

Italgroup[®]

HYDRAULIC MOTORS

ITALY



IAM

Single displacement hydraulic motors

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**COMPANY WITH
QUALITY SYSTEM
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= ISO 9001 =**

ITALGROUP MOTORS

IAM SERIES

TECHNICAL CATALOGUE

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ITALGROUP MOTORS
IAM SERIES

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FORMULAS

FORMULAS

$$\text{Torque [Nm]} = \text{Specific torque [Nm/bar]} * \text{Pressure [bar]}$$

$$\text{Torque [Nm]} = \frac{\text{Displacement [cc/Rev]} * \text{Pressure [bar]}}{62.8}$$

$$\text{Power [kW]} = \frac{\text{Torque [Nm]} * \text{Speed [rpm]}}{9549}$$

$$\text{Power [CV]} = \frac{\text{Torque [Nm]} * \text{Speed [rpm]}}{7023}$$

$$\text{Speed [rpm]} = \frac{\text{Flow [l/min]} * 1000}{\text{Displacement [cc/Rev]}}$$

$$\text{Displacement [cc/Rev]} = \frac{\text{Torque [Nm]} * 62,8}{\text{Pressure [bar]}}$$

$$\text{Flow [l/min]} = \frac{\text{Displacement [cc/Rev]} * \text{Speed [rpm]}}{1000}$$

Carefully read the use and maintenance manual before start-up the motor. The use and maintenance manual must be placed near to motor installation location in order to guarantee operators easy access to the instruction manual. For further information please contact Italgrou.

Motor description

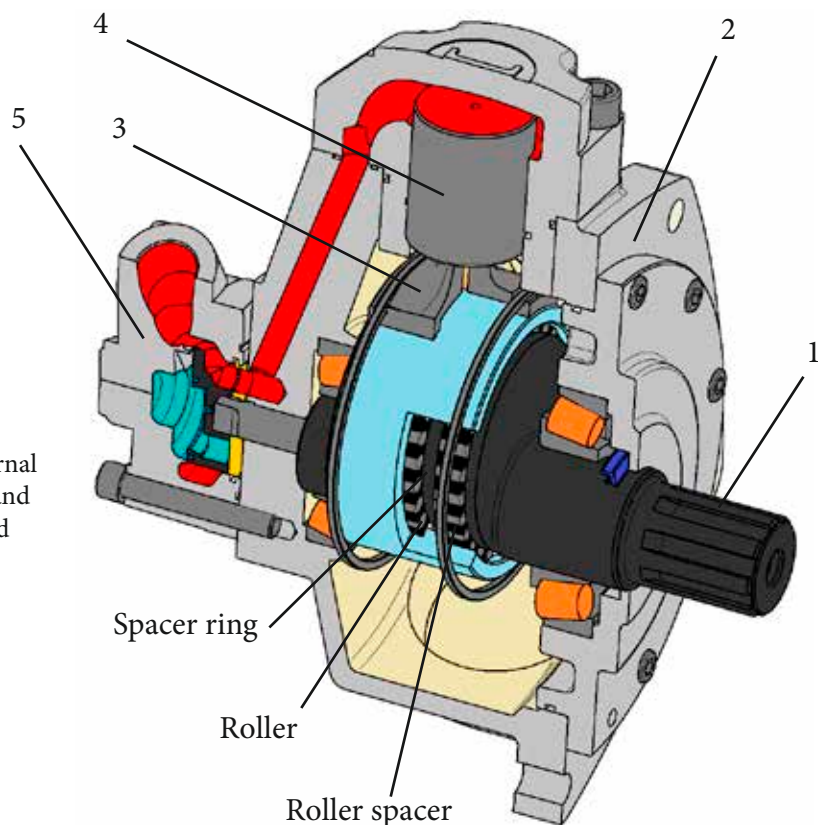
IAM series motors are radial piston hydraulic motors (generally indicated as LSHT motors, low speed high torque motors) with a rotating shaft (1) and a stationary housing (2). The pistons (4) are located radially and the working fluid provide the mechanical force that push the pistons against the eccentric shaft, providing the shaft output torque. The inlet and outlet flow to and from the pistons is regulated by a distributor (5), that provides the oil distribution correct timing. The pistons transfer the forces to the eccentric shaft through a connecting rod (3). Acting in the adequate way (increasing or reducing the oil flow coming from the pump) the motor rotational speed can be increased or reduced. The motor design guarantee extremely high starting torque and high mechanical working efficiency. Respecting the limitation of working parameters (indicated into the technical datasheets) and all recommendations (including fluid recommendations), high motor lifetimes are obtained and very low maintenance requirements are needed.

**TECHNICAL INNOVATION ON
IAM H5, H6 AND H7 SERIES,
PATENT PENDING**

New bearing construction to prevent from seizure of the connecting rod with the external bushing. This could happen in high speed and high pressure working conditions and could lead to motor breakdown.

The new bearing design consists of:

- roller spacers, with function of
 - keeping rollers axis parallel
 - creating space between rollers to hold more oil
- spacer rings, with function of
 - keeping rollers lined up
 - absorbing axial forces coming from connection rod



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IAM SERIES

Hydraulic motors of the IAM series are single displacement crankshaft radial piston motors. Thanks to great variety of accessories IAM series can be used in a wide range of applications such as:

- Marine equipments
- Winches
- Offshore equipments
- Conveyors
- Injection moulding machines
- Steel bending machines
- Fork lifts trucks
- Skid steer loaders
- Dumpers
- Agricultural and forestry machines
- Municipal vehicles
- Airport machinery

Product Features:

- ✓ High volumetric and mechanical efficiencies
- ✓ Very smooth running at low speeds
- ✓ High starting torque / constant torque
- ✓ Wide speed range
- ✓ Compact Design
- ✓ Low maintenance and high reliability
- ✓ Bi-directional
- ✓ High radial and axial force allowed
- ✓ Speed sensor available
- ✓ Built-in valves available

MOTOR TECHNICAL DATA

Motor	Size	Displacement	Theoretical torque	Max cont. pressure	Max cont. speed	Peak speed (**)	Max cont. power (*)	Max power	Dry weight
		[cc]	[Nm/bar]	[bar]	[rpm]	[rpm]	[kW]	[kW]	[kg]
IAM 80	H1	80	1.3	250	950	1050	20	40	26
IAM 100	H1	100	1.6	250	950	1050	27	40	26
IAM 150	H1	157	2.5	250	950	1050	27	40	26
IAM 175	H1	176	2.8	250	800	900	27	40	26
IAM 195	H1	195	3.1	250	800	900	27	40	26
IAM 200	H1	207	3.3	250	750	850	27	40	26
IAM 250	H1	257	4.1	250	750	850	27	40	26
IAM 300	H1	307	4.9	250	750	850	27	40	26
IAM 200	H2	198	3.2	250	800	900	33	49	42
IAM 250	H2	253	4.0	250	750	850	33	49	42
IAM 300	H2	314	5.0	250	750	850	33	49	42
IAM 350	H2	362	5.8	250	650	750	33	49	42
IAM 400	H2	424	6.7	250	600	700	33	49	42
IAM 500	H2	492	7.8	250	500	600	33	49	42
IAM 600	H2	584	9.3	250	500	600	33	49	42
IAM 350	H3	349	5.6	250	630	700	45	68	68
IAM 400	H3	397	6.3	250	600	680	45	68	68
IAM 450	H3	452	7.2	250	600	680	45	68	68
IAM 500	H3	491	7.8	250	600	680	45	68	68
IAM 600	H3	594	9.4	250	550	630	45	68	68
IAM 650	H3	660	10.5	250	500	580	45	68	68
IAM 700	H3	707	11.2	250	450	500	45	68	68
IAM 800	H3	791	12.6	250	400	450	45	68	68
IAM 700	H4	714	11.4	250	500	580	55	80	92
IAM 800	H4	792	12.6	250	450	530	55	80	92
IAM 850	H4	847	13.5	250	450	530	55	80	92
IAM 900	H4	904	14.4	250	450	530	55	80	92
IAM 1000	H4	992	15.8	250	330	400	55	80	92
IAM 1100	H4	1116	17.8	250	330	400	55	80	92
IAM 1200	H4	1192	19.0	250	300	350	55	80	92
IAM 1250	H4	1247	19.8	250	250	300	55	80	92
IAM 1400	H4	1332	21.2	250	230	280	55	80	92
IAM 1100	H45	1183	18.8	250	350	400	85	120	118
IAM 1400	H45	1376	21.9	250	300	350	85	120	118
IAM 1600	H45	1648	26.2	250	275	325	85	120	118
IAM 1800	H45	1815	28.9	250	250	300	85	120	118

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MOTOR TECHNICAL DATA

Motor	Size	Displacement [cc]	Theoretical torque [Nm/bar]	Max cont. pressure [bar]	Max cont. speed [rpm]	Peak speed (**) [rpm]	Max cont. power (*) [kW]	Max power [kW]	Dry weight [kg]
IAM 1000	H5	1094	17.4	250	350	400	90	120	173
IAM 1200	H5	1231	19.6	250	300	350	90	120	173
IAM 1400	H5	1376	21.9	250	300	350	90	120	173
IAM 1500	H5	1528	24.3	250	300	350	90	120	173
IAM 1600	H5	1648	26.2	250	300	340	90	120	173
IAM 1800	H5	1815	28.9	250	250	300	90	120	173
IAM 2000	H5	2035	32.4	250	230	260	90	120	173
IAM 2200	H5	2220	35.3	250	220	240	90	120	173
IAM 2200	H55	2126	33.8	250	240	280	120	170	203
IAM 2500	H55	2525	40.2	250	240	280	120	170	203
IAM 2800	H55	2807	44.7	250	240	280	120	170	203
IAM 3000	H55	3028	48.2	250	230	270	120	170	203
IAM 2200	H6	2206	35.1	250	220	260	120	170	308
IAM 2500	H6	2525	40.2	250	220	260	120	170	308
IAM 2800	H6	2807	44.7	250	220	260	120	170	308
IAM 3000	H6	2983	47.5	250	210	250	120	170	308
IAM 3200	H6	3289	52.3	250	200	240	120	170	308
IAM 3500	H6	3479	55.4	250	200	240	120	170	308
IAM 3900	H7	3907	62.2	250	160	200	130	180	405
IAM 4300	H7	4343	69.1	250	150	190	130	180	405
IAM 4600	H7	4616	73.5	250	140	190	130	180	405
IAM 5000	H7	5088	81.0	250	140	180	130	180	405
IAM 5400	H7	5384	85.7	250	130	170	130	180	405
IAM 6000	H8								
IAM 6500	H8								
IAM 6800	H8								
IAM 7600	H8								
IAM 8000	H8								

For IAM H8, please refer to IAMD catalogue

For all motors:

- Hydrostatic test pressure: 420 bar
- Refer to motor performance diagrams for more information

- (*) 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.

- (***) Do not exceed maximum power.

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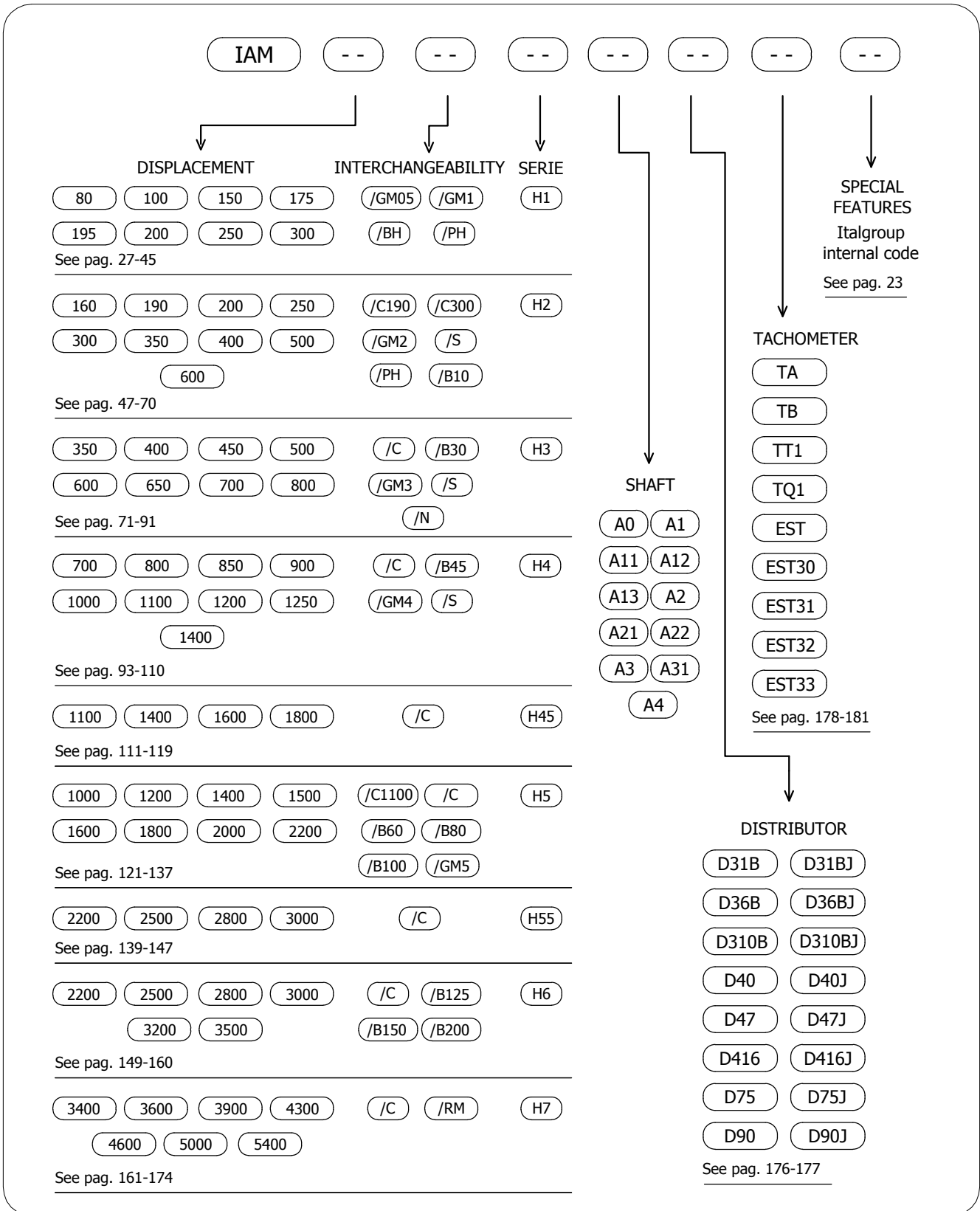
INTERCHANGEABILITY CHART

Interchangeability chart

Italgroupp motor code	Cross reference motor code
IAM 200/B10	HMB 10
IAM 450/B30	HMB 30
IAM 800/B45	HMB 45
IAM 1000 H5 - IAM 1000/B60 H5	HMB 60
IAM 1400 H5 - IAM 1400/B80 H5	HMB 80
IAM 1600 H5 - IAM 1600/B100 H5	HMB 100
IAM 2200 H55	HMB 125
IAM 2200 H6 - IAM 2200/B125 H6	HMB 125
IAM 2500 H6 - IAM 2500/B150 H6	HMB 150
IAM 3000 H6 - IAM 3000/B200 H6	HMB 200
IAM 4600 H7	HMB 270
IAM 5400 H7	HMB 325
IAM 160-190-250/C190 H2	MR 160 - MR 190
IAM 250-300-350-400/C300 H2	MR 250 - MR 300 - MRE 330 - MRA 400
IAM 450-500/C H3	MR 450 - MRE 500
IAM 700-800/C H4	MR 700 - MRE 800
IAM 1100-1400-1600/C H45 IAM 1000-1400-1600/C1100 H5	MR 1100 - MRE 1400 - MRA 1600
IAM 1600-1800-2000/C H5	MR 1600 - MR 1800 - MRE 2100
IAM 2500-2800-3000-3500/C H6	MR 2400 - MR 2800 - MRE 3100 MRA 3500
IAM 3600-4500-5400/C H7	MR 3600 - MR 4500 - MRE 5400
IAM 5000/RM H7	RM 5000
IAM H1/GM05	GM05
IAM H1/GM1	GM1
IAM H2/GM2	GM2
IAM H3/GM3	GM3
IAM H4/GM4	GM4
IAM H5/GM5	GM5
IAM H2/S	M2
IAM H3/S	M3
IAM H4/S	M4

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IAM - ORDERING CODE



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Fluid selection

In general, we recommend the use of hydraulic oils with minimum viscosity index of 95, with anti-wear additives (ISO HM and HV). Once normal working temperature is reached, the drain oil viscosity must be at least 35-40 cSt, preferably in the range from 40 to 60 cSt.

HE oils (ecological fluids) are allowed, but must be used with particular attention, because they can influence the motor seals compatibility, and can reduce motor performances and life. Please contact us in case of HE oils usage.

Optimal viscosity selection

Referring the first approximated selection to the room temperature, we advice the following:

Room temperature	Oil
-20°C/0°C	BP ENERGOL HLP – HM 22
-15°C/+5°C	BP ENERGOL HLP – HM 32
-8°C/+15°C	BP ENERGOL HLP – HM 46
0°C/+22°C	BP ENERGOL HLP – HM 68
+8°C/+30°C	BP ENERGOL HLP – HM 100
-20°C/+5°C	BP BARTRAN HV 32
-15°C/+22°C	BP BARTRAN HV 46
0°C/+30°C	BP BARTRAN HV 68

ATF (automatic transmission fluid) oils, SAE 10-20-30 W oils, multigrade motor oils (SAE 15 W 40, 10 W 40), universal oils, can also be used. Always fill the motor (please refer to the "DRAIN RECOMMENDATIONS" section) with the selected hydraulic fluid before motor start-up. During cold start-up avoid high-speed operation until the system reach the working temperature, in order to provide an adequate lubrication. Every 5-8 °C of increase respect to the optimal working temperature for the selected oil, the hydraulic fluid life decrease of about 40-50% (refer to "OXIDATION" section). Consequently, the motor lifetime will be affected by the working temperature increase respect to the optimal working temperature of the selected oil. The maximum continuous working temperature is 70 °C, the temperature must be measured from motor drain line. If the motor doesn't have a drain line, the temperature must be evaluated at the return line port.

Fire resistant oil limitations

	Max cont. Pressure [bar]	Max int. Pressure [bar]	Max Speed [rpm]
HFA, 5-95% oil-water	103	138	50%
HFB, 60-40% oil-water	138	172	100%
HFC, water-glycol	103	138	50%
HFD, ester phosphate	250	293	100%

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Filtration

Hydraulic systems oil must always be filtered.

The choice of filtration grade derives from needs of service life and money spent. In order to obtain stated service life it is important to follow our recommendations concerning filtration grade.

When choosing the filter it is important to consider the amount of dirt particles that filter can absorb and still operate satisfactorily. For that reason we recommend filters showing when you need to substitute filtering cartridge.

- 25 µm filtration required in most applications
- 10 µm filtration in closed circuit applications

Oxidation

Hydraulic oil oxidizes with time of use and temperature. Oxidation causes changes in colour and smell, acidity increase or sludge formation in the tank. Oxidation rate increases rapidly at surface temperatures above 60°C, in these situations oil should be checked more often.

The oxidation process increases the acidity of the fluid; the acidity is stated in terms of the "neutralization number". Oxidation is usually slow at the beginning and then it increases rapidly.

A sharp increase (by a factor of 2 to 3) in neutralization number between inspections shows that oil has oxidized too much and should be replaced immediately.

Water content

Oil contamination by water can be detected by sampling from the bottom of the tank. Most hydraulic oils repel the water, which then collects at the bottom of the tank. This water must be drained off at regular intervals. Certain types of transmission oils and engine oils emulsify the water; this can be detected by coatings on filter cartridges or a change in the colour of the oil. In such cases, obtain your oil supplier advice.

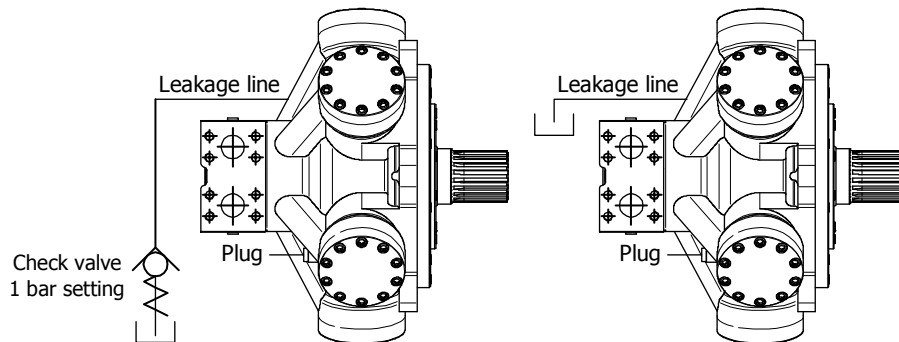
Degree of contamination

Heavy contamination of the oil causes wear rising in hydraulic system components. Contamination causes must be immediately investigated and remedied.

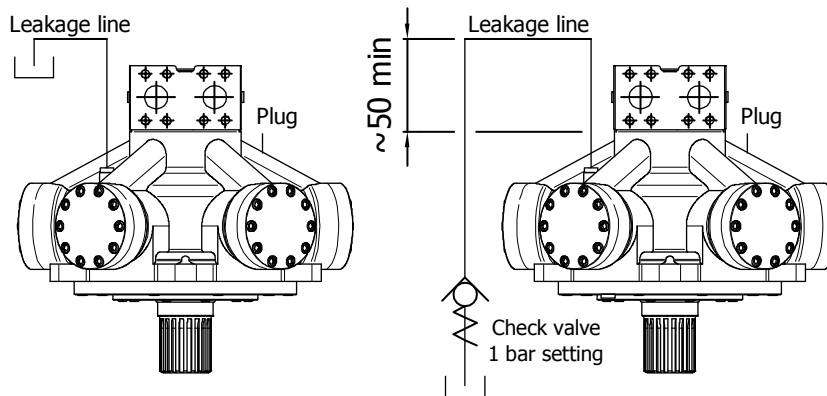
Analysis

It is recommended oil being analyzed every 6 months. The analysis should cover viscosity, oxidation, water content, additives and contamination. Most oil suppliers are equipped to analyze oil state and to recommend appropriate action. Oil must be immediately replaced if the analysis shows that it is exhausted.

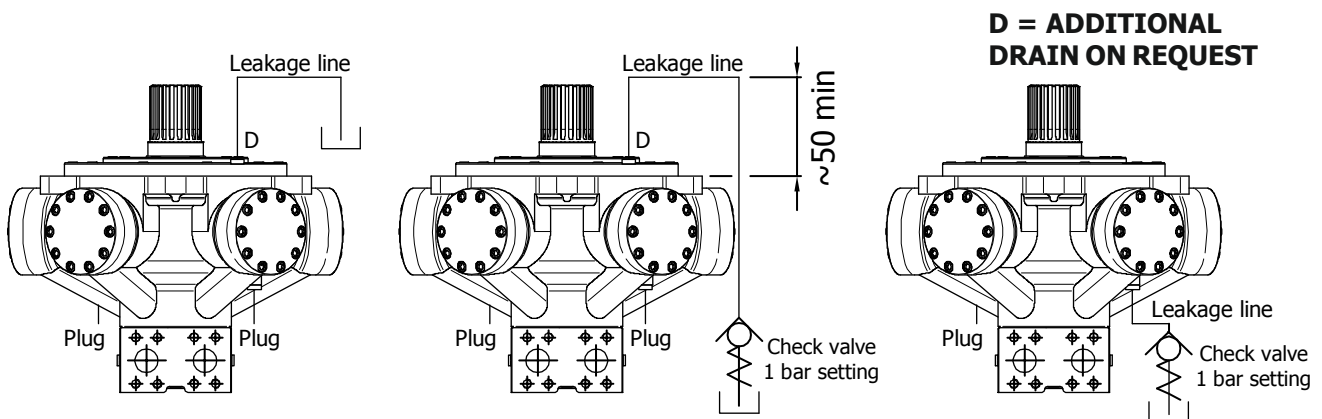
Motor axis horizontal



Motor axis vertical, shaft down



Motor axis vertical, shaft up



Leakage line connection

Always fill the motor with hydraulic fluid before start-up. Arrange piping in a way that the motor cannot drain off and cannot generate air bubbles into the motor case. Under certain conditions it may be necessary to arrange a check valve in order to help avoid the motor draining off. Always check carefully that the leakage line pressure doesn't overcome 10 bar pressure: therefore leakage lines must be shorter as possible and with a minimum flow resistance.

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FLUSHING

Motor	Flushing flow [l/min]
IAM H1 80,100	5
IAM H1 150, 175, 195, 200, 250, 300 IAM H2 200, 250, 300	6
IAM H2 350, 400, 500 IAM H3 350, 400, 450, 500	8
IAM H2 600 IAM H3 600, 650, 700, 800 IAM H4 700, 800, 850, 900, 1000, 1100, 1250, 1400 IAM H5 1000, 1200, 1400, 1500, 1600, 1800, 2000	10
IAM H5 2200 IAM H6 2500, 2800, 3000, 3200, 3500	15
IAM H7 3900, 4300, 4600, 5000, 5400 IAM H8 6000, 6500, 6800, 7600, 8000	20

Important note: the above value are approximated. The correct way to operate is the following: the flushing flow is adequate if during the motor operation the drain oil viscosity be at least 35-40 cSt, preferably in the range from 40 to 60 cSt.

Maximum continuous case pressure 6 bar (10 bar peak pressure). Special seals for 20-25 bar continuous case pressure are available upon request (ordering code: HPS).

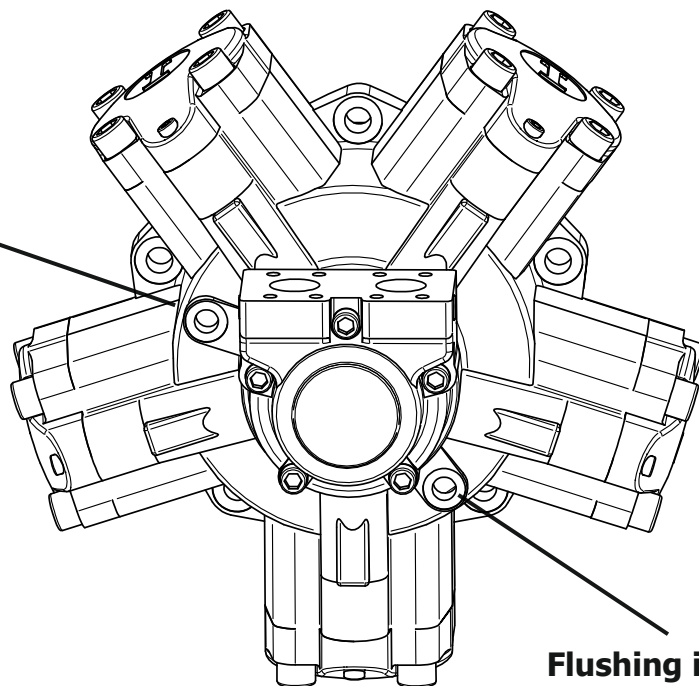
Flushing outlet port

Please note: the flushing outlet port must always be located in the highest possible position.

Maximum case pressure

6 bar continuous
10 bar peak

For standard IAM motors



Flushing inlet port

Features

Type: BABSL
Form: AS DIN 3760
Material: SIMRIT[®] 72 NBR 902
SIMRIT[®] 75 FKM 595

Material

SIMMERRING[®] radial shaft seal with rubber covered O.D., short, flexibility suspended, spring loaded sealing lip and additional dust lip:
see Part B/SIMMERRING[®], sections 1.1 and 2.

Application

Sealing lip and O.D.:

- Acrylonitrile-butadiene rubber with 72 Shore A hardness (designation: SIMRIT[®] 72 NBR 902)
- Fluoro rubber with 75 Shore A hardness (designation: SIMRIT[®]75 FKM 595)

Metal insert:

- Plain steel DIN 1624

Spring:

- Spring steel DIN 17223

Operating conditions

See Part B/ SIMMERRING[®], sections 2. 4.

