
ITALGROUP SRL

IAMD SERIES - IAMD H5

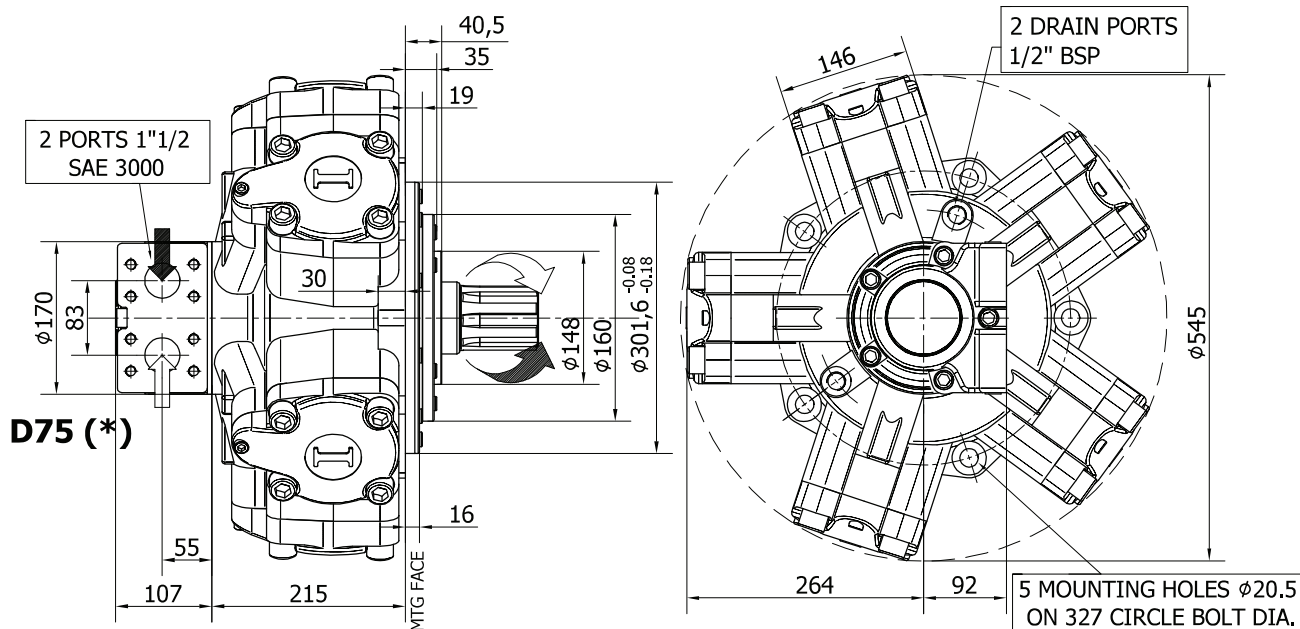
GENERAL CATALOGUE

INDEX - IAMD H5

IAMD H5 - INSTALLATION DRAWINGS	Pag	72 - 73
IAMD H5 900-1000-1200-1400-1500/C INSTALLATION DRAWINGS	"	74 - 75
IAMD H5 1600-1800-2000/C INSTALLATION DRAWINGS	"	76 - 77
IAMD H5/S - H5/GM5 - INSTALLATION DRAWINGS	"	78 - 79
IAMD H5/RM - INSTALLATION DRAWINGS	"	80 - 81
IAMD H5/SX508 - INSTALLATION DRAWINGS	"	82 - 83
IAMD H5 - PERFORMANCE DIAGRAMS	"	84 - 88
IAMD H5 - ORDERING CODE	"	89

INSTALLATION DRAWING

Available distributor flanges: **FL5** **FL6**
for S03 and S04, refer to page 156 (distributor fitting D75)



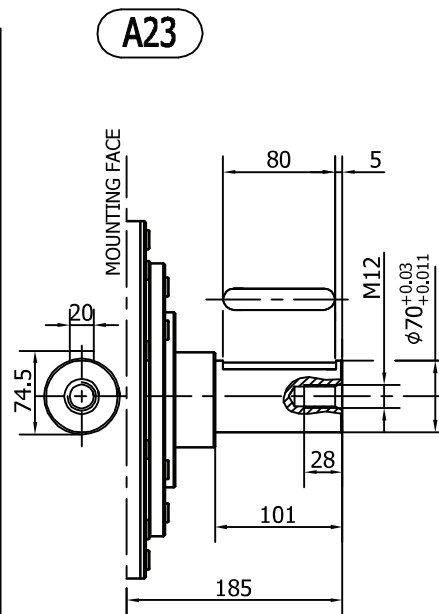
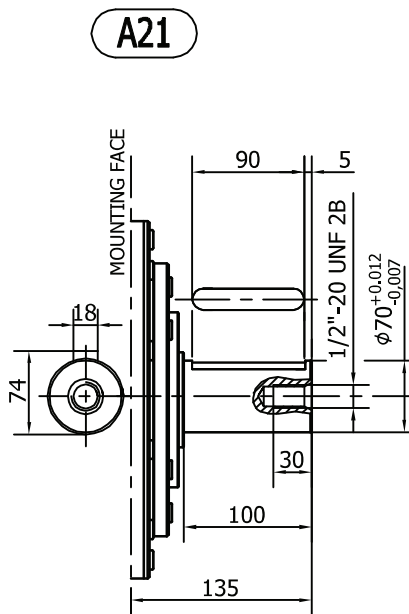
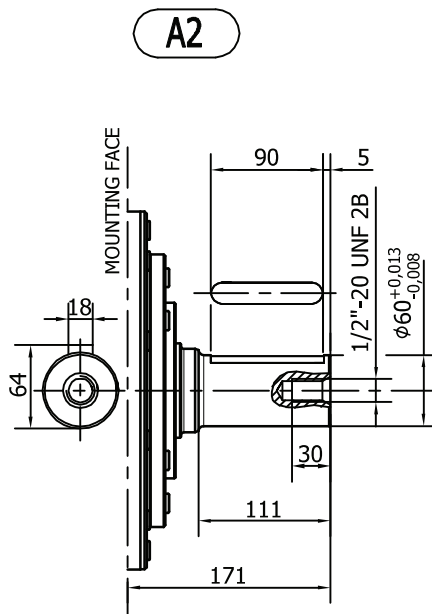
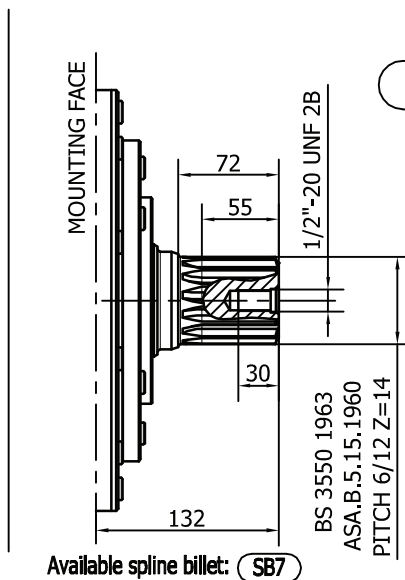
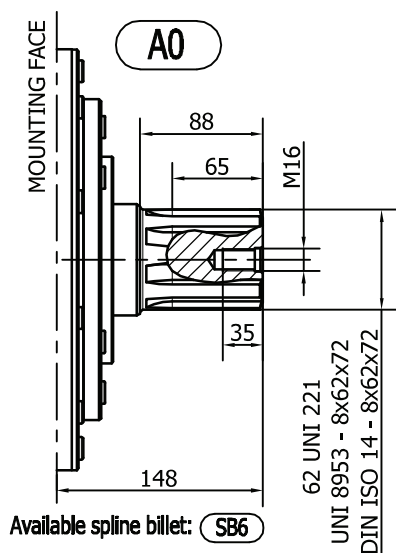
TECHNICAL DATA

		900	1000	1200	1400	1500	1600	1800	2000
DISPLACEMENT	[cc]	941	1094	1231	1376	1528	1648	1815	2034
SPECIFIC TORQUE	[Nm/bar]	15	17.4	19.6	21.9	24.3	26.2	28.9	32.4
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	250	190
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	550	500	450	410	390	370	340	280
PEAK SPEED (***)	[rpm]	600	550	510	470	450	425	390	310
MAX. CONT. POWER (****)	[kW]	165	165	165	165	165	165	165	140
MAX. CONT. POWER WITH FLUSHING	[kW]	200	200	200	200	200	200	200	160
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. 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.

