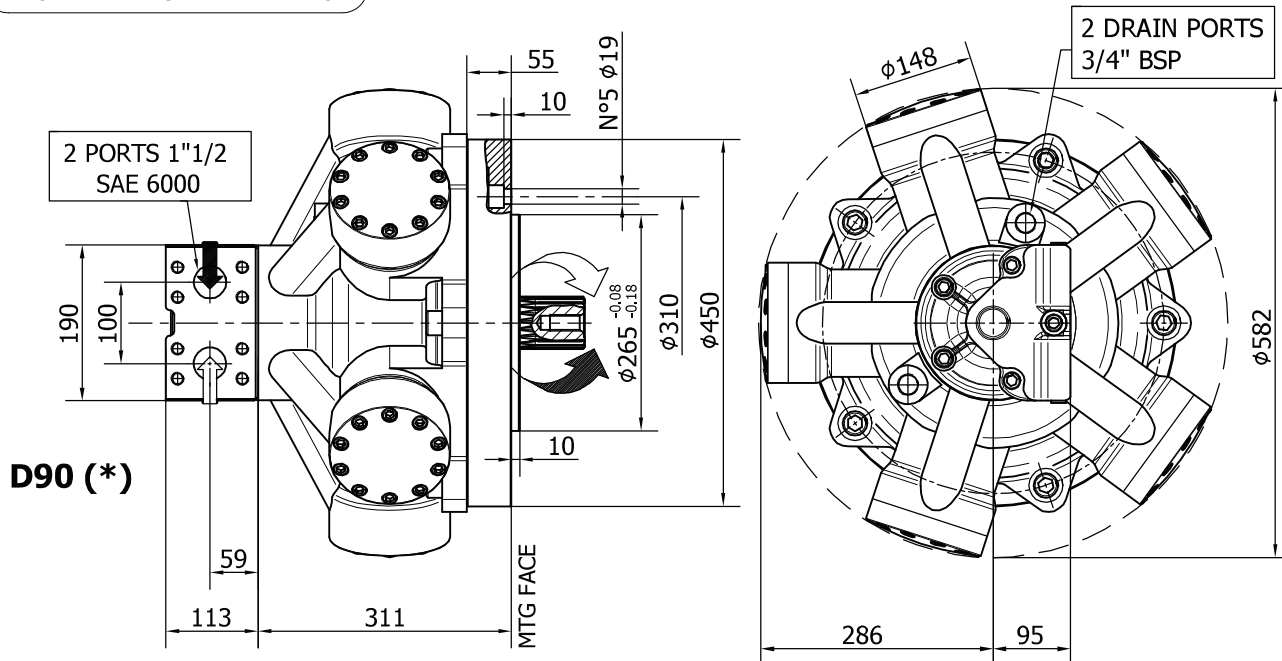
SHAFT CONFIGURATIONS



Available spline billet: **SB8**



INSTALLATION DRAWING



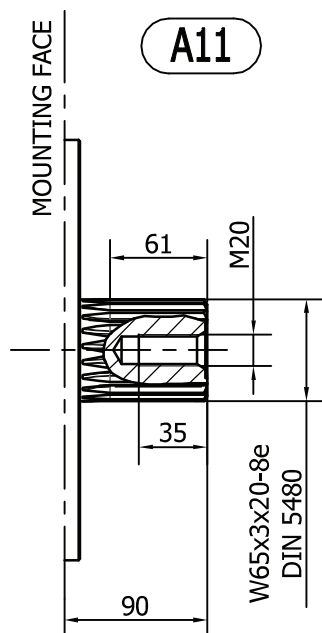
TECHNICAL DATA

		1800	2100	2300	2400
DISPLACEMENT	[cc]	1800	2066	2293	2393
SPECIFIC TORQUE	[Nm/bar]	28.7	32.9	36,5	38.9
MAX. CONT. PRESSURE	[bar]	250	250	250	240
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420
MAX. CONT. SPEED	[rpm]	250	220	210	190
PEAK SPEED (***)	[rpm]	285	250	235	220
MAX. CONT. POWER (****)	[kW]	173	175	185	170
MAX. CONT. POWER WITH FLUSHING	[kW]	215	215	215	200
MAX. CASE PRESSURE	[bar]	6	6	6	6
DRY WEIGHT	[kg]	203	203	203	203
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70

- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 148-149) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum continuous power with flushing (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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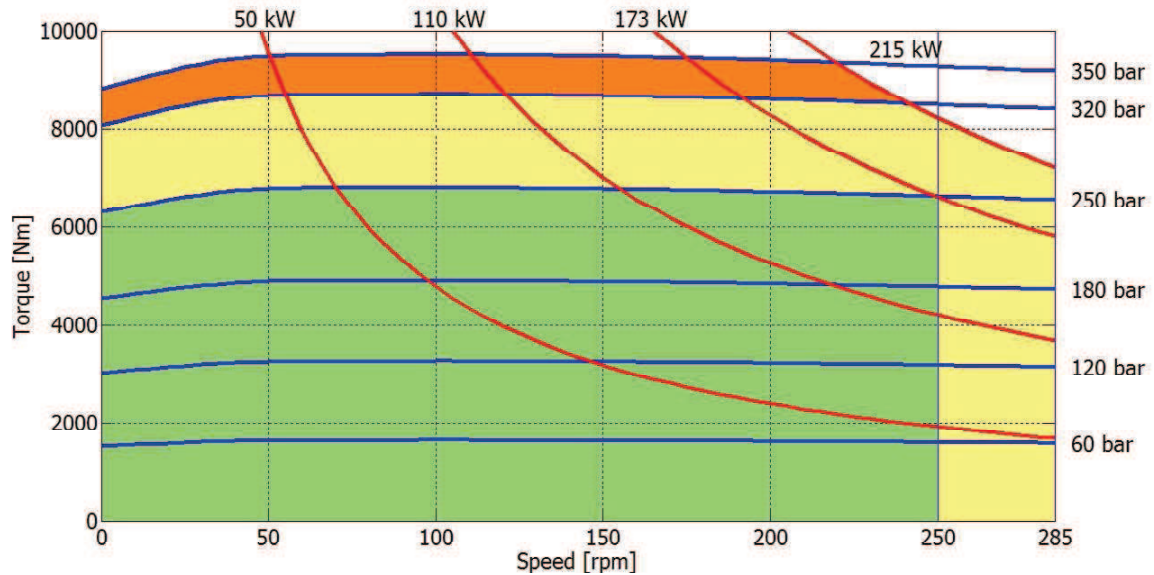
SHAFT CONFIGURATIONS



