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**ITALGROUP SRL**  
**IAM SERIES - IAM H4**  
**GENERAL CATALOGUE**

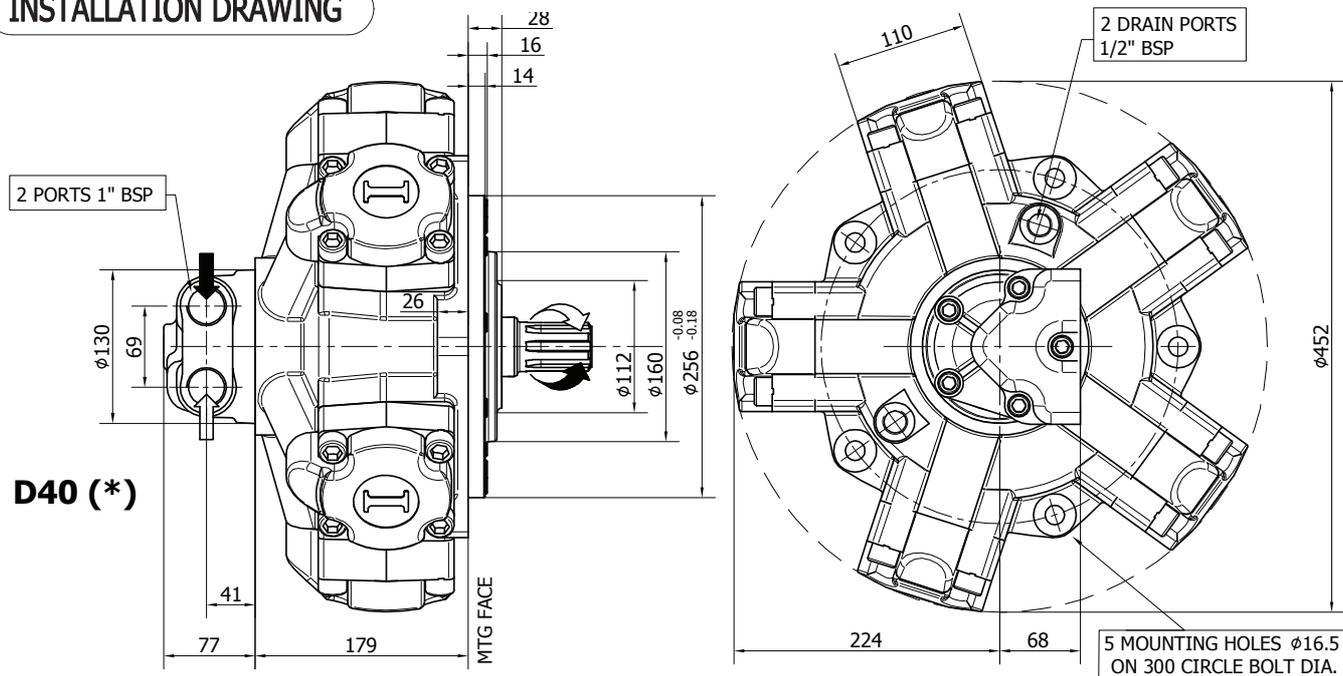
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**INDEX - IAM H4**

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<u>IAM H4 - INSTALLATION DRAWING</u>	Pag	94 - 95
<u>IAM H4/C - INSTALLATION DRAWING</u>	"	96 - 97
<u>IAM H4/B45 - INSTALLATION DRAWING</u>	"	98 - 99
<u>IAM H4/GM4 - INSTALLATION DRAWING</u>	"	100 - 101
<u>IAM H4/S - INSTALLATION DRAWING</u>	"	102 - 103
<u>IAM H4 - PERFORMANCE DRAWINGS</u>	"	104 - 109
<u>IAM H4 - ORDERING CODE</u>	"	110

**INSTALLATION DRAWING**



**TECHNICAL DATA**

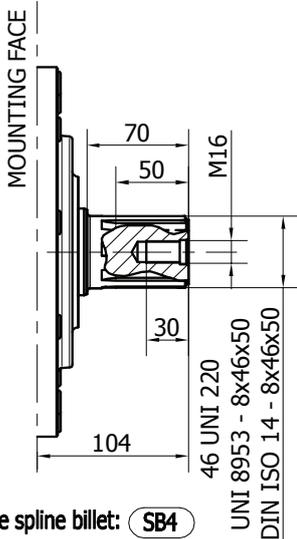
		<b>700</b>	<b>800</b>	<b>850</b>	<b>900</b>	<b>1000</b>	<b>1100</b>	<b>1200</b>	<b>1250</b>	<b>1400</b>
DISPLACEMENT	[cc]	714	792	847	904	992	1116	1192	1247	1332
SPECIFIC TORQUE	[Nm/bar]	11.4	12.6	13.5	14.4	15.8	17.8	19.0	19.8	21.2
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250	250	250	250
HYDROSTATIC TEST PRES-SURE	[bar]	420	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	500	450	450	450	330	330	300	250	230
PEAK SPEED (***)	[rpm]	580	530	530	530	400	400	350	300	280
MAX. CONT. POWER (****)	[kW]	55	55	55	55	55	55	55	55	55
MAX. POWER	[kW]	80	80	80	80	80	80	80	80	80
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	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	-30÷70

- (\*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (\*\*) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (\*\*\*) Do not exceed maximum power (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.

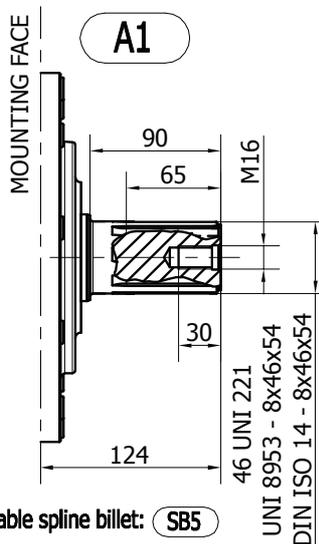
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SHAFT CONFIGURATIONS