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

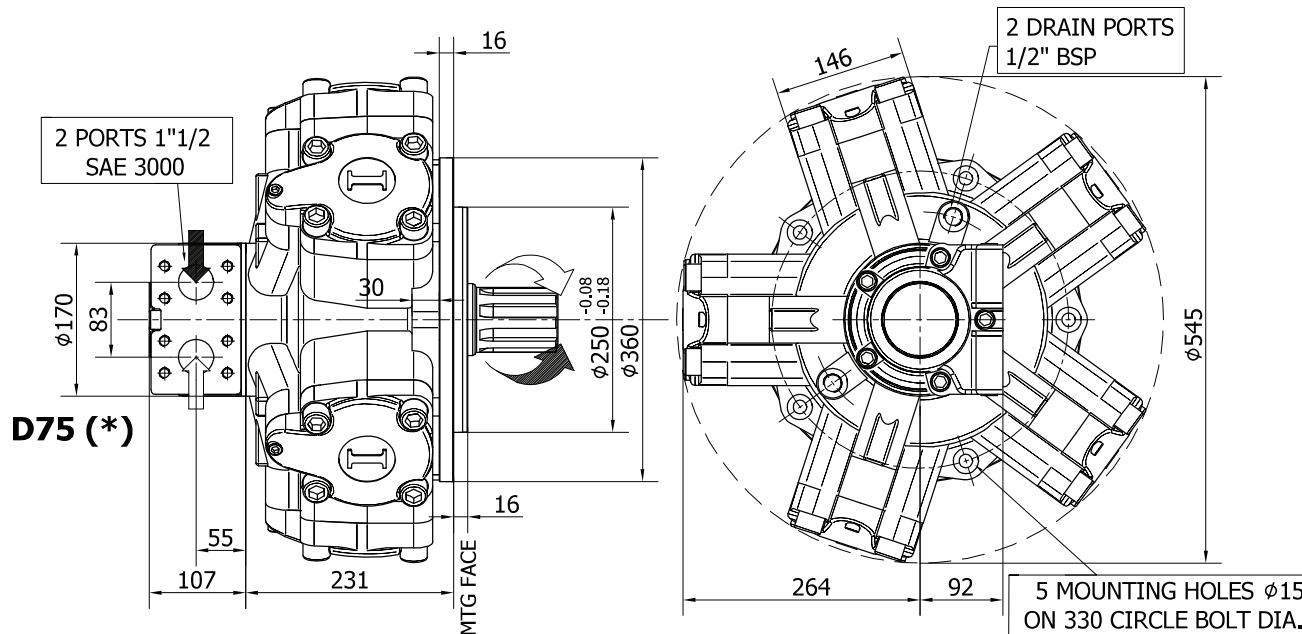
SHAFT CONFIGURATIONS



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.

INSTALLATION DRAWING

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



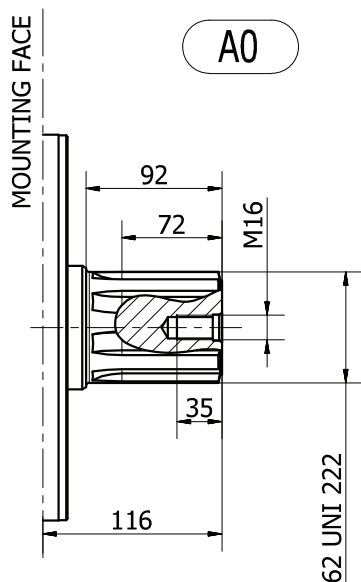
TECHNICAL DATA

		900	1000	1200	1400	1500
DISPLACEMENT	[cc]	941	1094	1231	1376	1528
SPECIFIC TORQUE	[Nm/bar]	15	17.4	19.6	21.9	24.3
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270
HYDROSTATIC TEST PRES-SURE	[bar]	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	550	500	450	410	390
PEAK SPEED (***)	[rpm]	600	550	510	470	450
MAX. CONT. POWER (****)	[kW]	165	165	165	165	165
MAX. CONT. POWER WITH FLUSHING	[kW]	200	200	200	200	200
MAX. CASE PRESSURE	[bar]	6	6	6	6	6
DRY WEIGHT	[kg]	173	173	173	173	173
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

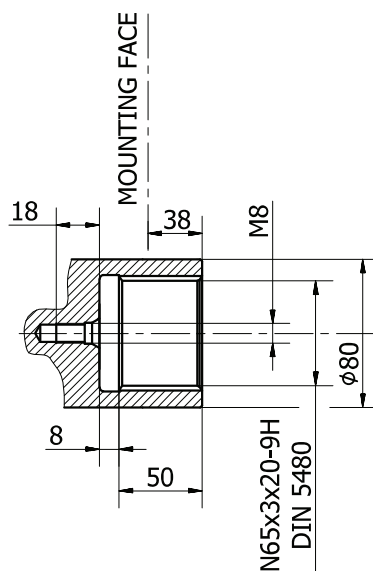
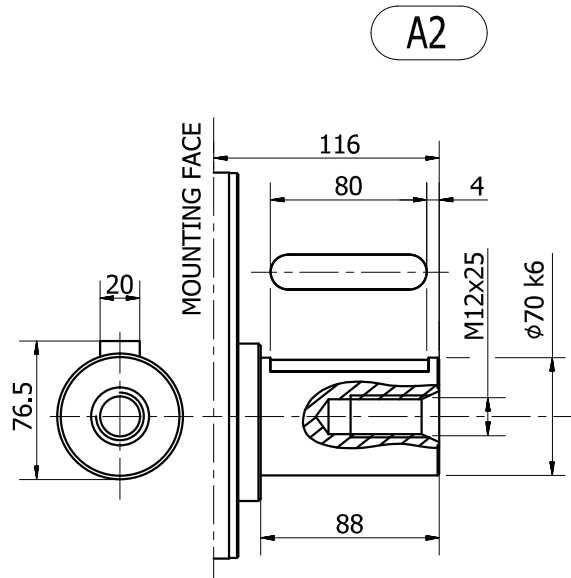
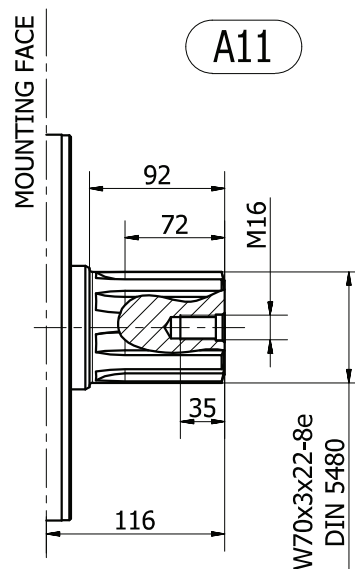
- (*) The standard distributor (D75) is shown. Please refer to distributors section (pag. 148-149) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum continuous power with flushing (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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