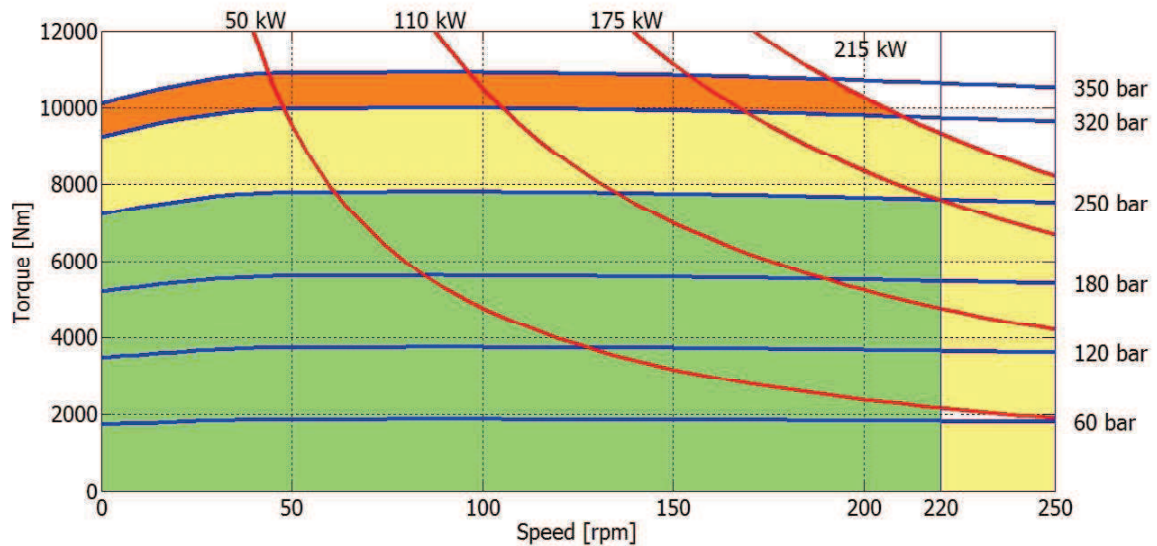
Available spline billet: **SB23**

IAMD H55- PERFORMANCE DIAGRAMS

1800 cc



2100 cc



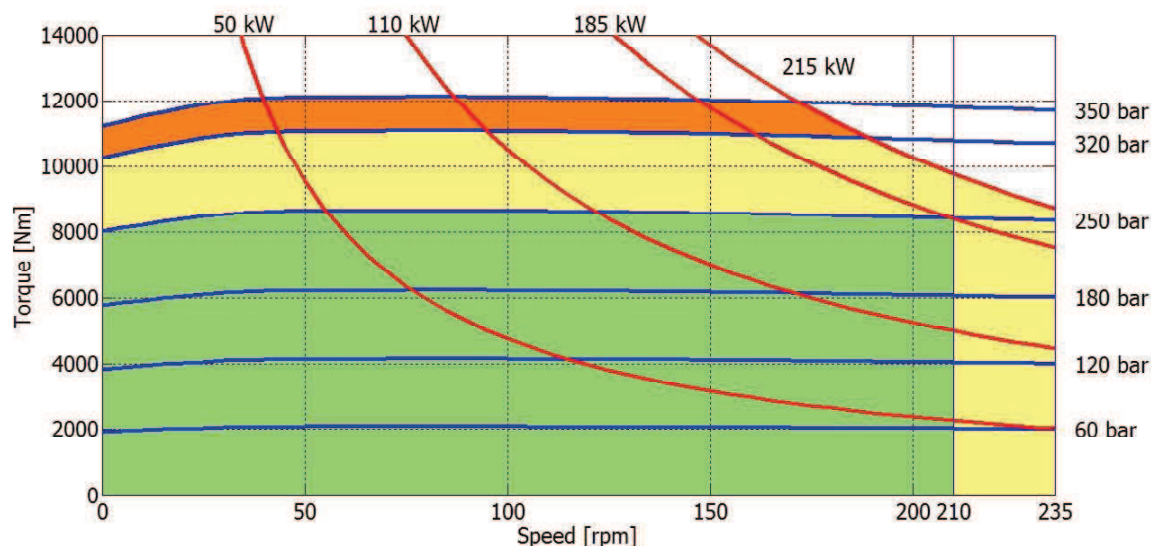
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

