
ITALGROUP SRL

IAMD SERIES - IAMD H6

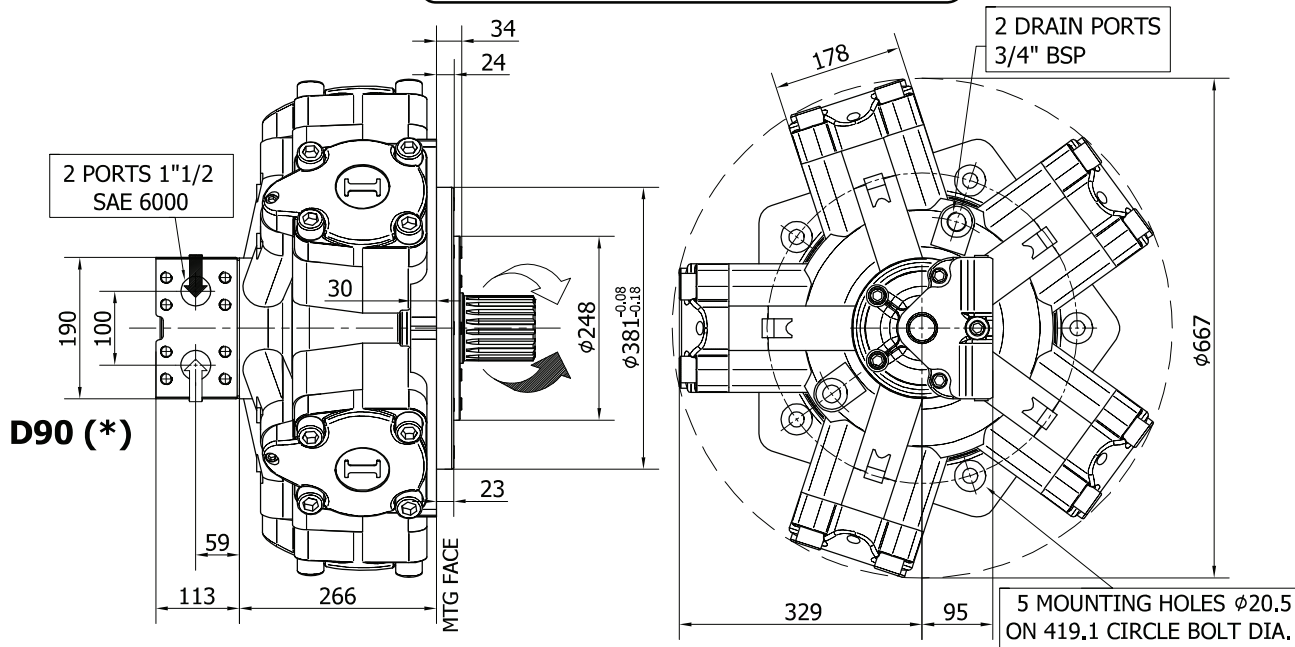
GENERAL CATALOGUE

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INSTALLATION DRAWING

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



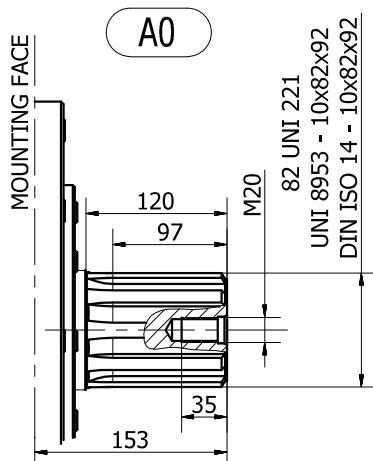
TECHNICAL DATA

		1800	2000	2200	2500	2800	3000	3200	3500
DISPLACEMENT	[cc]	1866	1993	2126	2525	2807	2983	3289	3479
SPECIFIC TORQUE	[Nm/bar]	29.7	31.7	35.1	40.2	44.7	47.5	52.4	55.4
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	350	350	325	285	250	235	210	200
PEAK SPEED (***)	[rpm]	400	400	375	325	290	270	240	230
MAX. CONT. POWER (****)	[kW]	210	210	210	210	210	210	210	210
MAX. CONT. POWER WITH FLUSHING	[kW]	235	235	235	235	235	235	235	235
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	308	308	308	308	308	308	308	308
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

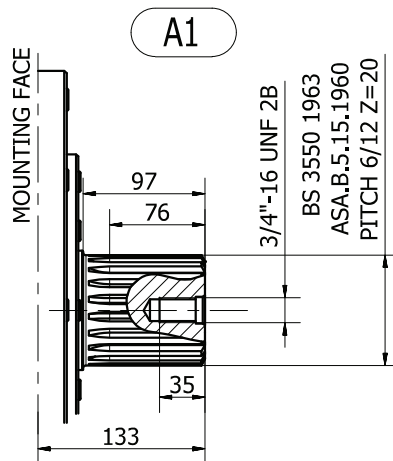
- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 148-149) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum continuous power with flushing (see pag. 13).
- (****) For motor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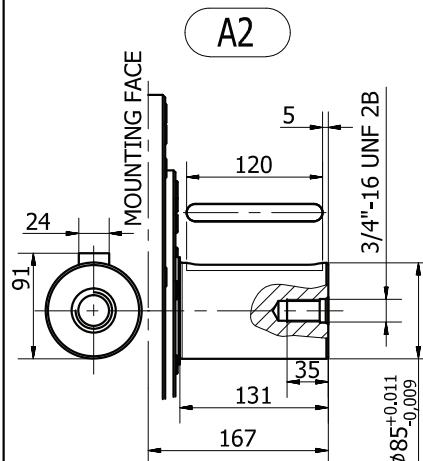
SHAFT CONFIGURATIONS