SHAFT CONFIGURATIONS



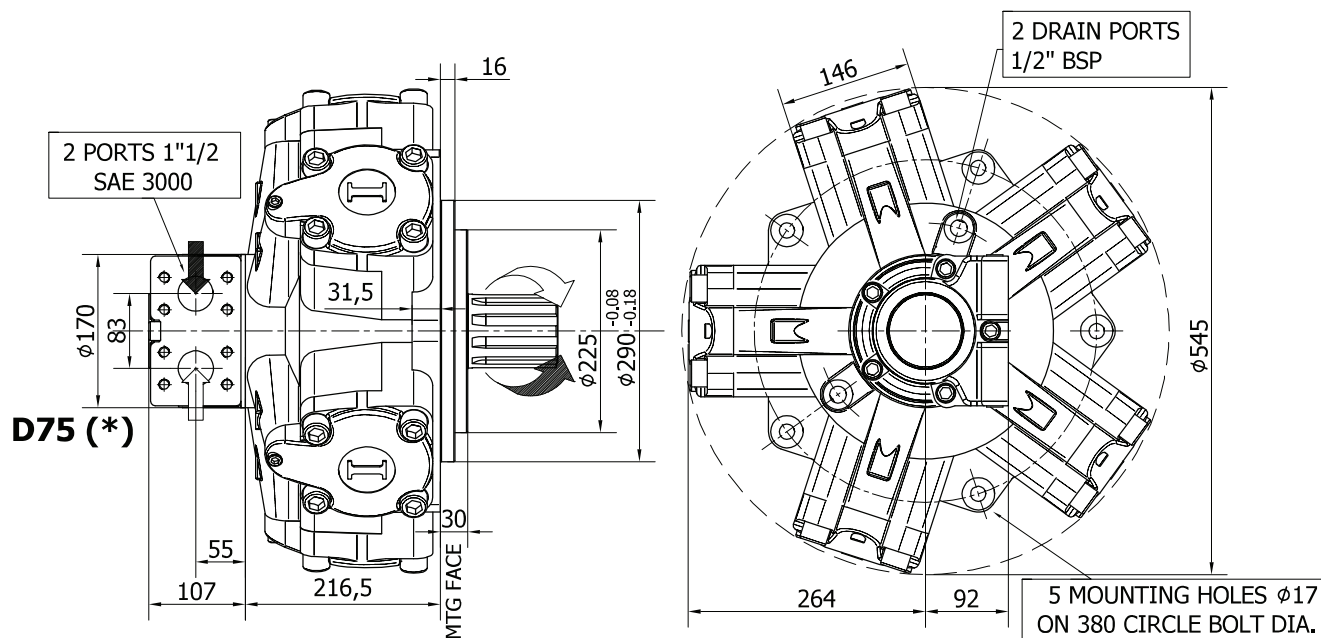
Available spline billet: **SB6**



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.

INSTALLATION DRAWING

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



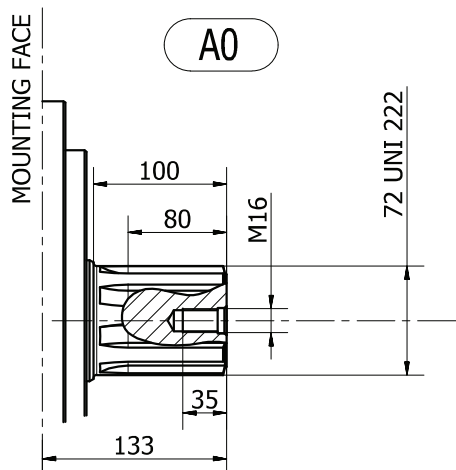
TECHNICAL DATA

		1600	1800	2000
DISPLACEMENT	[cc]	1648	1815	2034
SPECIFIC TORQUE	[Nm/bar]	26.2	28.9	32.4
MAX. CONT. PRESSURE	[bar]	270	250	190
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420
MAX. CONT. SPEED	[rpm]	370	340	280
PEAK SPEED (***)	[rpm]	425	390	310
MAX. CONT. POWER (****)	[kW]	165	165	140
MAX. CONT. POWER WITH FLUSHING	[kW]	200	200	160
MAX. CASE PRESSURE	[bar]	6	6	6
DRY WEIGHT	[kg]	173	173	173
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70

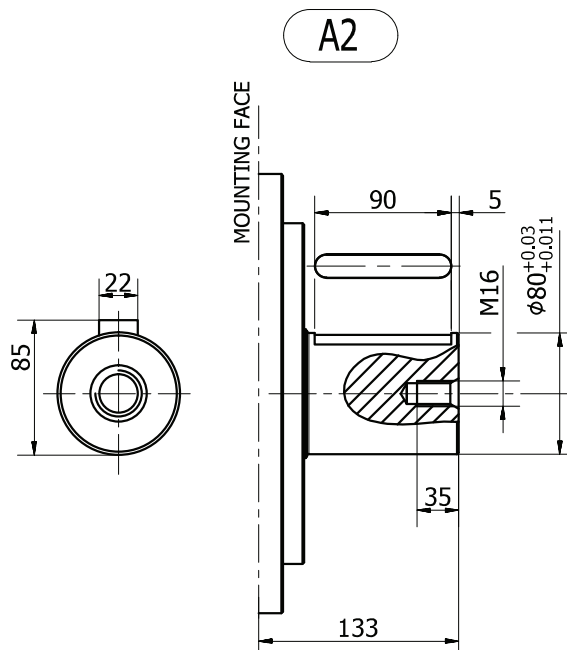
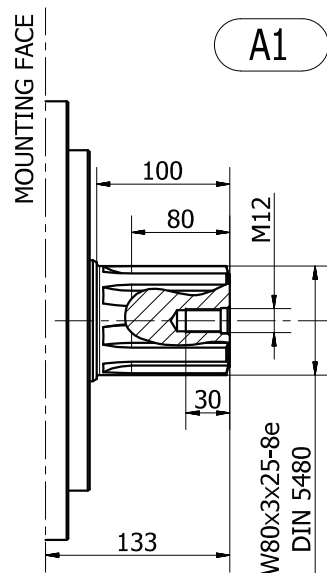
- (*) The standard distributor (D75) is shown. Please refer to distributors section (pag. 148-149) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum continuous power with flushing (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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

SHAFT CONFIGURATIONS

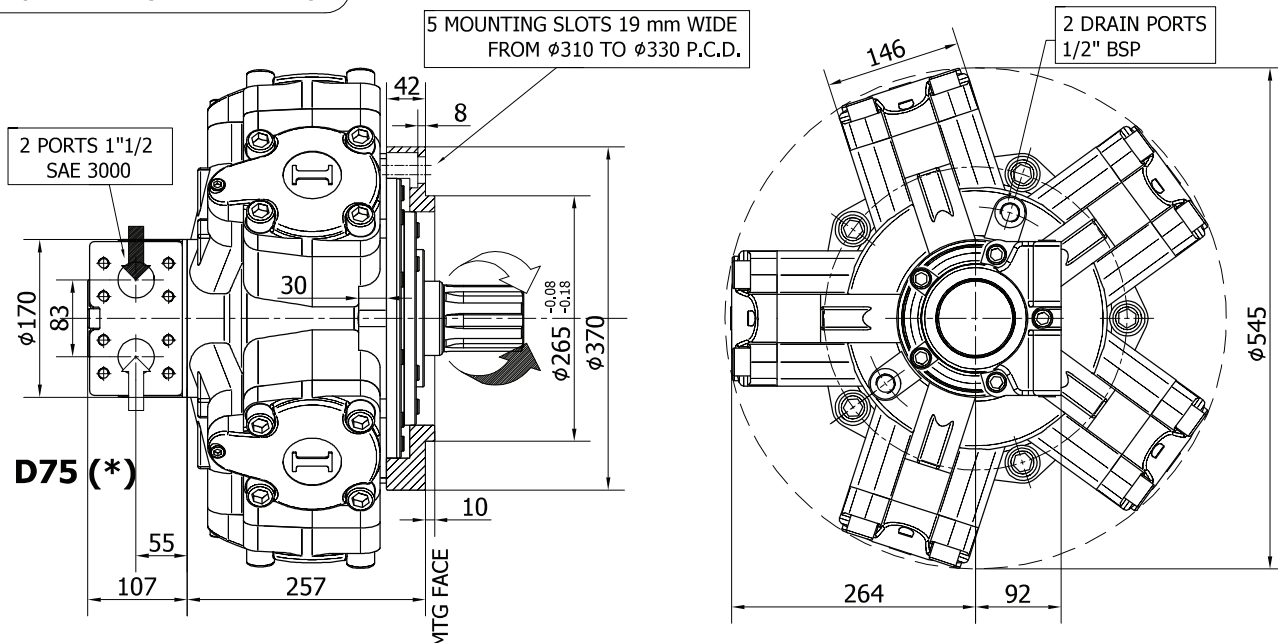


Available spline billet: **SB8**



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.

