

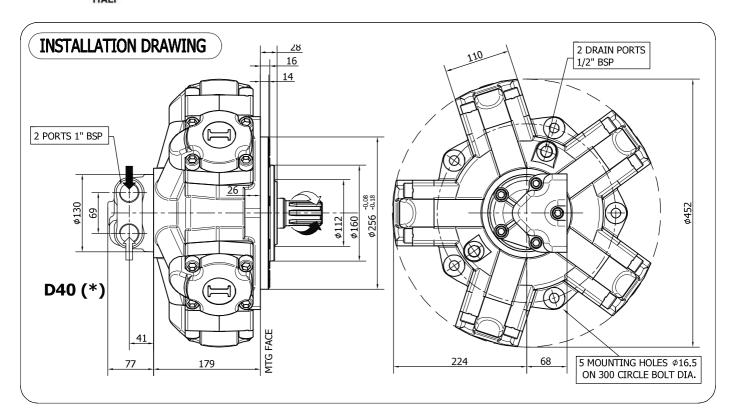
ITALGROUP SRL IAMD SERIES - IAMD H4 GENERAL CATALOGUE

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IAMD H4



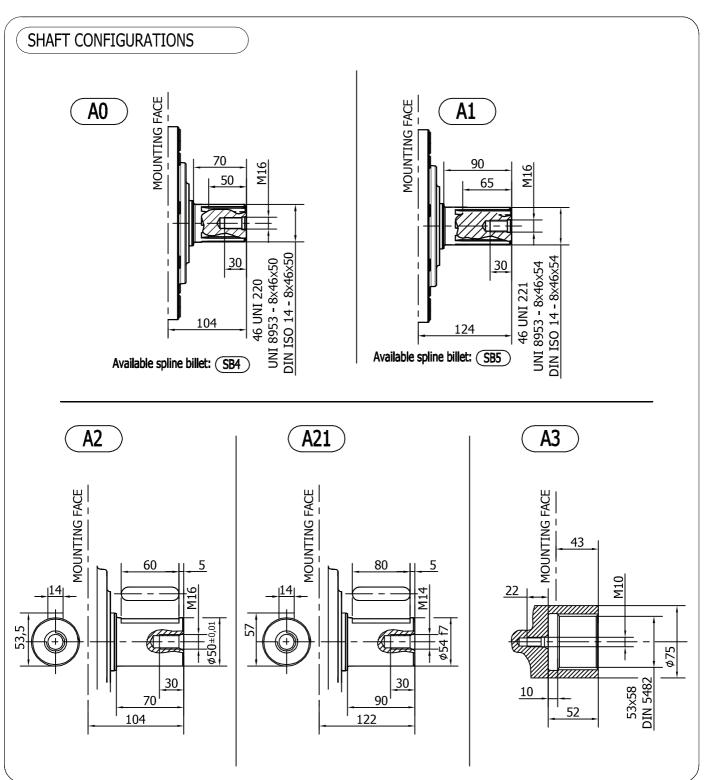
TECHNICAL DATA

		500	600	700	800	850	900	1000	1250
DISPLACEMENT	[cc]	493	584	714	792	847	904	992	1247
SPECIFIC TORQUE	[Nm/bar]	7.8	9.3	11.4	12.6	13.5	14.4	15.8	19.8
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	270	200
HYDROSTATIC TEST PRES- SURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	700	700	500	450	420	400	355	280
PEAK SPEED (***)	[rpm]	800	800	580	520	490	460	405	320
MAX. CONT. POWER (****)	[kW]	120	120	120	120	120	120	120	120
MAX. CONT. POWER WITH FLUSHING	[kW]	150	150	150	150	150	150	150	150
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92	92	92
TEMPERATURE RANGE (**)	[°C]	- 30÷70	- 30÷70						

- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 148-149) for differents 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.