Media: mineral oils, synthetic oils

Temperature:

- 40°C to +100°C (SIMRIT[®] 72 NBR 902)
- 40°C to +160°C (SIMRIT[®] 75 FKM 595)

Surface speed: up to 5 m/s

Working pressure: see diagram on next page, pressure is function of surface speed (i.e. of rotating speed and shaft diameter)

STANDARD SHAFT SEAL FEATURES

Housing and machining criteria See Part B/ SIMMERRING[®], sections 2.

Shaft:
Tolerance: ISO h11
Concentricity: IT 8
Roughness: Ra=0.2-0.8 μm
Rz=1-4 μm
Rmax=6 μm
Hardness: 45-60 HRC
Roughness: non oriented;
preferably by plunge grinding

Housing:
Tolerance: ISO H8
Roughness: Rmax<25 μm

Pressure diagram

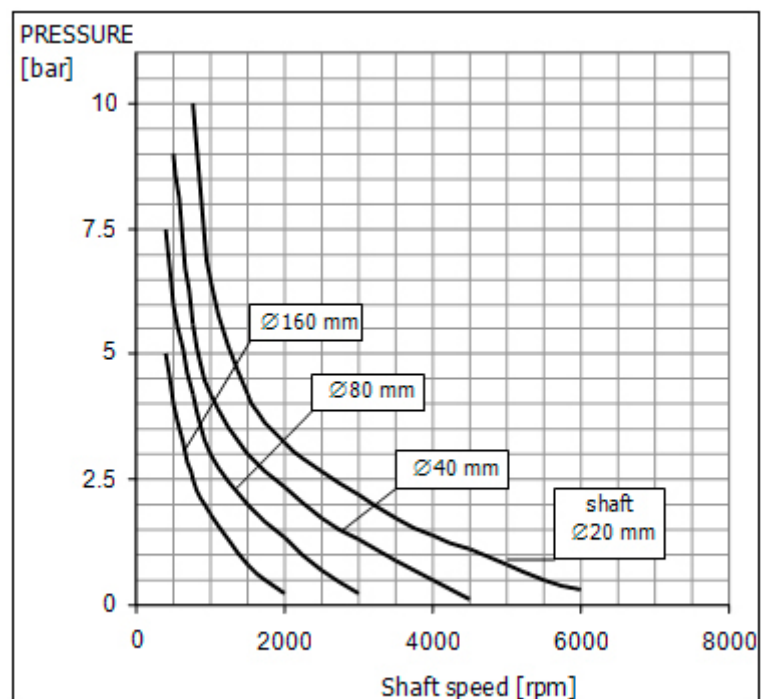


Diagram 1: Pressure Loading Limits

Special seals for 20-25 bar continuous case pressure are available upon request (ordering code: HPS). Refer to page 23 for more information.

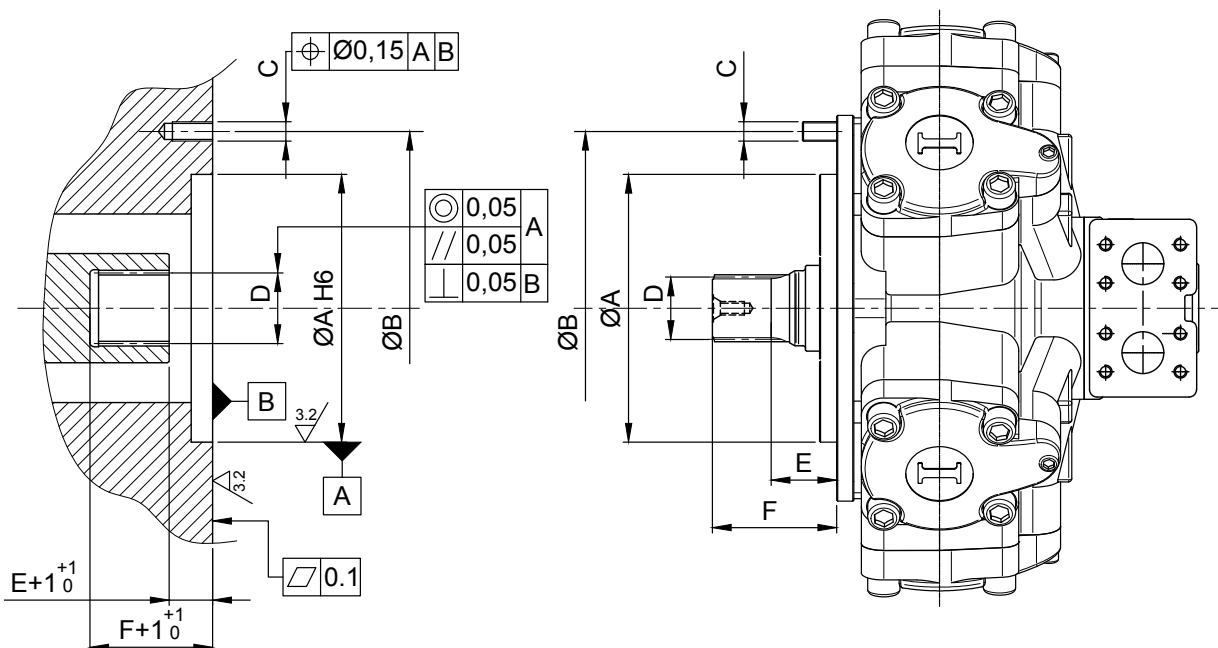
Motor installation and start-up

The motor, after testing, it's packed in different ways that depends by customer and/or logistic requirements. The motor must be carefully moved from his box or pallet, with the assistance of correctly sized movimentation tools, like eyebolts (all the motors has a thread hole in the shaft end, please refer to the IAM general catalogue, shafts section) or lifting slings.

When the motor is moved from one place to another always be very careful and act in a way that the motor is stable and under control during movimentation (refer to handling and storage section for more details).

Before mount the motor, check carefully the absence of damage happened for example during transportation and/or storing.

For mounting dimensions please refer to the IAM installation drawings. The motor must be installed using the correct screws size (we recommends the use of 10.9 and 12.9 class resistance fixing screws) and must be placed on a structure that is capable to correctly support the motor during functioning: for this reason the structure must not only be able to support the motor weight but must also assure the absence of vibration during operation and must win the reaction forces that are generated by the working torque. Regarding the motor fitting design, the concentricity between the centering diameter (spigot) and shaft (both splined or parallel) must be assured with a strict tolerance (please refer to the following general indication). If the concentricity between the shaft and the centering diameter and/or fixing holes is not respected, in the worst case the motor can have an unusual failure or can work only with low performances. Splined adaptors (splined billets) are available upon request.



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Hoses and piping must be clean and free from contamination. Use proper hoses for oil connection, both for inlet and outlet main ports, and for drain line. Refer to hoses and fitting constructors in order to correctly size and select hoses and fittings. In order to keep control on the oil compressibility keep hoses to the minimum recommended size and select pipelines most rigid as possible.

The motor can be mounted in any position (refer also to drain recommendations section). In run-away conditions you must use counterbalance valves. When the motor is installed vertically with shaft pointing upwards, consult our technical department. If the motor is connected to high inertial loads, the hydraulic system must be designed to prevent peaks of pressure and cavitation.

Consider the use of relief valves, possibly directly mounted on motor distributor in case the application can generate pressure peaks at the motor ports: the relief valve should be able to discharge all the flow (or at least a good part of it) with a limited pressure increase. Italgroupp can provide different valve types that can be placed directly on the motor distributor (please refer to Italgroupp valves technical catalogue).

Motor case and pistons must be completely filled with oil before starting. Do not load motor to maximum working pressure instantly. During cold start-up avoid high-speed operation until the system reaches the working temperature. Connect the case drain directly to tank, and avoid excessive drain line pressure losses (the case drain pressure must not exceed 10 bar continuous pressure for IAM serie standard motors). The case drain port on the motor must be located on the highest point of the installation to ensure that the motor will always be full of oil. (See drain recommendations page for more details)

Maximum oil temperature must not exceed 70°C. Heat exchangers must be used with higher temperatures. The operating fluid viscosity must always be higher than a certain minimum value (see "fluid recommendation" section) in order to guarantee an optimal motor internal lubrication. When the working conditions cause the motor case overheating above a critical value, the motor flushing is required. Flushing consists in the introduction of fresh oil (taken from the hydraulic circuit) into the motor case. Oil must be taken from the return line to avoid internal motor damage (the continuous motor case pressure must be maximum 6 bar). Flushing is an important operation that can be very effective to improve motor lifetime with heavy duty working conditions and improve the motor mechanical efficiency.

The motor flushing, if the motor works in one direction only, can be easily performed connecting the motor return line to the lowest motor drain port. The highest motor drain port must be connected to the tank. For D75 and D90 flow distributors, the side 1/4" metallic plugs can be used for flushing circuit installation: in fact the plug (corresponding to the return line port) can be removed and the connection between motor low pressure port and motor case can be correctly realized.

MOTOR INSTALLATION AND START-UP

If the motor axis is not horizontal and/or the motor works in bidirectional operation, please contact Italgroupp technical department, that can assist you to advice how to perform the desired operation in the best way. Just for your reference, Italgroupp can provide you flushing valves in order to perform an effective flushing circuit.

Minimum speed is very low and can reach values near to 0.5-1 rpm (depending on motor displacement). In case of low speed vibration a reasonable back pressure can eliminate or minimize the vibration and noise level (a general guideline value can be defined by 5-8 bar back pressure). For more information please contact our technical department.

IAM series motors can works in an efficient way with high back pressures (back pressure occurs for example when hydraulic motors are installed in series circuit). A general guideline for back pressure can be set limiting the inlet and outlet pressure sum to 400 bar. High back pressure values are often responsible of motor overheating, so if drain temperature reach values that bring the oil viscosity under the recommended limit (refer to fluid recommendations section), perform appropriate motor flushing and/or reduce the back pressure.

During start-up and in the period immediately after it, any hydraulic installation must be regularly and carefully checked at frequent intervals. The working pressure must be checked in order to understand that it agrees with the design values. The drain line pressure for standard motors must not overcome 10 bar continuous. If leakage occurs, check the reason, correct it and carry out new measurements. Check all lines, connections, screws, etc, and tighten if necessary. Replace contaminated fluid immediately.

The motor installation and start-up must be performed by instructed and experienced personnel only.

Please contact us freely to obtain further information.

Motor handling

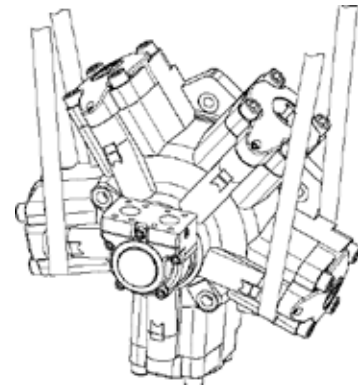
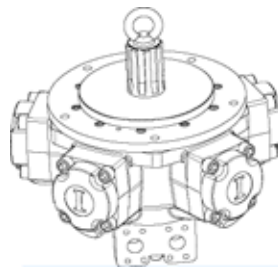
The motor must be correctly packed during transport and correctly stored into the warehouse in order to avoid eventual damages that can make the motor functioning not adequate.

During handling operations, make sure that the motor shaft and tachometer shaft (if present) don't receive any hit, in order to avoid motor damage.

During all operations of lifting and handling, never movimentate motors by hand but use adequate tools. In order to avoid that motor can falls, creating danger for authorized working persons in the nearings, use one of following methods:

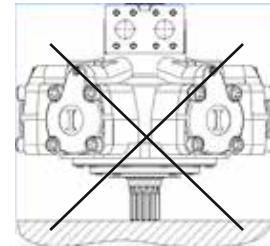
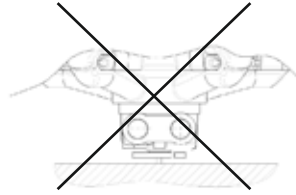
- use lifting slings of adequate capacity;
- use adequate eyebolt using the thread hole in the shaft end.

Refer to the following pictures.



Motor storing

Storing must be carefully made using adequate storing tools (for example boxes, pallets, etc...) that can guarantee that the motor is stable and cannot move without control, in order to avoid damage problems. Make sure that the weight of the motor doesn't be substained by the motor shaft or by the tachometer shaft (if present).



IAM series motors are supplied together with plastic plugs, that keep the hydraulic oil (that was used during final test in Italgroup testing workbench) inside the motor. A thin oil film is present on the internal motor parts, whereas the external parts are covered with antirust oil that prevents damage from oxidation and corrosion.

Therefore the motors can be safely stored into the customer warehouse without performance losses for long periods (up to 4-6 months).

The storing location must has some important characteristics:

- room temperature comprised between -15°C and +55°C without fast and/or excessives temperature excursions;
- low relative humidity;
- absence of aggressive and corrosive medias in the motor nearings.

In particular, if motor should be motionless for more than 4-6 months, it must be protected against internal rust. Proceed as follows:

- fill the motor case with hydraulic oil. After that the motor case is full of oil, close it with a screw plug;
- fill the motor also from inlet or outlet port. Turn the shaft by hand (the shaft must make about one revolution) and finally close the inlet and outlet ports.

Please note that the plastic plugs are necessary not only to keep the hydraulic oil inside the motor, but even to avoid that dirt and other fluids (like water for example) can enter into the motor and create damage during storing or during motor start-up. Therefore make sure all drain ports, supply ports and discharge ports are closed during motor handling and storing. If plugs are missing, use plastic plugs or adequate systems in order to guarantee that the motor is well protected by dirt and other fluids.

Maintenance operations All the assembly and maintenance works must be performed when the motor is stopped and not connected to any power source, in order to avoid an accidental start-up. In addition the pressure inside the motor must be set to zero (the motor must be depressurized) before to perform maintenance operations.

The motor maintenance must be performed by instructed and experienced personnel only, following carefully ItalgrouP advices and procedures.

IAM series motors are internally lubricated by the operating fluid, if the motors are used according to the technical data reported into the IAM catalogue, they need very limited maintenance operations. In order to achieve good performances, long bearings lifetime and safe working, the working fluid must be carefully selected in function of the operating parameters (a fundamental parameter is the ambient temperature range). In case of fire resistance fluid usage, some limitation on pressure and speed can be required. Refer to hydraulic fluid recommendations section for more information. If required please contact ItalgrouP technical department for further information.

Motor parts	Material
Motor shaft, rollers, pins, screws, distributor bush, rotating distributor, distributor joint, pistons, ring for rod	Steel
Motor case, cylinders, connecting rod, motor flange, distributor body	Cast iron
Distributor disk	Bronze
Slippers	Charged PTFE, PTFE
O-Rings	Elastomer
Radial shaft seal rings	Elastomer

Bearings

The bearing life depends by different factors, like bearing type, motor speed, working pressure, external loads, duty cycle, fluid viscosity, oil cleanliness, type and temperature.

Lifetime is measured by L_{10} which is called "theoretic lifetime". It represents the number of cycles that 90% of identical bearings can effort at the same load without showing wear and tear.

Please refer to bearing lifetime diagrams reported in the following pages to obtain the theoretical bearing lifetime. **The lifetimes diagrams shown the L_{50} median or average lifetime, that can be considered as 5 times L_{10} .**

Please note that the theoretical lifetime can be different from the real lifetime, especially in case of heavy duty applications with continuous work cycle. Please contact Italgroup S.r.l. for more information.

Motor creep speed

The hydraulic motor is able to hold the load acting as a brake (if proper valves or circuit are considered and installed), but a certain creep speed is always present: this is typical of all brands hydraulic motors.

The motor creep speed depends by many factors, like operating conditions (motor displacement and type, pressure load on the shaft, oil viscosity, type and temperature)

If creep speed is higher than desired value a negative brake can be considered: Italgroup can supply negative brakes that can be fitted to the hydraulic motor. Please contact Italgroup S.r.l. for more information.

Special features**Marine painting**

If needed, special painting or primers are available in order to guarantee optimal protection against normal corrosion and marine environment corrosion. The ordering code is MP. Please contact ItalgrouP S.r.l. for more information.

Speedy-sleeve

A special inox sleeve is available upon request. In case the motor is used in aggressive medias or environments, this can be very useful in order to protect the motor shaft surface located in proximity of the motor shaft seal. This improves the shaft and seal endurance respect to wear and corrosion. The ordering code is SPSL. Please contact ItalgrouP S.r.l. for more information.

High pressure shaft seal

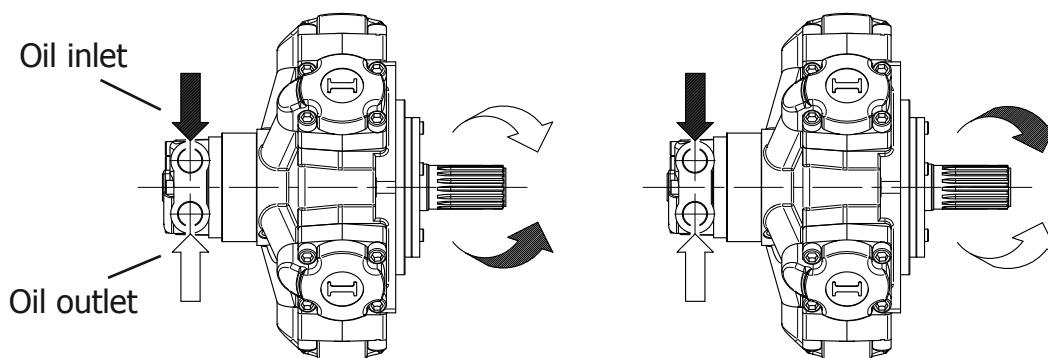
Standard IAM motors are supplied with high pressure shaft seals, the continuous drain pressure must be maximum 6 bar, whereas the peak drain pressure must be maximum 10 bar. In case the drain line can or must has a higher pressure, special shaft seals are available upon request. The ordering code is HPS. The drain pressure with HPS shaft seal can reach 20-25 bar continuous pressure and 30 bar peak pressure. The HPS shaft seal is bi-directional also, so it can be used for example in underwater applications. Please contact ItalgrouP S.r.l. for more information.

Counterclockwise rotation

Standard IAM motors are supplied with clockwise distributor timing. Please refer to the installation drawings of each section for more information. With ordering code CCW the motor is supplied with counterclockwise rotation timing. Contact ItalgrouP for more information.

Standard timing

CCW timing



TROUBLESHOOTING

Problem	Possible cause	Solution
Excessive noises	Cavitation	Adopt an anti-cavitation system
	Mechanical vibrations	Check and fix damaged components
	Irregular pressure or flow	Check other components (pump, valves, accumulators) and check drain flow
	Air bubbles in the circuit	Bleed circuit
Unit overheating	Overflow	Check max allowed flow
	Overpressure	Check relief valve pressure setting
	Oil viscosity too low	Choose the appropriate oil according to the temperature
	Undersized cooling system	Improve cooling system
	Working without oil in the case	Overhaul the unit, fill with oil before start-up
Anomalous drainage flow	Worn motor internal components	Overhaul the motor
	Motor internal seals worn	Overhaul the motor
	Excessive pressure in the motor case	Check drain port size, pressure and flow, check piping connections
Insufficient torque	Pressure relief valve set incorrectly	Check relief valve pressure setting
	Undersized motor displacement	Replace with bigger displ. motor
	Pump not able to reach the design pressure	Check pump integrity
Insufficient speed	Oversized motor displacement	Replace with smaller displ. motor
	Pump not able to reach the design flow	Check pump integrity
	Undersized pump	Improve pump output flow
	Excessive drain flow	Overhaul the motor
Output shaft cannot rotate	Seized motor flow distributor	Overhaul the flow distributor
	Motor internal seizure	Overhaul the motor
	Motor internal seals worn	Check drain flow, overhaul the motor
	Air in the circuit	Bleed the circuit

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TROUBLESHOOTING

Problem	Possible cause	Solution
Oil leakage	Worn seals	Replace seals
	Excessive pressure in the motor case	Check drain port size, pressure and flow, check piping connections
	Burst motor shaft seal	Check drain port size, pressure and flow, check piping connections
Incorrecte sense of rotation	Pipes incorrectly connected	Check pipe connections
	Incorrect rotating distributor timing	Change rotating distributor timing

UNIT CONVERSIONS

LENGHT 1 m = 39,3701 in

= 3,2808 ft
= 1,0936 yd
= 1000 mm

1 in = 0,0833 ft
= 25,4 mm

1 ft = 0,3048 m
= 0,3333 yd
= 12 in

1 yd = 0,9144 m
= 3 ft

= 36 in

1 km = 1000 m
= 1093,6 yd
= 0,6214 mile

1 mile = 1,609 km
= 1760 yd

SPEED 1 m/s = 3,6 km/h

= 2,237 mph
= 3,2808 ft/s

1 km/h = 0,2778 m/s
= 0,6214 mph
= 0,9113 ft/s

1 mph = 1,609 km/h
= 0,447 m/s
= 1,467 ft/s

1 ft/s = 0,3048 m/s
= 1,0973 km/h
= 0,6818 mph

MASS 1 kg = 2,2046 lb

FORCE 1 N = 0,102 kgf

= 0,2248 lbf
1 kgf = 2,205 lbf
= 9,806 N

1 lbf = 0,4536 kgf
= 4,448 N

PRESSURE 1 bar = 14,223 psi

= 0,99 atm

= 1,02 ata

= 100000 Pa

= 100 kPa

= 0,1 MPa

1 psi = 0,0703 bar

FLOW 1 l/min = 0,264 gpm

= 1000 cc/Rev

1 gpm = 3,785 l/min
= 3785 cc/min

1 m³/s = 60000 l/min
= 15852 gpm

POWER 1 kW = 1,341 HP

= 1,3596 CV

1 HP = 0,7457 kW

= 1,0139 CV

VOLUME 1 m³ = 1000 l

1 l = 61,023 in³

= 0,264 galUS

1 in³ = 0,01639 l

= 16,39 cm³

= 0,004326 galUS

galUS

1 galUS = 3,7879 l

= 231,15 in³

TORQUE 1 Nm = 0,102 kgm

= 0,7376 lbf ft

1 kgm = 9,806 Nm

= 7,2325 lbf ft

1 lbf ft = 0,1383 kgm

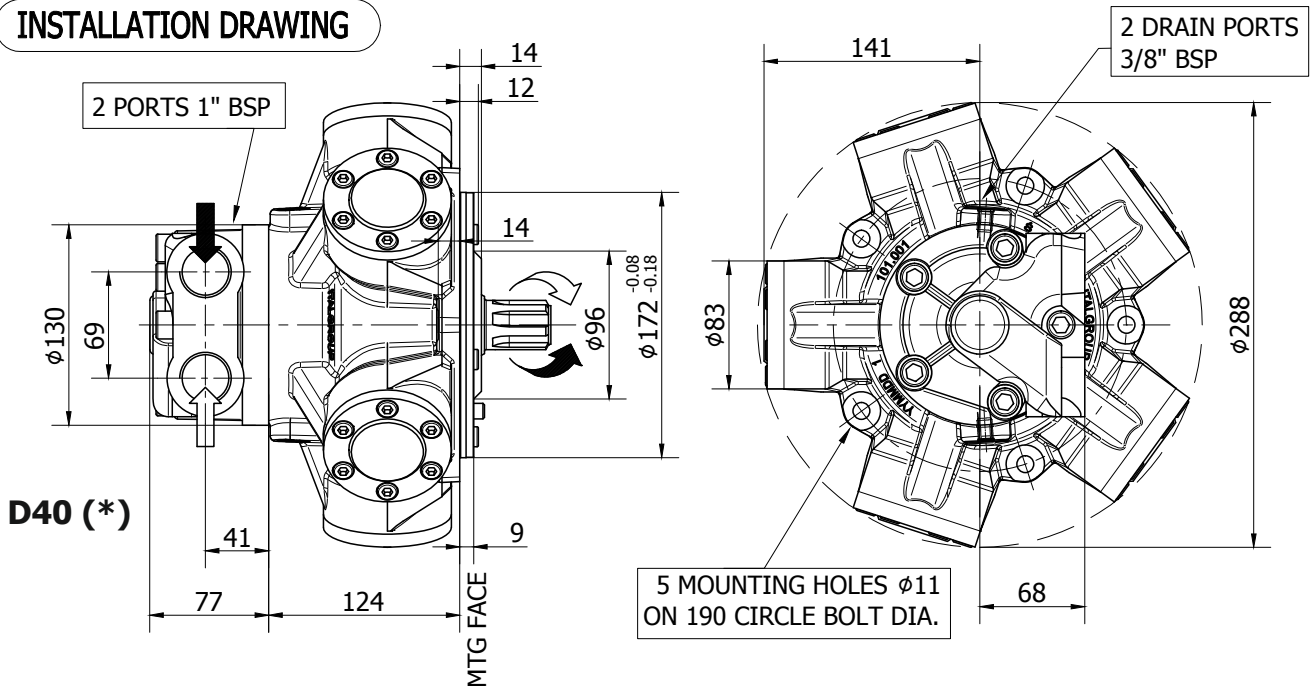
= 1,3558 Nm

ITALGROUP SRL
IAM SERIES - IAM H1
GENERAL CATALOGUE

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IAM H1/GM05 - INSTALLATION DRAWING	"	32 - 33
IAM H1/BH - INSTALLATION DRAWING	"	34 - 35
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IAM H1 - PERFORMANCE DRAWINGS	"	40 - 44
IAM H1 - ORDERING CODE	"	45

INSTALLATION DRAWING



TECHNICAL DATA

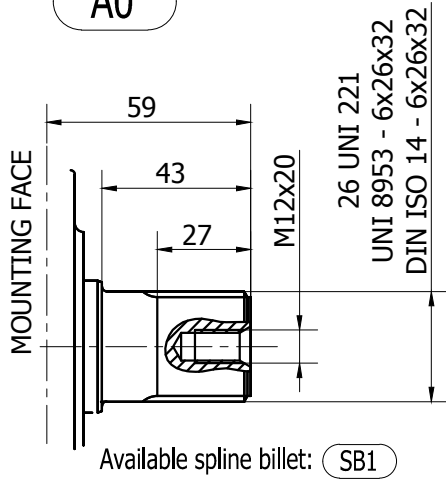
		80	100	150	175	195
DISPLACEMENT	[cc]	80	100	157	176	195
SPECIFIC TORQUE	[Nm/bar]	1.3	1.6	2.5	2.8	3.1
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	950	950	950	800	800
PEAK SPEED (***)	[rpm]	1050	1050	1050	900	900
MAX. CONT. POWER (****)	[kW]	27	27	27	27	27
MAX. POWER	[kW]	40	40	40	40	40
MAX. CASE PRESSURE	[bar]	6	6	6	6	6
DRY WEIGHT	[kg]	26	26	26	26	26
TEMPERATURE RANGE (**)	[°C]	-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.