INSTALLATION DRAWING



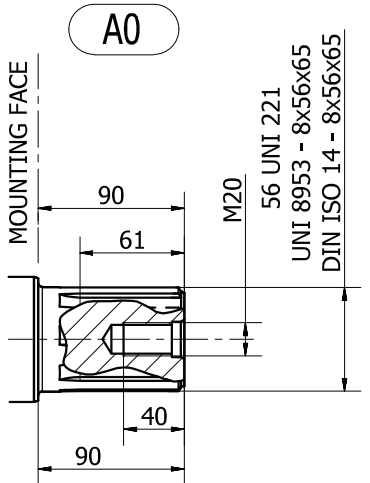
TECHNICAL DATA

		900	1000	1200	1400	1500	1600	1800	2000
DISPLACEMENT	[cc]	941	1094	1231	1376	1528	1648	1815	2034
SPECIFIC TORQUE	[Nm/bar]	15	17.4	19.6	21.9	24.3	26.2	28.9	32.4
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	250	190
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	550	500	450	410	390	370	340	280
PEAK SPEED (***)	[rpm]	600	550	510	470	450	425	390	310
MAX. CONT. POWER (****)	[kW]	165	165	165	165	165	165	165	140
MAX. CONT. POWER WITH FLUSHING	[kW]	200	200	200	200	200	200	200	160
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

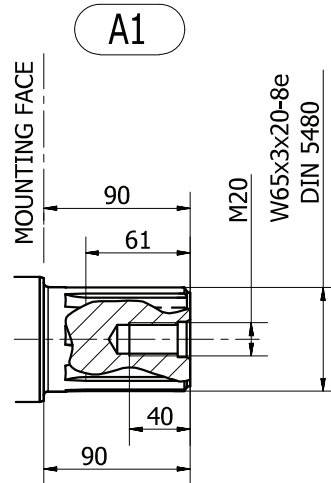
- (*) The standard distributor (D75) is shown. Please refer to distributors section (pag. 148-149) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum continuous power with flushing (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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

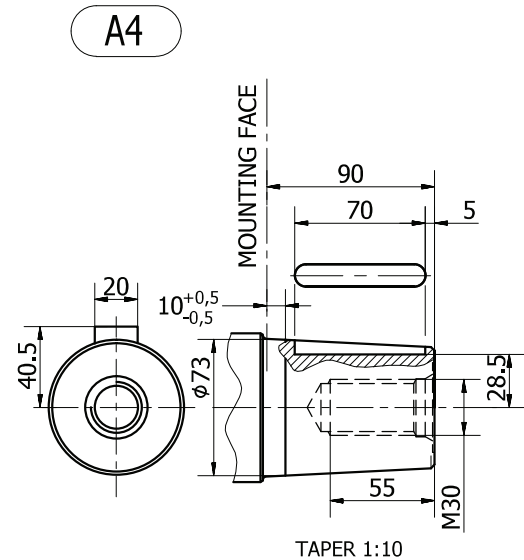
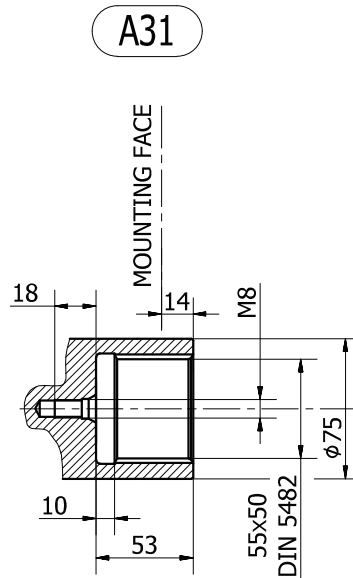
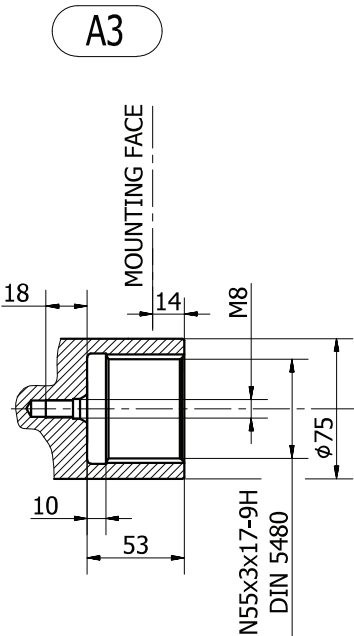
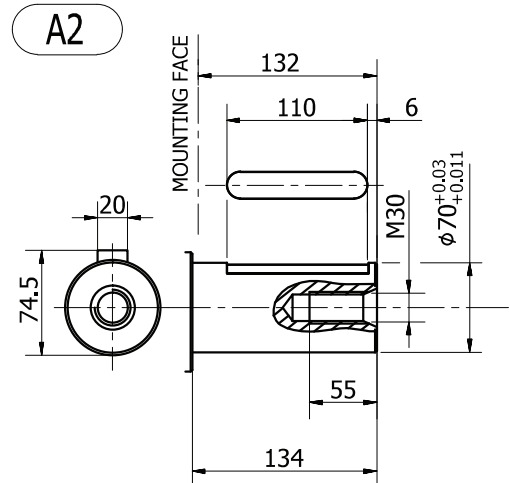
SHAFT CONFIGURATIONS



Available spline billet: (SB17)

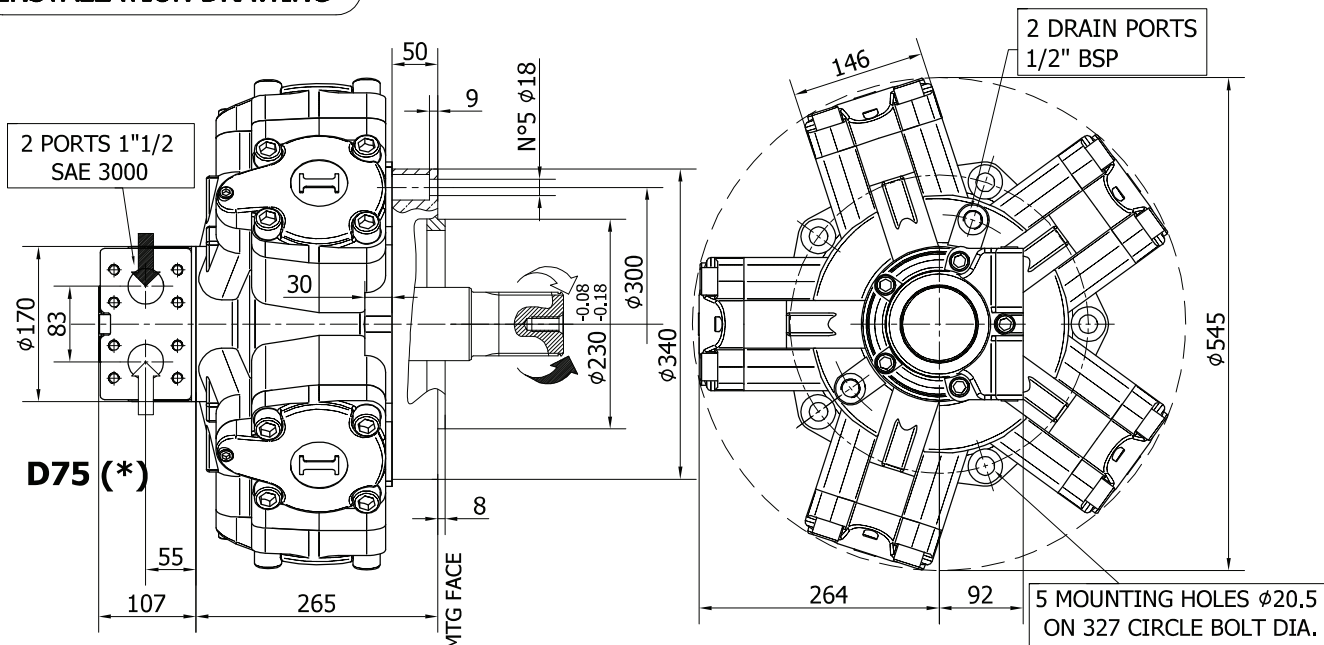


Available spline billet: (SB23)



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.