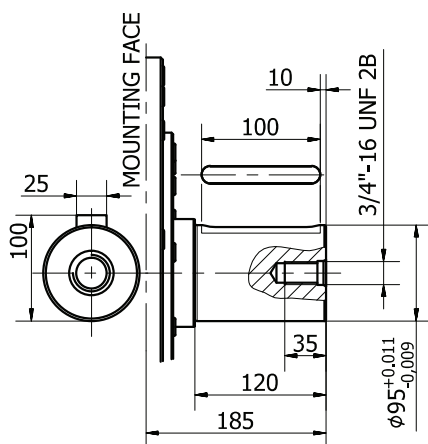
Available spline billet: (SB9)



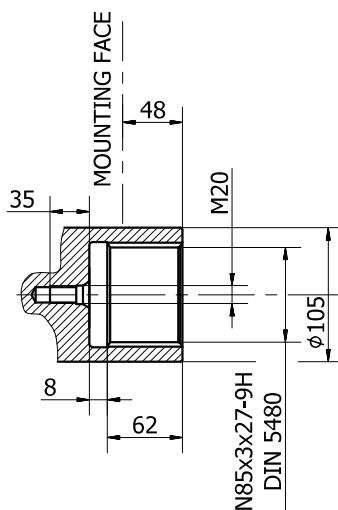
Available spline billet: (SB10)



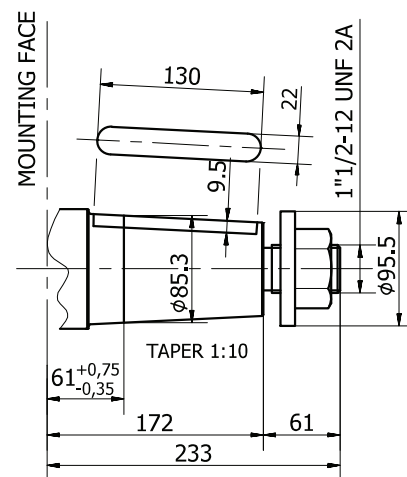
A21



A3



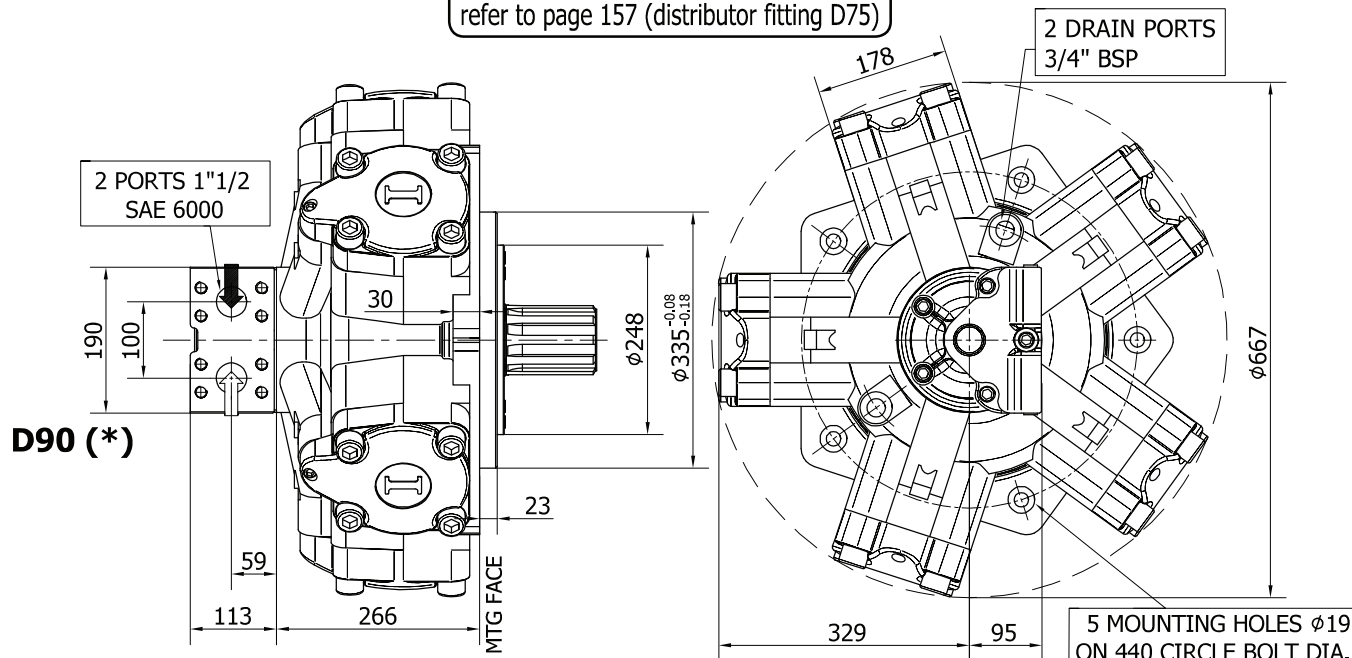
A4



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INSTALLATION DRAWING

Available distributor flange: **FL10**
refer to page 157 (distributor fitting D75)



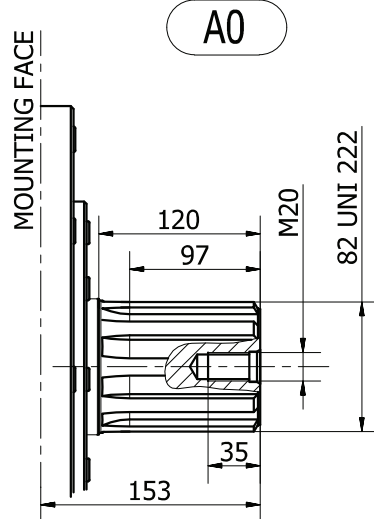
TECHNICAL DATA

		1800	2000	2200	2500	2800	3000	3200	3500
DISPLACEMENT	[cc]	1866	1993	2126	2525	2807	2983	3289	3479
SPECIFIC TORQUE	[Nm/bar]	29.7	31.7	35.1	40.2	44.7	47.5	52.4	55.4
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	350	350	325	285	250	235	210	200
PEAK SPEED (***)	[rpm]	400	400	375	325	290	270	240	230
MAX. CONT. POWER (****)	[kW]	210	210	210	210	210	210	210	210
MAX. CONT. POWER WITH FLUSHING	[kW]	235	235	235	235	235	235	235	235
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	308	308	308	308	308	308	308	308
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