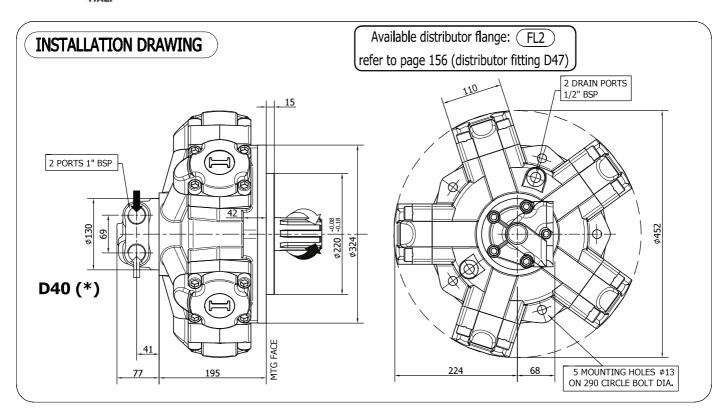
SHAFTS - IAMD H4







IAMD H4/C



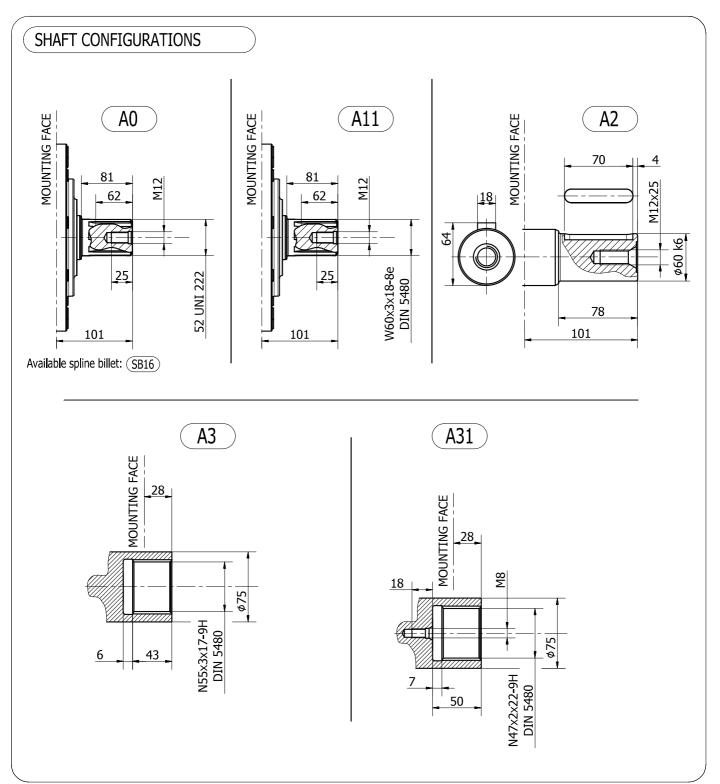
TECHNICAL DATA

		500	600	700	800	850	900	1000	1250
DISPLACEMENT	[cc]	493	584	714	792	847	904	992	1247
SPECIFIC TORQUE	[Nm/bar]	7.8	9.3	11.4	12.6	13.5	14.4	15.8	19.8
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	270	200
HYDROSTATIC TEST PRES- SURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	700	700	500	450	420	400	355	280
PEAK SPEED (***)	[rpm]	800	800	580	520	490	460	405	320
MAX. CONT. POWER (****)	[kW]	120	120	120	120	120	120	120	120
MAX. CONT. POWER WITH FLUSHING	[kW]	150	150	150	150	150	150	150	150
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92	92	92
TEMPERATURE RANGE (**)	[°C]	- 30÷70							

- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 148-149) for differents distributor interfaces.
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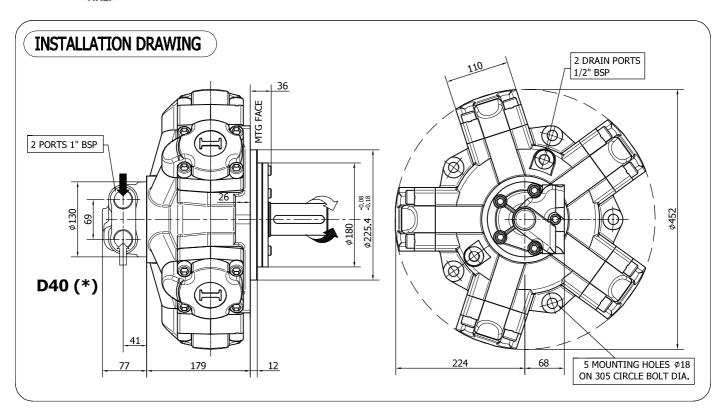
SHAFTS - IAMD H4/C