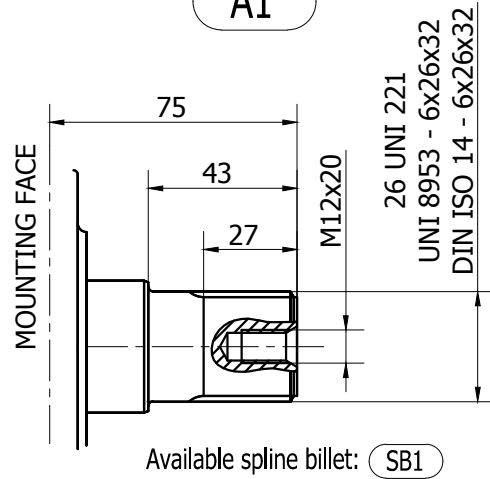
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SHAFT CONFIGURATIONS

A0

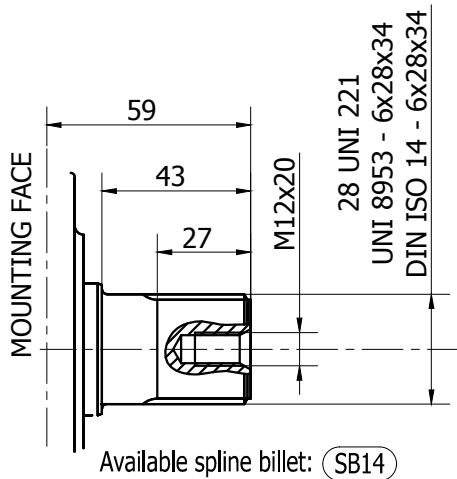


A1



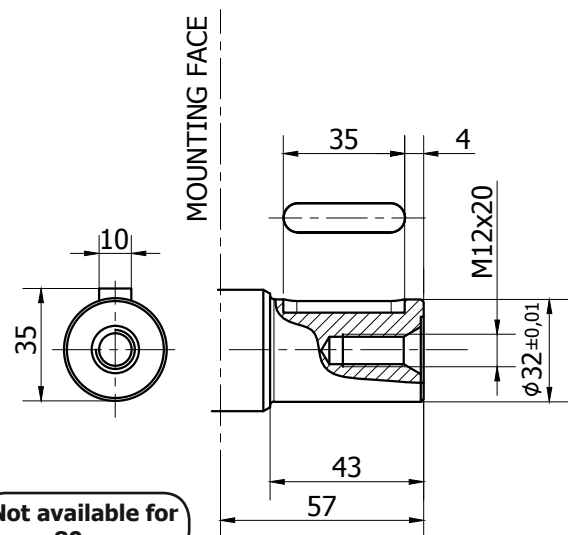
Not available for 80 cc

A11



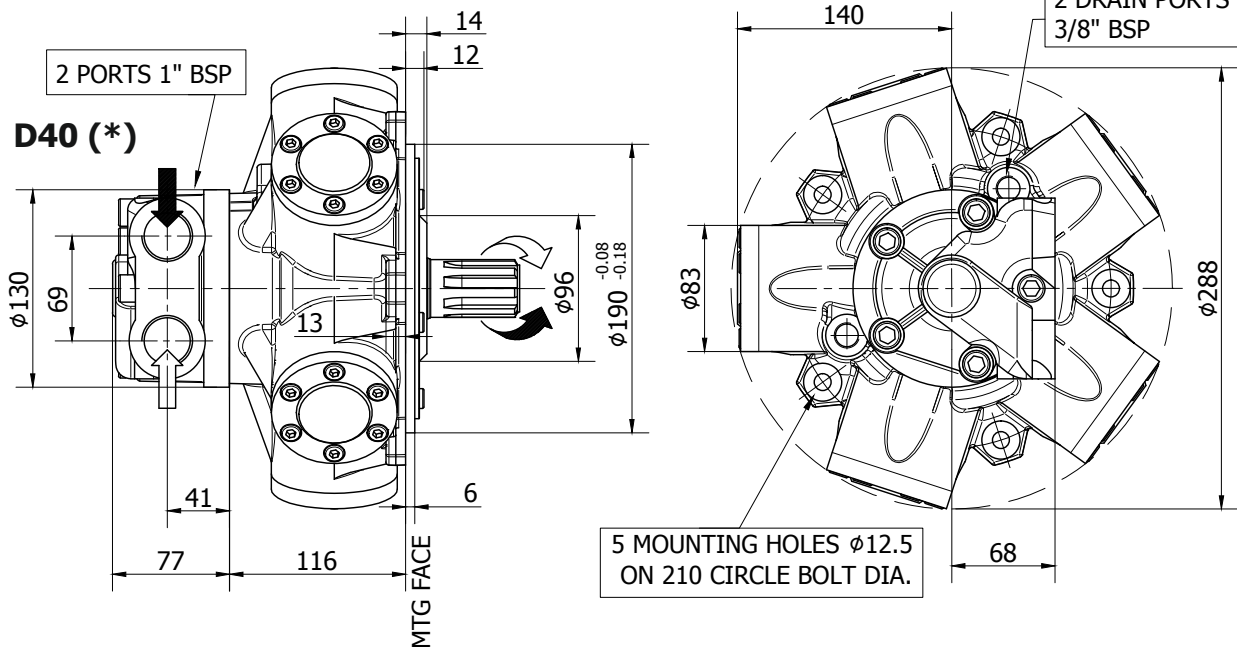
Not available for 80 cc

A2



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INSTALLATION DRAWING



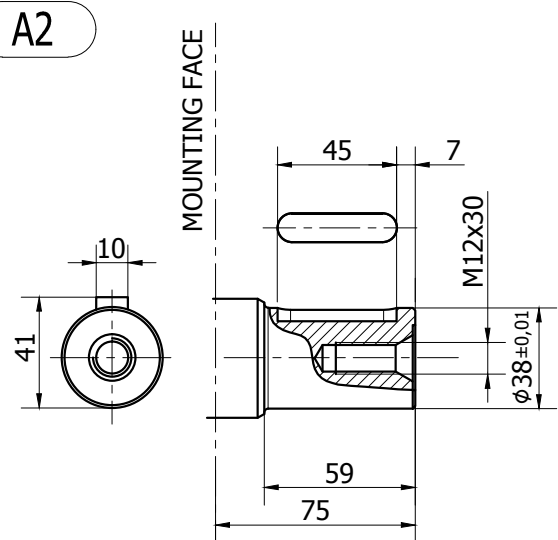
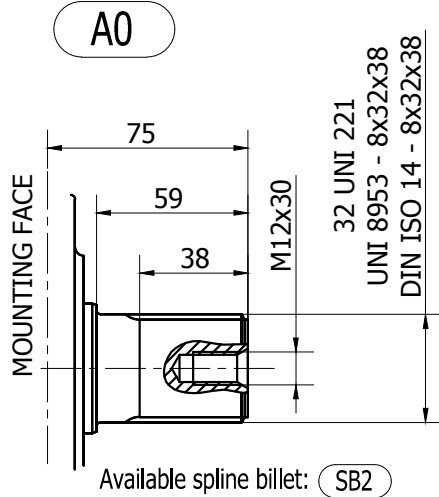
TECHNICAL DATA

		200	250	300
DISPLACEMENT	[cc]	207	257	307
SPECIFIC TORQUE	[Nm/bar]	3.3	4.1	4.9
MAX. CONT. PRESSURE	[bar]	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420
MAX. CONT. SPEED	[rpm]	750	750	750
PEAK SPEED (***)	[rpm]	850	850	850
MAX. CONT. POWER (****)	[kW]	27	27	27
MAX. CONT. POWER WITH FLUSHING	[kW]	40	40	40
MAX. CASE PRESSURE	[bar]	6	6	6
DRY WEIGHT	[kg]	26	26	26
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70

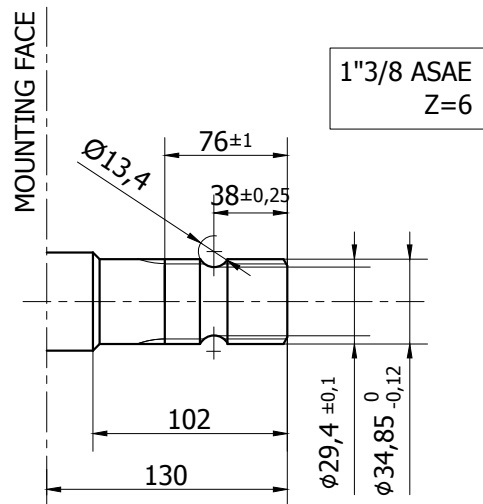
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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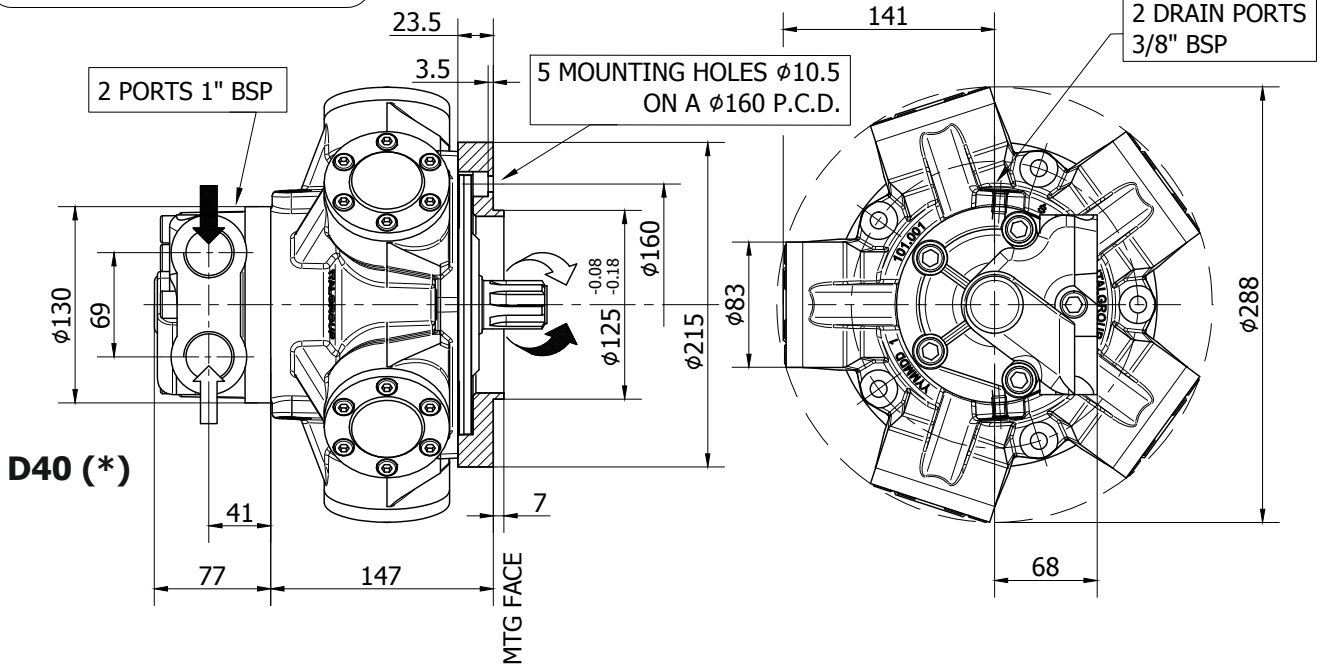
SHAFT CONFIGURATIONS



A12



INSTALLATION DRAWING



TECHNICAL DATA

		100	150	175	195	250
DISPLACEMENT	[cc]	100	157	176	195	257
SPECIFIC TORQUE	[Nm/bar]	1.6	2.5	2.8	3.1	4.1
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	950	950	800	800	750
PEAK SPEED (***)	[rpm]	1050	1050	900	900	850
MAX. CONT. POWER (****)	[kW]	27	27	27	27	27
MAX. POWER	[kW]	40	40	40	40	40
MAX. CASE PRESSURE	[bar]	6	6	6	6	6
DRY WEIGHT	[kg]	26	26	26	26	26
TEMPERATURE RANGE (**)	[°C]	-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.

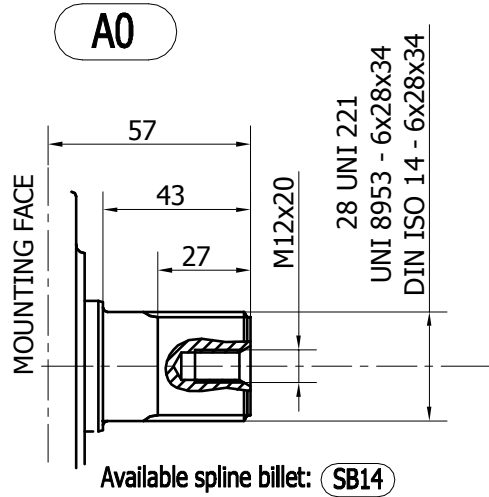
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).

- (***) 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



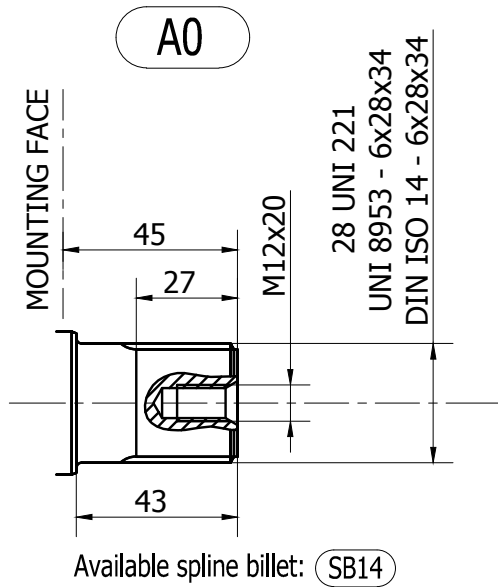
TECHNICAL DATA

		100	150	175	195	250
DISPLACEMENT	[cc]	100	157	176	195	257
SPECIFIC TORQUE	[Nm/bar]	1.6	2.5	2.8	3.1	4.1
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	950	950	800	800	750
PEAK SPEED (***)	[rpm]	1050	1050	900	900	850
MAX. CONT. POWER (****)	[kW]	27	27	27	27	27
MAX. POWER	[kW]	40	40	40	40	40
MAX. CASE PRESSURE	[bar]	6	6	6	6	6
DRY WEIGHT	[kg]	26	26	26	26	26
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

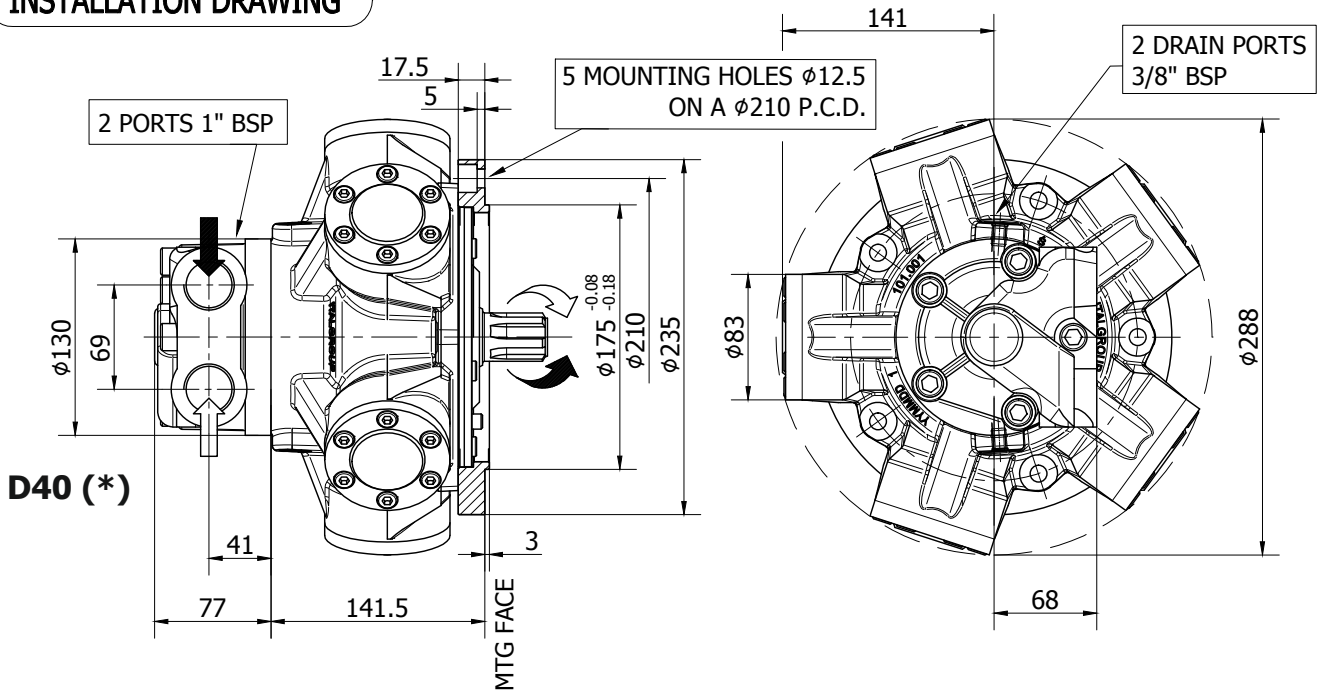
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
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		100	150	175	195	250
DISPLACEMENT	[cc]	100	157	176	195	257
SPECIFIC TORQUE	[Nm/bar]	1.6	2.5	2.8	3.1	4.1
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	950	950	800	800	750
PEAK SPEED (***)	[rpm]	1050	1050	900	900	850
MAX. CONT. POWER (****)	[kW]	27	27	27	27	27
MAX. POWER	[kW]	40	40	40	40	40
MAX. CASE PRESSURE	[bar]	6	6	6	6	6
DRY WEIGHT	[kg]	26	26	26	26	26
TEMPERATURE RANGE (**)	[°C]	-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.

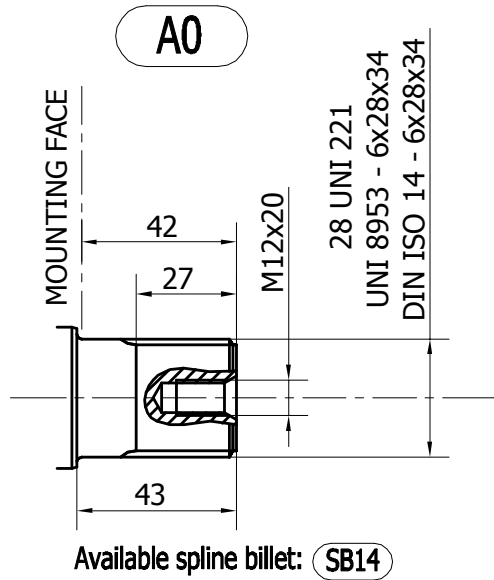
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).

- (***) Do not exceed maximum power (see pag. 13).

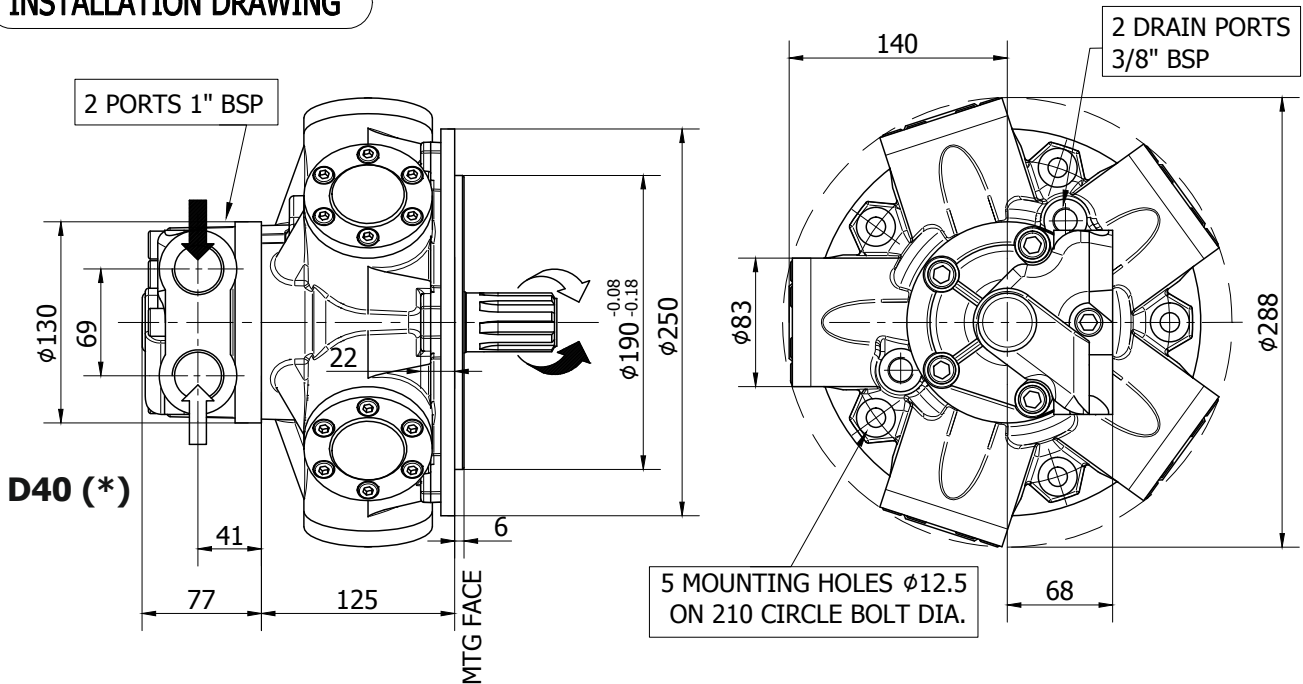
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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SHAFT CONFIGURATIONS



INSTALLATION DRAWING



TECHNICAL DATA

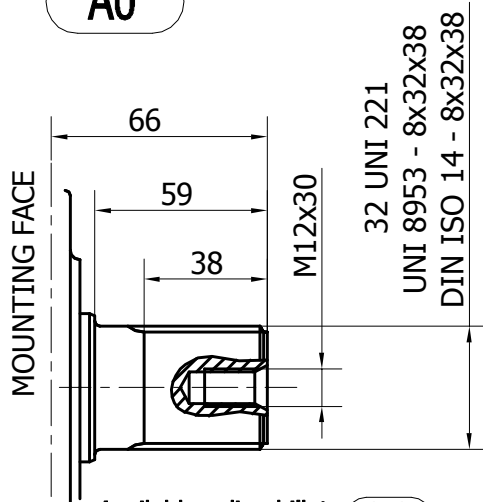
		200	250	300
DISPLACEMENT	[cc]	207	257	307
SPECIFIC TORQUE	[Nm/bar]	3.3	4.1	4.9
MAX. CONT. PRESSURE	[bar]	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420
MAX. CONT. SPEED	[rpm]	750	750	750
PEAK SPEED (***)	[rpm]	850	850	850
MAX. CONT. POWER (****)	[kW]	27	27	27
MAX. CONT. POWER WITH FLUSHING	[kW]	40	40	40
MAX. CASE PRESSURE	[bar]	6	6	6
DRY WEIGHT	[kg]	26	26	26
TEMPERATURE RANGE (**)	[°C]	-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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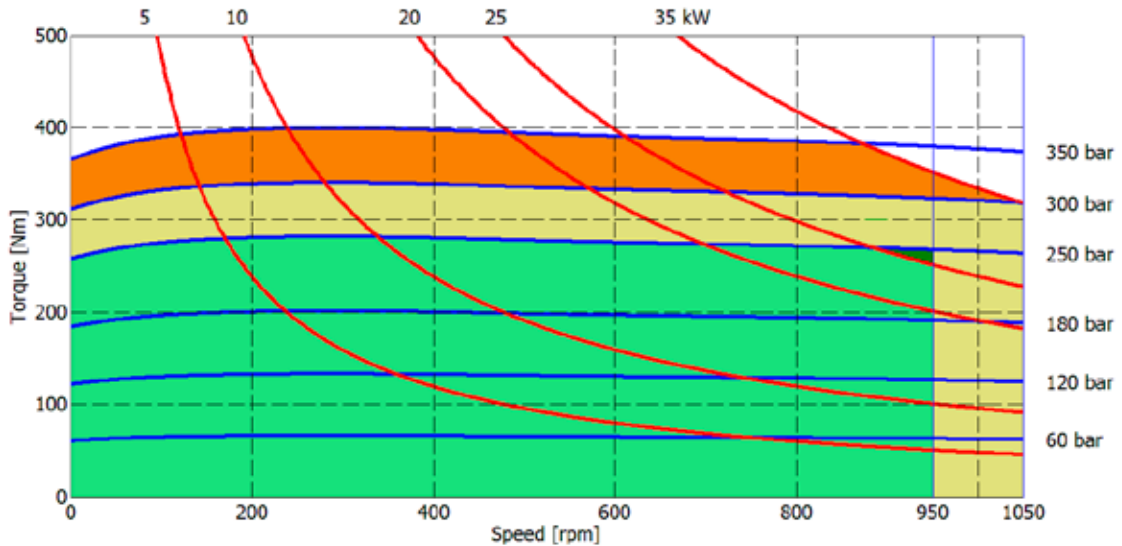
SHAFT CONFIGURATIONS

A0

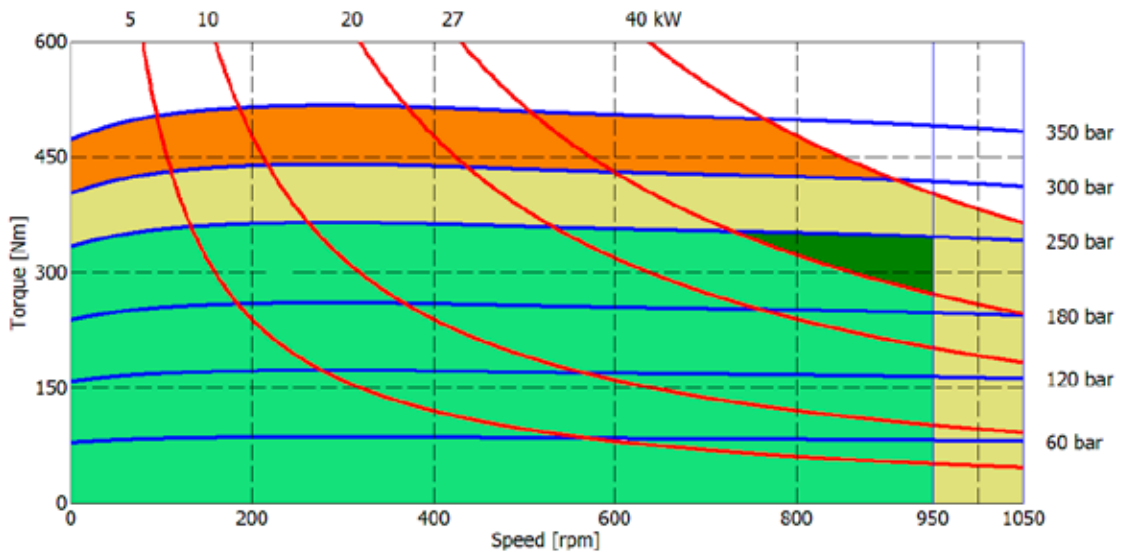


Available spline billet: **SB2**

80 cc



100 cc



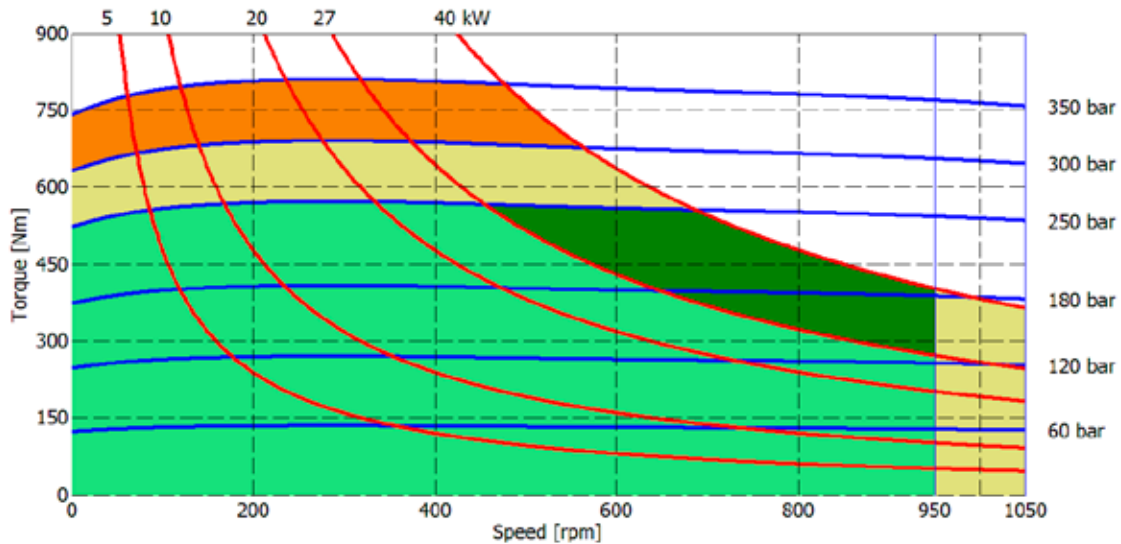
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