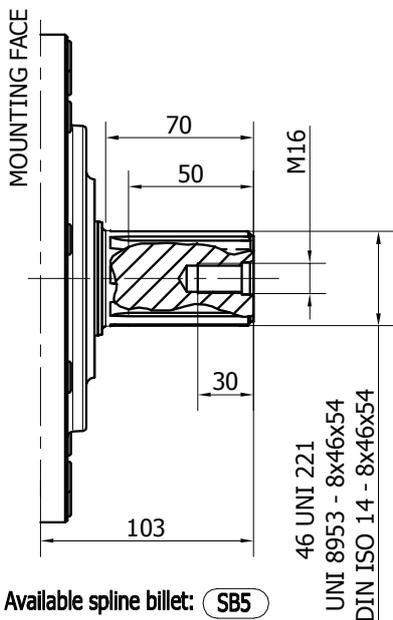
A0



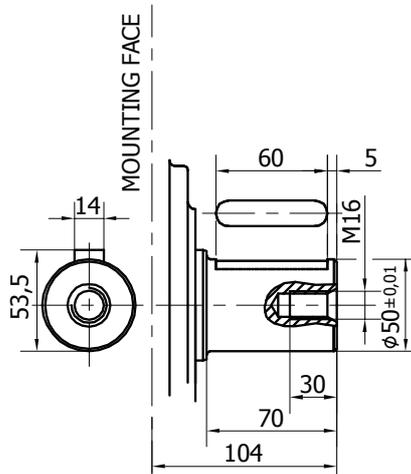
A1



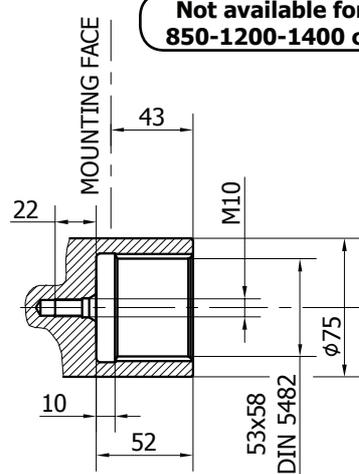
A11



A2



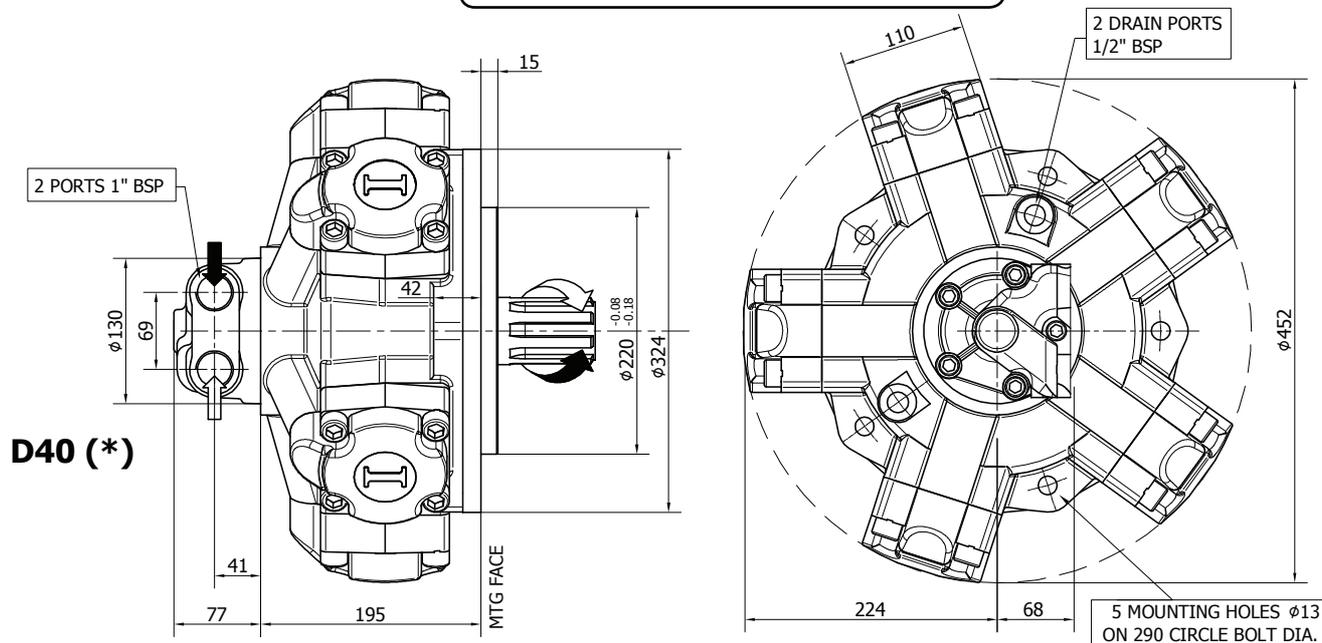
A3



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**INSTALLATION DRAWING**

Available distributor flange: **FL2**  
refer to page 184 (distributor fitting D47)



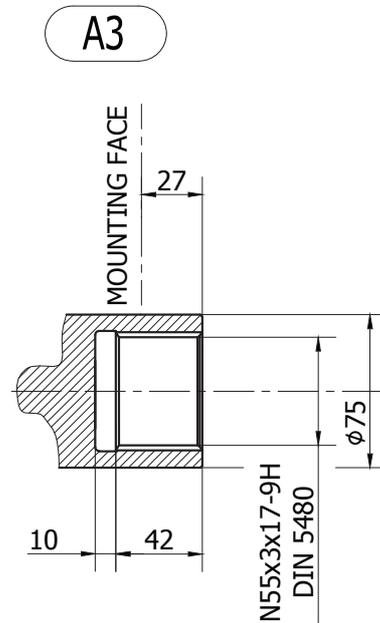
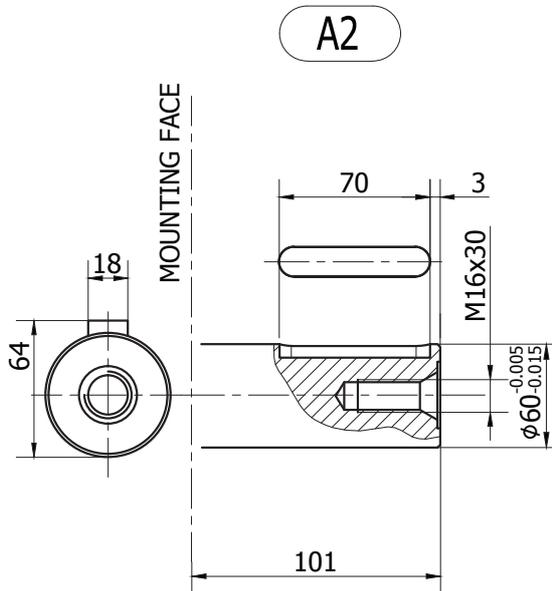
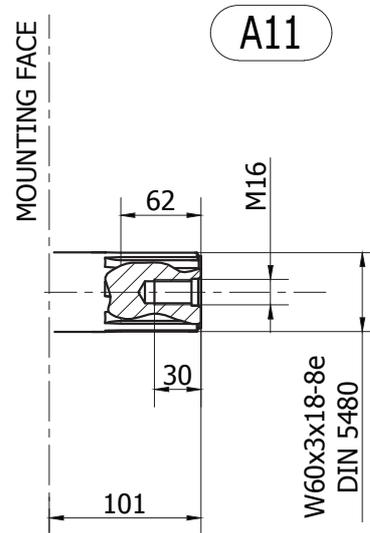
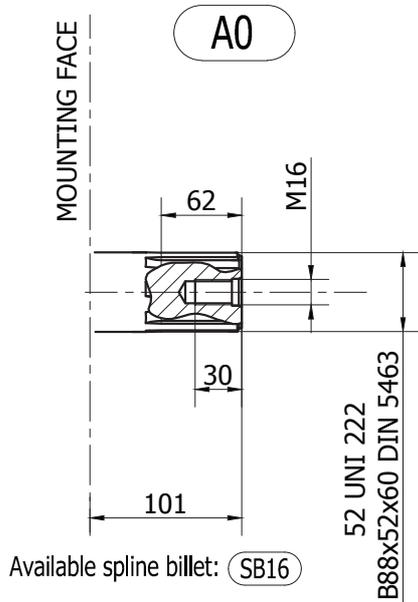
**TECHNICAL DATA**