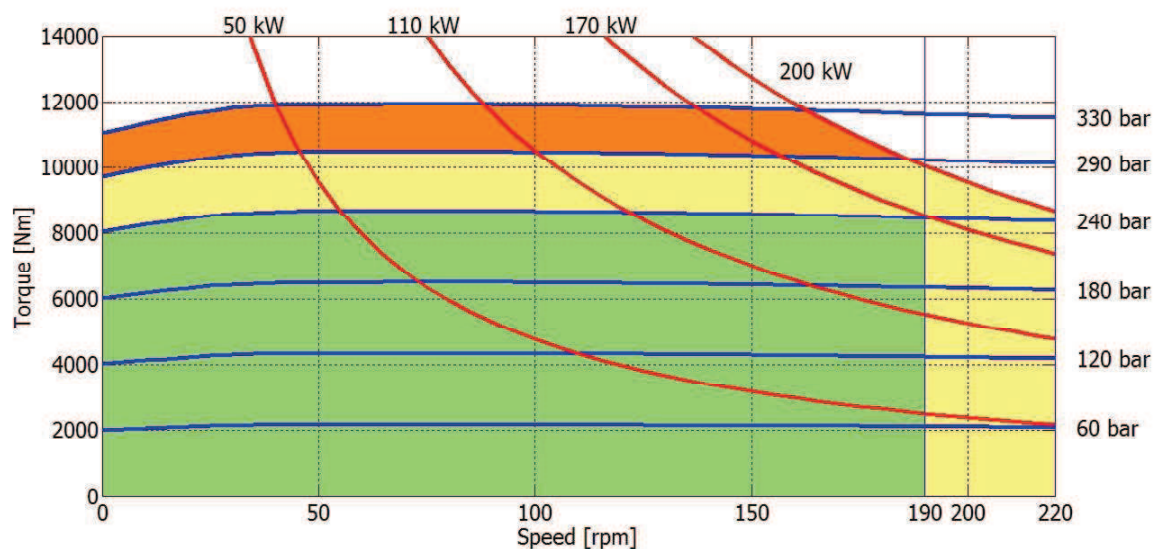
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IAMD H55 - PERFORMANCE DIAGRAMS

2300 cc



2400 cc

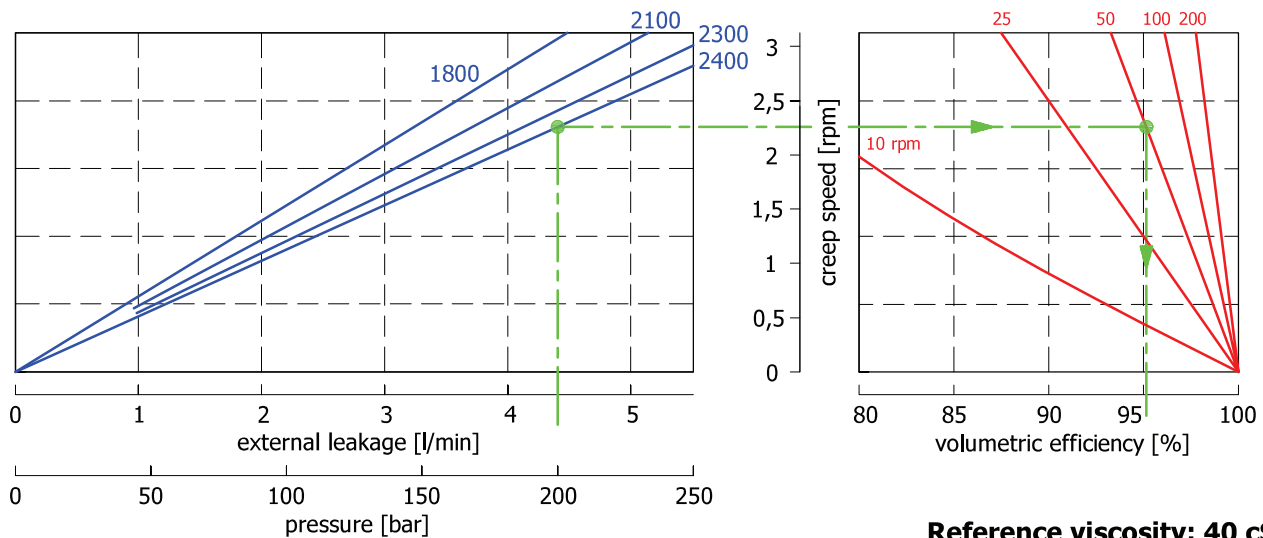


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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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CREEP SPEED - VOLUMETRIC EFFICIENCY