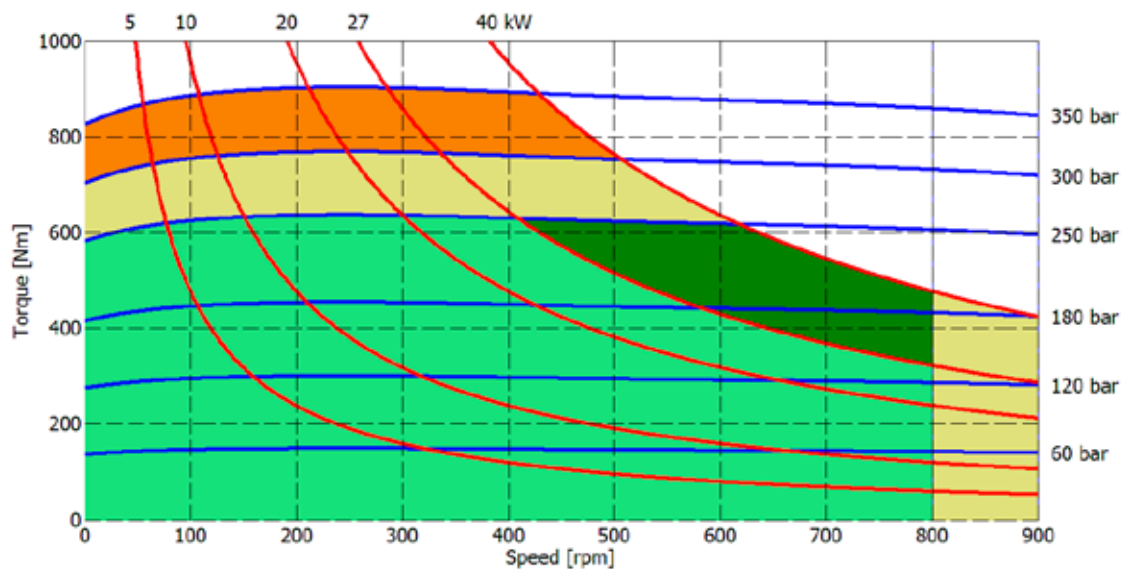
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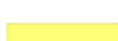

IAM H1 - PERFORMANCE DIAGRAMS

150 cc



175 cc



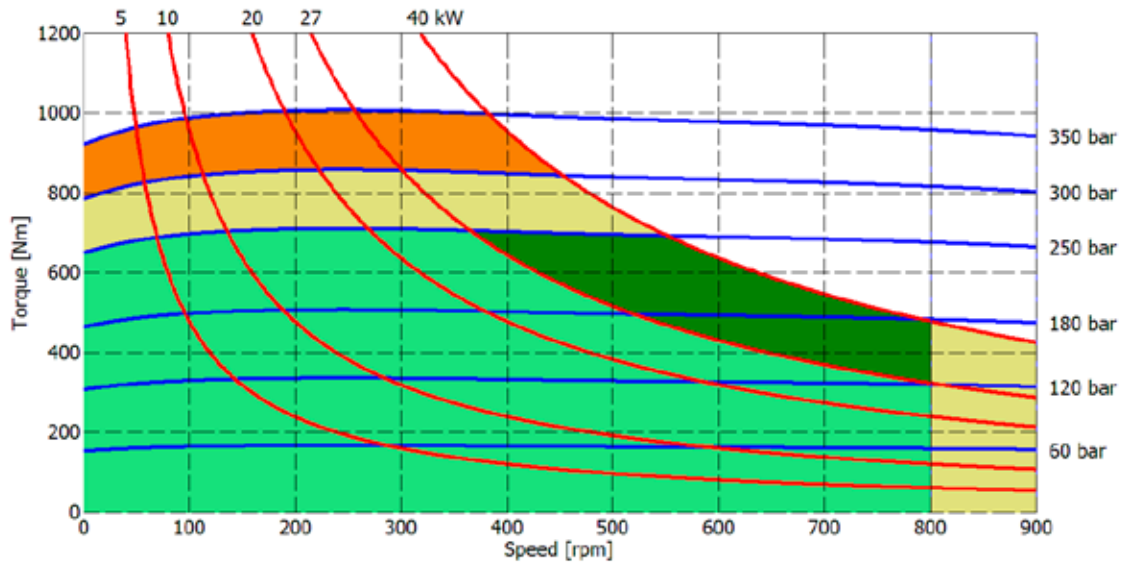
-  Continuous operation
-  Continuous operation with flushing or intermittent operation (see below for intermittent operation)
-  Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
-  Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

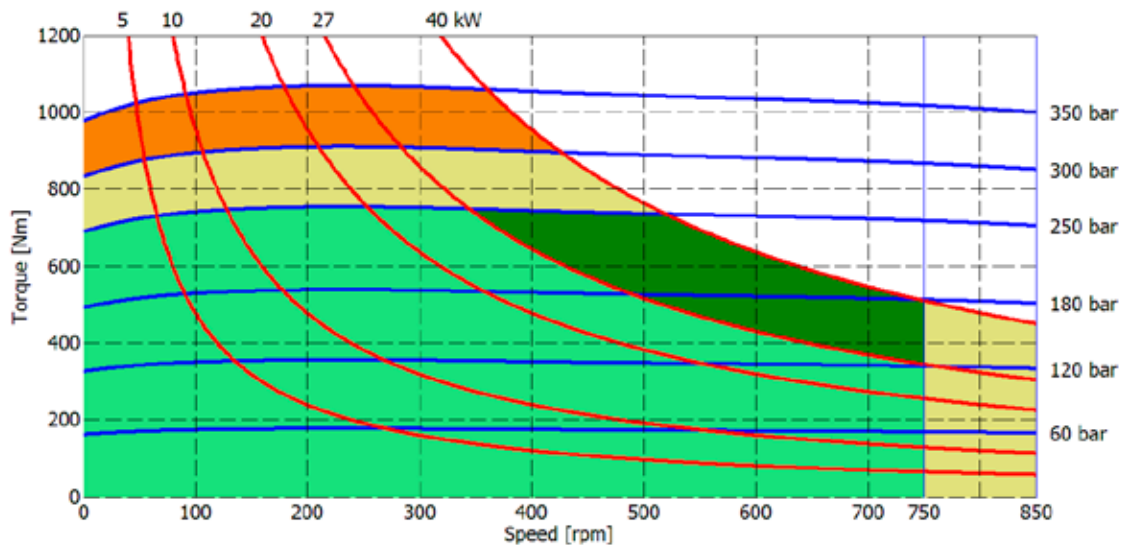
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IAM H1 - PERFORMANCE DIAGRAMS

195 cc



200 cc



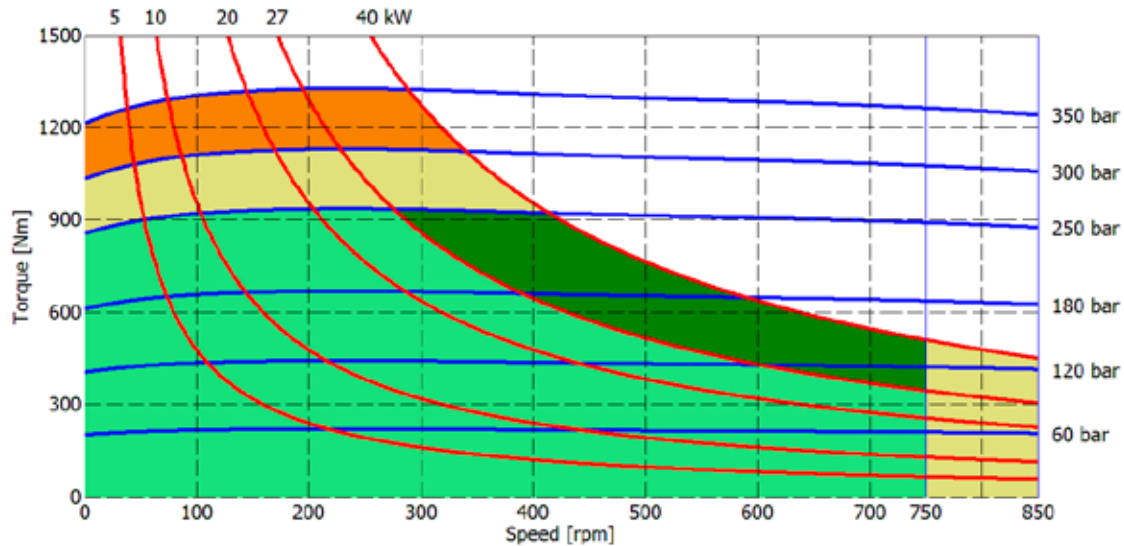
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

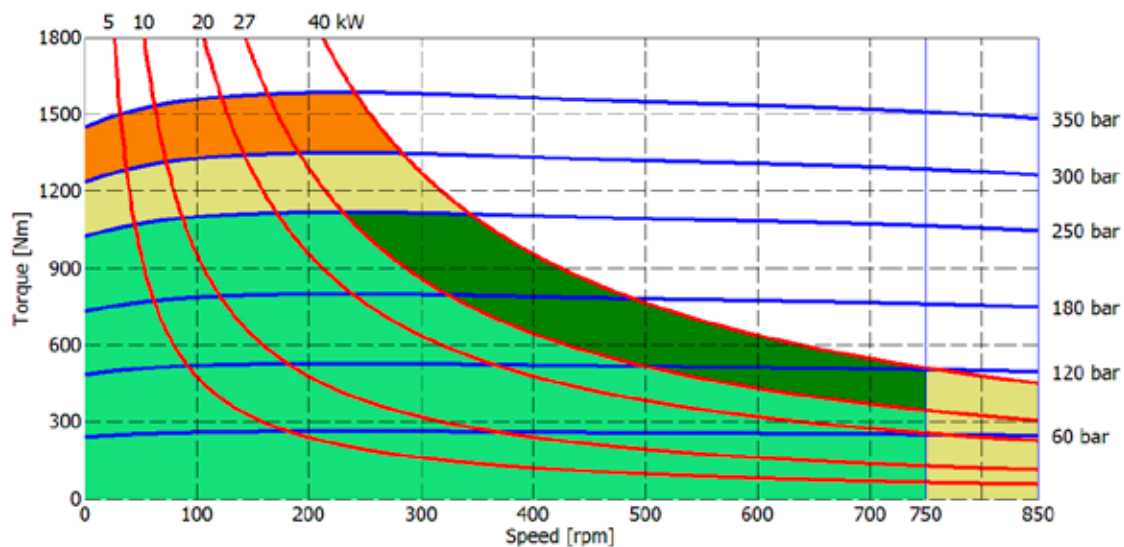
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IAM H1 - PERFORMANCE DIAGRAMS

250 cc



300 cc



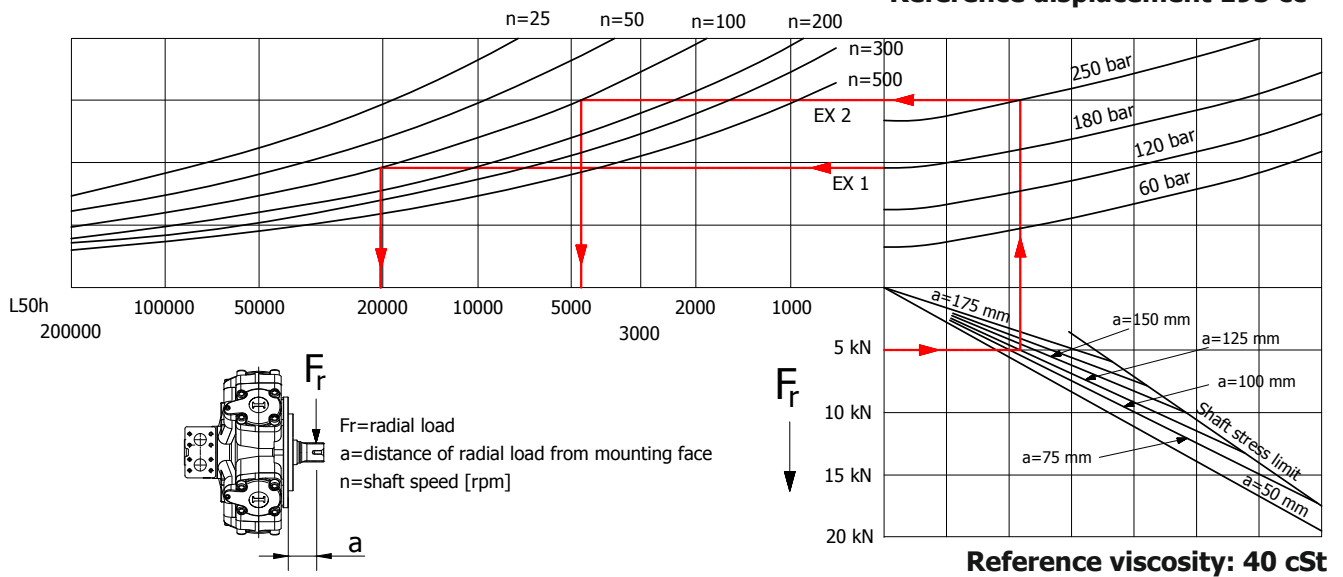
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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

Reference displacement 195 cc



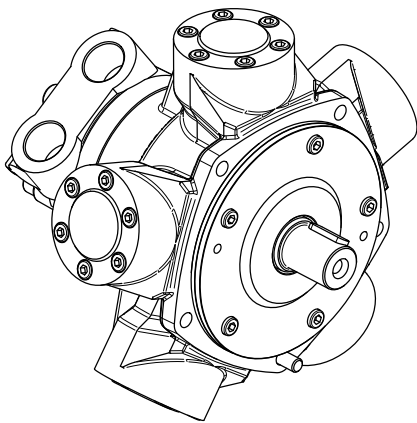
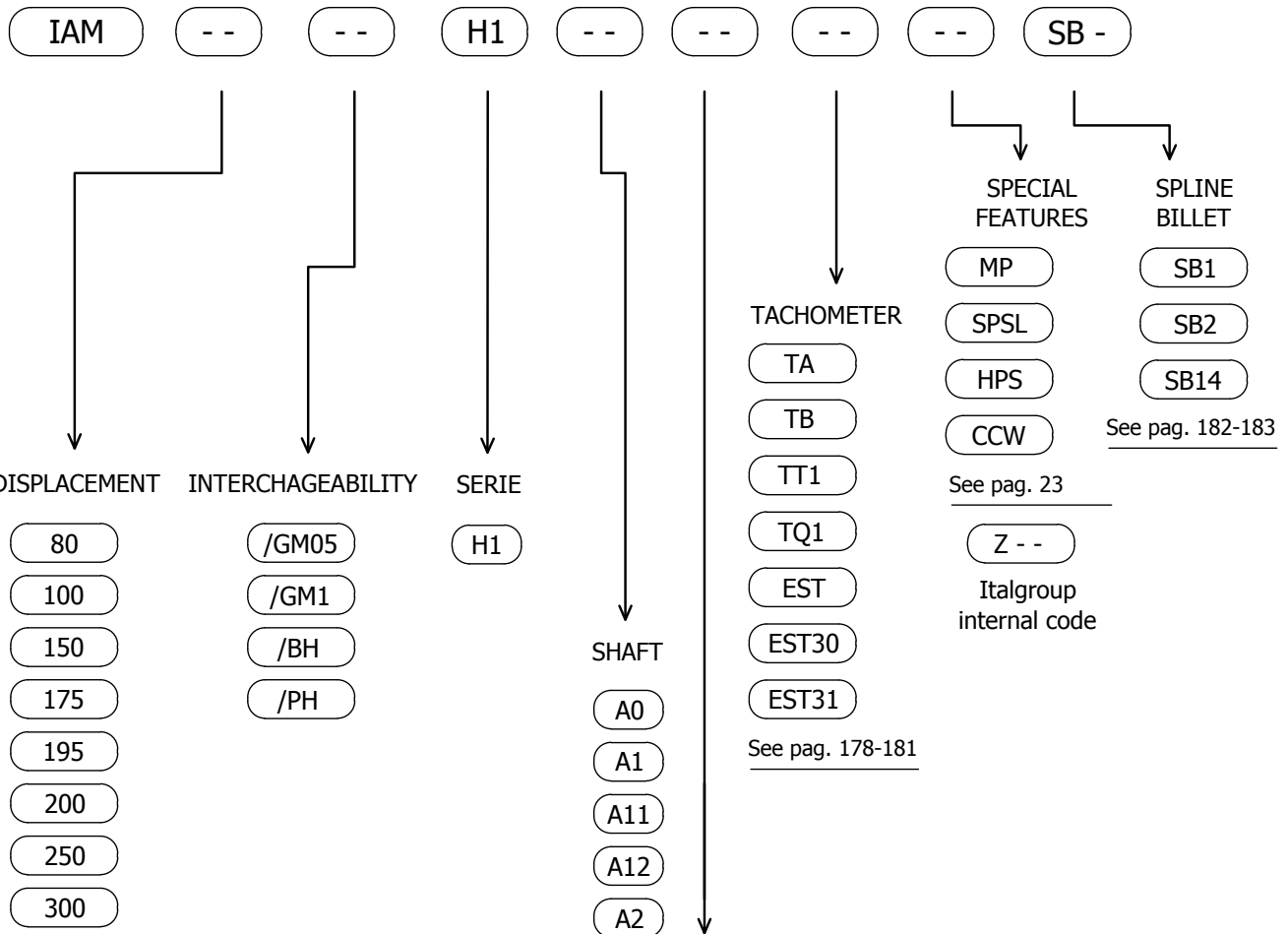
Example:

We suppose (EX1): $p=180$ [bar], $n=100$ [rpm]; we obtain an average lifetime of 20000 [h].

If we suppose (EX2): $F_r=5$ [kN], $a=125$ [mm], $p=250$ [bar] and $n=100$ [rpm], we obtain an average lifetime of 4500 [h].

The above data are referring to the IAM H1 series motors, displacement 195 cc.

IAM H1 - ORDERING CODE



DISTRIBUTOR

- D31B D31BJ
D36B D36BJ
D310B D310BJ
D40 D40J
D47 D47J
D416 D416J

See pag. 176-177

EXAMPLES:

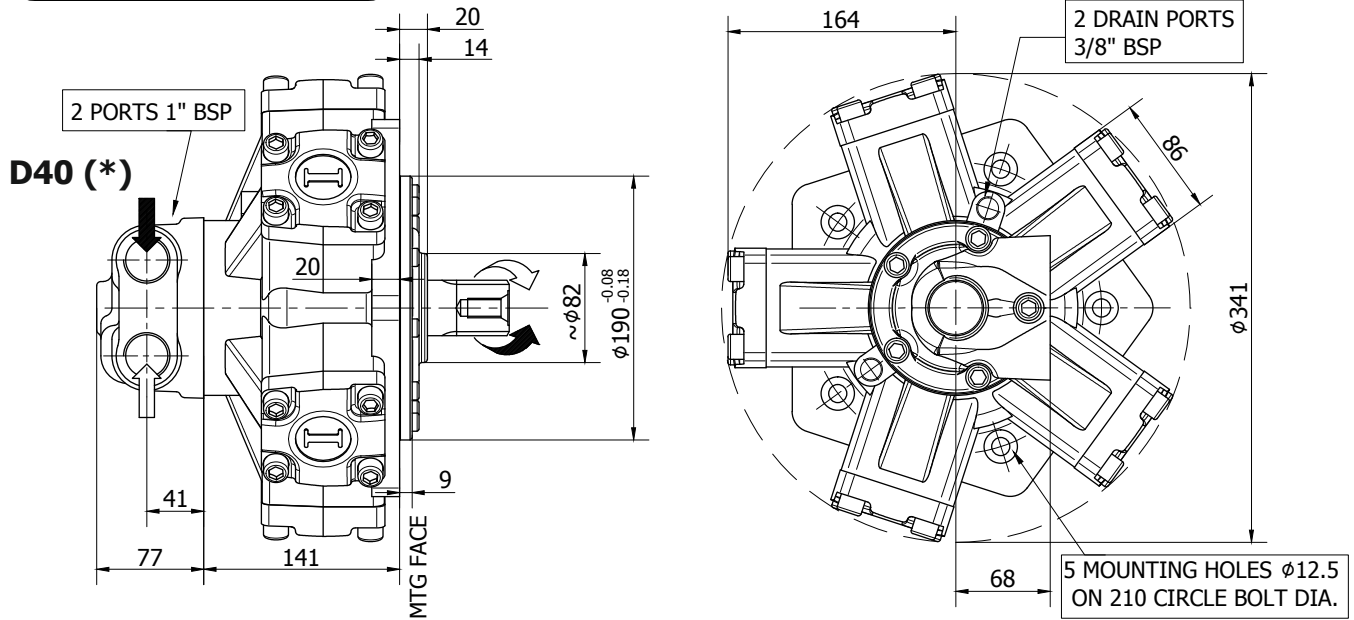
IAM 100 H1 A0 D40
IAM 195/GM1 H1 A0 D40J SB14
IAM 200/PH H1 A0 D31B

ITALGROUP SRL
IAM SERIES - IAM H2
GENERAL CATALOGUE

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IAM 160-190-250/C190 H2 - INSTALLATION DRAWING	"	52 - 53
IAM 250-300-350-400/C300 H2 - INSTALLATION DRAWING	"	54 - 55
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INSTALLATION DRAWING



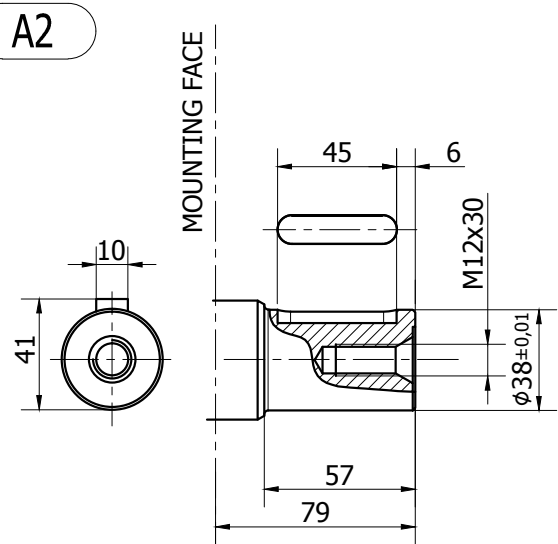
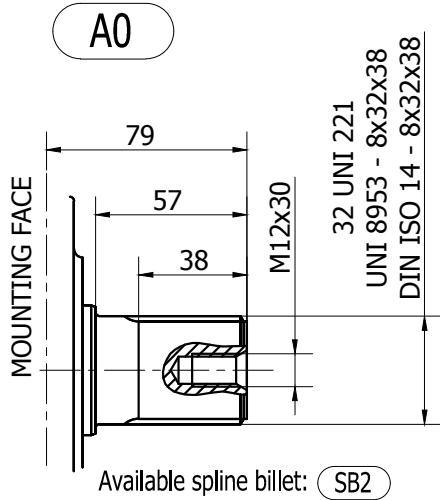
TECHNICAL DATA

		200	250	300	350
DISPLACEMENT	[cc]	198	253	314	362
SPECIFIC TORQUE	[Nm/bar]	3.2	4.0	5.0	5.8
MAX. CONT. PRESSURE	[bar]	250	250	250	250
HYDROSTATIC TEST PRES-SURE	[bar]	420	420	420	420
MAX. CONT. SPEED	[rpm]	800	750	750	650
PEAK SPEED (***)	[rpm]	900	850	850	750
MAX. CONT. POWER (****)	[kW]	33	33	33	33
MAX. POWER	[kW]	49	49	49	49
MAX. CASE PRESSURE	[bar]	6	6	6	6
DRY WEIGHT	[kg]	42	42	42	42
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70

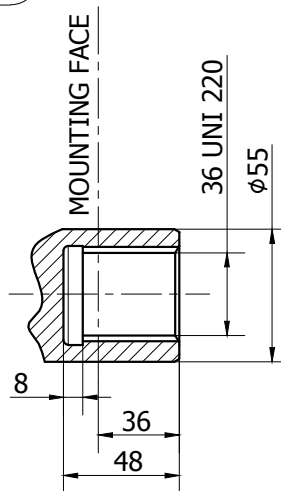
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous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

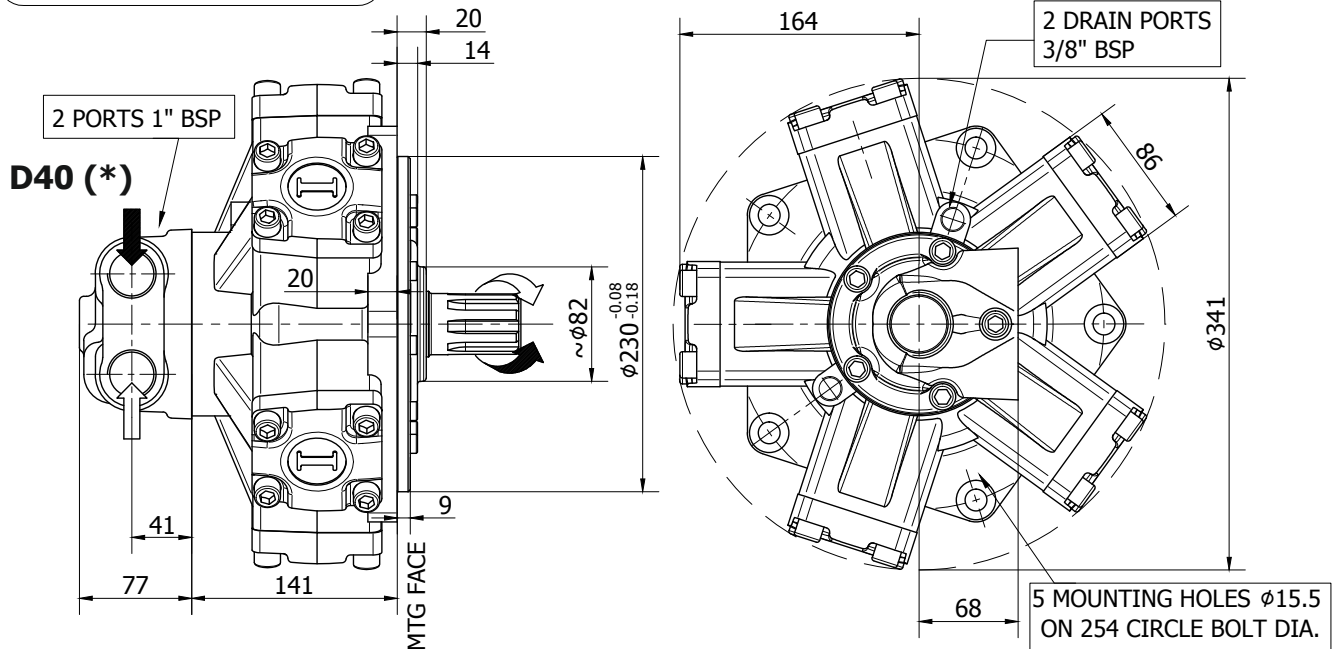


A3



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INSTALLATION DRAWING



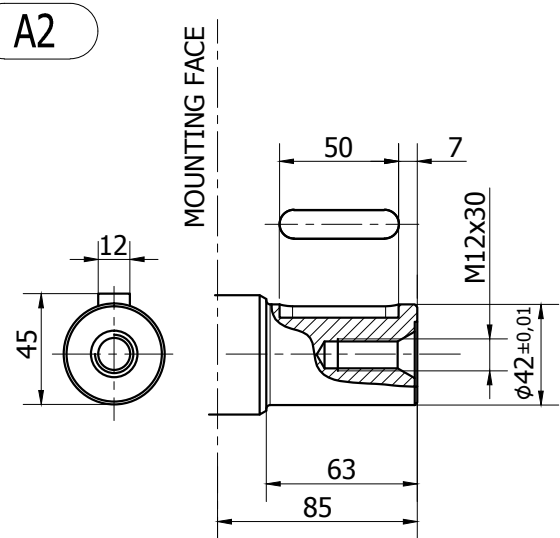
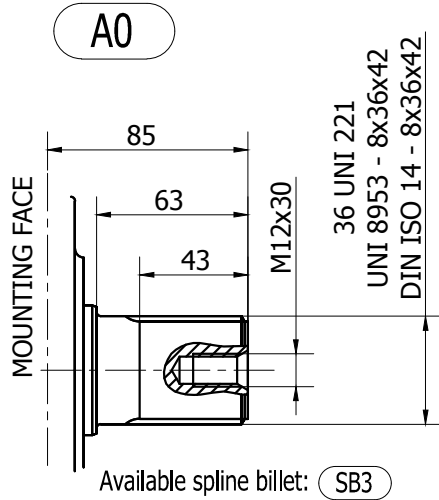
TECHNICAL DATA

		400	500	600 (*****)
DISPLACEMENT	[cc]	424	492	584
SPECIFIC TORQUE	[Nm/bar]	6.7	7.8	9.3
MAX. CONT. PRESSURE	[bar]	250	250	250
HYDROSTATIC TEST PRES-SURE	[bar]	420	420	420
MAX. CONT. SPEED	[rpm]	600	500	500
PEAK SPEED (***)	[rpm]	700	600	600
MAX. CONT. POWER (****)	[kW]	33	33	33
MAX. POWER	[kW]	49	49	49
MAX. CASE PRESSURE	[bar]	6	6	6
DRY WEIGHT	[kg]	42	42	42
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70

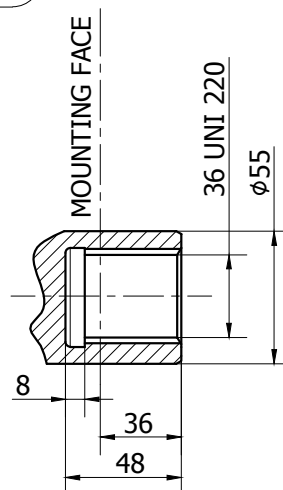
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.
- (*****) Only for spare parts market. Please contact our technical department for more details.