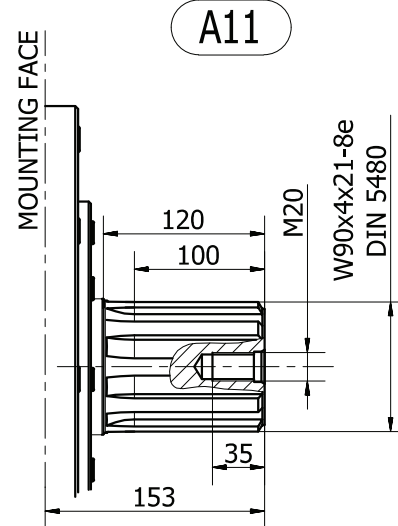
- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 148-149) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum continuous power with flushing (see pag. 13).
- (****) For motor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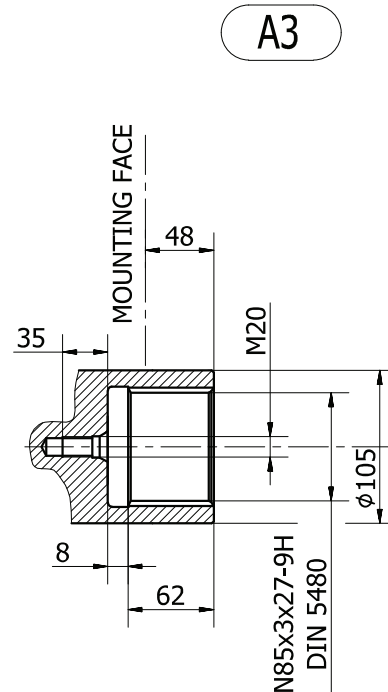
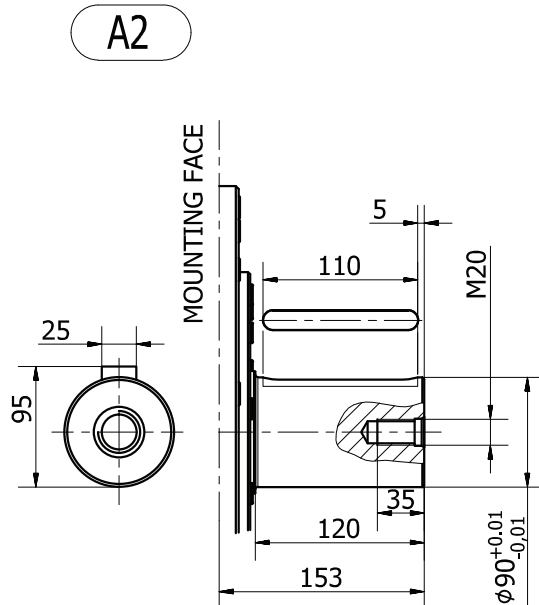
SHAFT CONFIGURATIONS