IAMD H4/B45



TECHNICAL DATA

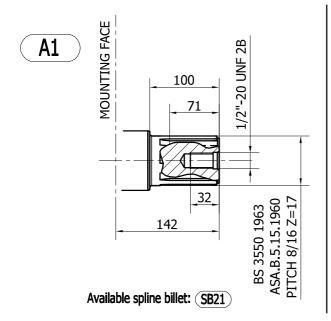
		500	600	700	800	850	900	1000	1250
DISPLACEMENT	[cc]	493	584	714	792	847	904	992	1247
SPECIFIC TORQUE	[Nm/bar]	7.8	9.3	11.4	12.6	13.5	14.4	15.8	19.8
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	270	200
HYDROSTATIC TEST PRES- SURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	700	700	500	450	420	400	355	280
PEAK SPEED (***)	[rpm]	800	800	580	520	490	460	405	320
MAX. CONT. POWER (****)	[kW]	120	120	120	120	120	120	120	120
MAX. CONT. POWER WITH FLUSHING	[kW]	150	150	150	150	150	150	150	150
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92	92	92
TEMPERATURE RANGE (**)	[°C]	- 30÷70							

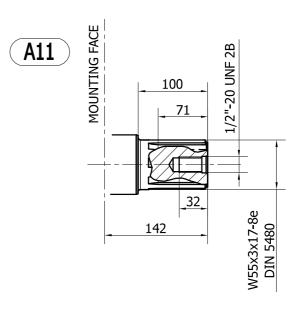
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 148-149) for differents distributor interfaces.
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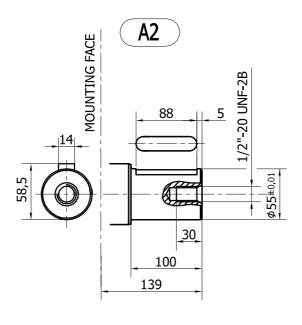
SHAFTS - IAMD H4/B45