		<b>700</b>	<b>800</b>	<b>900</b>	<b>1000</b>	<b>1100</b>	<b>1250</b>
DISPLACEMENT	[cc]	714	792	904	992	1116	1247
SPECIFIC TORQUE	[Nm/bar]	11.4	12.6	14.4	15.8	17.8	19.8
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250
HYDROSTATIC TEST PRES-SURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	500	450	450	330	330	250
PEAK SPEED (***)	[rpm]	580	530	530	400	400	300
MAX. CONT. POWER (****)	[kW]	55	55	55	55	55	55
MAX. POWER	[kW]	80	80	80	80	80	80
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

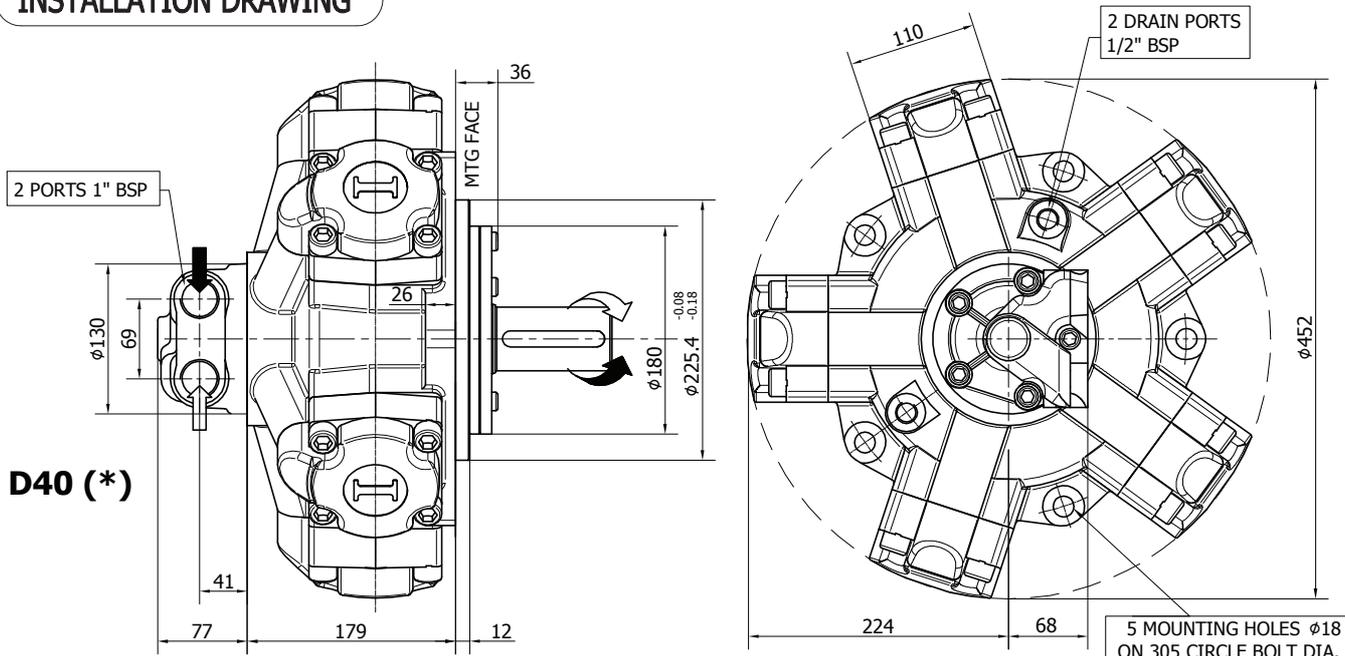
- (\*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (\*\*) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (\*\*\*) Do not exceed maximum power (see pag. 13).
- (\*\*\*\*) For motor operation with 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



**INSTALLATION DRAWING**



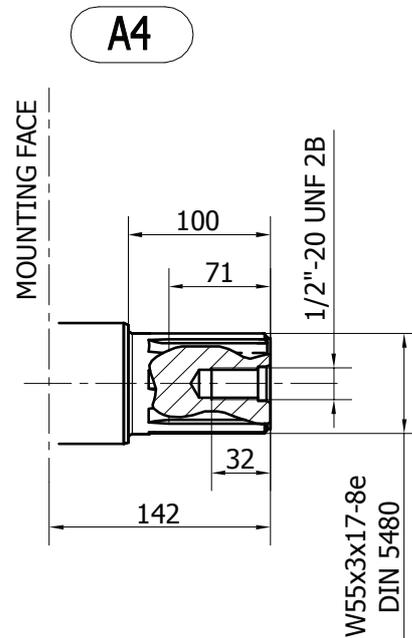
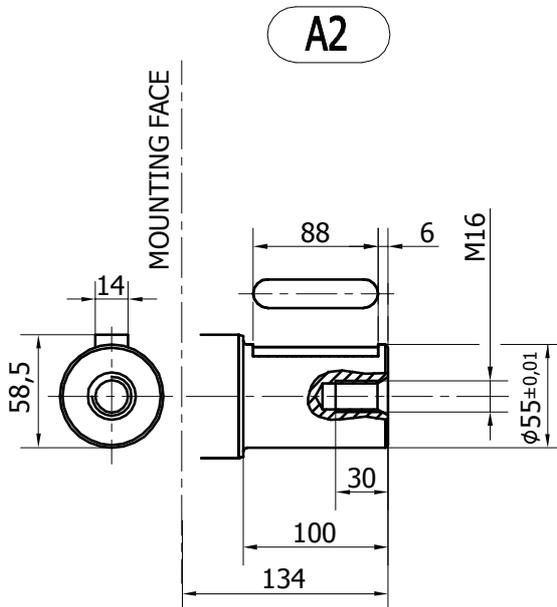
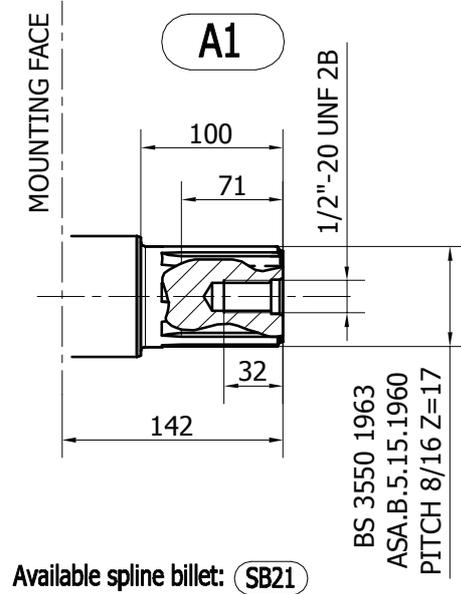
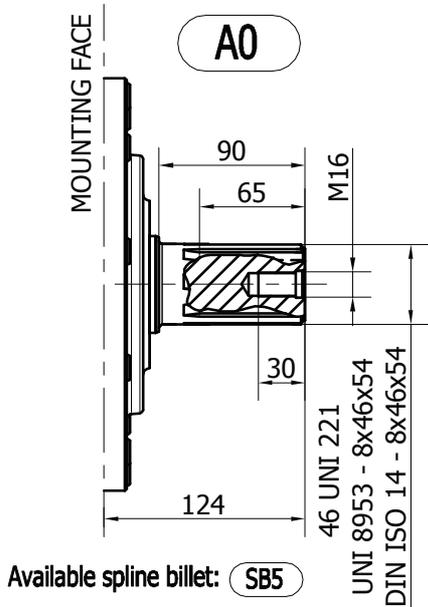
**TECHNICAL DATA**