Available spline billet: **SB9**

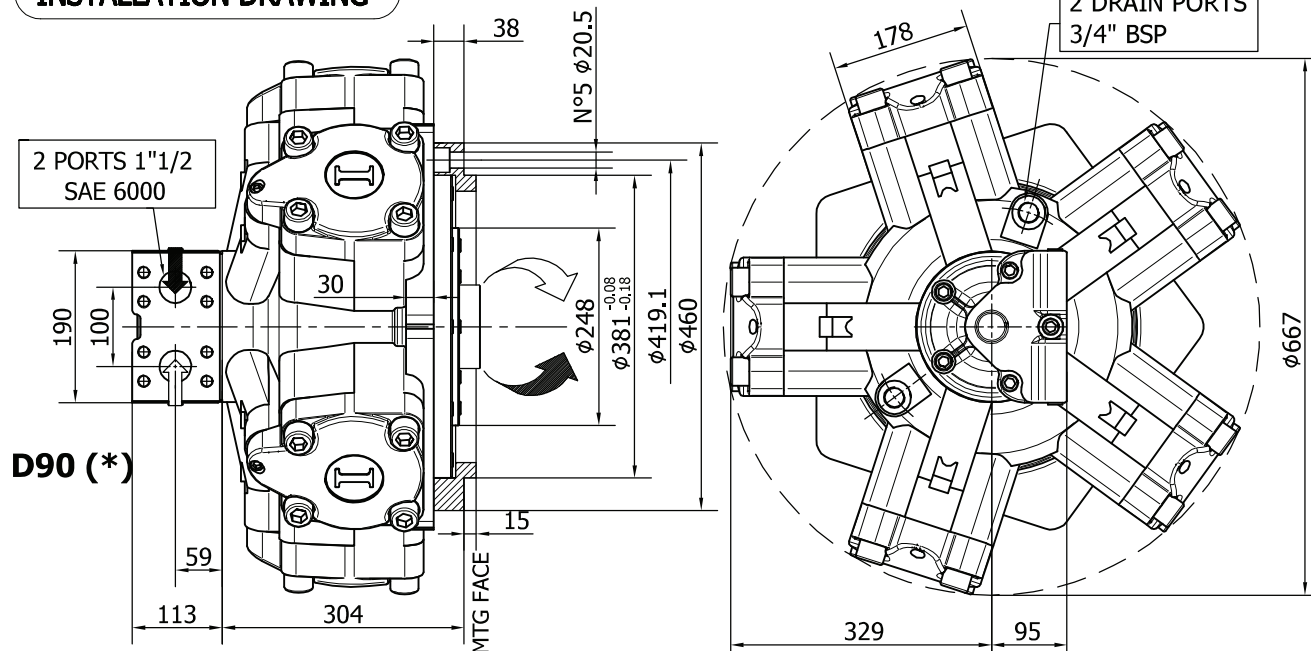


Available spline billet: **SB26**



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INSTALLATION DRAWING



TECHNICAL DATA

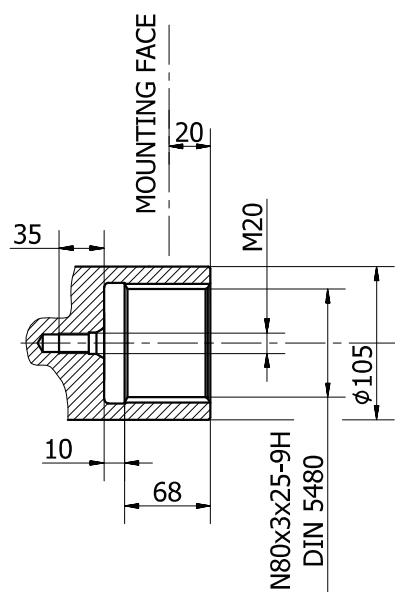
		1800	2000	2200	2500	2800	3000	3200	3500
DISPLACEMENT	[cc]	1866	1993	2126	2525	2807	2983	3289	3479
SPECIFIC TORQUE	[Nm/bar]	29.7	31.7	35.1	40.2	44.7	47.5	52.4	55.4
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	350	350	325	285	250	235	210	200
PEAK SPEED (***)	[rpm]	400	400	375	325	290	270	240	230
MAX. CONT. POWER (****)	[kW]	210	210	210	210	210	210	210	210
MAX. CONT. POWER WITH FLUSHING	[kW]	235	235	235	235	235	235	235	235
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	308	308	308	308	308	308	308	308
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-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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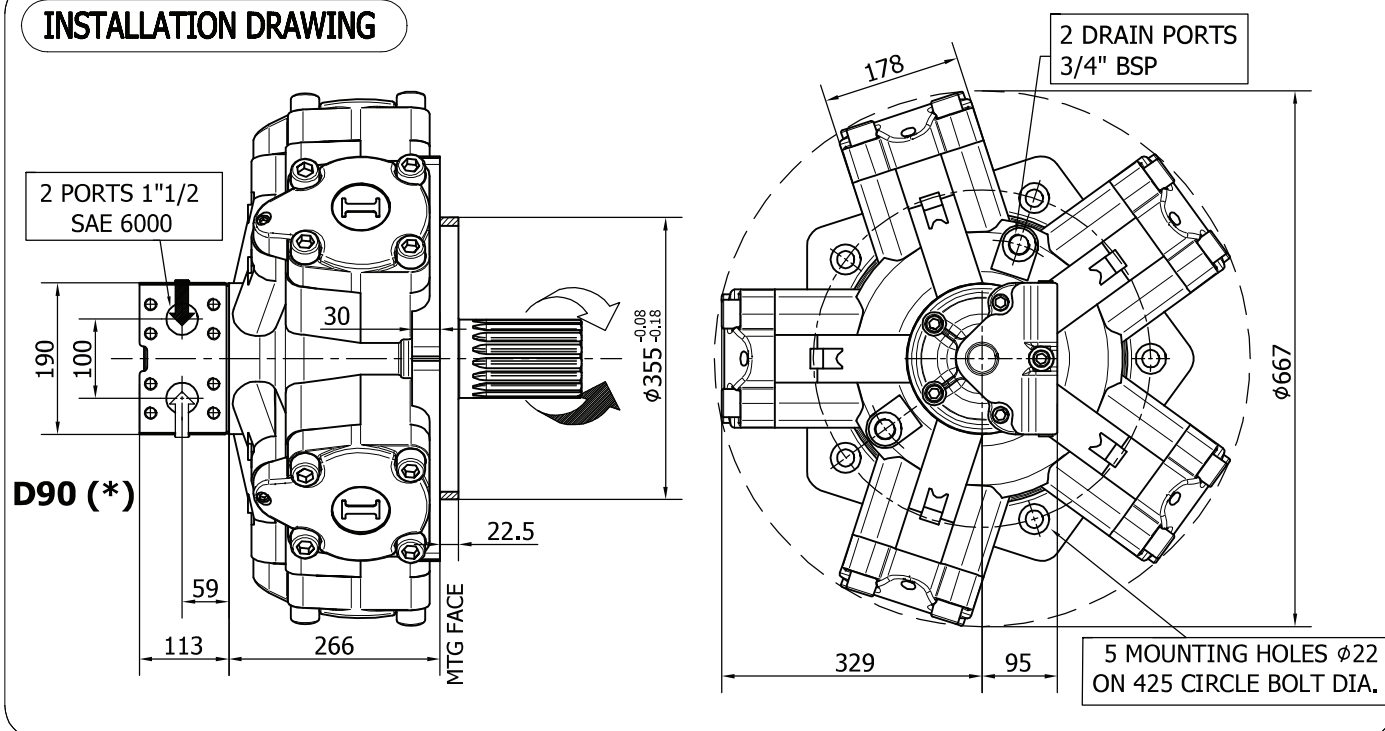
SHAFT CONFIGURATIONS

A32



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INSTALLATION DRAWING



TECHNICAL DATA

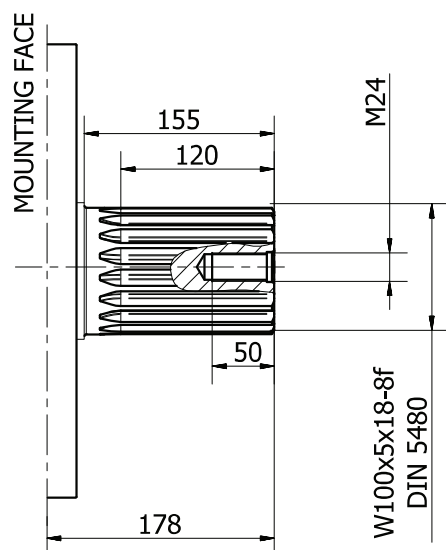
		1800	2000	2200	2500	2800	3000	3200	3500
DISPLACEMENT	[cc]	1866	1993	2126	2525	2807	2983	3289	3479
SPECIFIC TORQUE	[Nm/bar]	29.7	31.7	35.1	40.2	44.7	47.5	52.4	55.4
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	270	270
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	350	350	325	285	250	235	210	200
PEAK SPEED (***)	[rpm]	400	400	375	325	290	270	240	230
MAX. CONT. POWER (****)	[kW]	210	210	210	210	210	210	210	210
MAX. CONT. POWER WITH FLUSHING	[kW]	235	235	235	235	235	235	235	235
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	308	308	308	308	308	308	308	308
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-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.