SHAFT CONFIGURATIONS

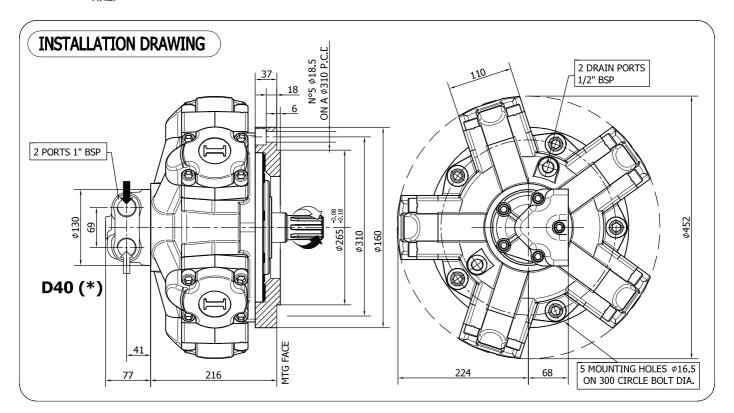








IAMD H4/GM4



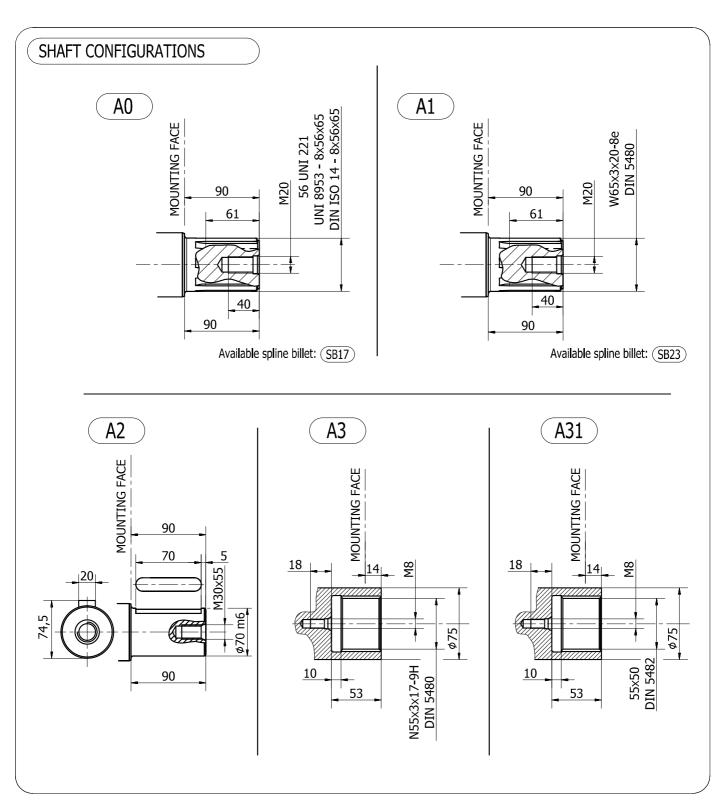
TECHNICAL DATA

		500	600	700	800	850	900	1000	1250
DISPLACEMENT	[cc]	493	584	714	792	847	904	992	1247
SPECIFIC TORQUE	[Nm/bar]	7.8	9.3	11.4	12.6	13.5	14.4	15.8	19.8
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	270	200
HYDROSTATIC TEST PRES- SURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	700	700	500	450	420	400	355	280
PEAK SPEED (***)	[rpm]	800	800	580	520	490	460	405	320
MAX. CONT. POWER (****)	[kW]	120	120	120	120	120	120	120	120
MAX. CONT. POWER WITH FLUSHING	[kW]	150	150	150	150	150	150	150	150
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92	92	92
TEMPERATURE RANGE (**)	[°C]	- 30÷70	- 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. 148-149) for differents 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.

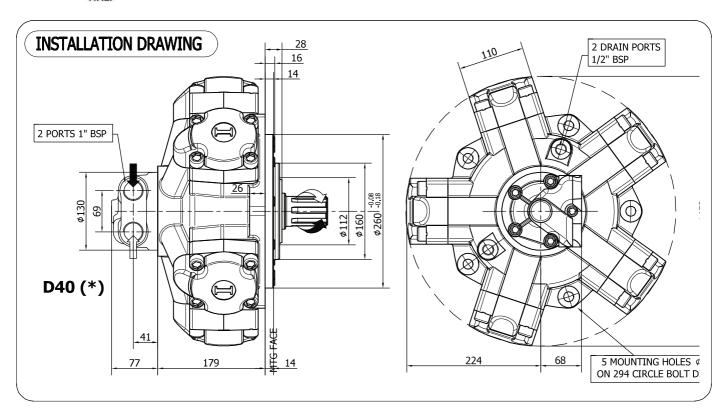
SHAFTS - IAMD H4/GM4







IAMD H4/SB506



TECHNICAL DATA

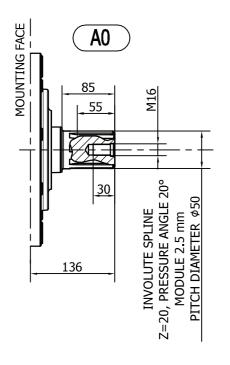
		500	600	700	800	850	900	1000	1250
DISPLACEMENT	[cc]	493	584	714	792	847	904	992	1247
SPECIFIC TORQUE	[Nm/bar]	7.8	9.3	11.4	12.6	13.5	14.4	15.8	19.8
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	270	200
HYDROSTATIC TEST PRES- SURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	700	700	500	450	420	400	355	280
PEAK SPEED (***)	[rpm]	800	800	580	520	490	460	405	320
MAX. CONT. POWER (****)	[kW]	120	120	120	120	120	120	120	120
MAX. CONT. POWER WITH FLUSHING	[kW]	150	150	150	150	150	150	150	150
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92	92	92
TEMPERATURE RANGE (**)	[°C]	- 30÷70							

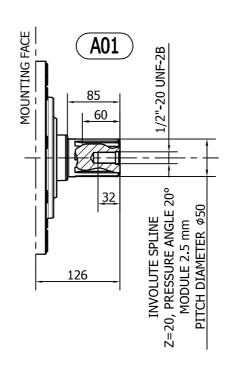
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- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum continuous power with flushing (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