		<b>700</b>	<b>800</b>	<b>900</b>	<b>1000</b>	<b>1100</b>	<b>1250</b>
DISPLACEMENT	[cc]	714	792	904	992	1116	1247
SPECIFIC TORQUE	[Nm/bar]	11.4	12.6	14.4	15.8	17.8	19.8
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	500	450	450	330	330	250
PEAK SPEED (***)	[rpm]	580	530	530	400	400	300
MAX. CONT. POWER (****)	[kW]	55	55	55	55	55	55
MAX. POWER	[kW]	80	80	80	80	80	80
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

- (\*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (\*\*) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (\*\*\*) Do not exceed maximum power (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.

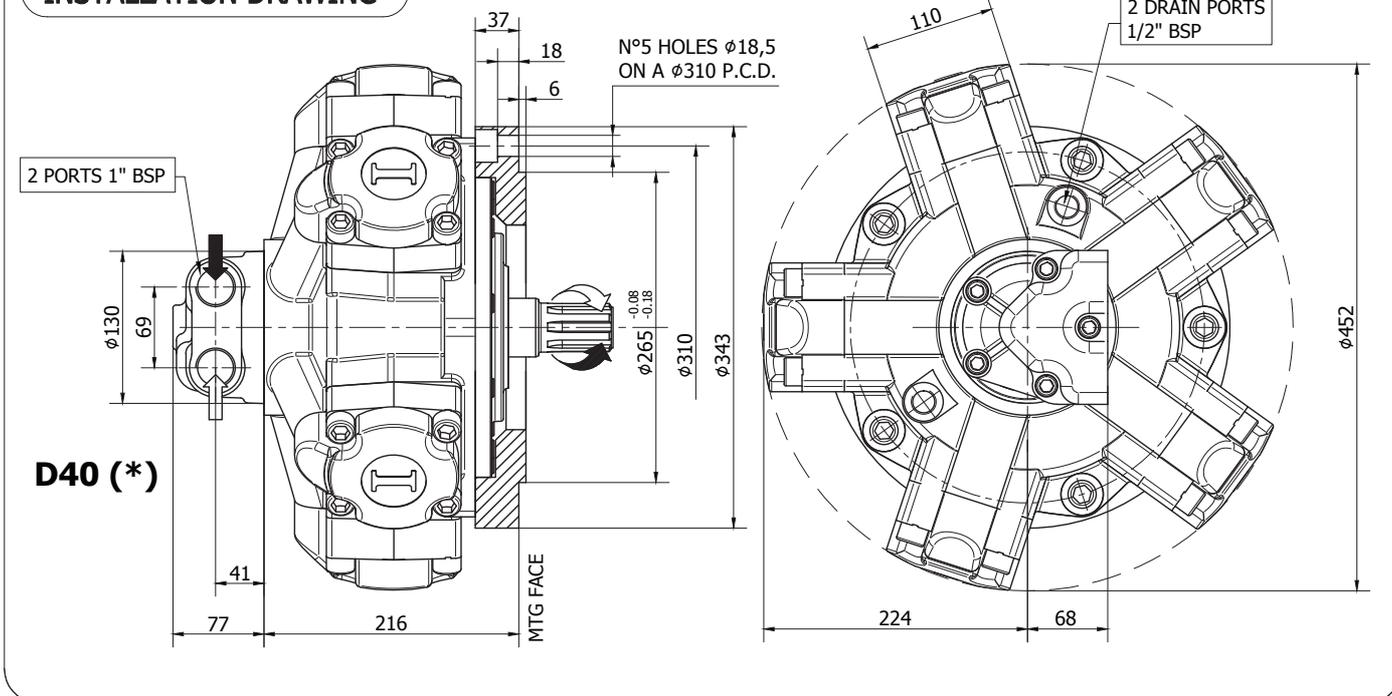
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**INSTALLATION DRAWING**



**TECHNICAL DATA**

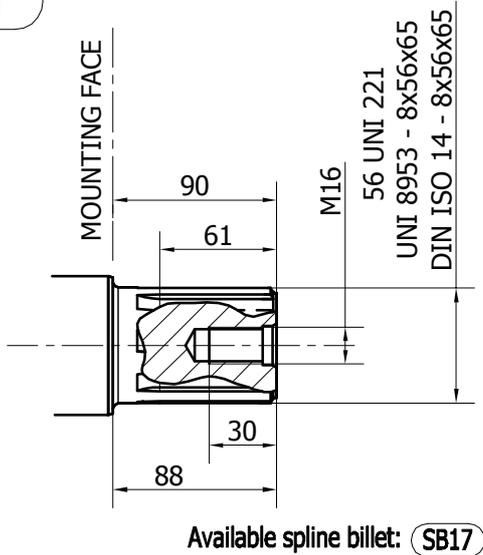
		<b>700</b>	<b>800</b>	<b>900</b>	<b>1000</b>	<b>1100</b>	<b>1250</b>
DISPLACEMENT	[cc]	714	792	904	992	1116	1247
SPECIFIC TORQUE	[Nm/bar]	11.4	12.6	14.4	15.8	17.8	19.8
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250
HYDROSTATIC TEST PRES- SURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	500	450	450	330	330	250
PEAK SPEED (***)	[rpm]	580	530	530	400	400	300
MAX. CONT. POWER (****)	[kW]	55	55	55	55	55	55
MAX. POWER	[kW]	80	80	80	80	80	80
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

- (\*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (\*\*) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (\*\*\*) Do not exceed maximum power (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.

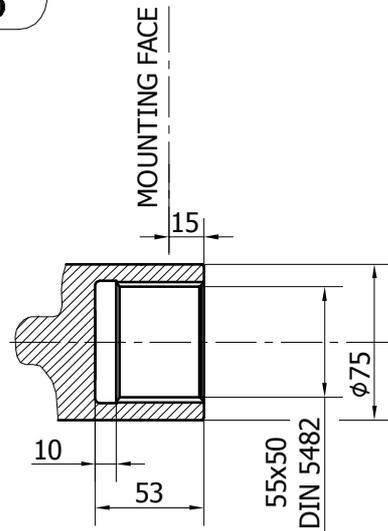
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SHAFT CONFIGURATIONS