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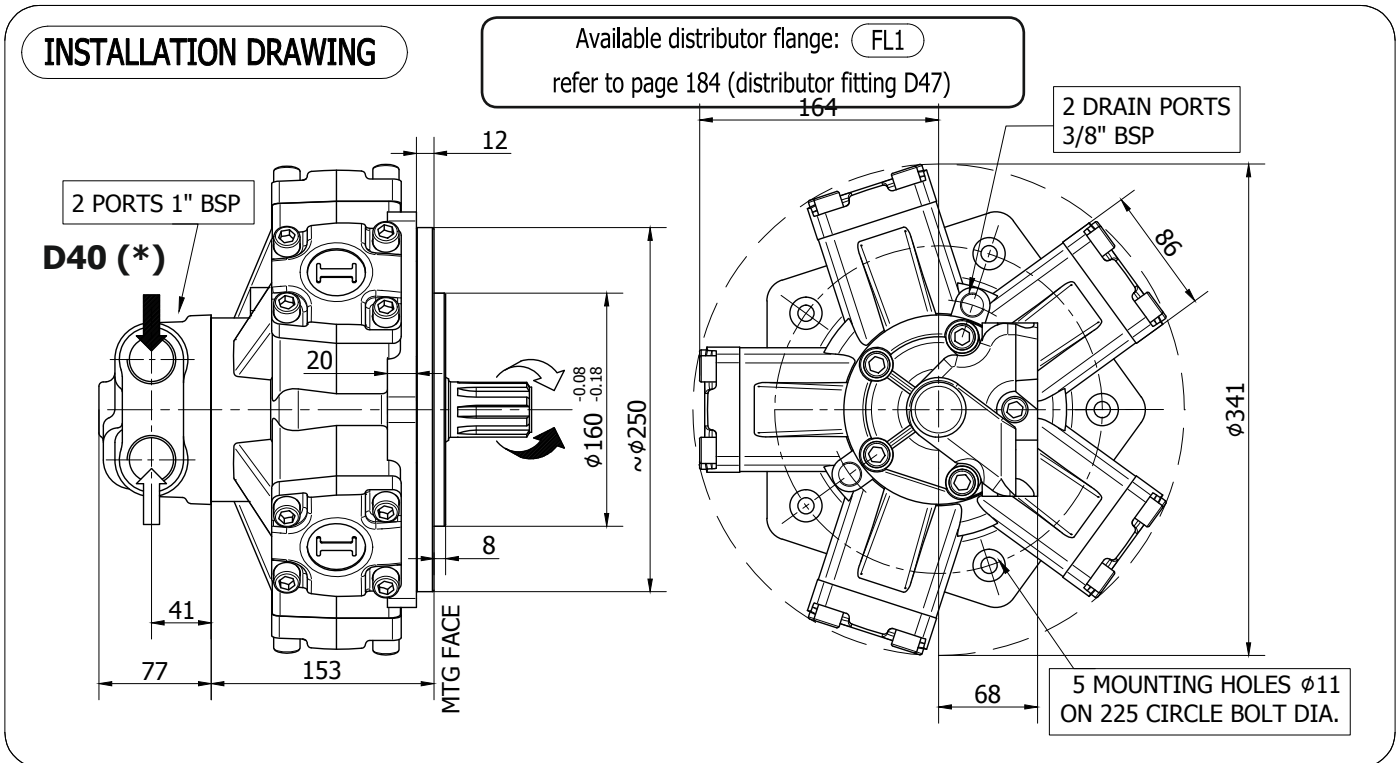
SHAFT CONFIGURATIONS



A3



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TECHNICAL DATA

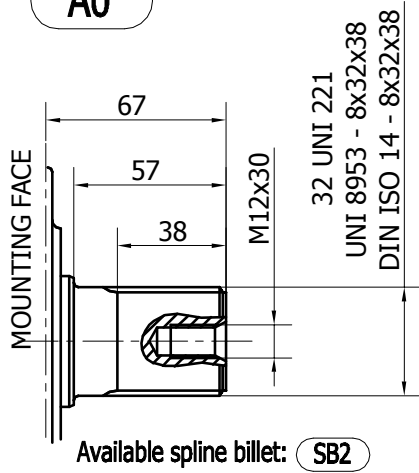
		160	190	250
DISPLACEMENT	[cc]	162	198	253
SPECIFIC TORQUE	[Nm/bar]	2.6	3.2	4.0
MAX. CONT. PRESSURE	[bar]	250	250	250
HYDROSTATIC TEST PRES- SURE	[bar]	420	420	420
MAX. CONT. SPEED	[rpm]	950	800	750
PEAK SPEED (***)	[rpm]	1050	900	850
MAX. CONT. POWER (****)	[kW]	33	33	33
MAX. POWER	[kW]	49	49	49
MAX. CASE PRESSURE	[bar]	6	6	6
DRY WEIGHT	[kg]	42	42	42
TEMPERATURE RANGE (**)	[°C]	-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.

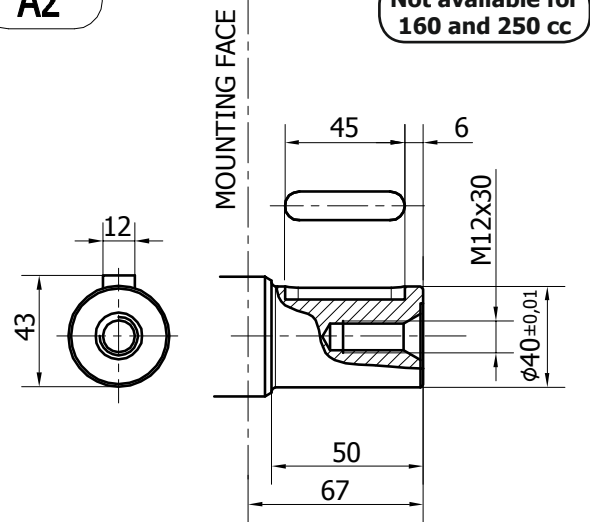
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SHAFT CONFIGURATIONS

A0

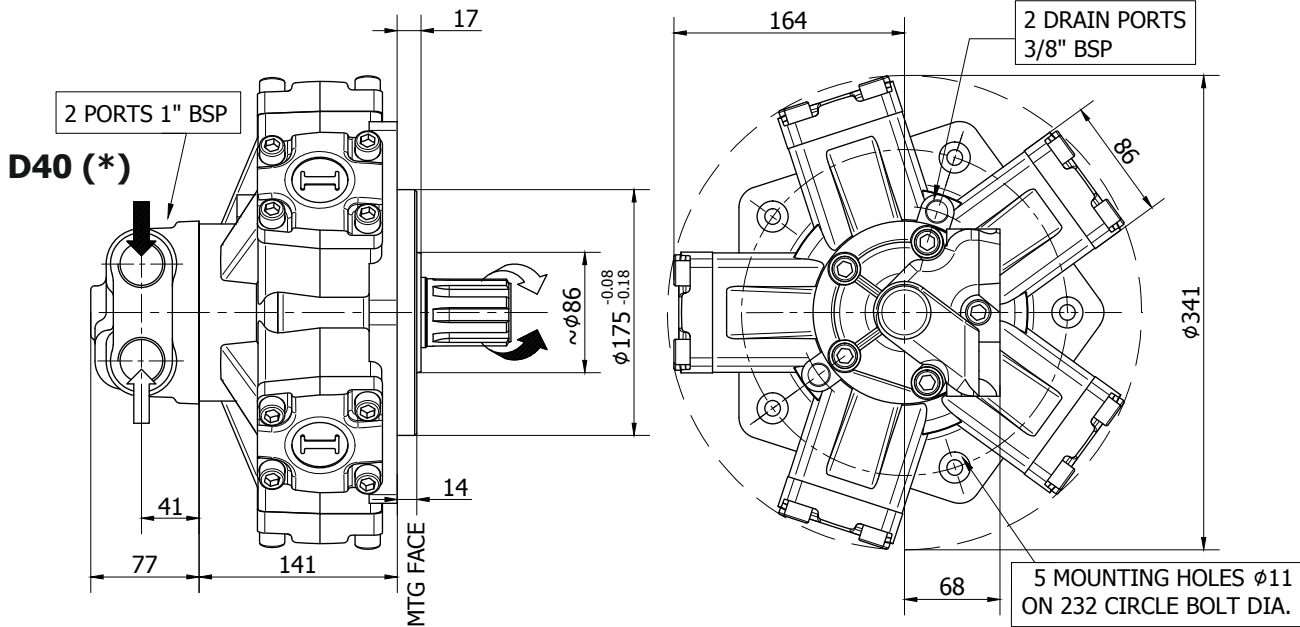


A2



INSTALLATION DRAWING

Available distributor flange: **FL1**
refer to page 184 (distributor fitting D47)



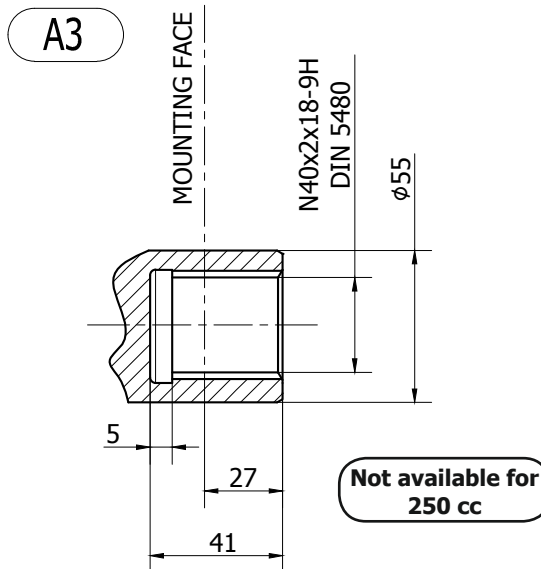
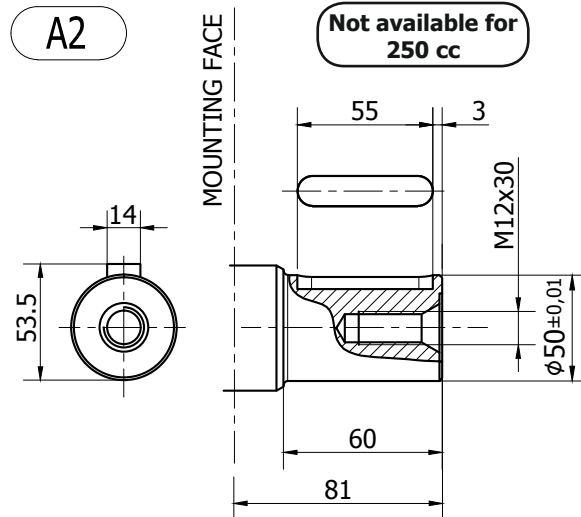
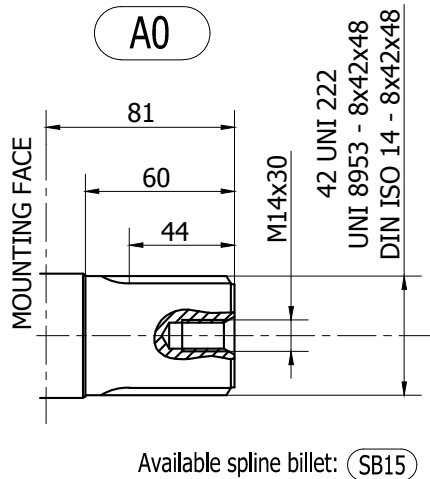
TECHNICAL DATA

		250	300	350	400
DISPLACEMENT	[cc]	253	289	339	393
SPECIFIC TORQUE	[Nm/bar]	4.0	4.6	5.4	6.3
MAX. CONT. PRESSURE	[bar]	250	250	250	250
HYDROSTATIC TEST PRES-SURE	[bar]	420	420	420	420
MAX. CONT. SPEED	[rpm]	750	750	650	600
PEAK SPEED (***)	[rpm]	850	850	750	700
MAX. CONT. POWER (****)	[kW]	33	33	33	33
MAX. POWER	[kW]	49	49	49	49
MAX. CASE PRESSURE	[bar]	6	6	6	6
DRY WEIGHT	[kg]	42	42	42	42
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70

- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for differents 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.

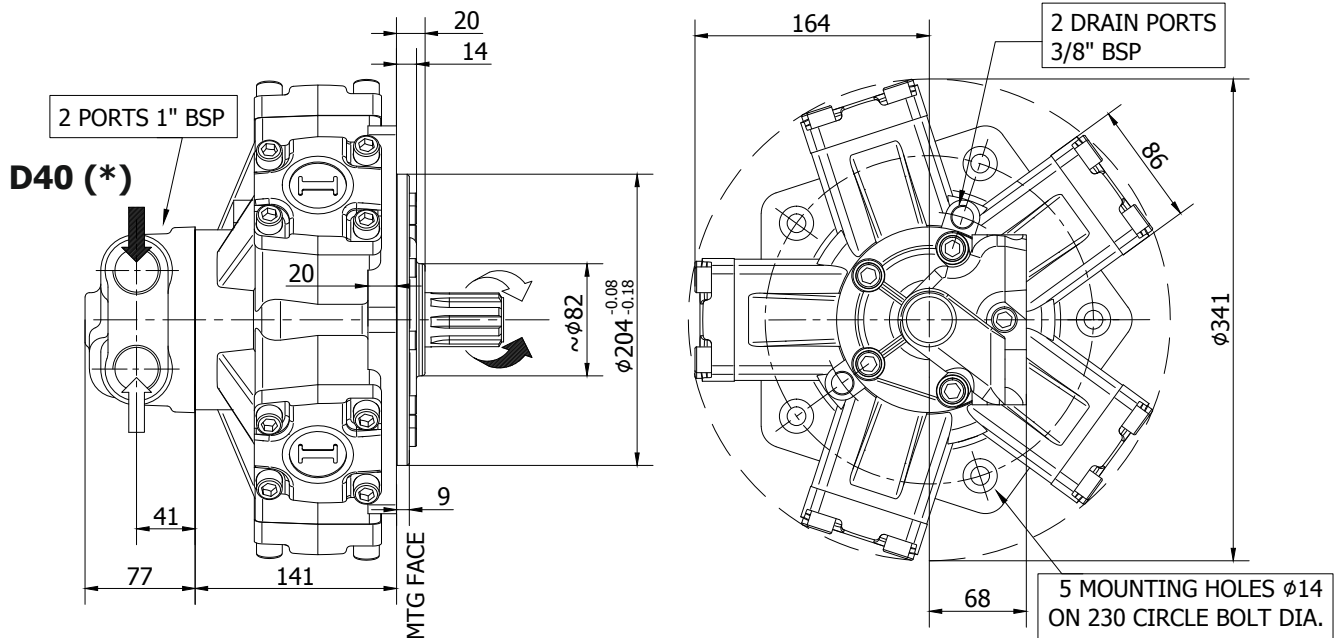
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INSTALLATION DRAWING



TECHNICAL DATA

		200
DISPLACEMENT	[cc]	198
SPECIFIC TORQUE	[Nm/bar]	3.2
MAX. CONT. PRESSURE	[bar]	250
HYDROSTATIC TEST PRESSURE	[bar]	420
MAX. CONT. SPEED	[rpm]	800
PEAK SPEED (***)	[rpm]	900
MAX. CONT. POWER (****)	[kW]	33
MAX. POWER	[kW]	49
MAX. CASE PRESSURE	[bar]	6
DRY WEIGHT	[kg]	42
TEMPERATURE RANGE (**)	[°C]	-30÷70

- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.

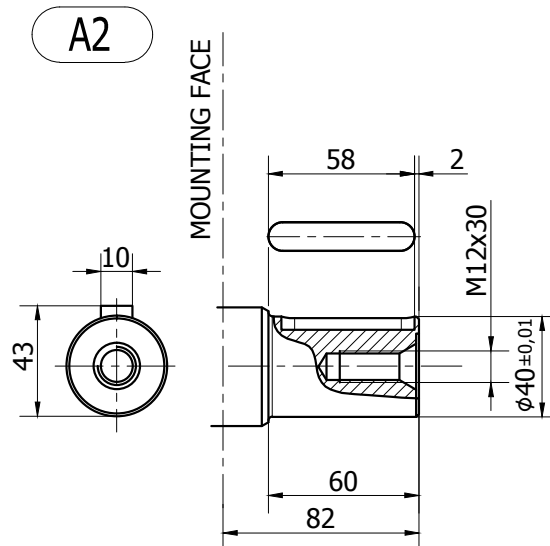
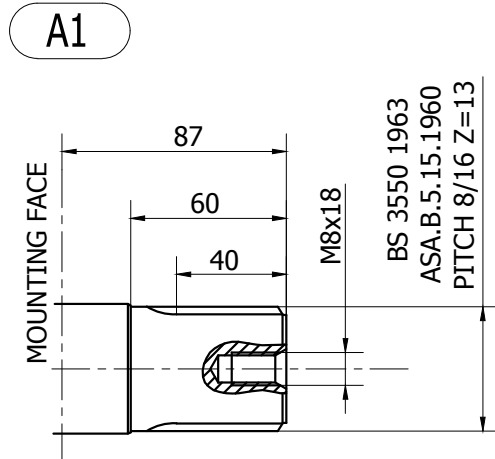
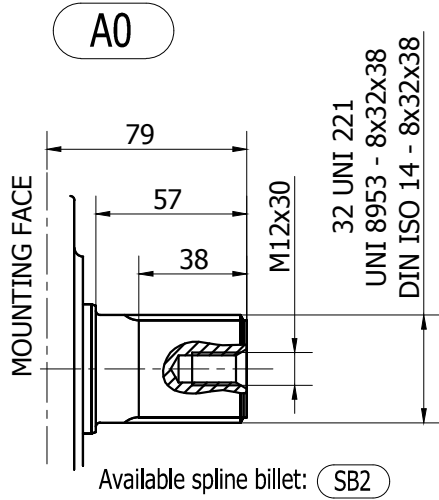
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).

- (***) Do not exceed maximum power (see pag. 13).

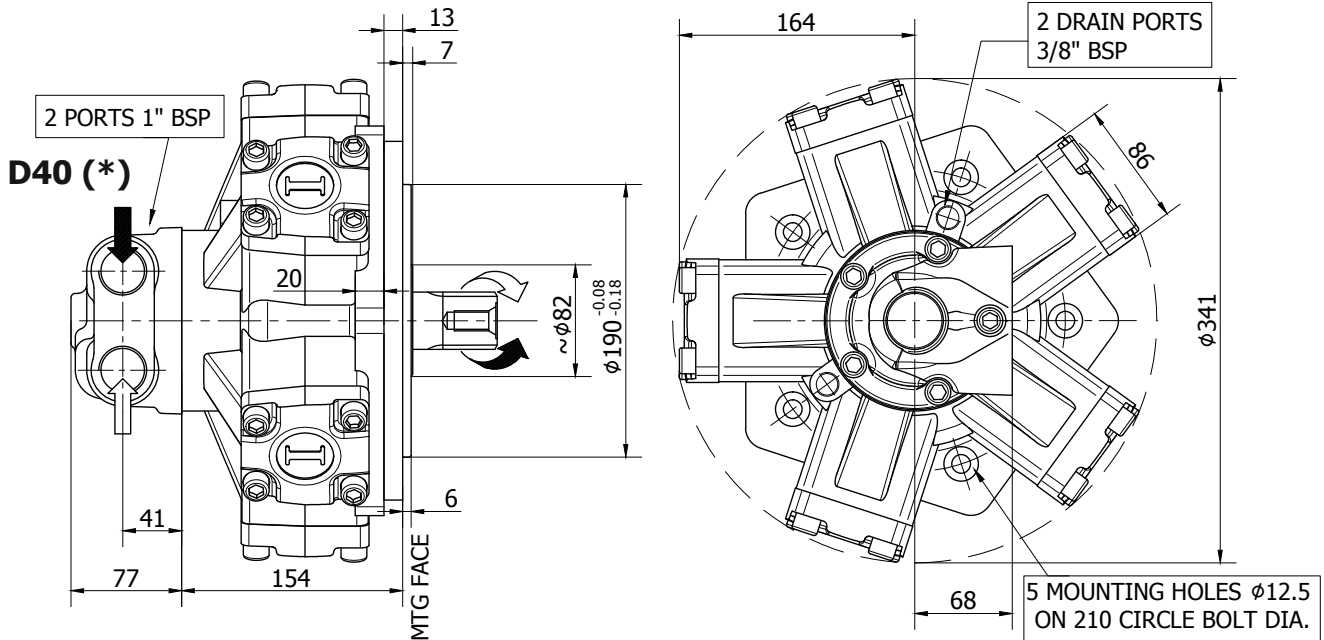
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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SHAFT CONFIGURATIONS



INSTALLATION DRAWING



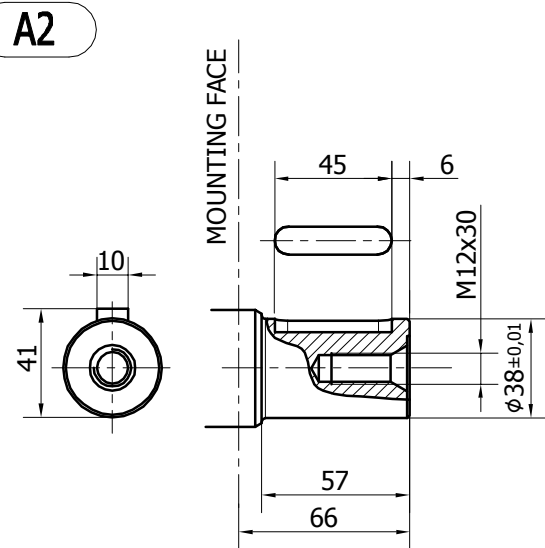
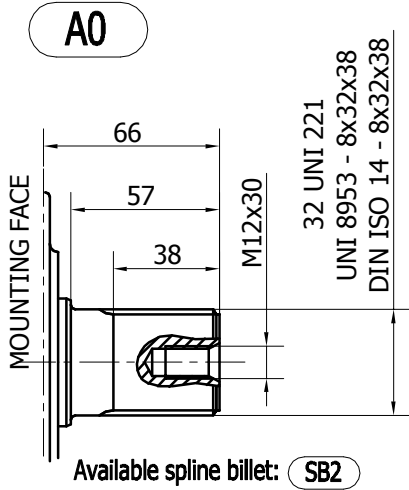
TECHNICAL DATA

	200	250	300	350	400	500	600 (*****)
DISPLACEMENT [cc]	198	253	314	362	424	492	584
SPECIFIC TORQUE [Nm/bar]	3.2	4.0	5.0	5.8	6.7	7.8	9.3
MAX. CONT. PRESSURE [bar]	250	250	250	250	250	250	250
HYDROSTATIC TEST PRESSURE [bar]	420	420	420	420	420	420	420
MAX. CONT. SPEED [rpm]	800	750	750	650	600	500	500
PEAK SPEED (***) [rpm]	900	850	850	750	700	600	600
MAX. CONT. POWER (****) [kW]	33	33	33	33	33	33	33
MAX. POWER [kW]	49	49	49	49	49	49	49
MAX. CASE PRESSURE [bar]	6	6	6	6	6	6	6
DRY WEIGHT [kg]	42	42	42	42	42	42	42
TEMPERATURE RANGE (**) [°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

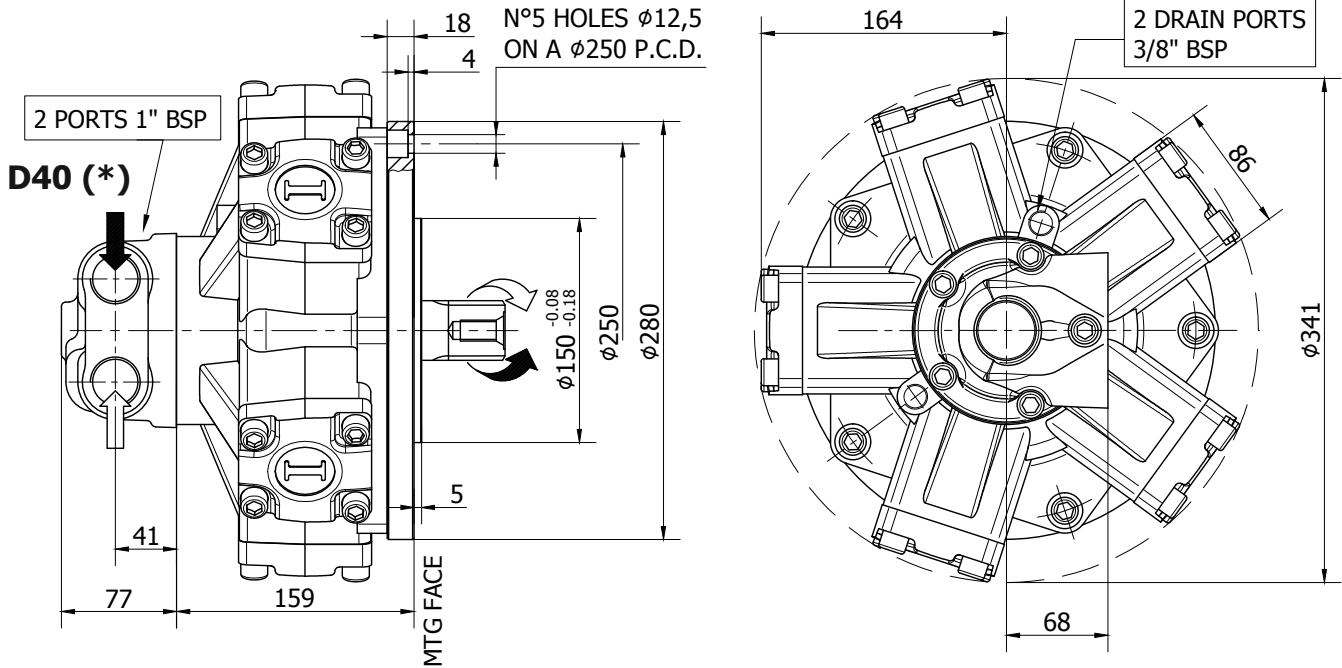
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.
- (*****) Only for spare parts market. Please contact our technical department for more details.