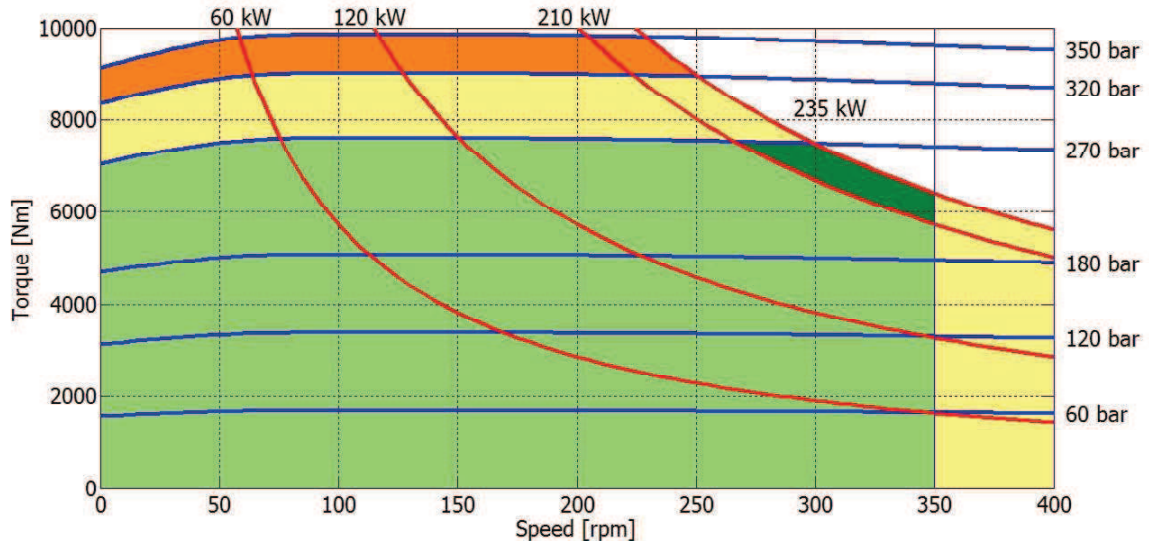
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SHAFT CONFIGURATIONS