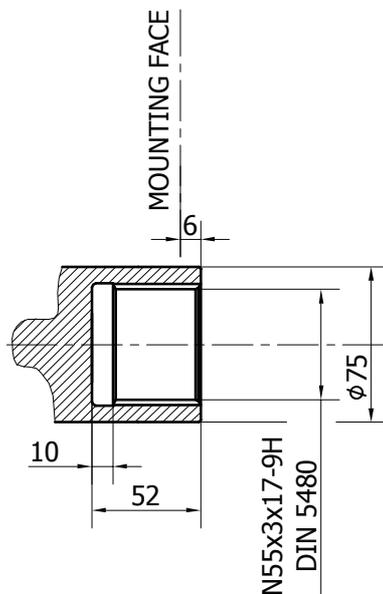
**A0**



**A3**

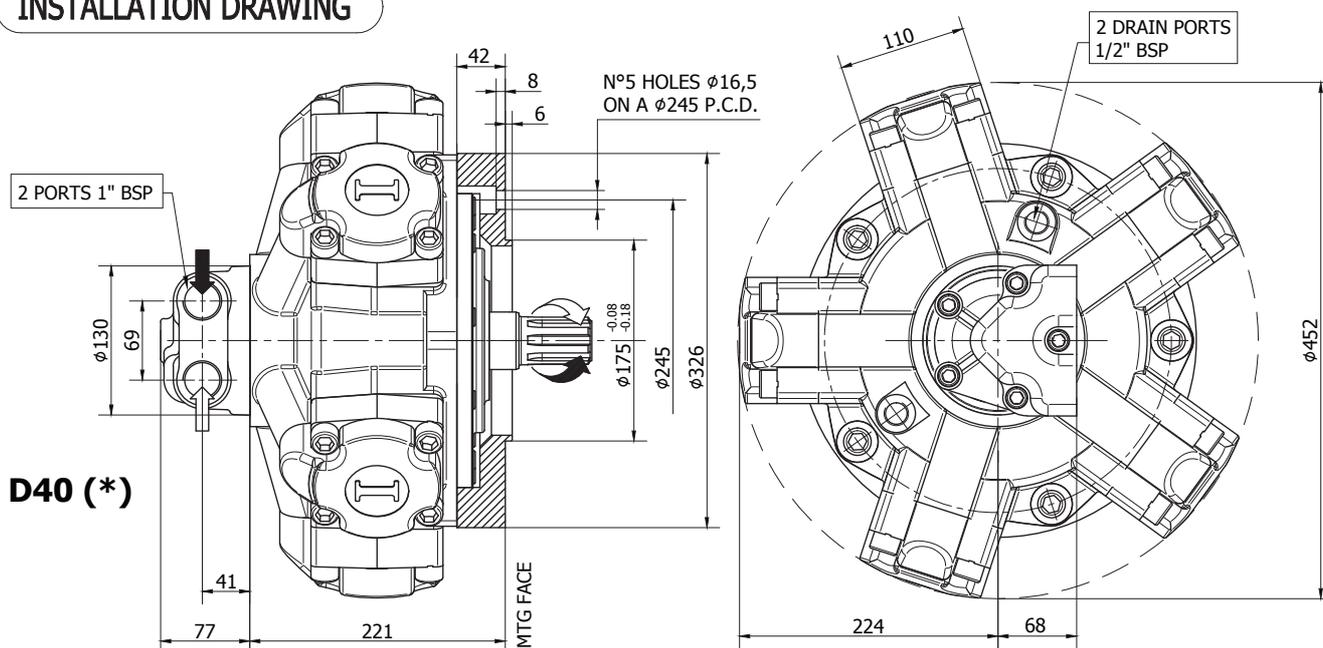


**A31**



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**INSTALLATION DRAWING**



**TECHNICAL DATA**

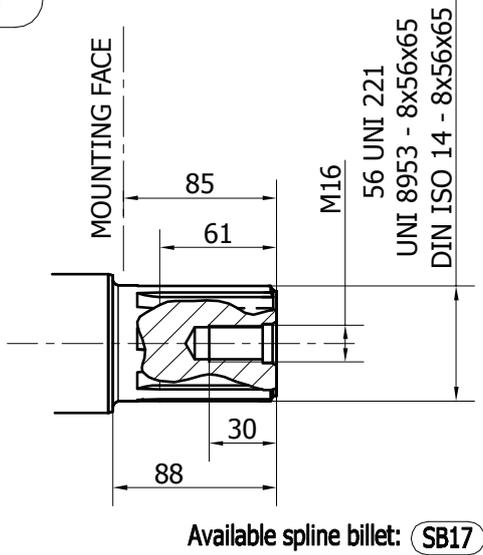
		<b>700</b>	<b>800</b>	<b>900</b>	<b>1000</b>	<b>1100</b>	<b>1250</b>
DISPLACEMENT	[cc]	714	792	904	992	1116	1247
SPECIFIC TORQUE	[Nm/bar]	11.4	12.6	14.4	15.8	17.8	19.8
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250
HYDROSTATIC TEST PRES- SURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	500	450	450	330	330	250
PEAK SPEED (***)	[rpm]	580	530	530	400	400	300
MAX. CONT. POWER (****)	[kW]	55	55	55	55	55	55
MAX. POWER	[kW]	80	80	80	80	80	80
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	92	92	92	92	92	92
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

- (\*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (\*\*) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (\*\*\*) Do not exceed maximum power (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.

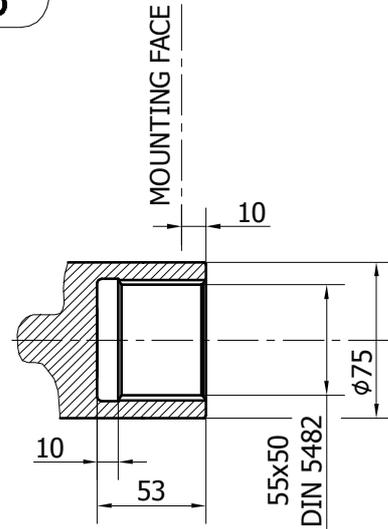
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SHAFT CONFIGURATIONS