INSTALLATION DRAWING



TECHNICAL DATA

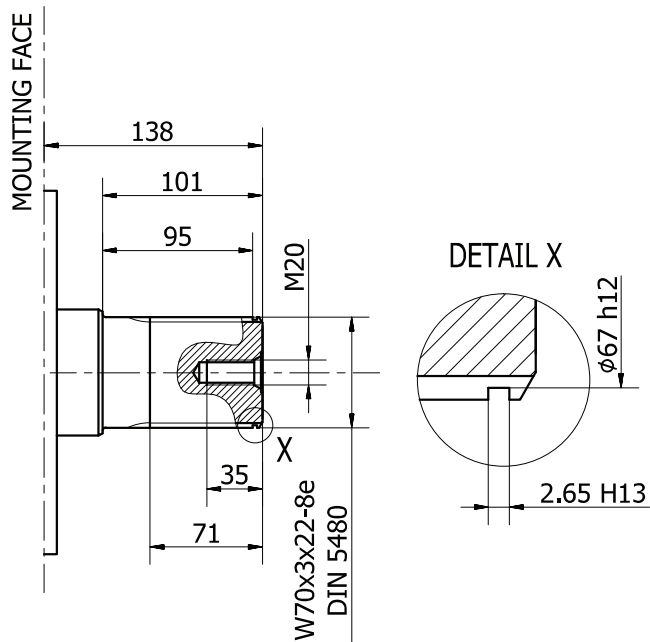
		900	1000	1200	1400	1500	1600	1800	2000
DISPLACEMENT	[cc]	941	1094	1231	1376	1528	1648	1815	2034
SPECIFIC TORQUE	[Nm/bar]	15	17.4	19.6	21.9	24.3	26.2	28.9	32.4
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	250	190
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	550	500	450	410	390	370	340	280
PEAK SPEED (***)	[rpm]	600	550	510	470	450	425	390	310
MAX. CONT. POWER (****)	[kW]	165	165	165	165	165	165	165	140
MAX. CONT. POWER WITH FLUSHING	[kW]	200	200	200	200	200	200	200	160
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. 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.

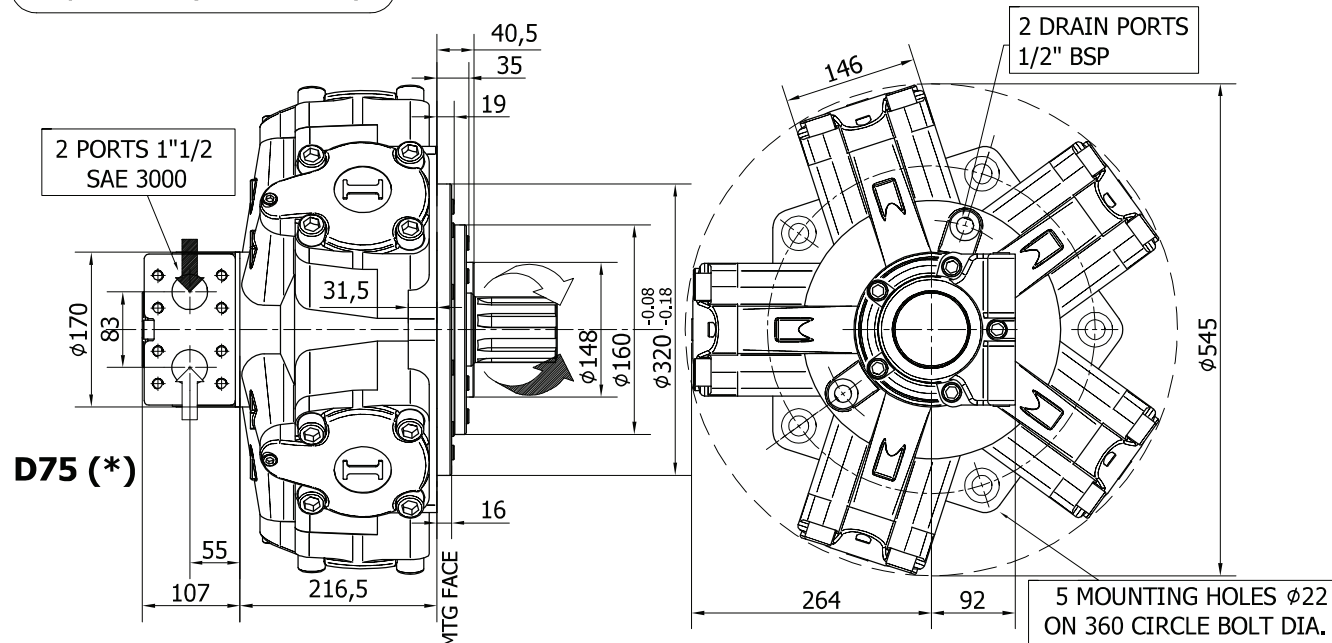
The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgrou S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization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

SHAFT CONFIGURATIONS

A1



INSTALLATION DRAWING



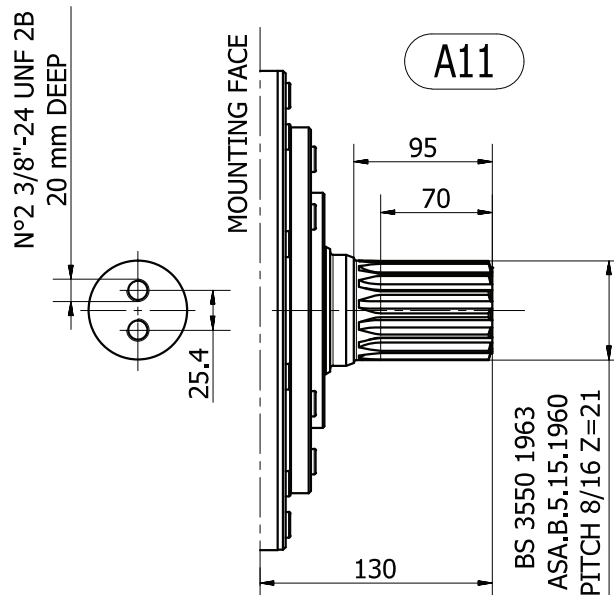
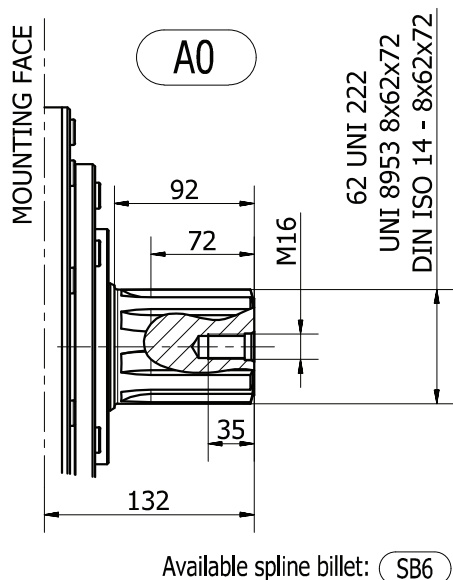
TECHNICAL DATA

		900	1000	1200	1400	1500	1600	1800	2000
DISPLACEMENT	[cc]	941	1094	1231	1376	1528	1648	1815	2034
SPECIFIC TORQUE	[Nm/bar]	15	17.4	19.6	21.9	24.3	26.2	28.9	32.4
MAX. CONT. PRESSURE	[bar]	270	270	270	270	270	270	250	190
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	550	500	450	410	390	370	340	280
PEAK SPEED (***)	[rpm]	600	550	510	470	450	425	390	310
MAX. CONT. POWER (****)	[kW]	165	165	165	165	165	165	165	140
MAX. CONT. POWER WITH FLUSHING	[kW]	200	200	200	200	200	200	200	160
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

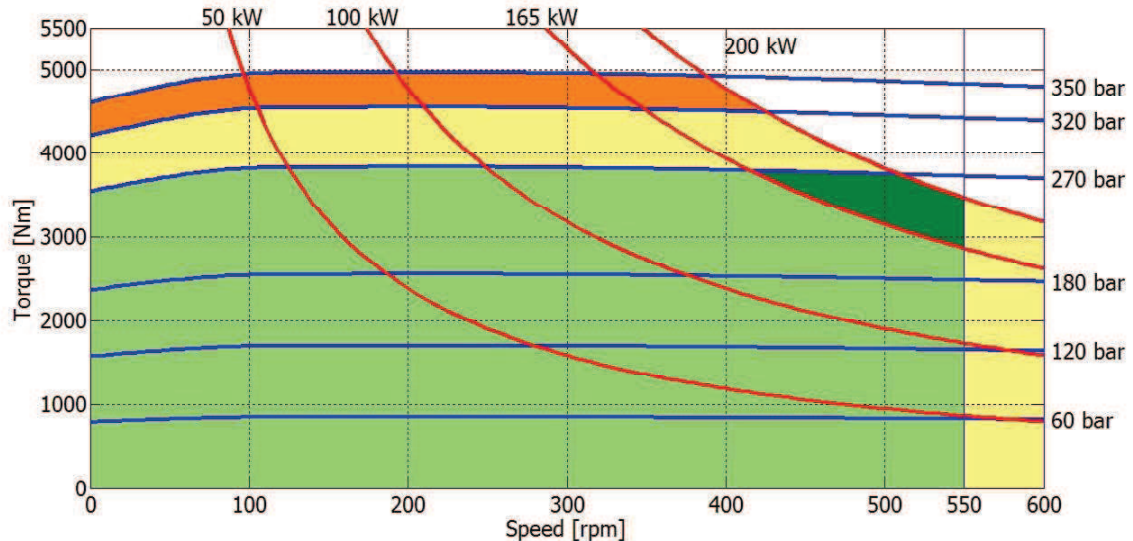
- (*) The standard distributor (D75) is shown. Please refer to distributors section (pag. 148-149) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum continuous power with flushing (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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