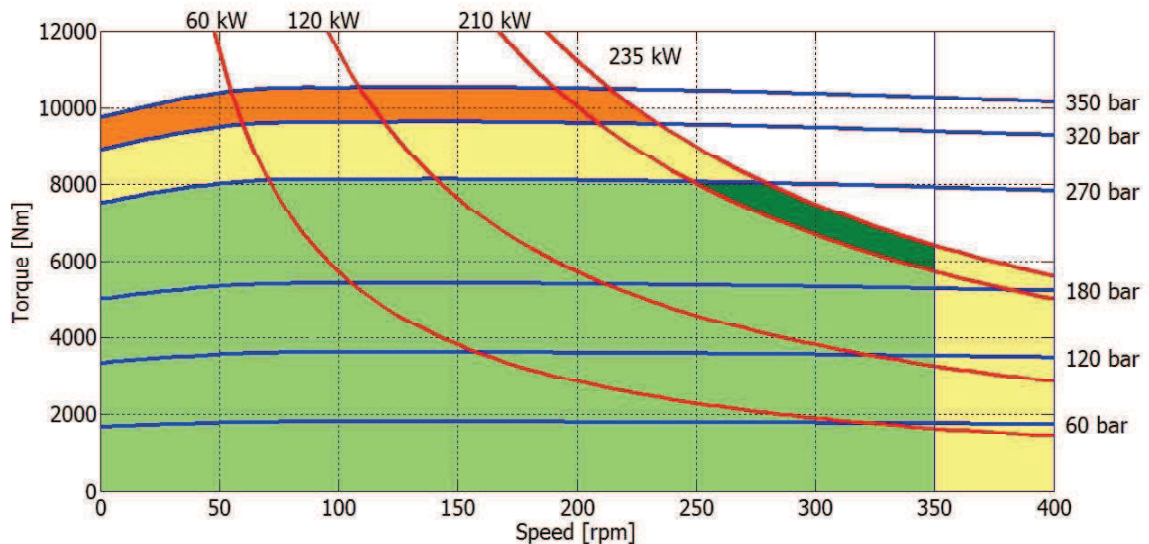
A13



1800 cc



2000 cc



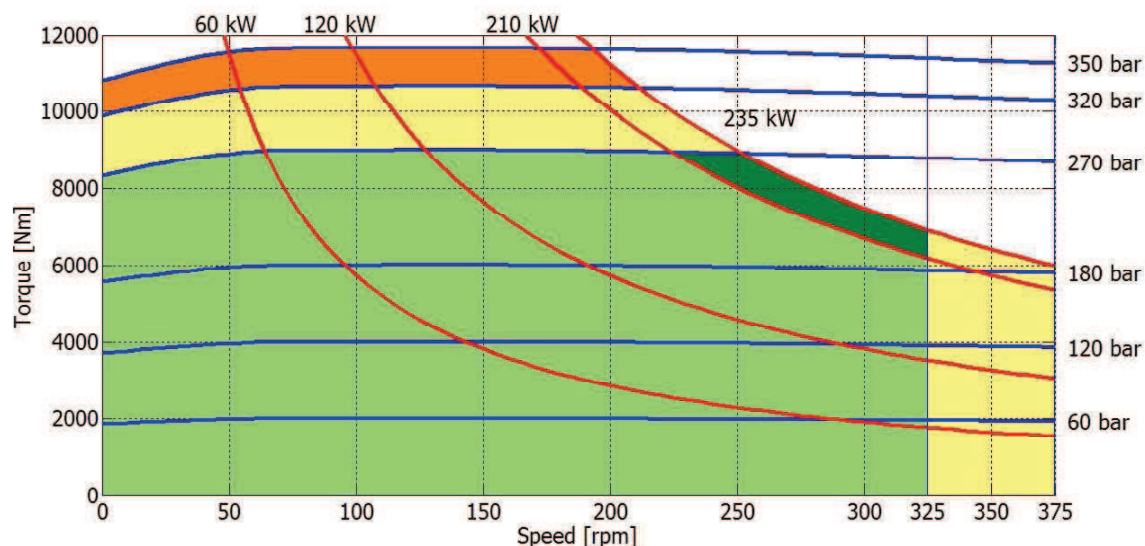
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

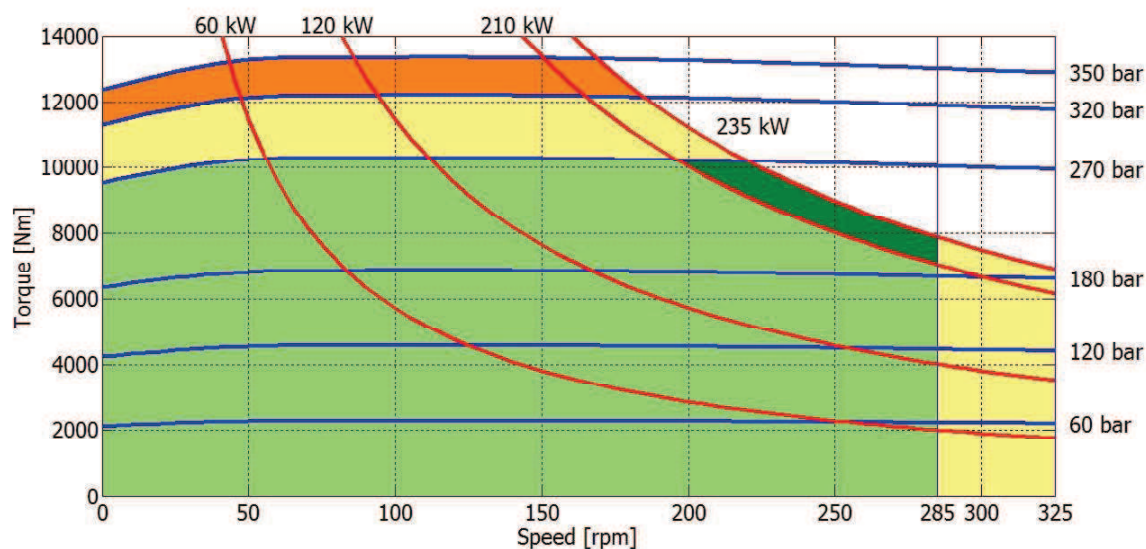
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IAMD H6 - PERFORMANCE DIAGRAMS

2200 cc



2500 cc



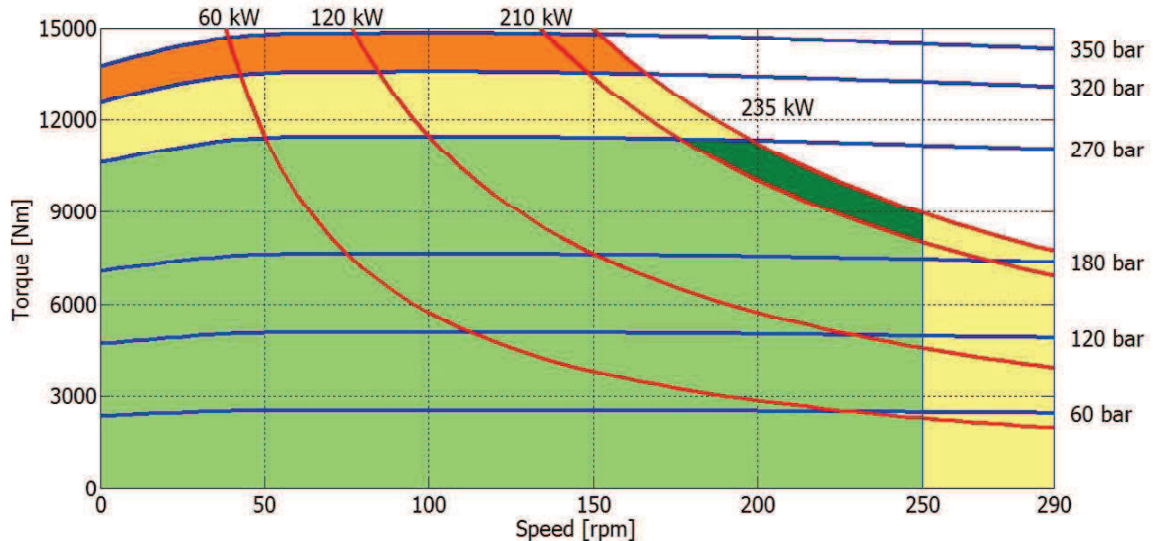
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