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SHAFT CONFIGURATIONS



INSTALLATION DRAWING



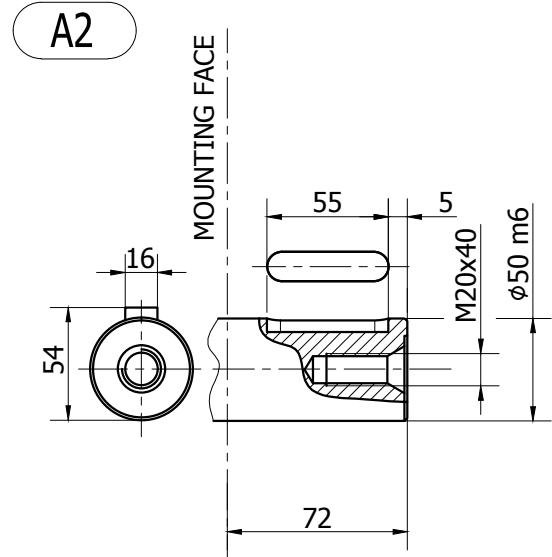
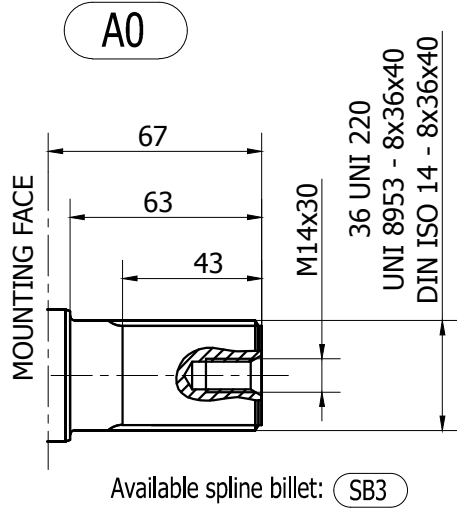
TECHNICAL DATA

	200	250	300	350	400	500	600 (****)
DISPLACEMENT [cc]	198	253	314	362	424	492	584
SPECIFIC TORQUE [Nm/bar]	3.2	4.0	5.0	5.8	6.7	7.8	9.3
MAX. CONT. PRESSURE [bar]	250	250	250	250	250	250	250
HYDROSTATIC TEST PRES-SURE [bar]	420	420	420	420	420	420	420
MAX. CONT. SPEED [rpm]	800	750	750	650	600	500	500
PEAK SPEED (***) [rpm]	900	850	850	750	700	600	600
MAX. CONT. POWER (****) [kW]	33	33	33	33	33	33	33
MAX. POWER [kW]	49	49	49	49	49	49	49
MAX. CASE PRESSURE [bar]	6	6	6	6	6	6	6
DRY WEIGHT [kg]	42	42	42	42	42	42	42
TEMPERATURE RANGE (**) [°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

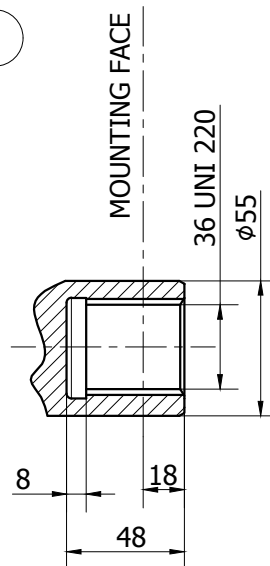
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.
- (*****) Only for spare parts market. Please contact our technical department for more details.

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SHAFT CONFIGURATIONS

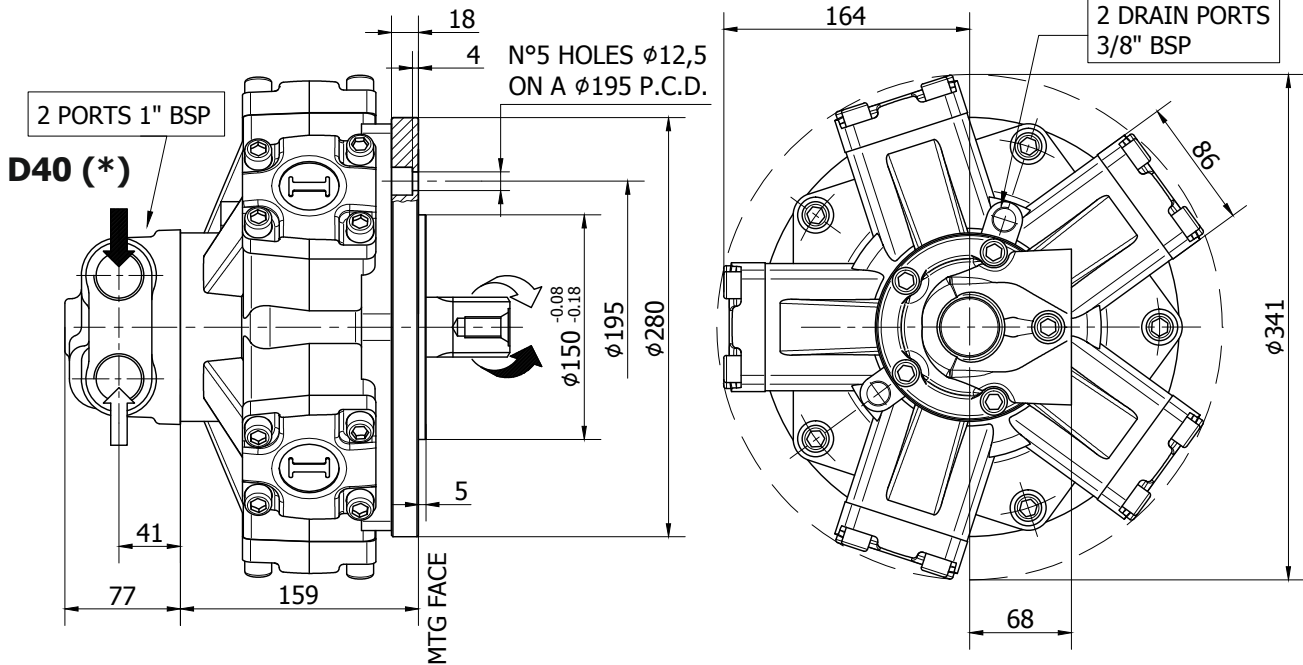


A3



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INSTALLATION DRAWING



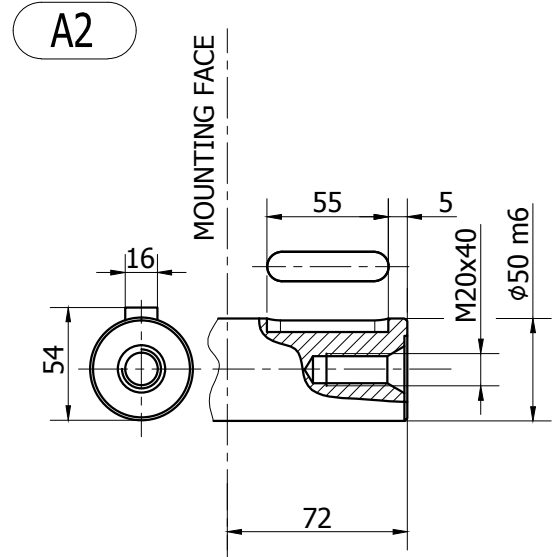
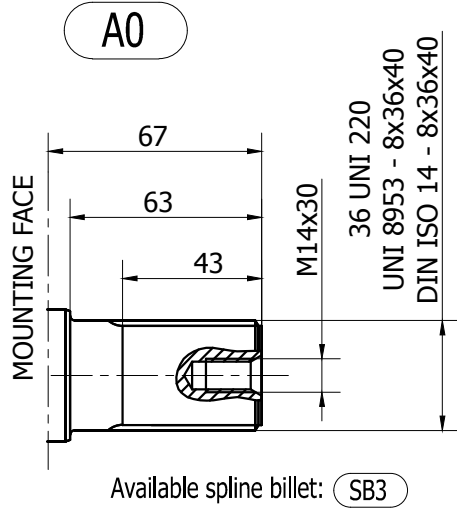
TECHNICAL DATA

	200	250	300	350	400	500	600 (****)
DISPLACEMENT [cc]	198	253	314	362	424	492	584
SPECIFIC TORQUE [Nm/bar]	3.2	4.0	5.0	5.8	6.7	7.8	9.3
MAX. CONT. PRESSURE [bar]	250	250	250	250	250	250	250
HYDROSTATIC TEST PRESSURE [bar]	420	420	420	420	420	420	420
MAX. CONT. SPEED [rpm]	800	750	750	650	600	500	500
PEAK SPEED (***) [rpm]	900	850	850	750	700	600	600
MAX. CONT. POWER (****) [kW]	33	33	33	33	33	33	33
MAX. POWER [kW]	49	49	49	49	49	49	49
MAX. CASE PRESSURE [bar]	6	6	6	6	6	6	6
DRY WEIGHT [kg]	42	42	42	42	42	42	42
TEMPERATURE RANGE (**) [°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

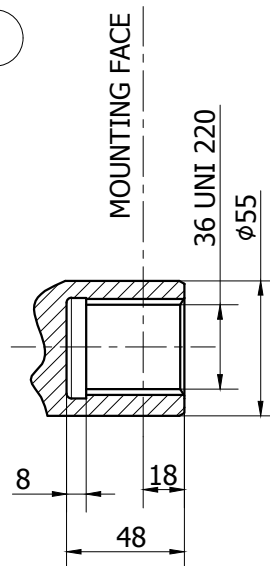
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.
- (*****) Only for spare parts market. Please contact our technical department for more details.

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SHAFT CONFIGURATIONS

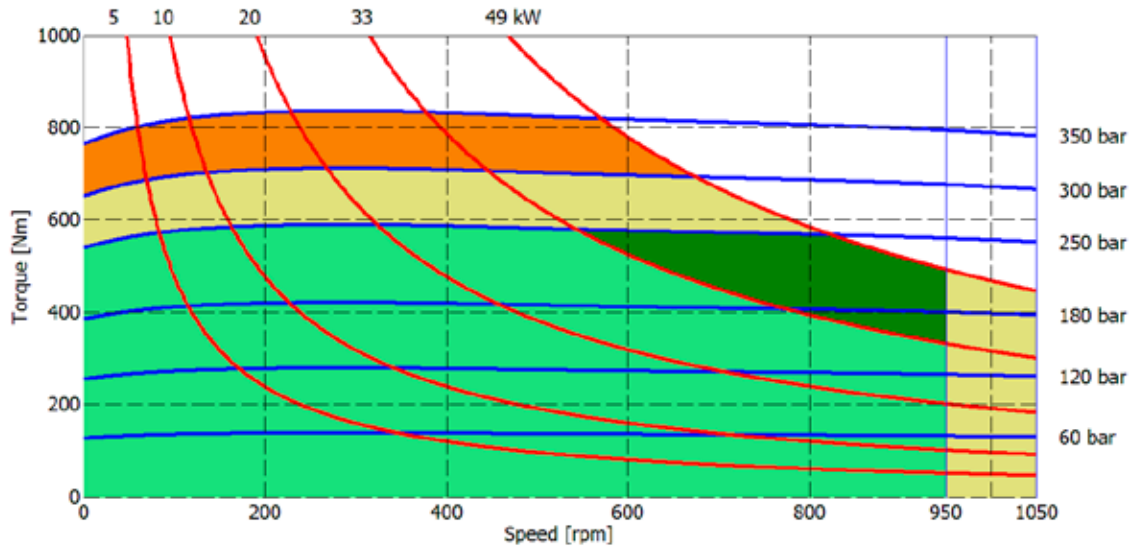


A3

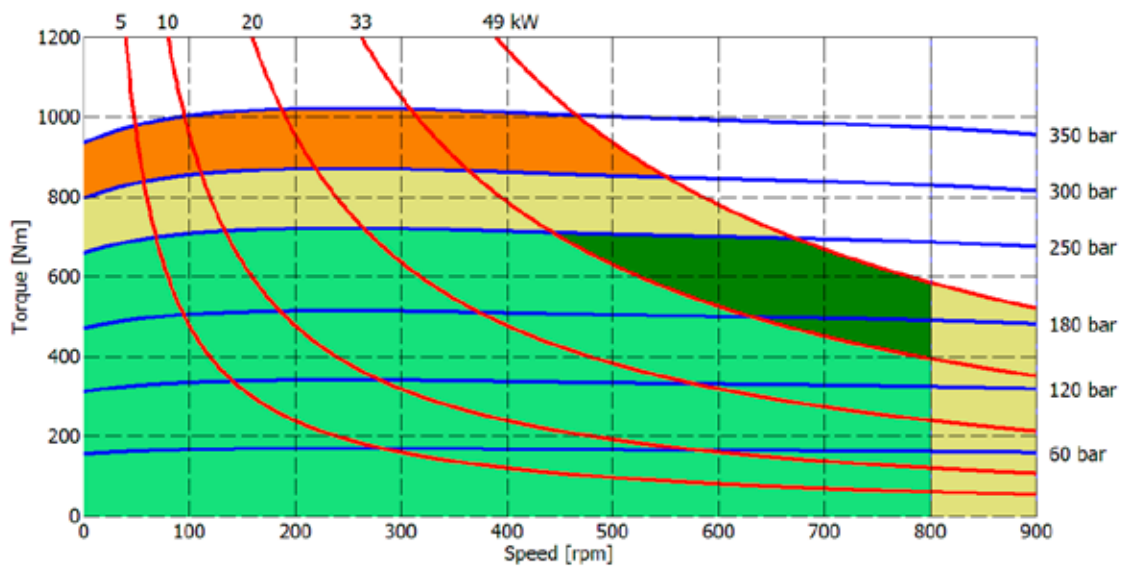


IAM H2 - PERFORMANCE DIAGRAMS

160 cc



190 cc



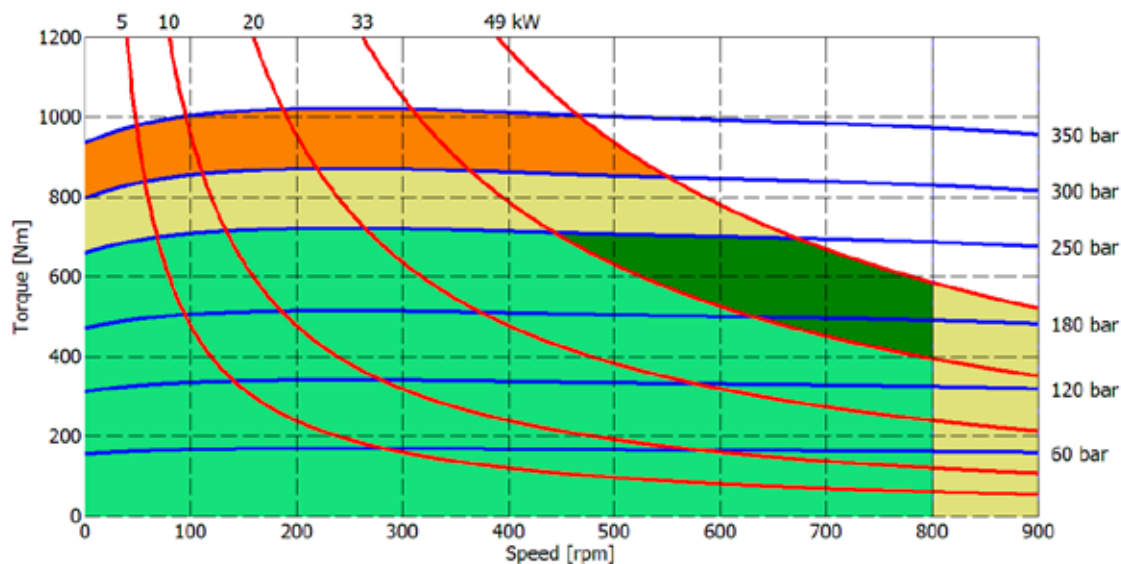
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

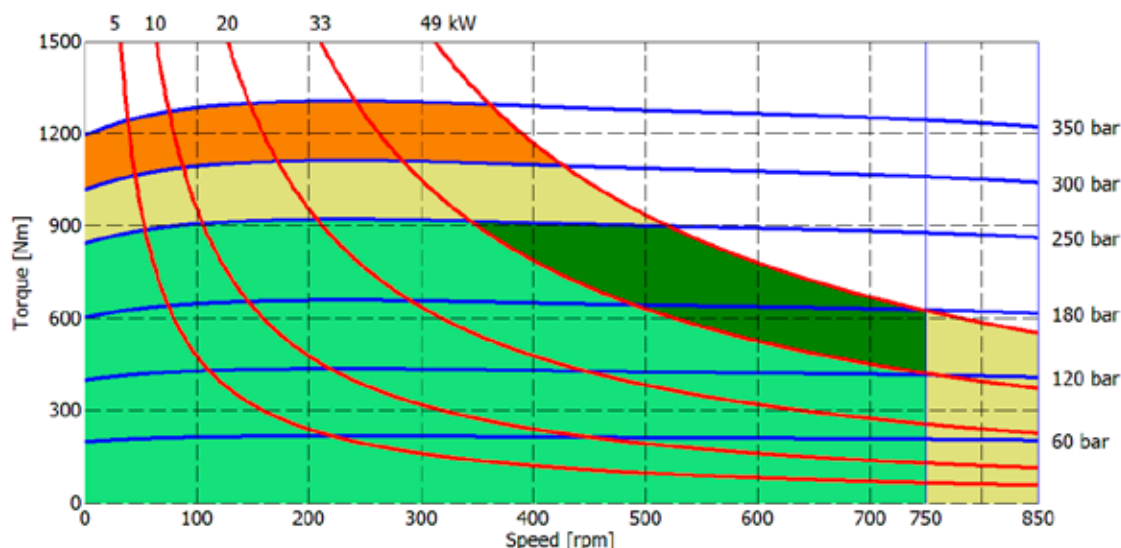
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IAM H2 - PERFORMANCE DIAGRAMS

200 cc



250 cc



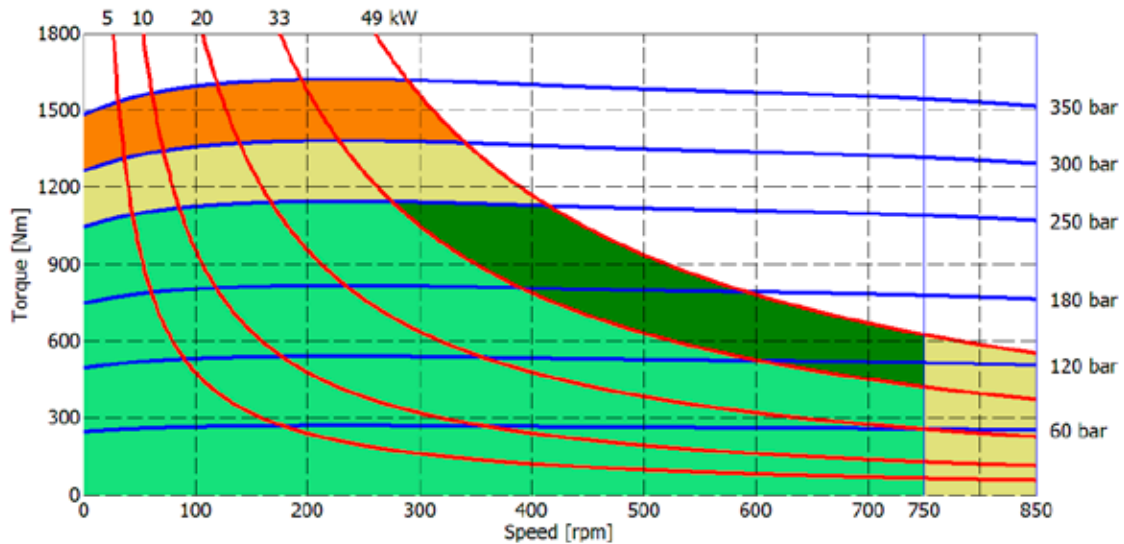
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

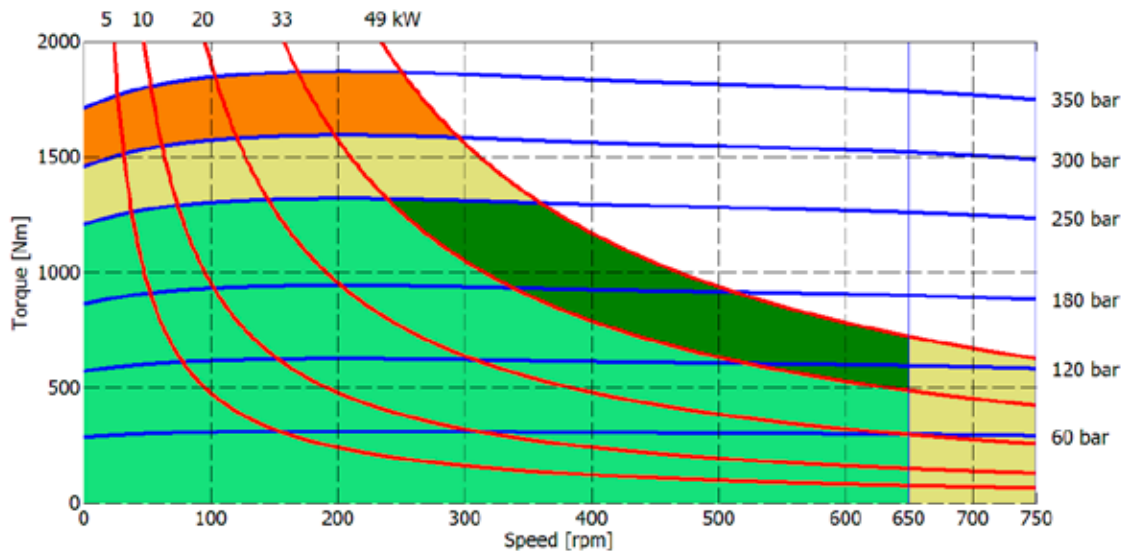
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IAM H2 - PERFORMANCE DIAGRAMS

300 cc



350 cc



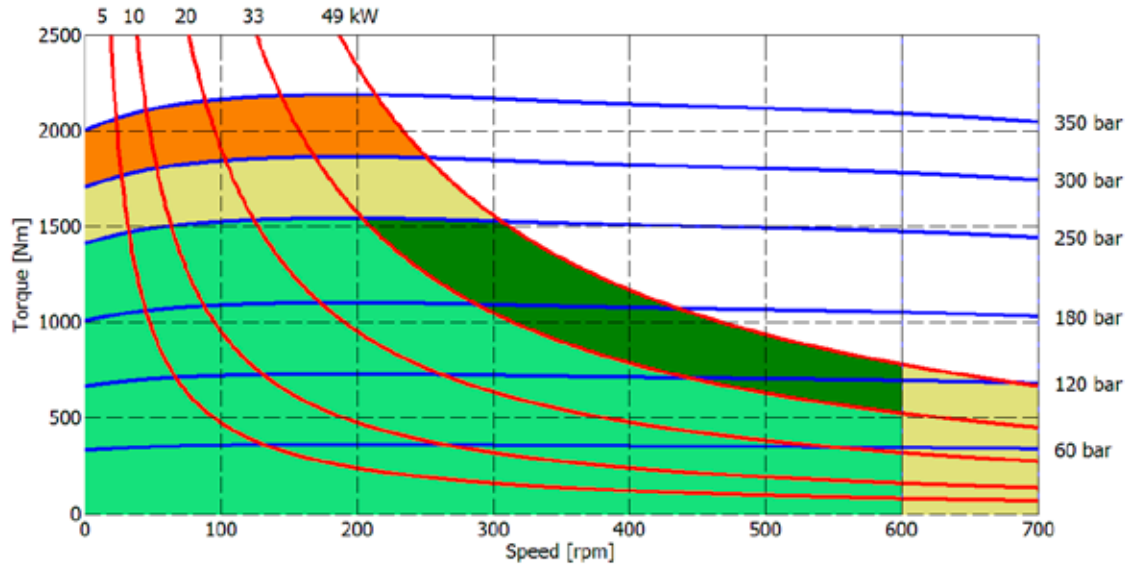
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

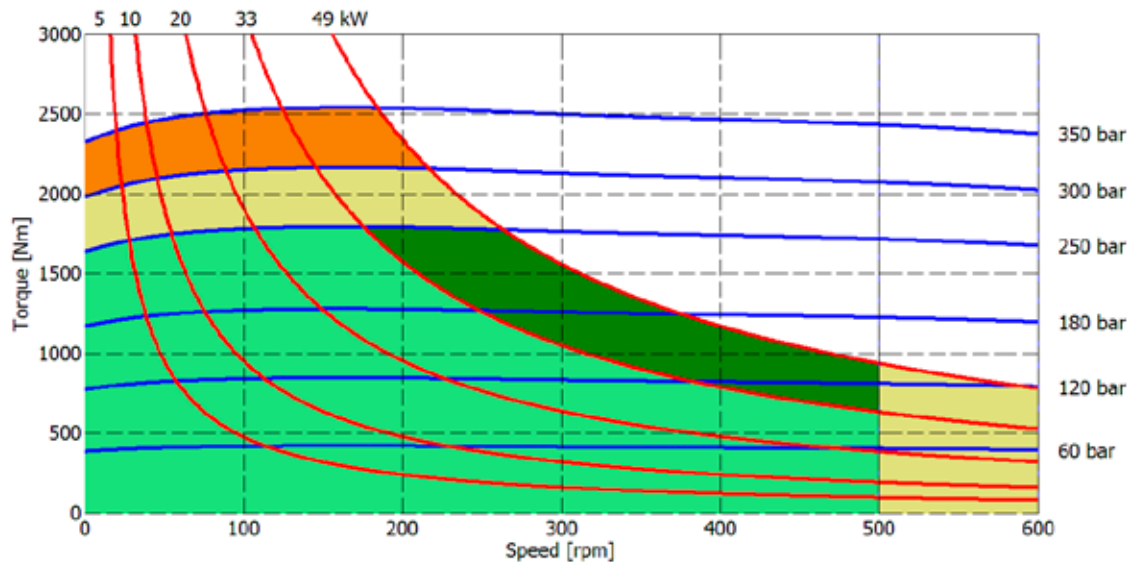
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IAM H2 - PERFORMANCE DIAGRAMS

400 cc



500 cc

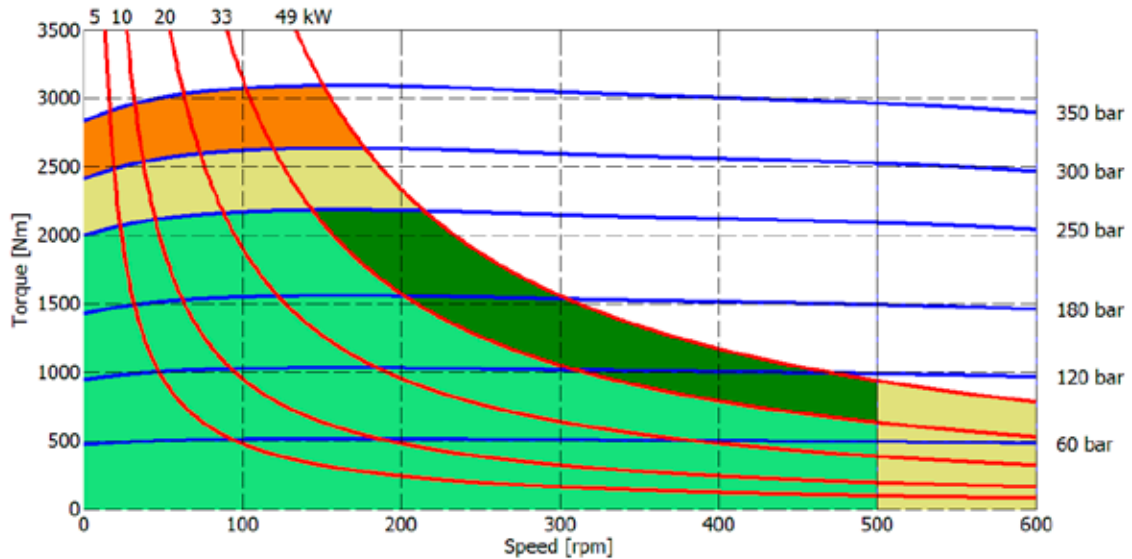


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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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600 cc