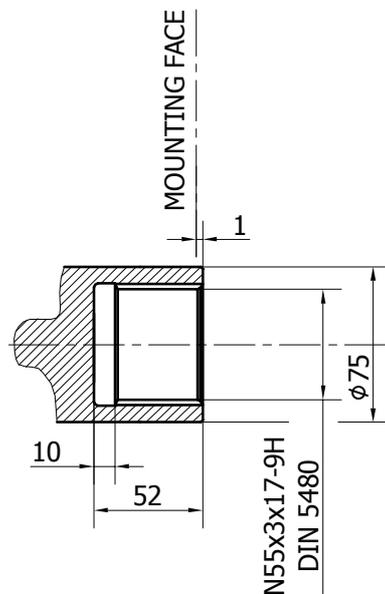
**A0**



**A3**

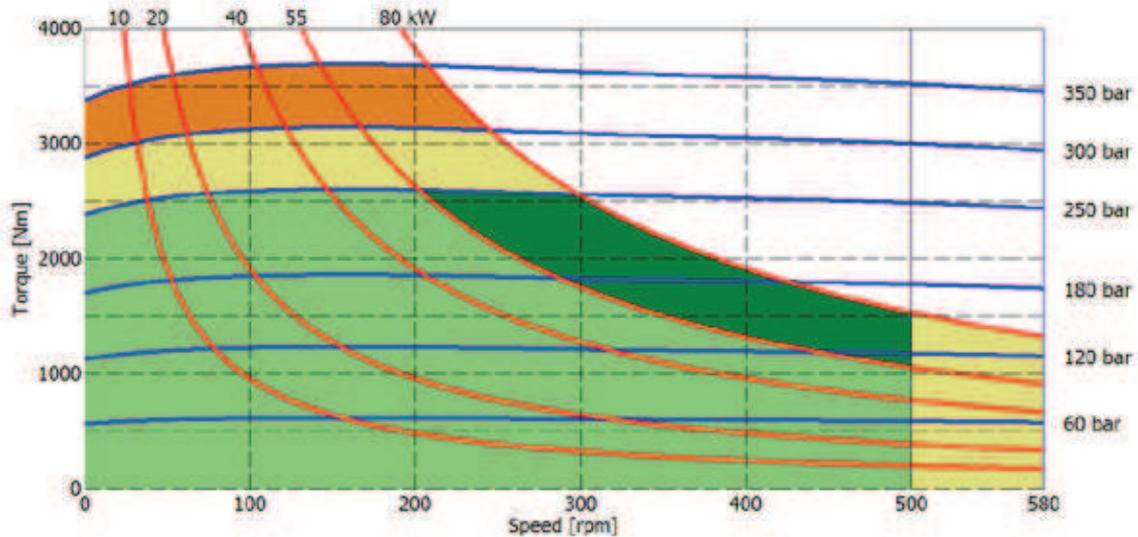


**A31**

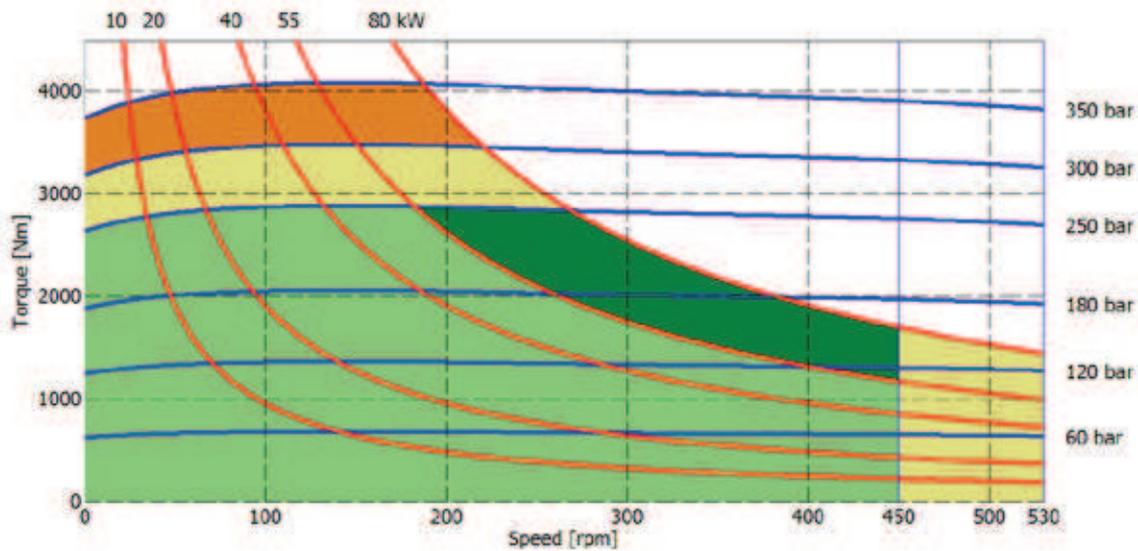


## IAM H4 - PERFORMANCE DIAGRAMS

### 700 cc



### 800 cc



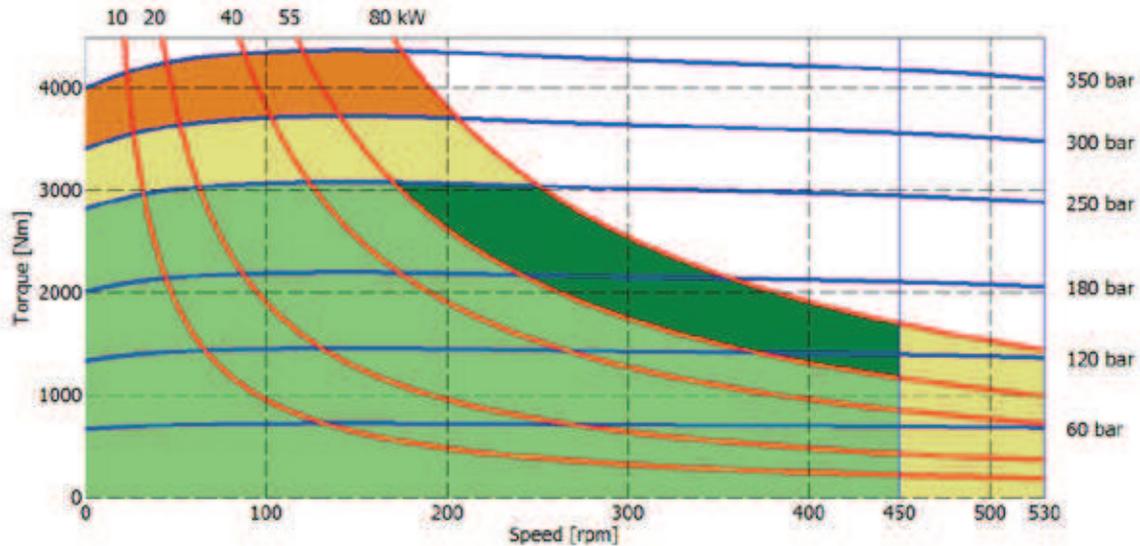
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

**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.

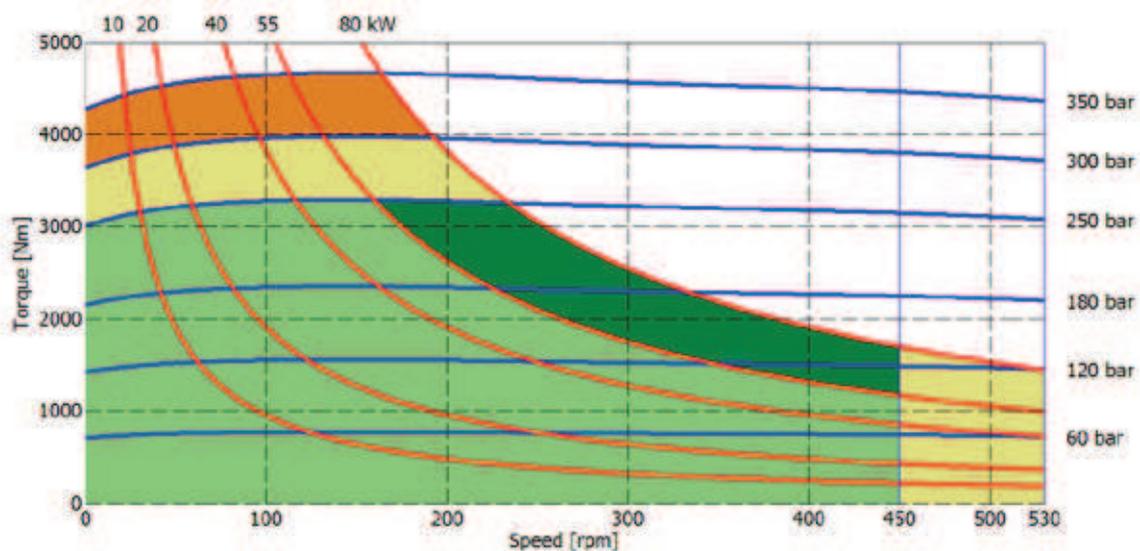
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## IAM H4 - PERFORMANCE DIAGRAMS