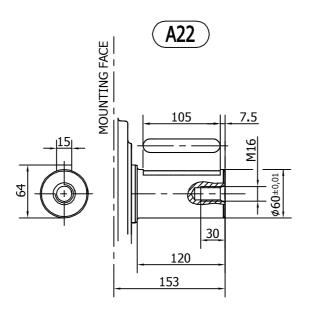
SHAFTS - IAMD H4/SB506



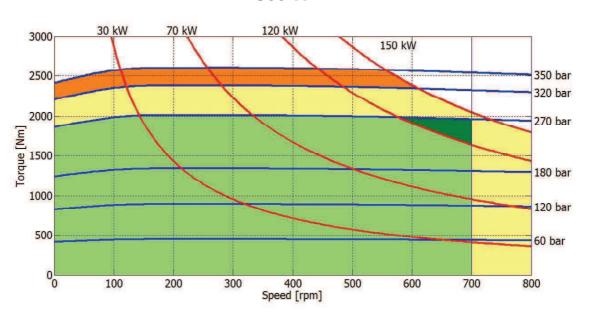
SHAFT CONFIGURATIONS



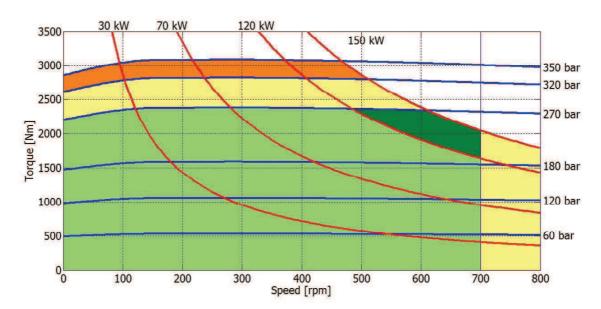




500 cc



600 cc



Continuous operation

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

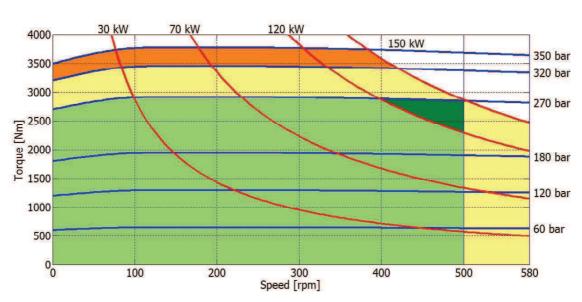
Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period

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

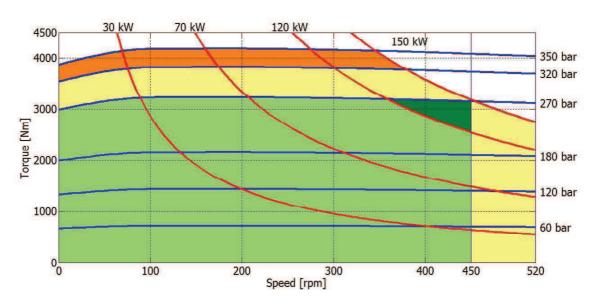
The above diagrams are referring to the hydraulic motor working with a fluid in ideal conditions (viscosity at 40 cSt). In case the working temperature increases and viscosity reach values under the recommended values (see hydraulic fluid recommendations) flushing must be performed or ISO oil grade must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







800 cc



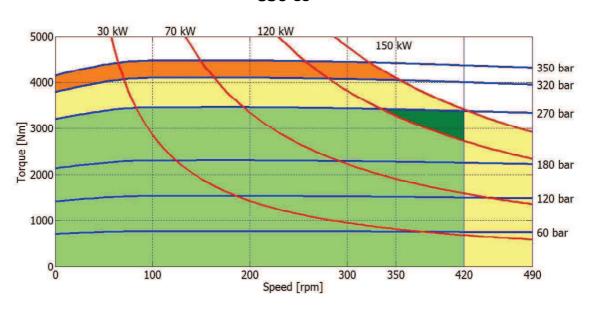
Continuous operation

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

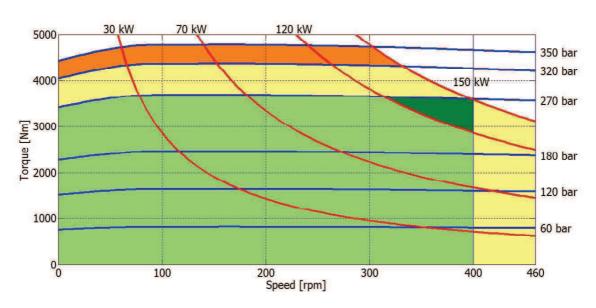
Intermittent operation: permitted for a 15% of

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.