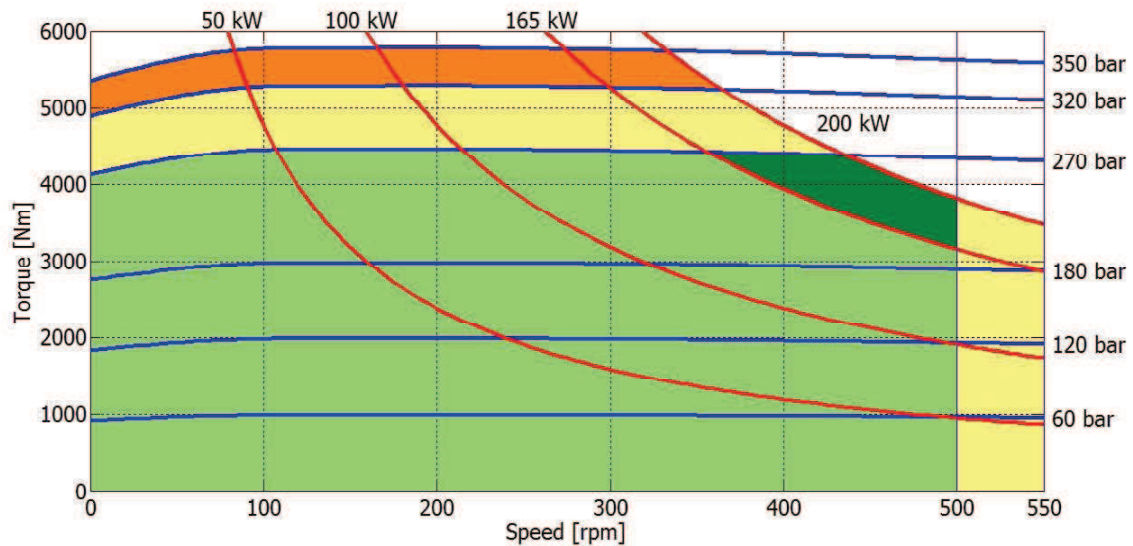
SHAFT CONFIGURATIONS



900 cc



1000 cc



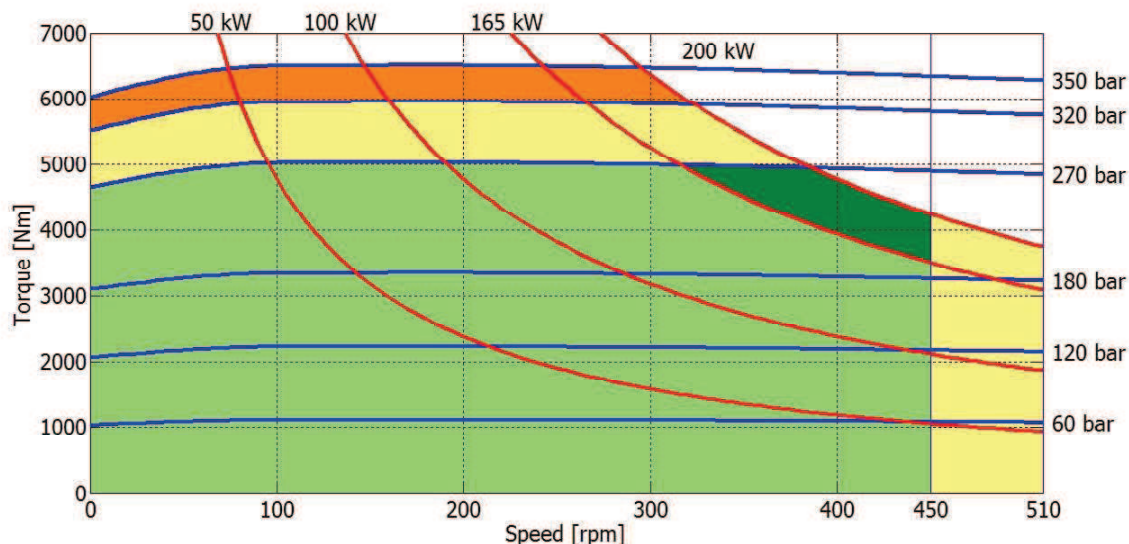
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

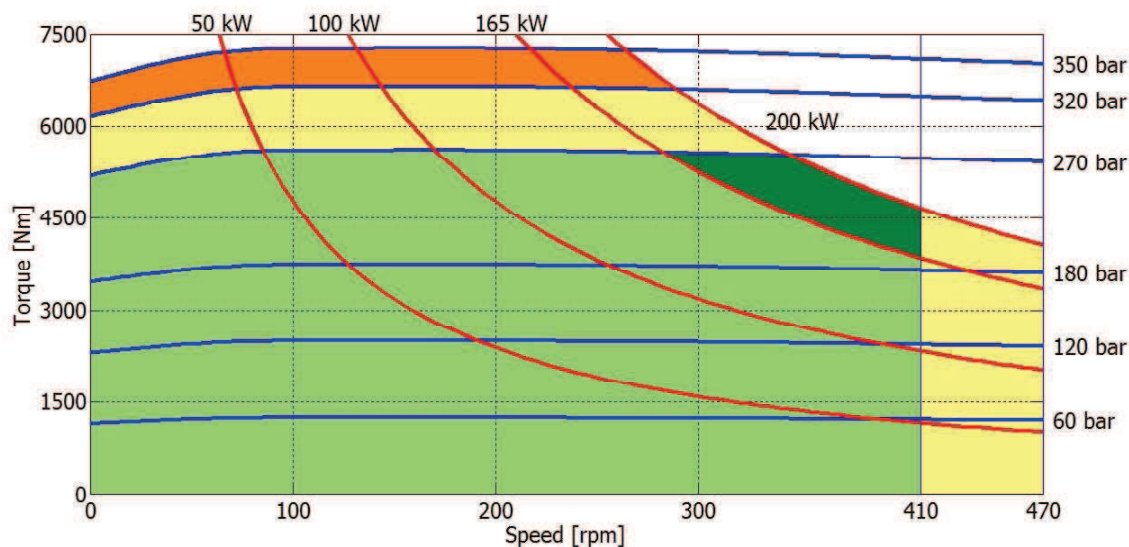
The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroupp S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization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

IAMD H5 - PERFORMANCE DIAGRAMS

1200 cc



1400 cc



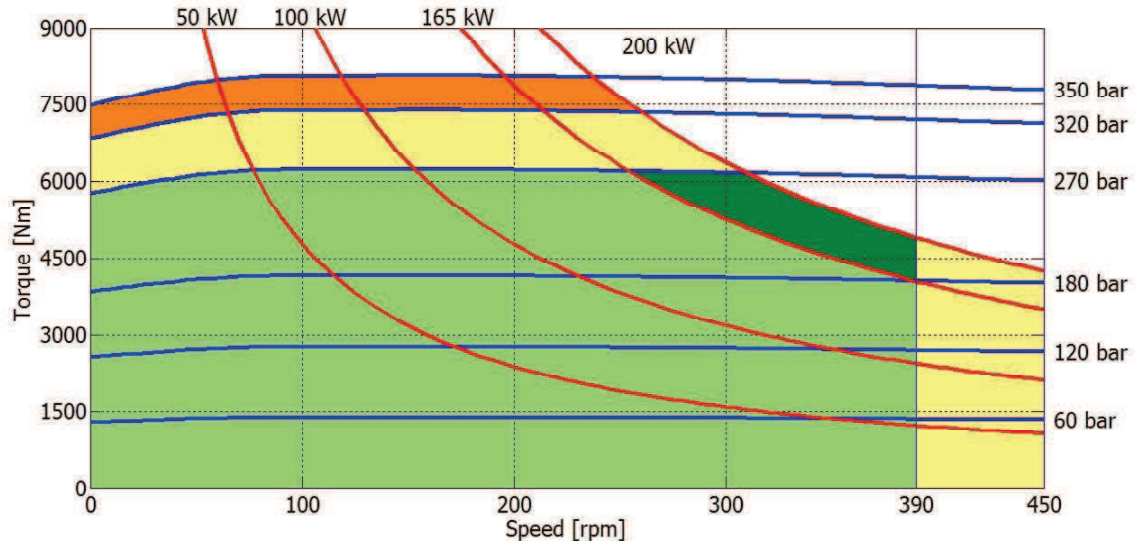
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