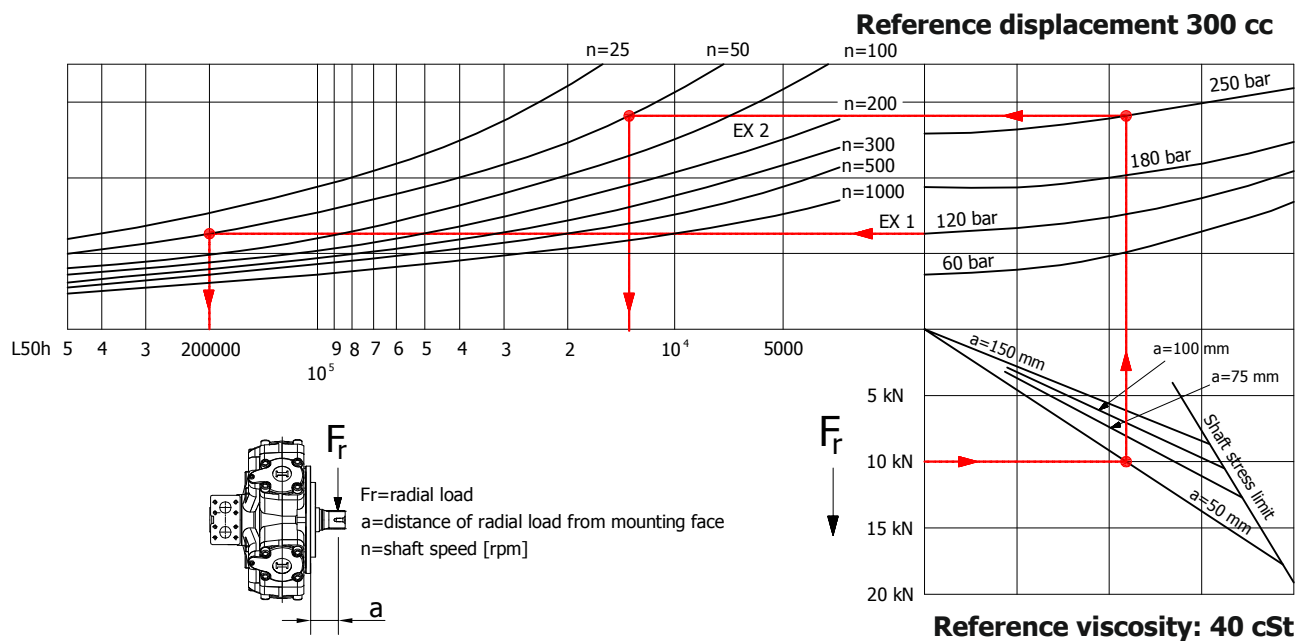


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

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BEARING LIFE



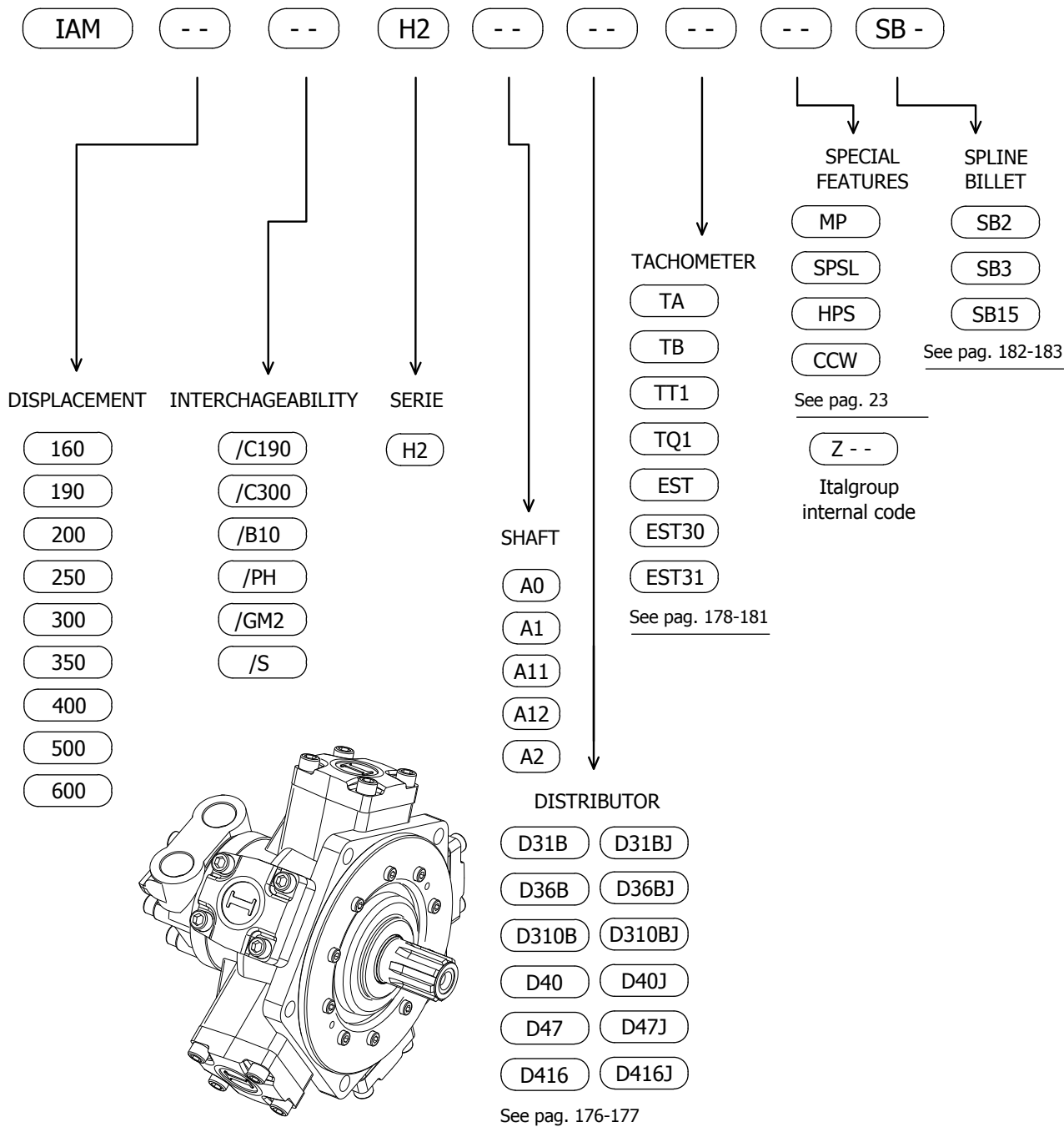
Example:

We suppose (EX1): $p=120$ [bar], $n=50$ [rpm]; we obtain an average lifetime of 200000 [h].

If we suppose (EX2): $F_r=10$ [kN], $a=50$ [mm], $n=50$ [rpm] and $p=250$ [bar] we obtain an average lifetime of 12500 [h].

The above data are referring to the IAM H2 series motors, displacement 300 cc.

IAM H2 - ORDERING CODE



EXAMPLES:

IAM 190/C190 H2 A0 D40

IAM 300 H2 A2 D310B

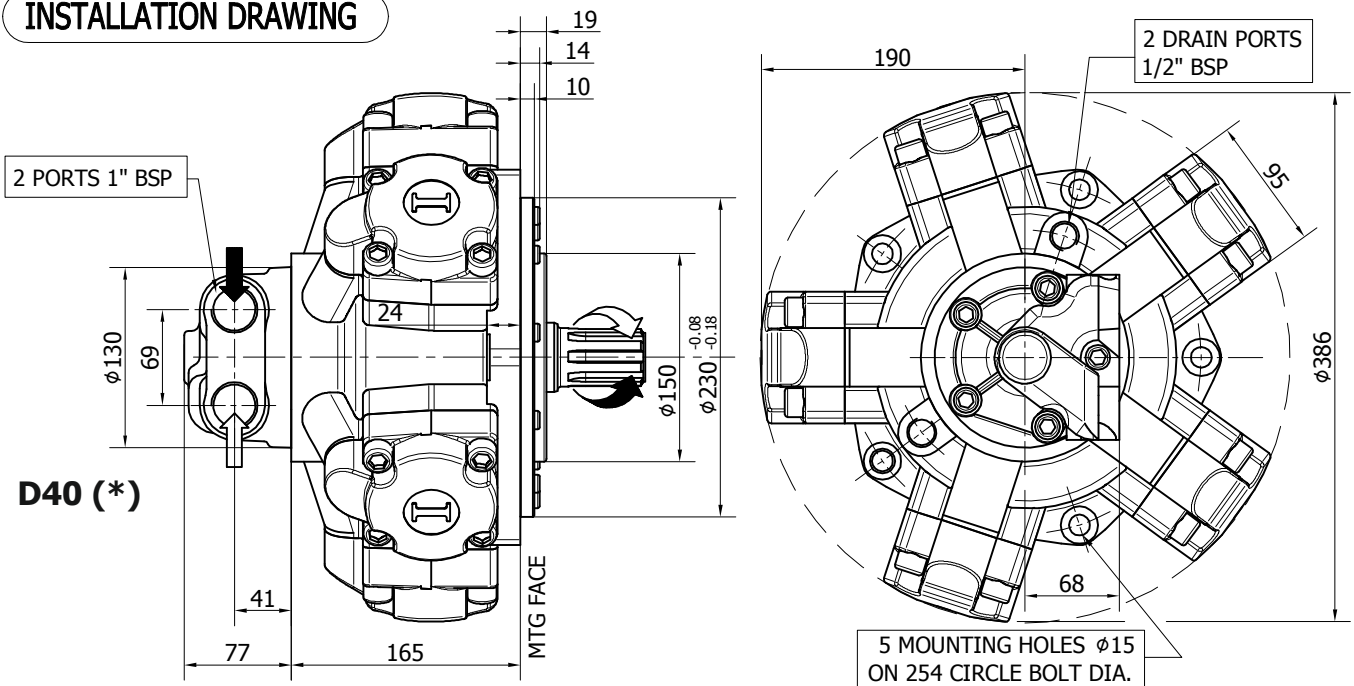
IAM 400/C300 H2 A3 D47 CCW

ITALGROUP SRL
IAM SERIES - IAM H3
GENERAL CATALOGUE

INDEX - IAM H3

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<u>IAM H3/B30 - INSTALLATION DRAWING</u>	"	76 - 77
<u>IAM 800 H3 - INSTALLATION DRAWING</u>	"	78 - 79
<u>IAM 800/N H3 - INSTALLATION DRAWING</u>	"	80 - 81
<u>IAM H3/GM3 - INSTALLATION DRAWING</u>	"	82 - 83
<u>IAM H3/S - INSTALLATION DRAWING</u>	"	84 - 85
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INSTALLATION DRAWING



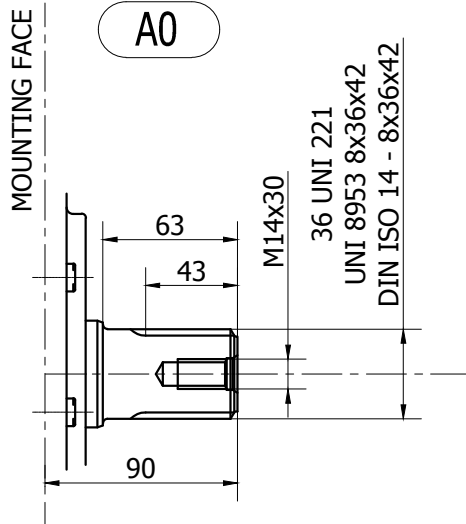
TECHNICAL DATA

		350 (*****)	400	450	500	600	650	700
DISPLACEMENT	[cc]	349	397	452	491	594	660	707
SPECIFIC TORQUE	[Nm/bar]	5.6	6.3	7.2	7.8	9.4	10.5	11.2
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250	250
HYDROSTATIC TEST PRES- SURE	[bar]	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	630	600	600	600	550	500	450
PEAK SPEED (***)	[rpm]	700	680	680	680	630	580	500
MAX. CONT. POWER (****)	[kW]	45	45	45	45	45	45	45
MAX. POWER	[kW]	68	68	68	68	68	68	68
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	68	68	68	68	68	68	68
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

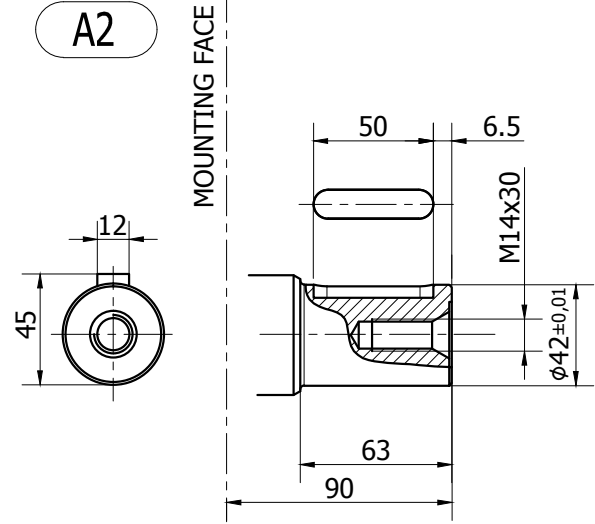
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.
- (*****) Only A0 shaft is available for 350 cc displacement.

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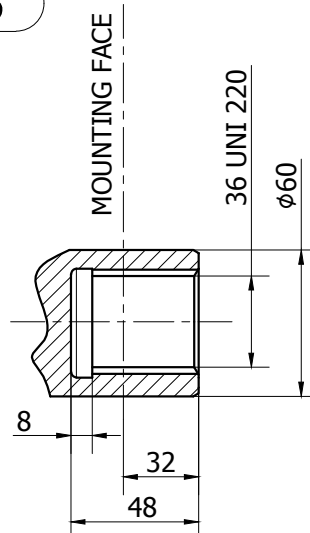
SHAFT CONFIGURATIONS



Available spline billet: **SB3**



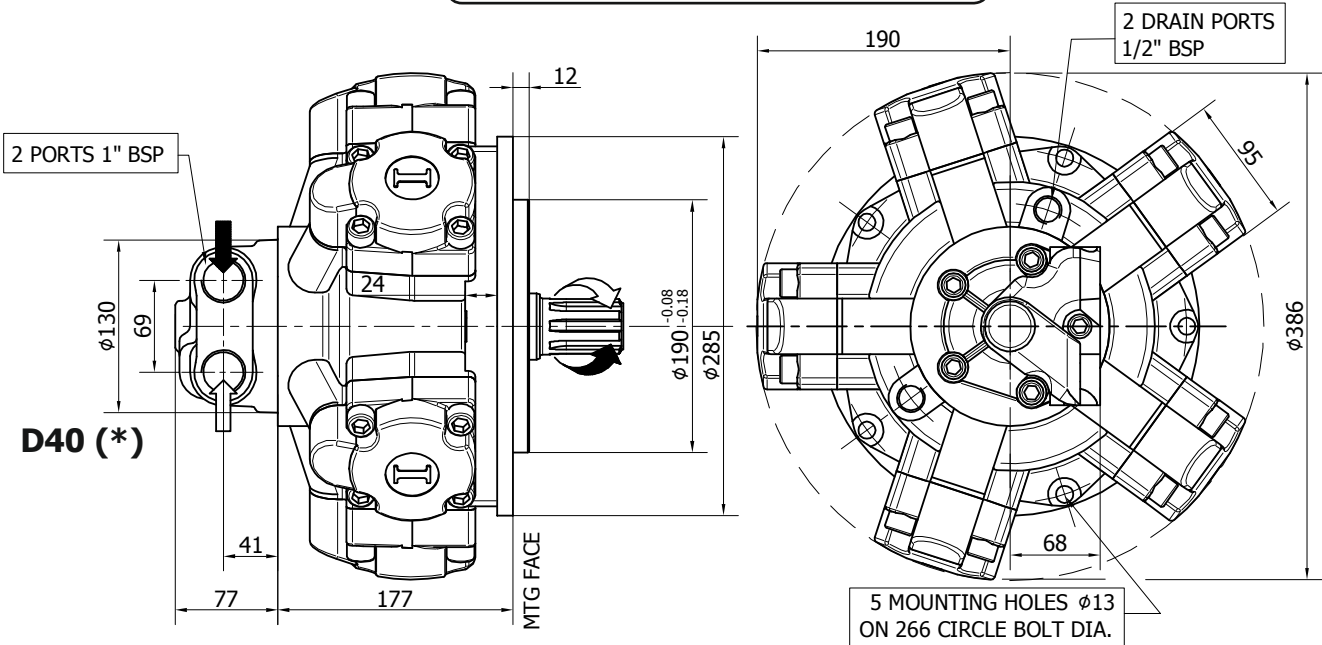
A3



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INSTALLATION DRAWING

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



TECHNICAL DATA

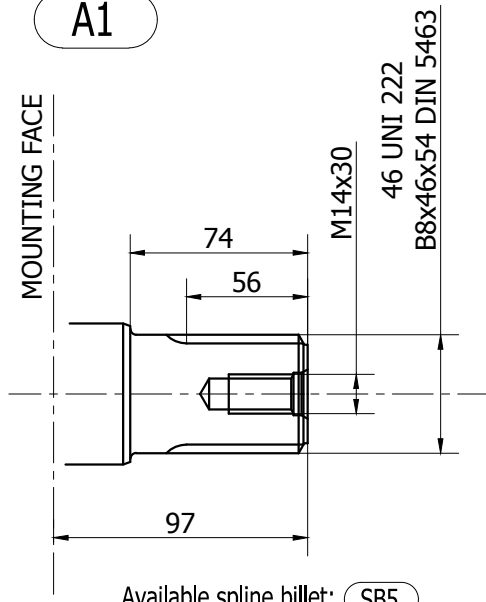
		400	450	500	600	650	700
DISPLACEMENT	[cc]	397	452	491	594	660	707
SPECIFIC TORQUE	[Nm/bar]	6.3	7.2	7.8	9.4	10.5	11.2
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250
HYDROSTATIC TEST PRES-SURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	600	600	600	550	500	450
PEAK SPEED (***)	[rpm]	680	680	680	630	580	500
MAX. CONT. POWER (****)	[kW]	45	45	45	45	45	45
MAX. POWER	[kW]	68	68	68	68	68	68
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	68	68	68	68	68	68
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 differents 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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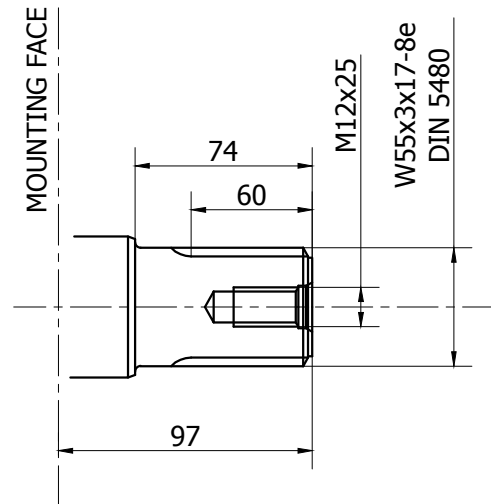
SHAFT CONFIGURATIONS

A1

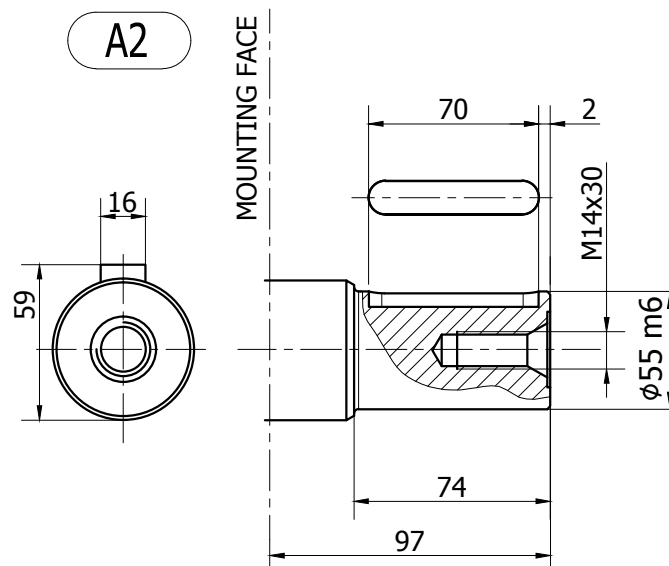


Available spline billet: SB5

A11

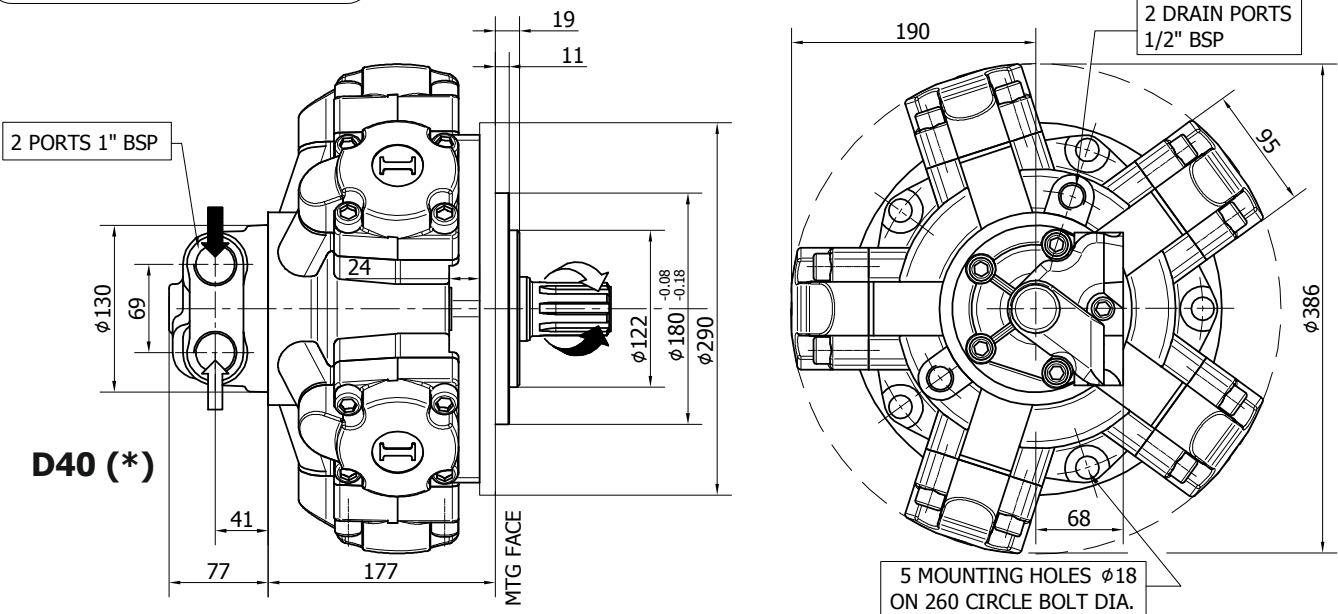


A2



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INSTALLATION DRAWING



TECHNICAL DATA

		400	450	500	600	650	700
DISPLACEMENT	[cc]	397	452	491	594	660	707
SPECIFIC TORQUE	[Nm/bar]	6.3	7.2	7.8	9.4	10.5	11.2
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]	600	600	600	550	500	450
PEAK SPEED (***)	[rpm]	680	680	680	630	580	500
MAX. CONT. POWER (****)	[kW]	45	45	45	45	45	45
MAX. POWER	[kW]	68	68	68	68	68	68
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	68	68	68	68	68	68
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.

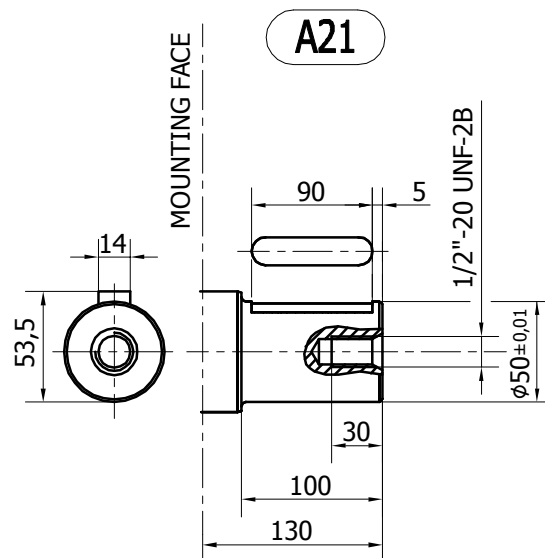
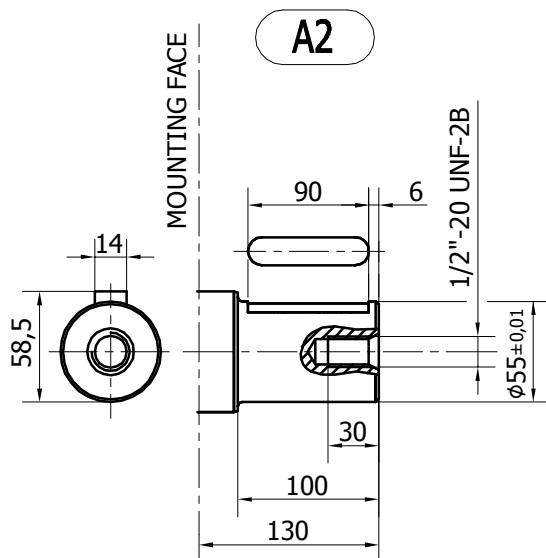
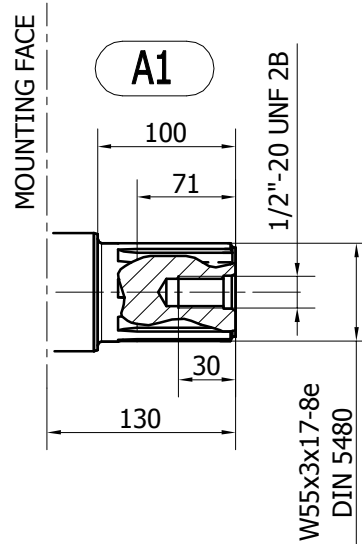
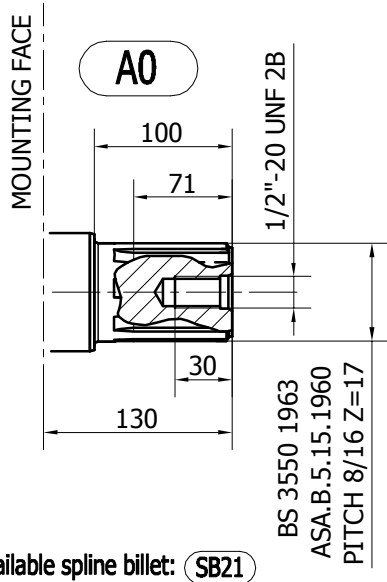
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).

- (***) 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.