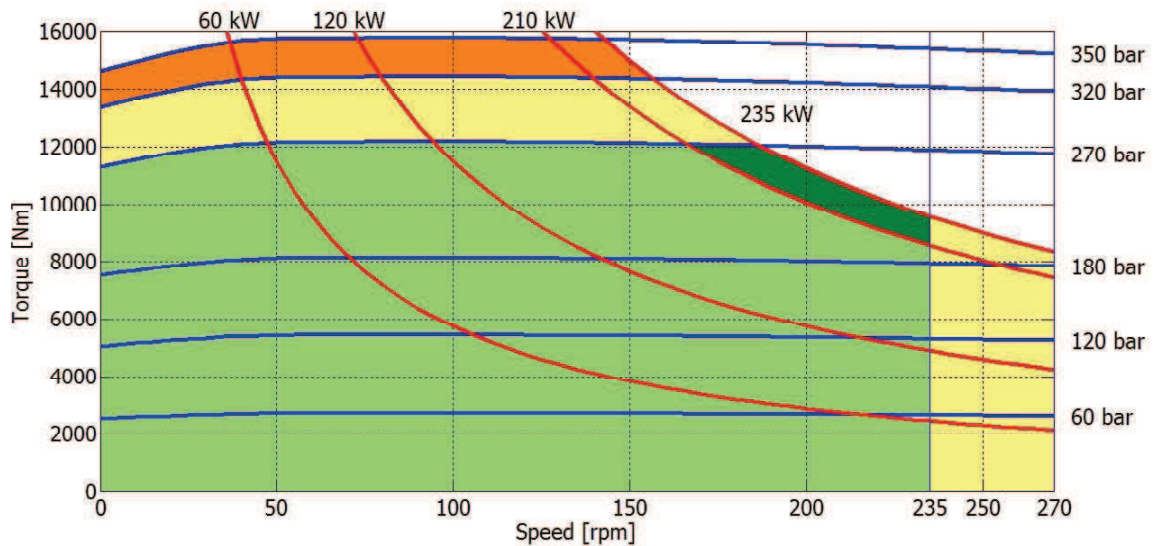
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IAMD H6 - PERFORMANCE DIAGRAMS

2800 cc



3000 cc



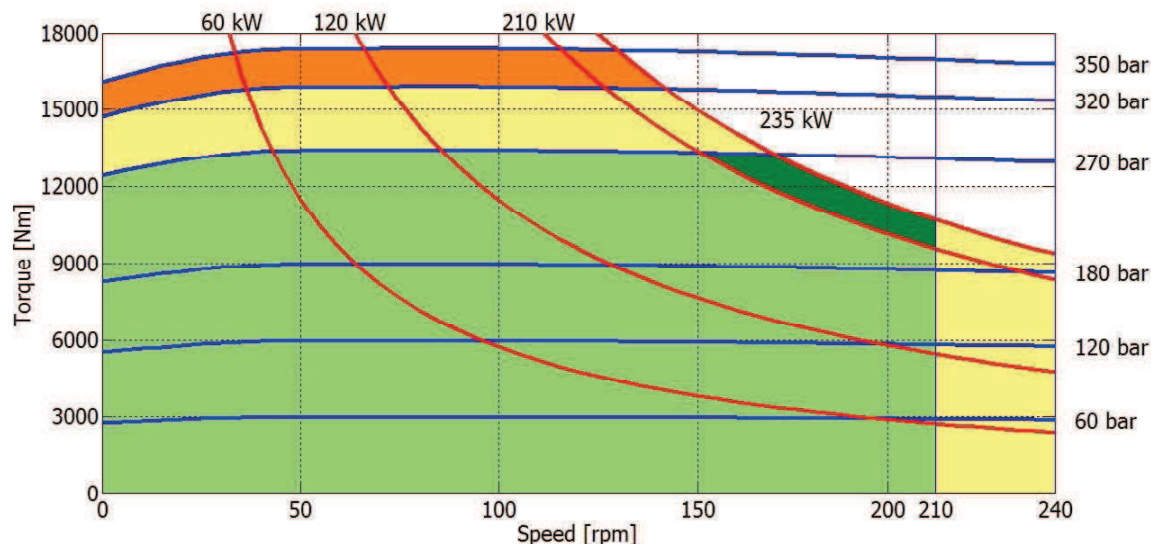
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

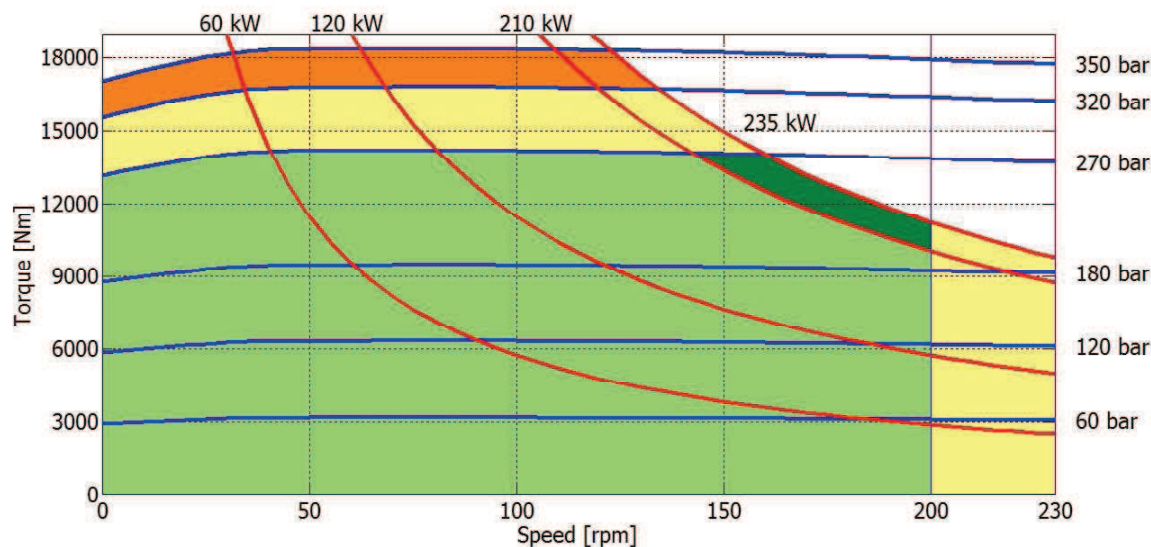
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IAMD H6 - PERFORMANCE DIAGRAMS