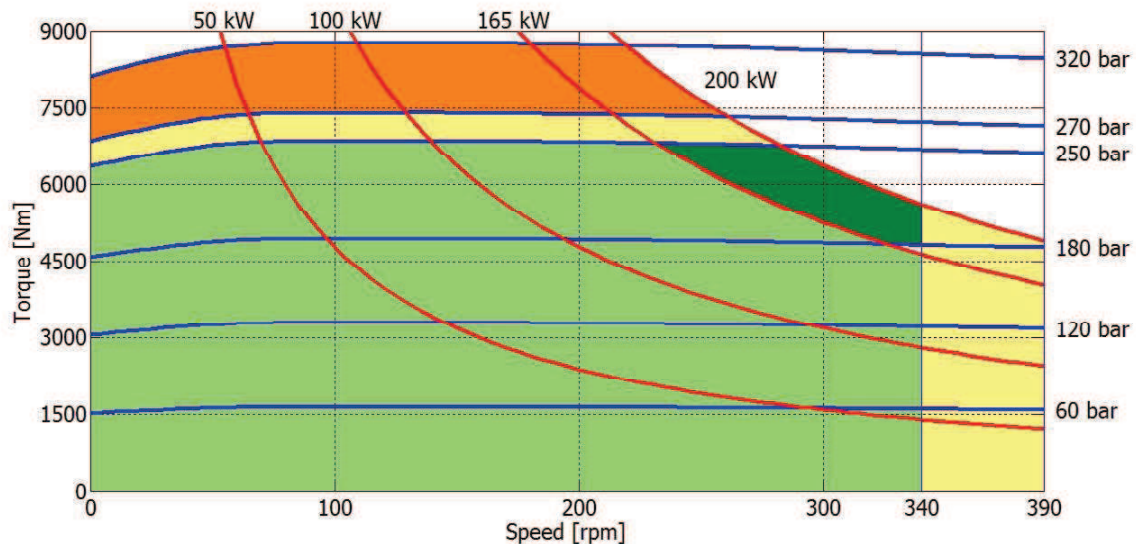
The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgroup S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization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

IAMD H5 - PERFORMANCE DIAGRAMS

1500 cc



1600 cc



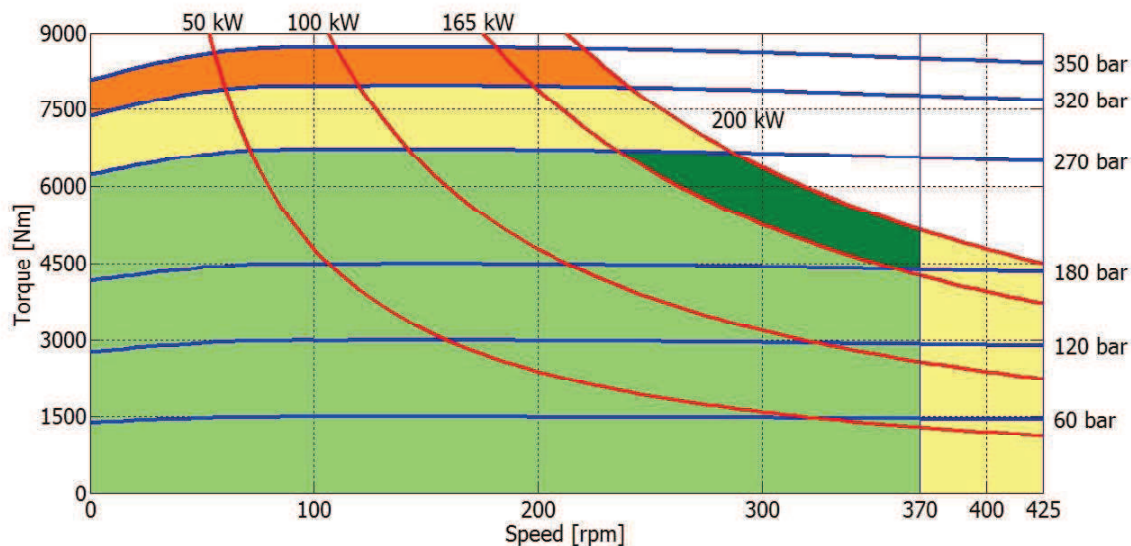
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

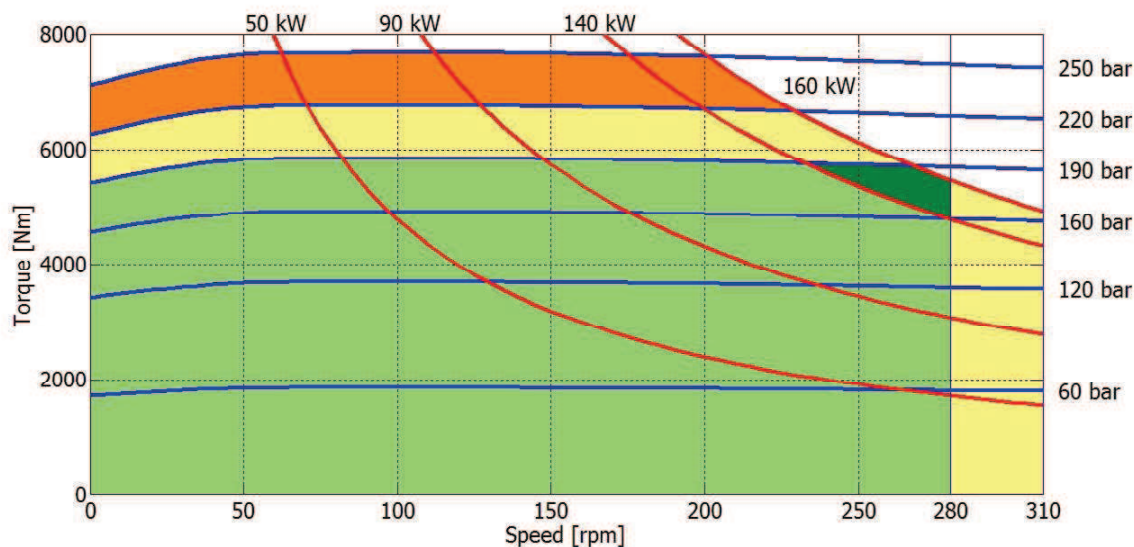
The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgrou S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization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

IAMD H5 - PERFORMANCE DIAGRAMS

1800 cc



2000 cc

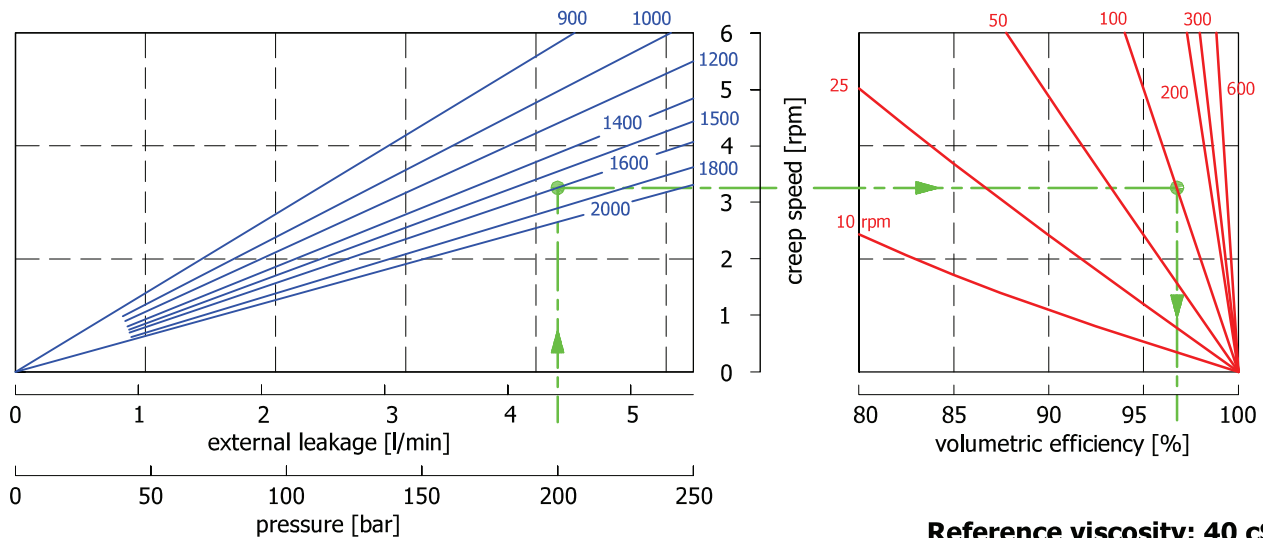


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

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.