### 850 cc



### 900 cc



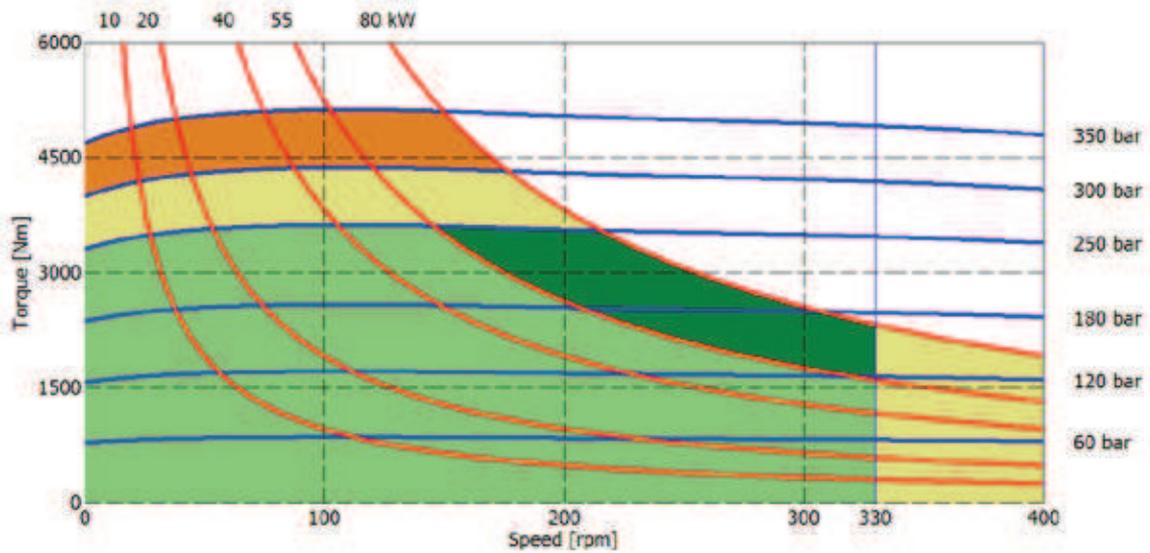
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

**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.

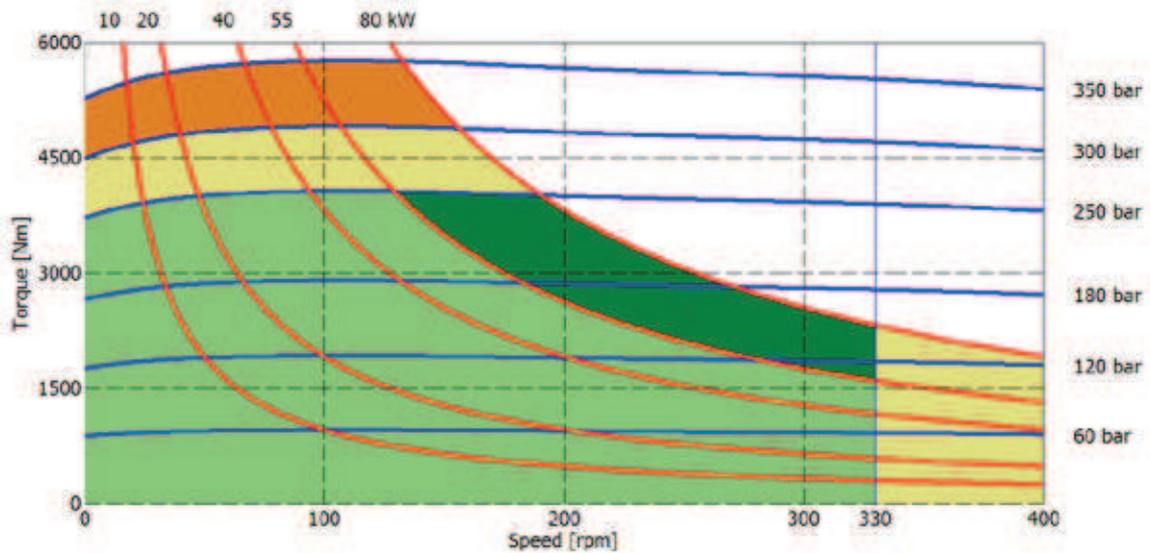
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**IAM H4 - PERFORMANCE DIAGRAMS**

**1000 cc**



**1100 cc**



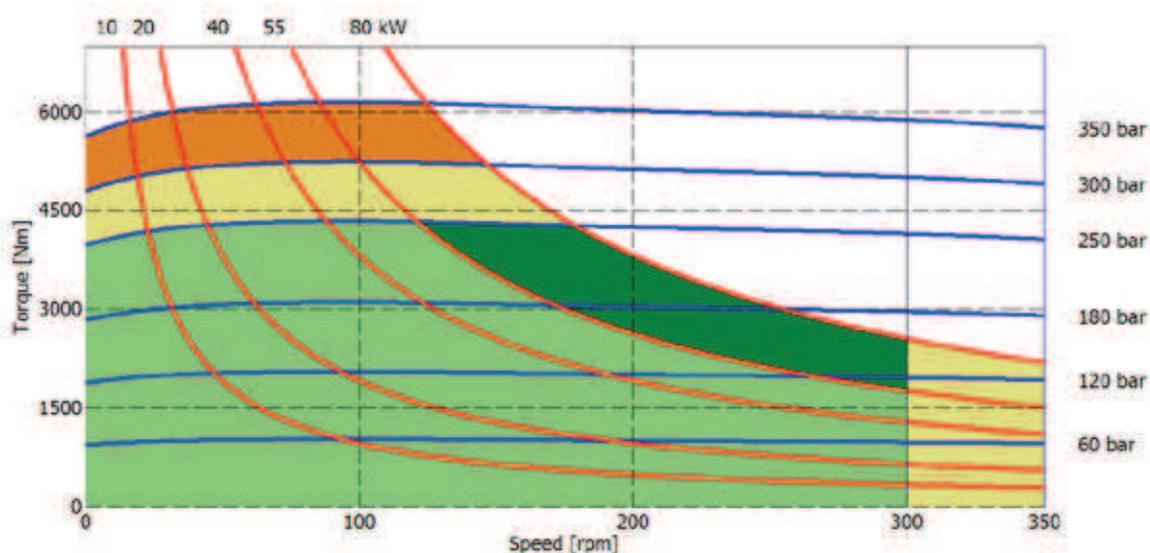
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