3200 cc



3500 cc

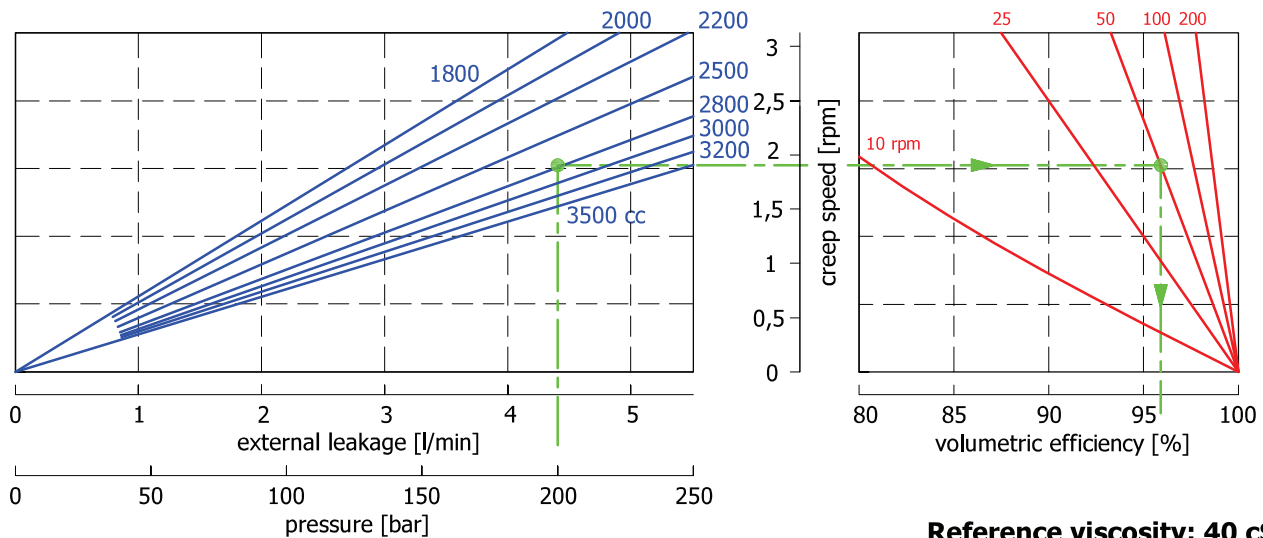


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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

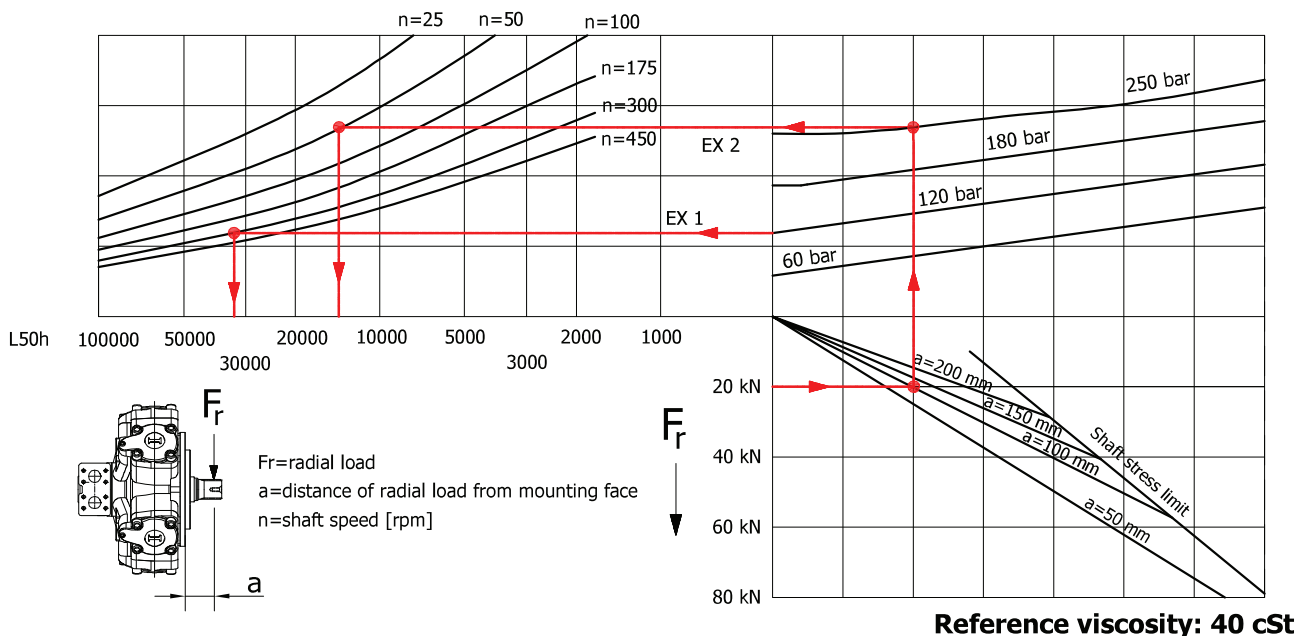


Example:

We suppose (2800 cc): $p=200$ [bar], we obtain: external leakage 4,3 [l/min], shaft creep speed 1,9 [rpm].
If we suppose (2800 cc): $p=200$ [bar] and $n=50$ [rpm] we obtain a volumetric efficiency of 96%;

BEARING LIFE

Reference displacement 3000 cc



Example:

We suppose (EX1): $p=120$ [bar], $n=300$ [rpm]; we obtain an average lifetime of 34000 [h].
If we suppose (EX2): $F_r=20$ [kN], $a=100$ [mm], $n=50$ [rpm] and $p=250$ [bar] we obtain an average lifetime of 13000 [h].

IAMD H6 - ORDERING CODE