CREEP SPEED - VOLUMETRIC EFFICIENCY

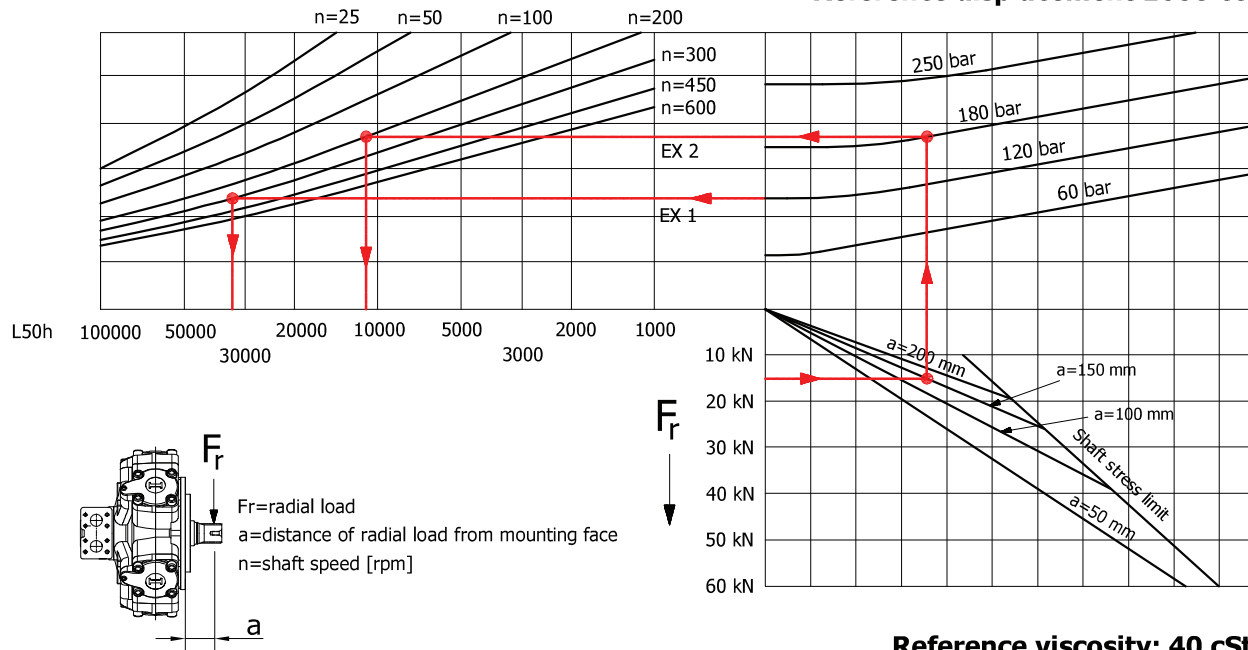


Example:

We suppose (1600 cc): $p=200$ [bar], we obtain: external leakage 4,3 [l/min], shaft creep speed 3,2 [rpm].
If we suppose (1600 cc): $p=200$ [bar] and $n=100$ [rpm] we obtain a volumetric efficiency of 97%;

BEARING LIFE

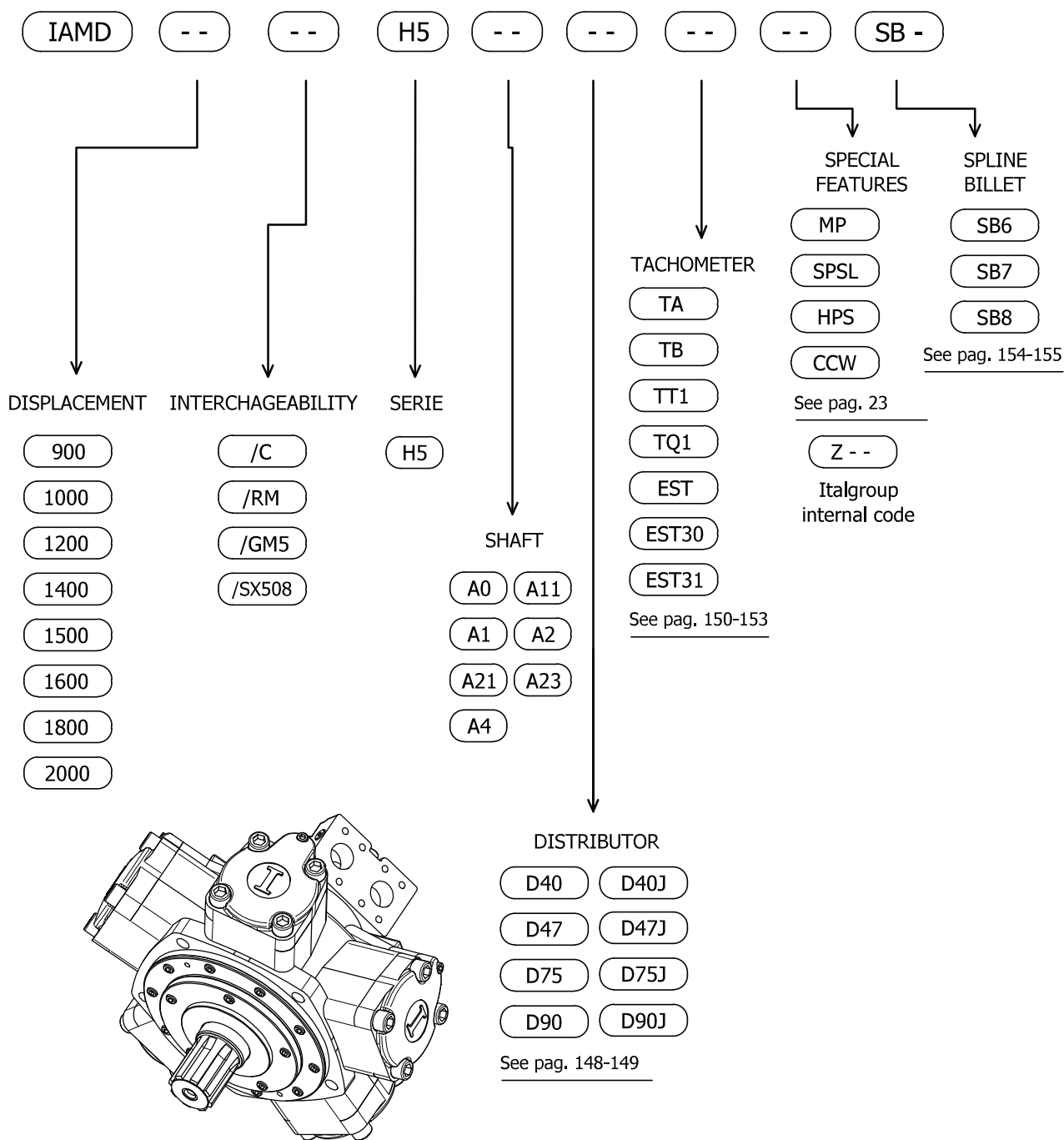
Reference displacement 1600 cc



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 life-time of 11000 [h].

IAMD H5 - ORDERING CODE



EXAMPLES:

IAMD 900/RM H5 A1 D75J CCW
IAMD 1400/C H5 A0 D75 SB6
IAMD 1800/C H5 A0 D75 MP SPSL SB8