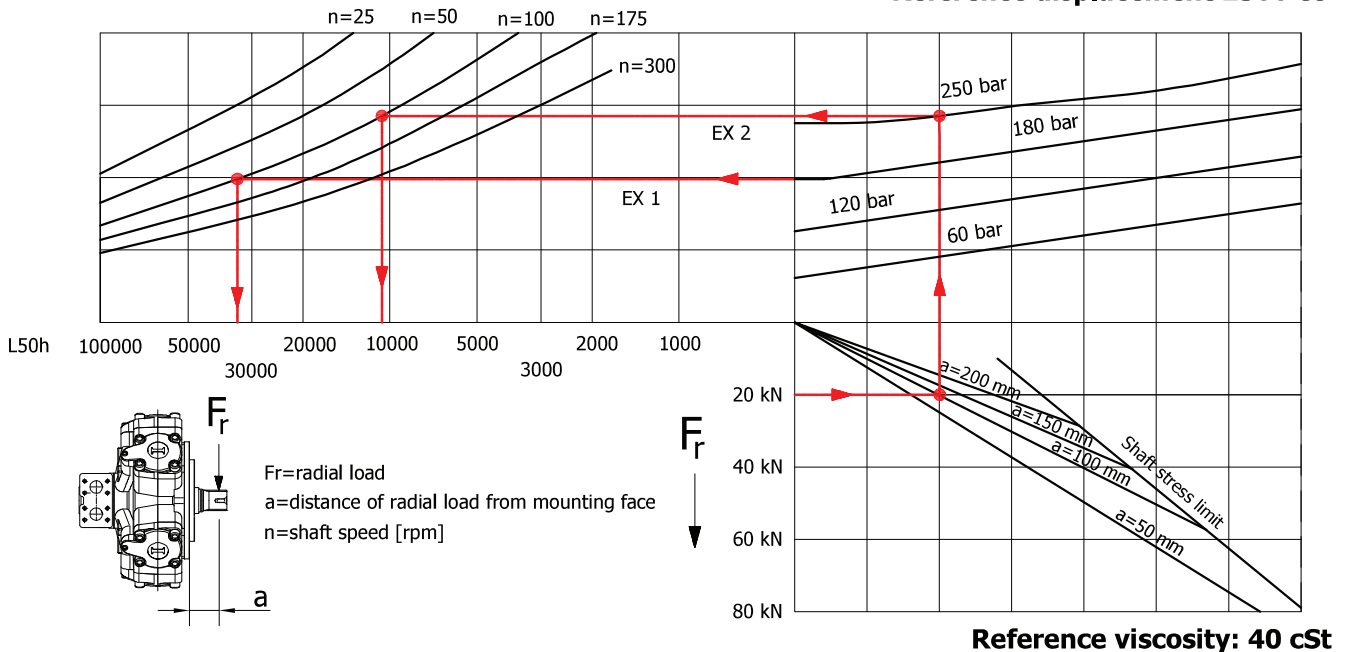


Example:

We suppose (2400 cc): $p=200$ [bar], we obtain: external leakage 4,3 [l/min], shaft creep speed 2,3 [rpm].
If we suppose (2400 cc): $p=200$ [bar] and $n=50$ [rpm] we obtain a volumetric efficiency of 95%;