**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.

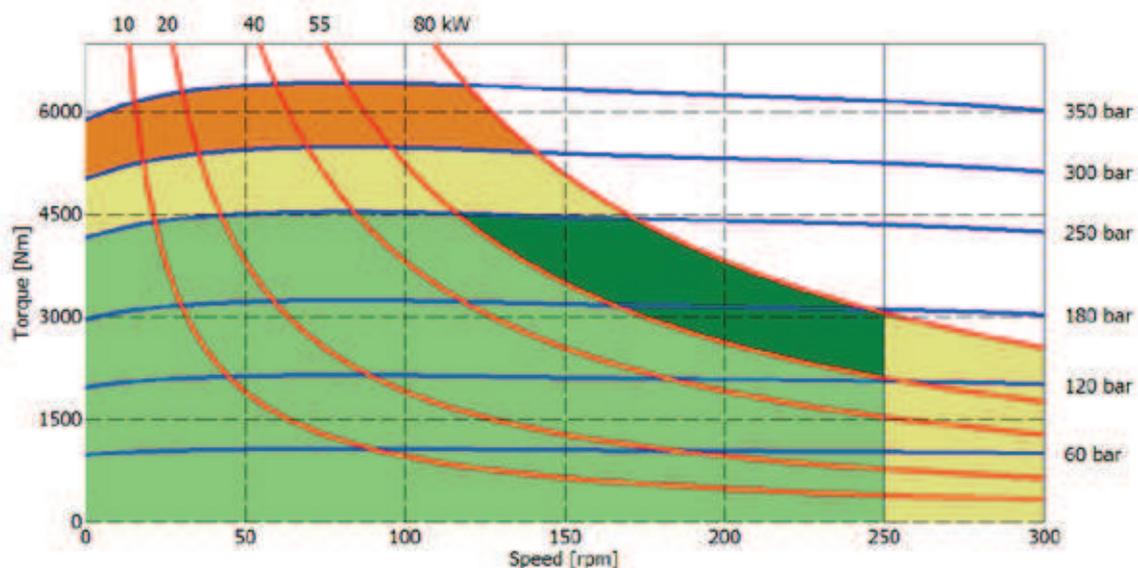
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## IAM H4 - PERFORMANCE DIAGRAMS

### 1200 cc



### 1250 cc

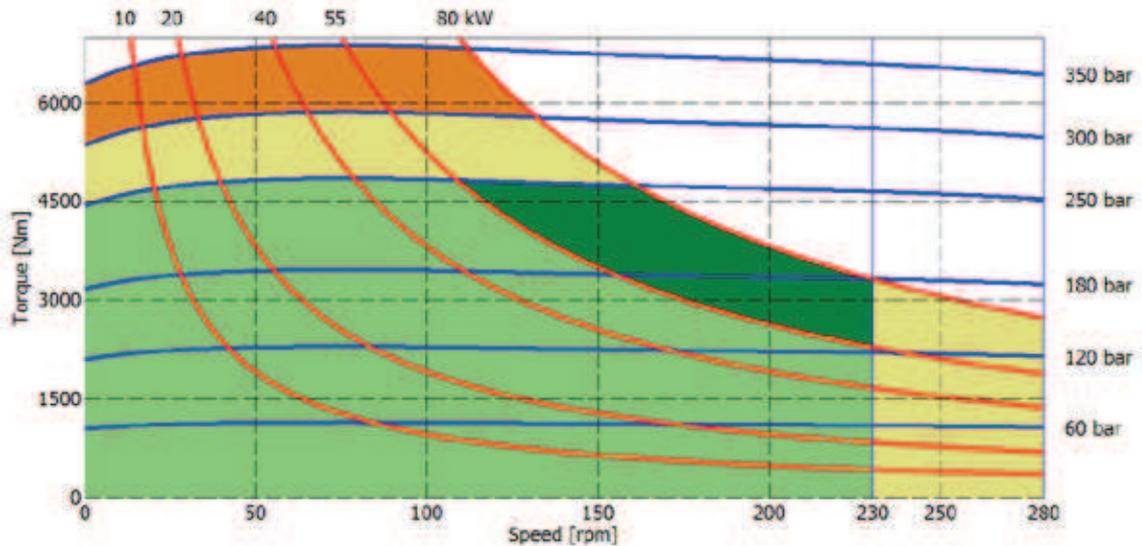


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

**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.

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**1400 cc**

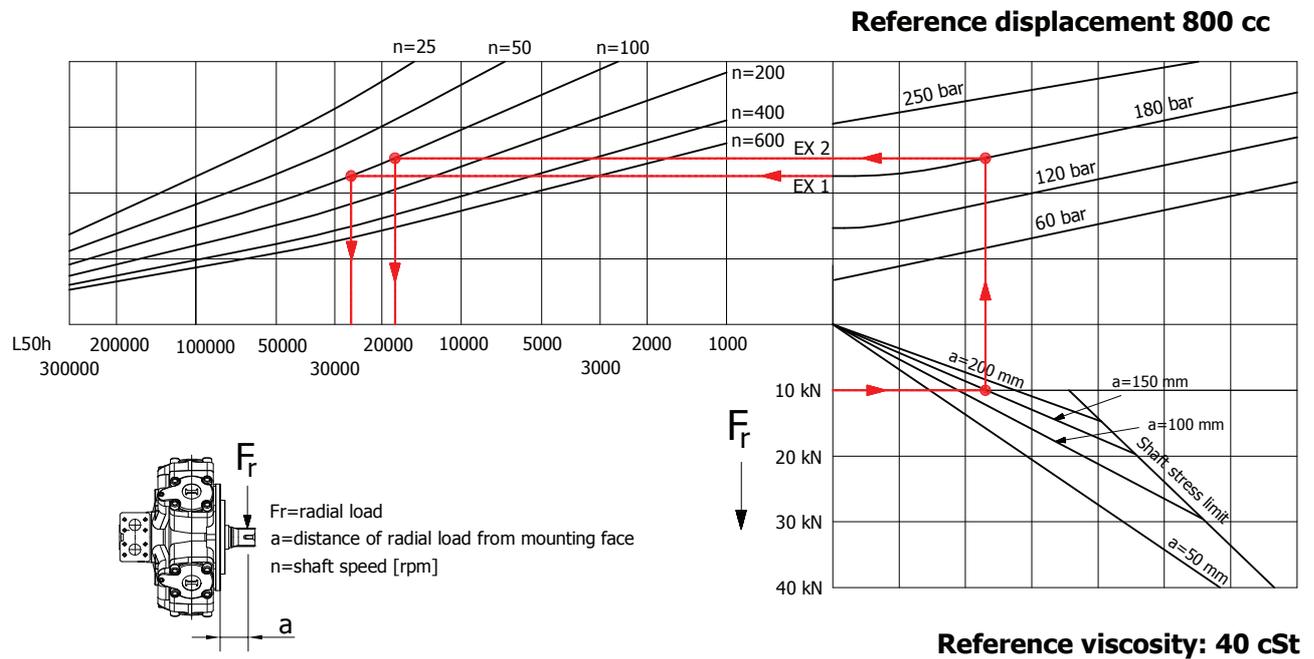


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

**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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## 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].

The above data are referring to the IAM H4 series motors, displacement 800 cc.

## IAM H4 - ORDERING CODE