850 cc



900 cc



Continuous operation

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

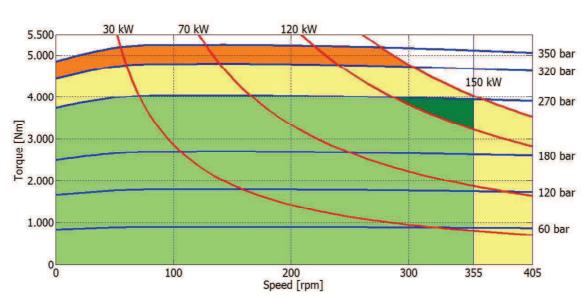
Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period

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

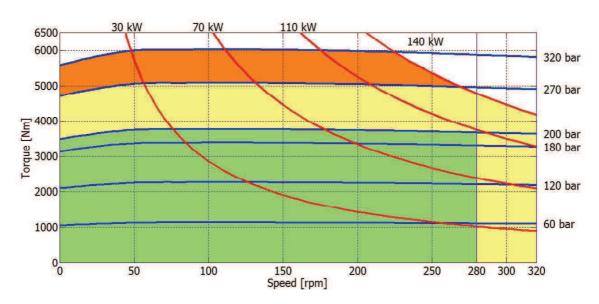
The above diagrams are referring to the hydraulic motor working with a fluid in ideal conditions (viscosity at 40 cSt). In case the working temperature increases and viscosity reach values under the recommended values (see hydraulic fluid recommendations) flushing must be performed or ISO oil grade must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







1250 cc



Continuous operation

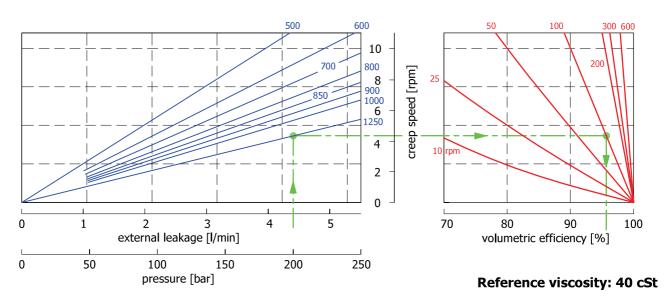
Continuous operation with flushing or intermittent operation (see below for intermittent operation)

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.

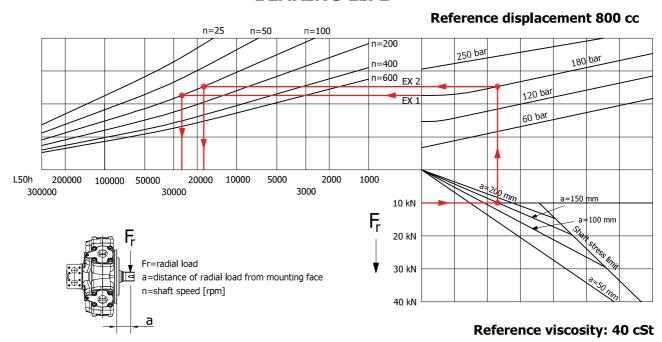
CREEP SPEED - VOLUMETRIC EFFICIENCY



Example:

We suppose (1250 cc): p=200 [bar], we obtain: external leakage 4,3 [l/min], shaft creep speed 4,2 [rpm]. If we suppose (1250 cc): p=200 [bar] and n=100 [rpm] we obtain a volumetric efficiency of 96%;

BEARING LIFE



Example:

We suppose (EX1): p=180 [bar], n=100 [rpm]; we obtain an average lifetime of 25000 [h]. If we suppose (EX2): $F_r=10$ [kN], a=150 [mm], n=100 [rpm] and p=180 [bar] we obtain an average lifetime of 18000 [h].

IAMD H4 - ORDERING CODE