BEARING LIFE

Reference displacement 2300 cc

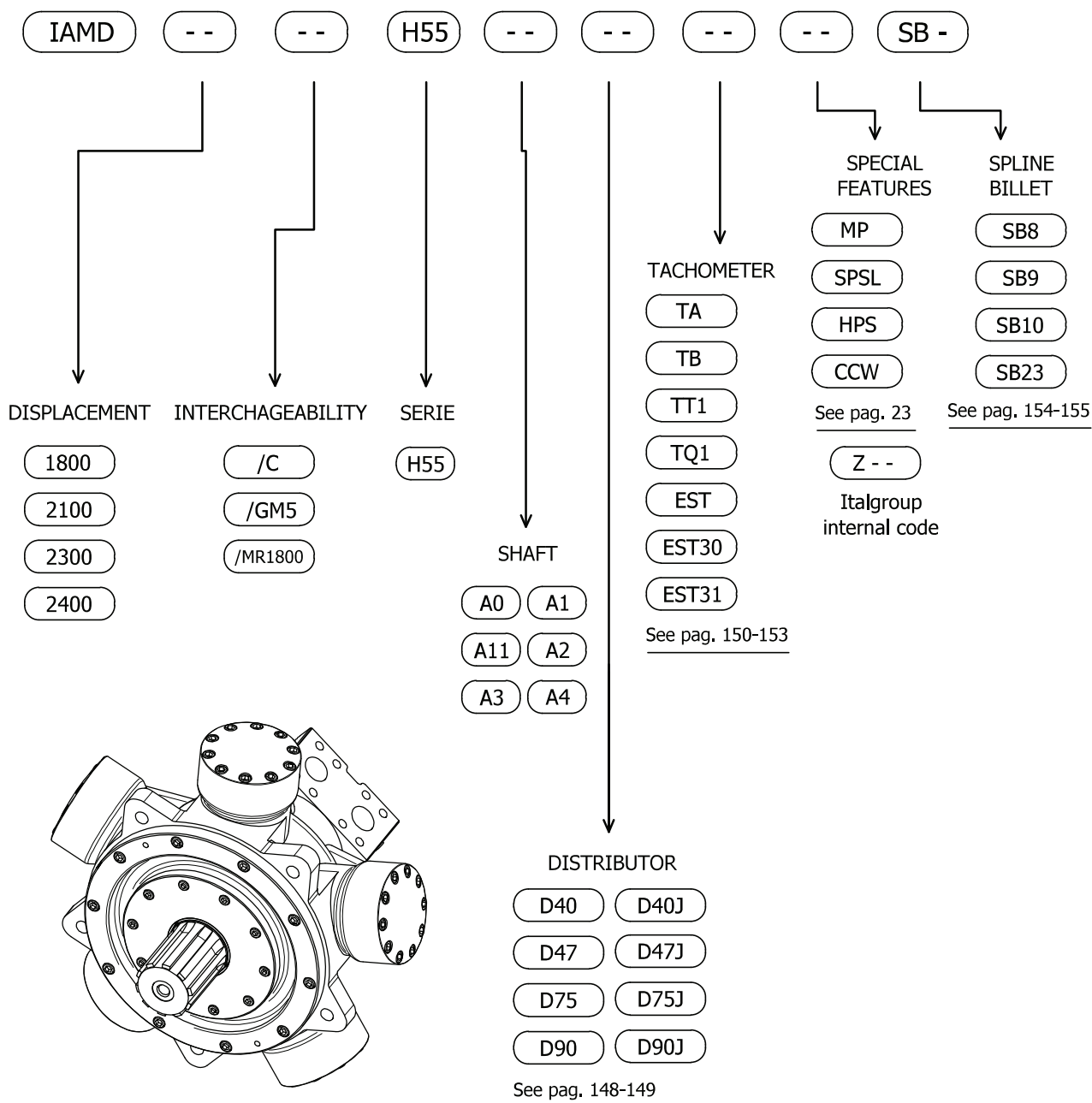


Example:

We suppose (EX1): $p=180$ [bar], $n=100$ [rpm]; we obtain an average lifetime of 33000 [h].
If we suppose (EX2): $F_r=20$ [kN], $a=100$ [mm], $n=100$ [rpm] and $p=250$ [bar] we obtain an average life-time of 11000 [h].

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IAMD H55 - ORDERING CODE



EXAMPLES:

IAMD 2100/MR1800 H55 A0 D75J SB8

IAMD 2300 H55 A1 D90 SB10

IAMD 2300 H55 A4 D90J EST30 MP HPS