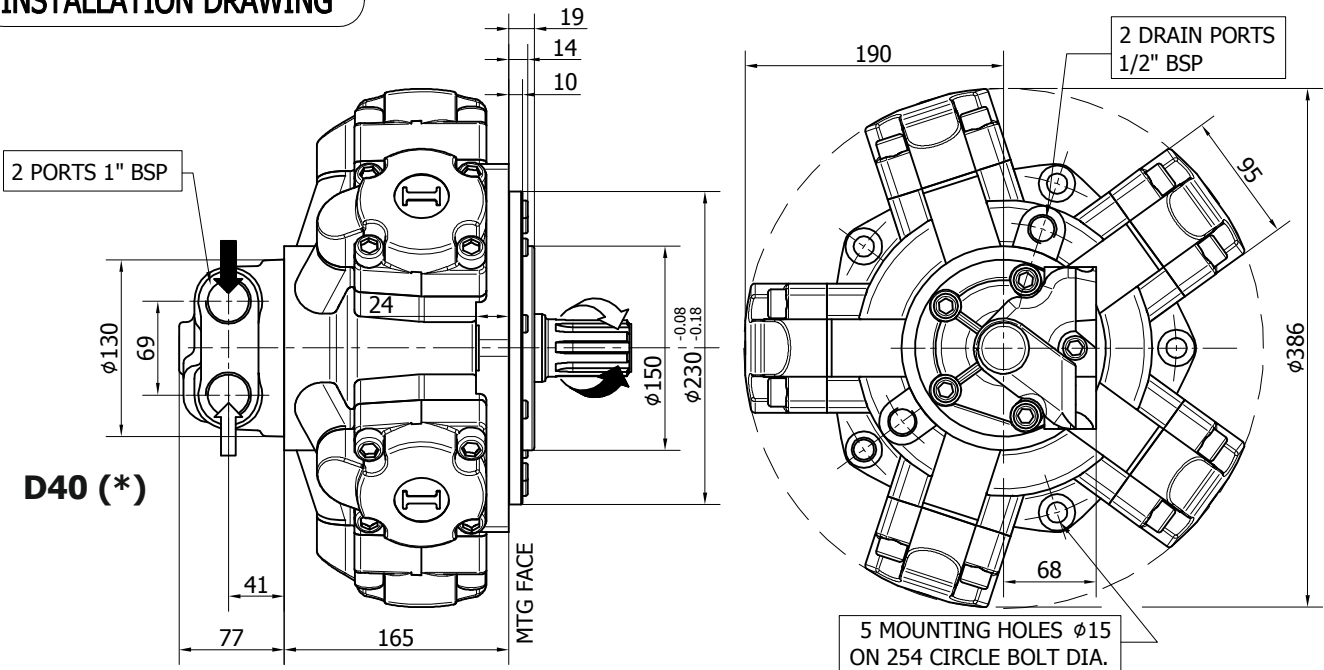
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SHAFT CONFIGURATIONS



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INSTALLATION DRAWING



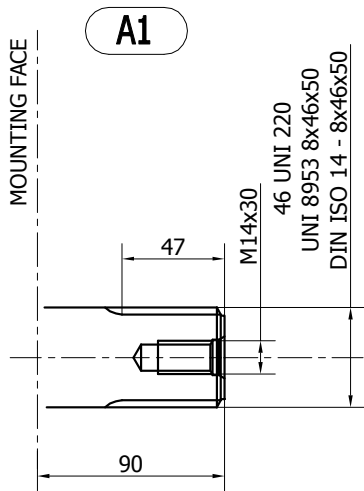
TECHNICAL DATA

		800 (*****)
DISPLACEMENT	[cc]	791
SPECIFIC TORQUE	[Nm/bar]	12.6
MAX. CONT. PRESSURE	[bar]	250
HYDROSTATIC TEST PRESSURE	[bar]	420
MAX. CONT. SPEED	[rpm]	400
PEAK SPEED (***)	[rpm]	450
MAX. CONT. POWER (****)	[kW]	45
MAX. POWER	[kW]	68
MAX. CASE PRESSURE	[bar]	6
DRY WEIGHT	[kg]	68
TEMPERATURE RANGE (**)	[°C]	-30÷70

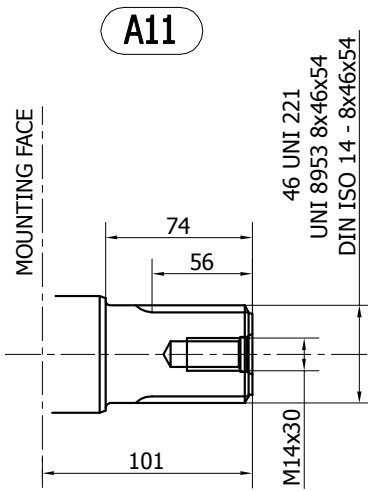
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.
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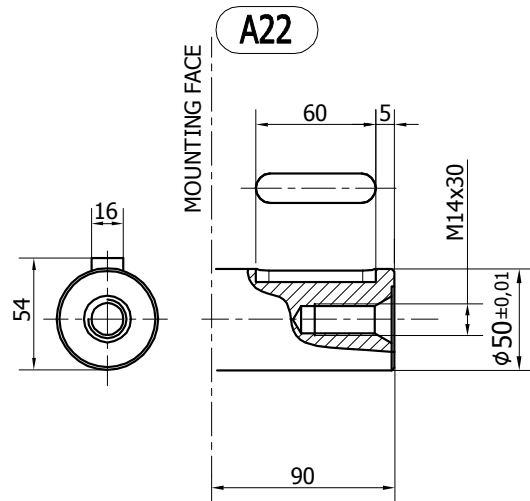
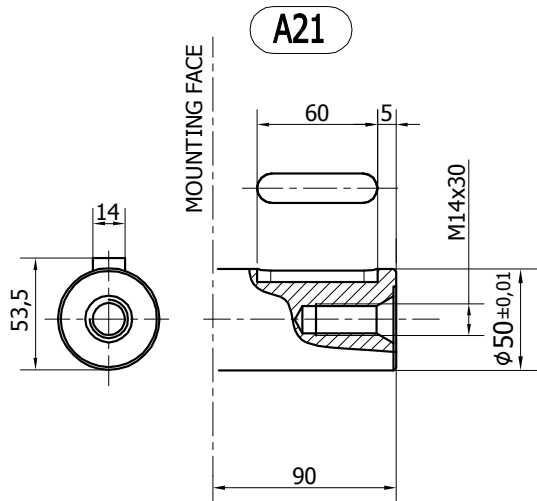
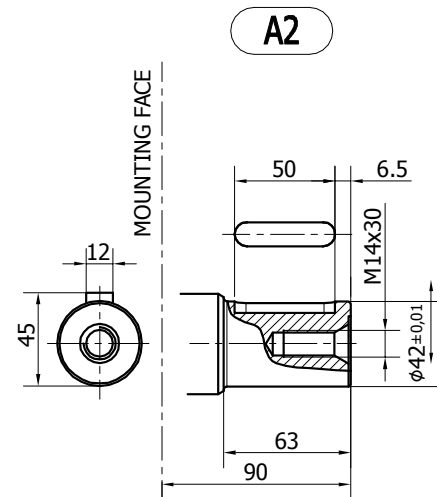
SHAFT CONFIGURATIONS



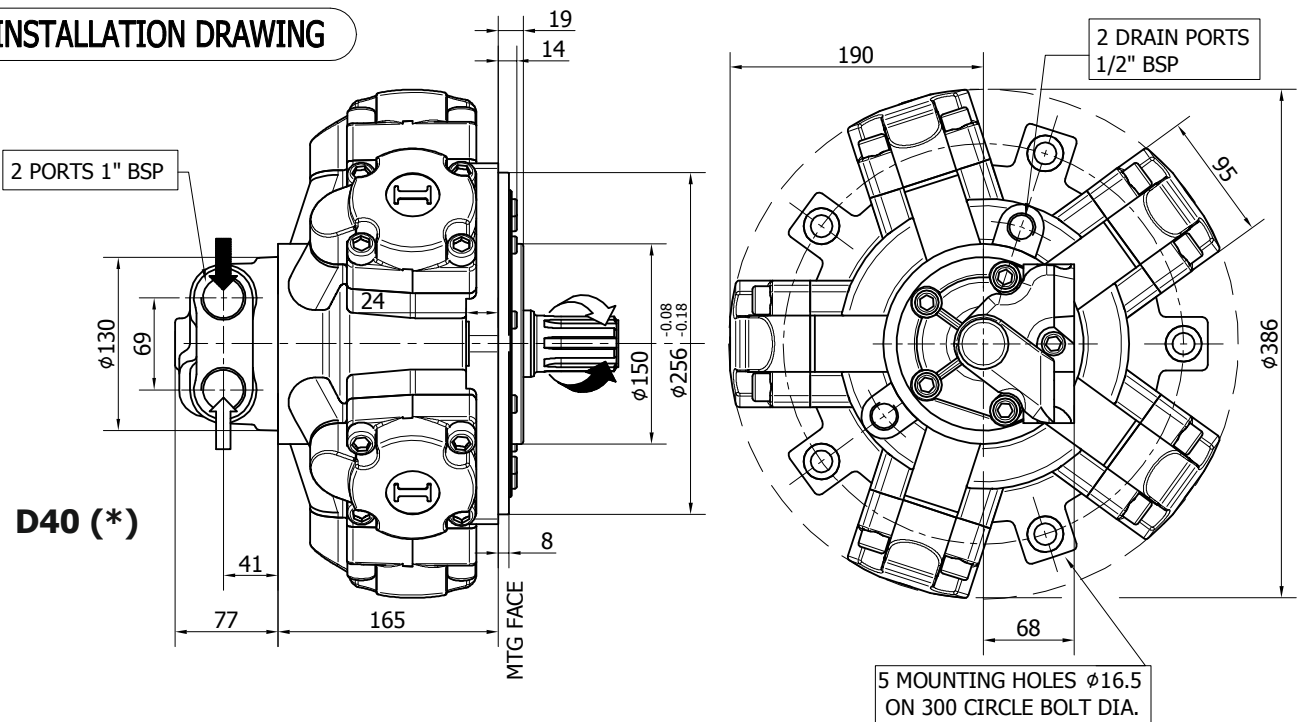
Available spline billet: **SB4**



Available spline billet: **SB5**



INSTALLATION DRAWING



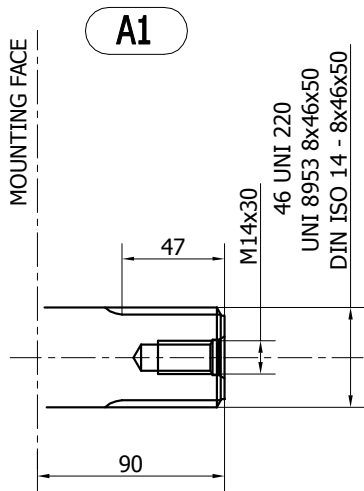
TECHNICAL DATA

		800 (*****)
DISPLACEMENT	[cc]	791
SPECIFIC TORQUE	[Nm/bar]	12.6
MAX. CONT. PRESSURE	[bar]	250
HYDROSTATIC TEST PRESSURE	[bar]	420
MAX. CONT. SPEED	[rpm]	400
PEAK SPEED (***)	[rpm]	450
MAX. CONT. POWER (****)	[kW]	45
MAX. POWER	[kW]	68
MAX. CASE PRESSURE	[bar]	6
DRY WEIGHT	[kg]	68
TEMPERATURE RANGE (**)	[°C]	-30÷70

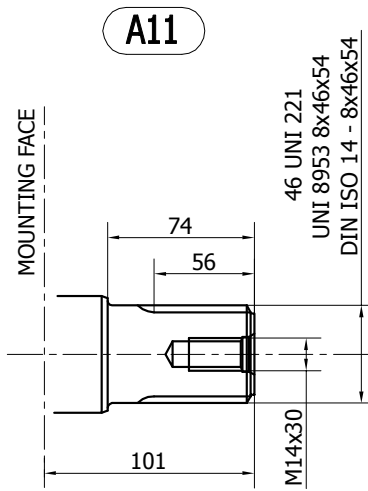
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.
- (*****) Only for spare parts market. Please contact our technical department for more details.

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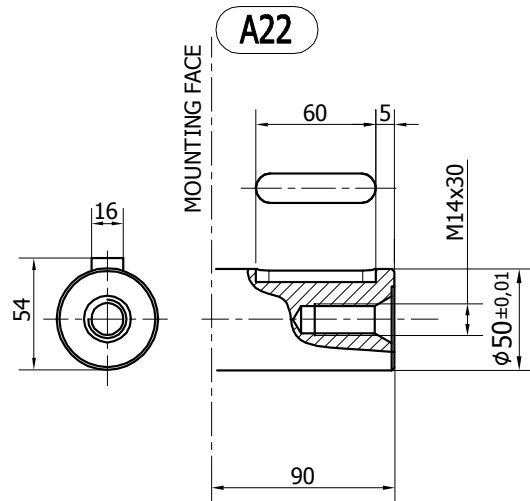
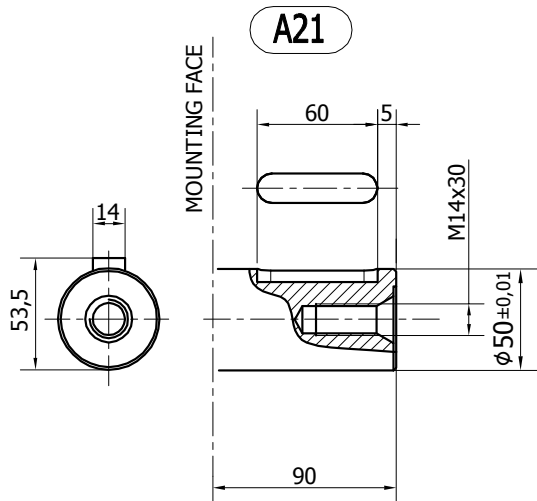
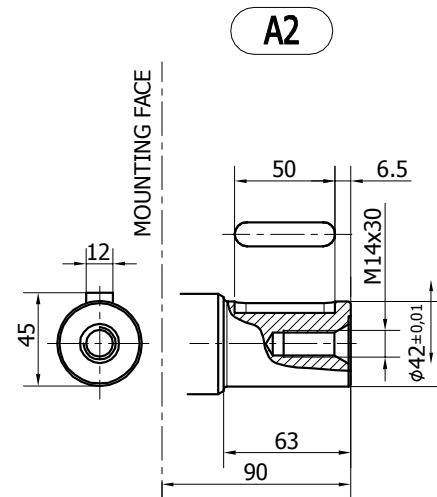
SHAFT CONFIGURATIONS



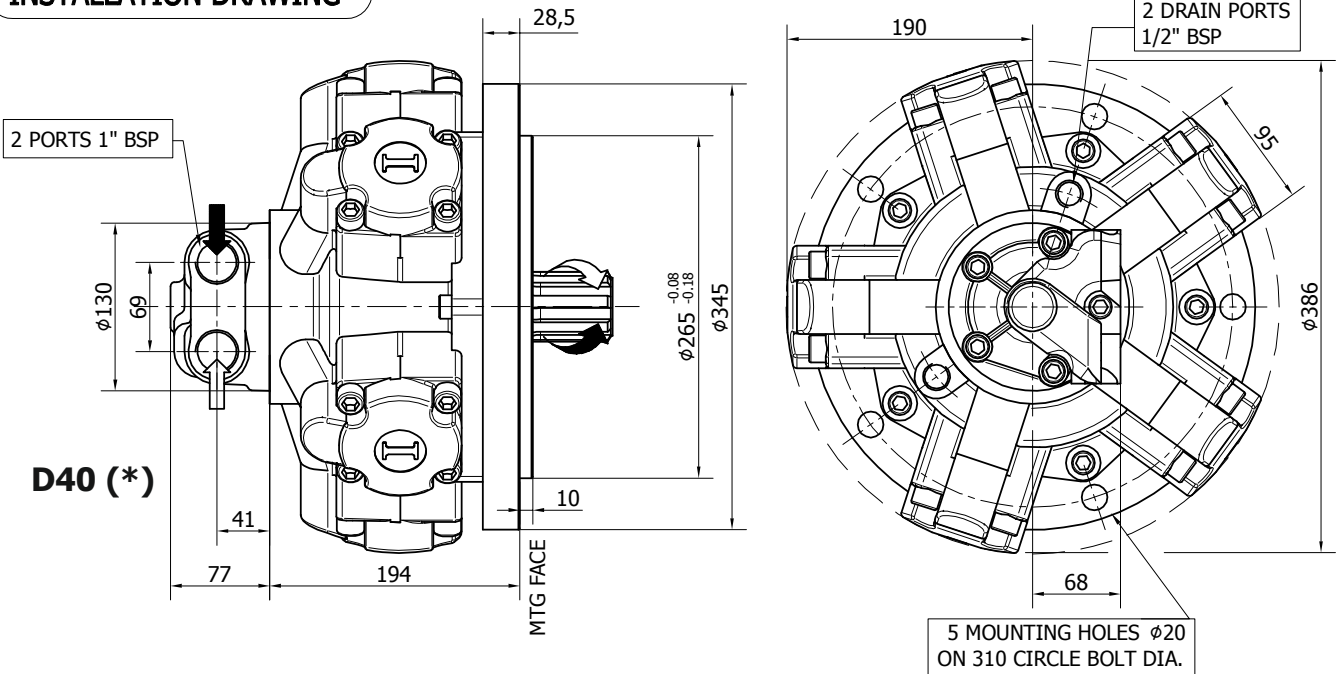
Available spline billet: **SB4**



Available spline billet: **SB5**



INSTALLATION DRAWING



TECHNICAL DATA

		400	450	500	600	650	700
DISPLACEMENT	[cc]	397	452	491	594	660	707
SPECIFIC TORQUE	[Nm/bar]	6.3	7.2	7.8	9.4	10.5	11.2
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	600	600	600	550	500	450
PEAK SPEED (***)	[rpm]	680	680	680	630	580	500
MAX. CONT. POWER (****)	[kW]	45	45	45	45	45	45
MAX. POWER	[kW]	68	68	68	68	68	68
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	68	68	68	68	68	68
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.

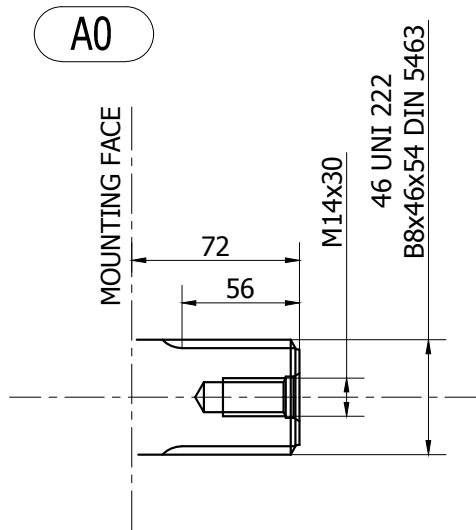
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).

- (***) Do not exceed maximum power (see pag. 13).

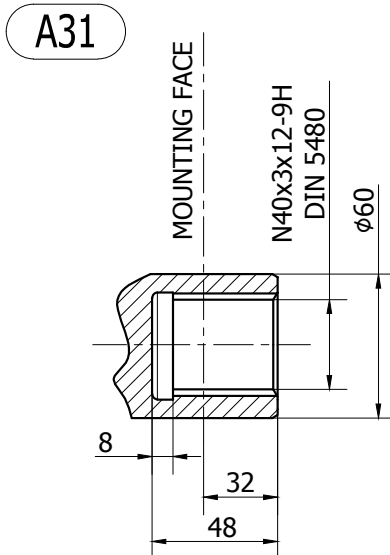
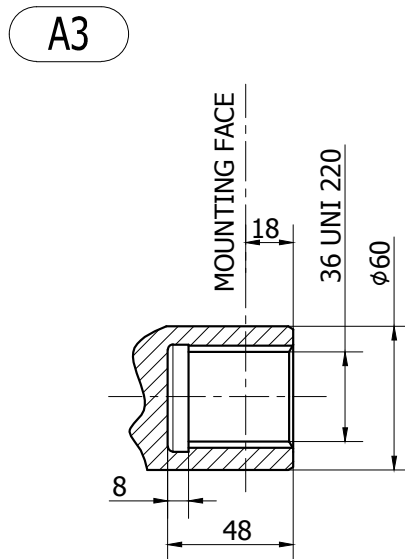
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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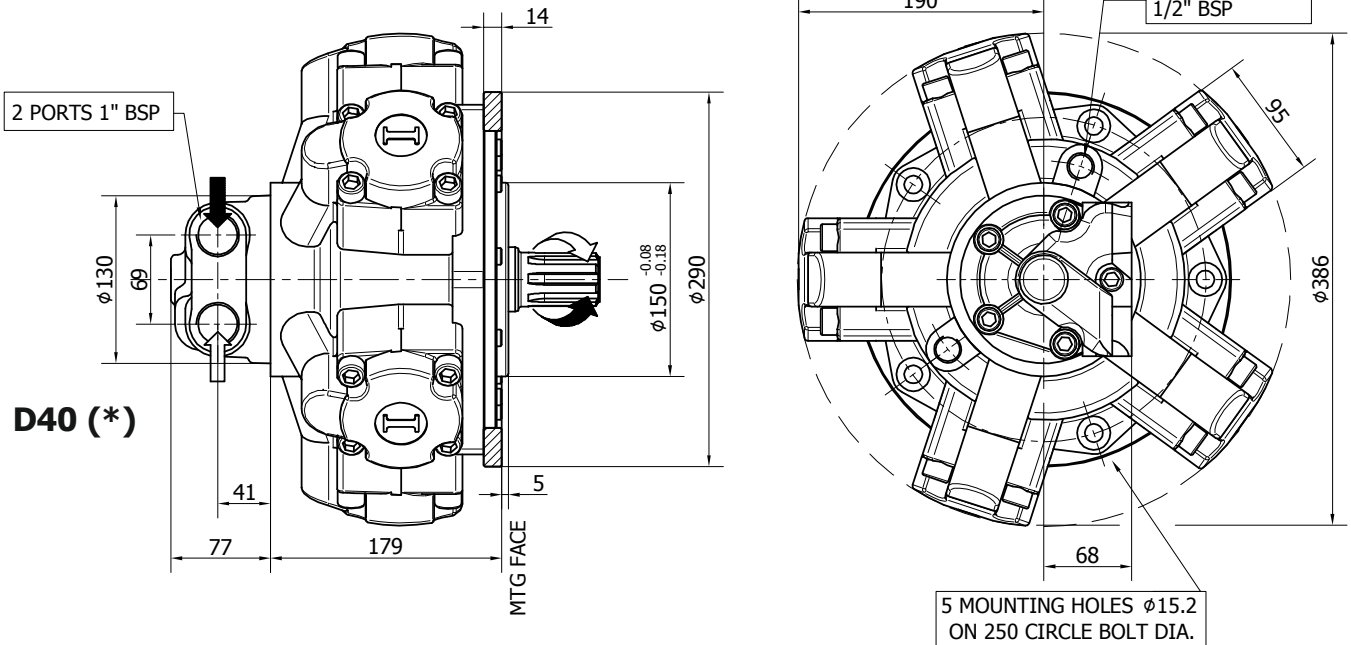
SHAFT CONFIGURATIONS



Available spline billet: **SB5**



INSTALLATION DRAWING



TECHNICAL DATA

		400	450	500	600	650	700
DISPLACEMENT	[cc]	397	452	491	594	660	707
SPECIFIC TORQUE	[Nm/bar]	6.3	7.2	7.8	9.4	10.5	11.2
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	600	600	600	550	500	450
PEAK SPEED (***)	[rpm]	680	680	680	630	580	500
MAX. CONT. POWER (****)	[kW]	45	45	45	45	45	45
MAX. POWER	[kW]	68	68	68	68	68	68
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	68	68	68	68	68	68
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.

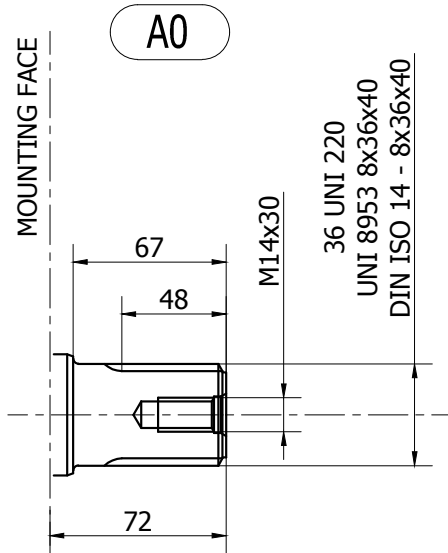
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).

- (***) Do not exceed maximum power (see pag. 13).

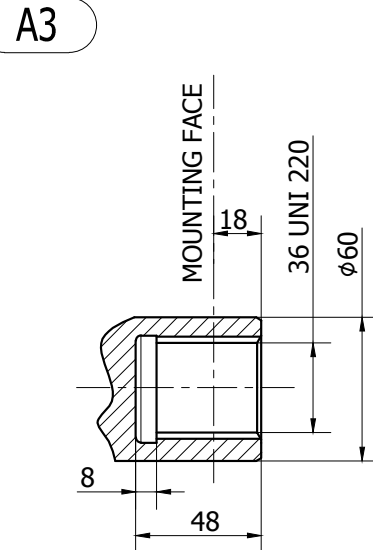
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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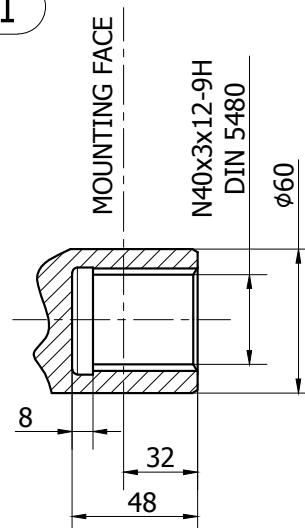
SHAFT CONFIGURATIONS



Available spline billet: **SB3**

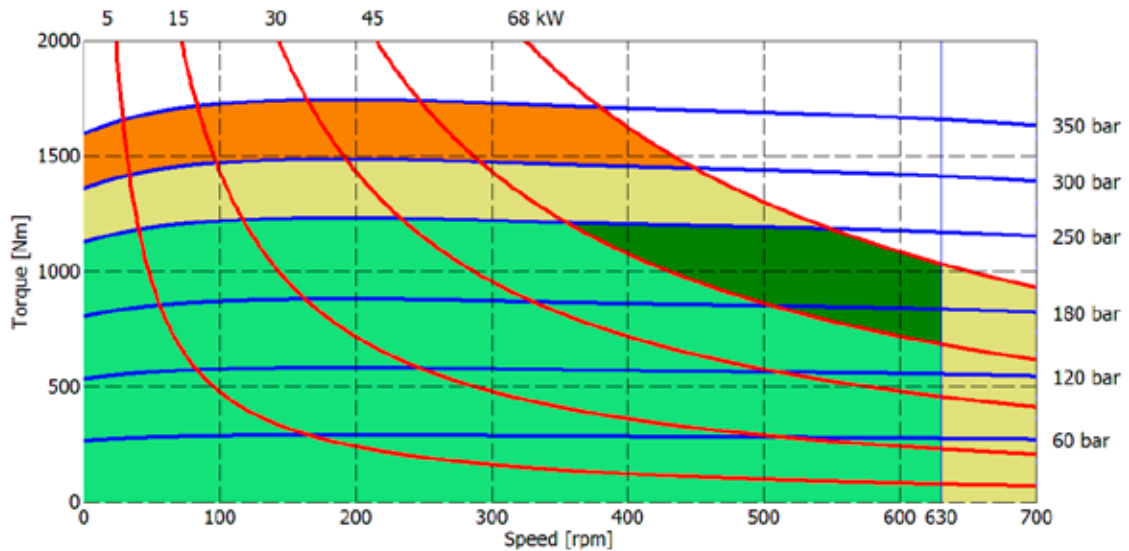


A31

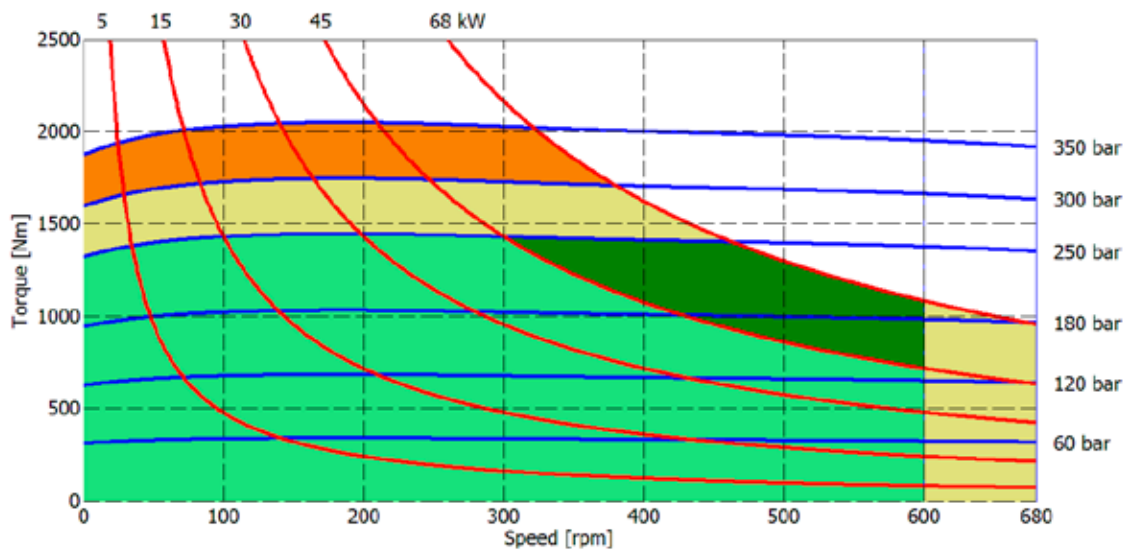


IAM H3 - PERFORMANCE DIAGRAMS

350 cc



400 cc



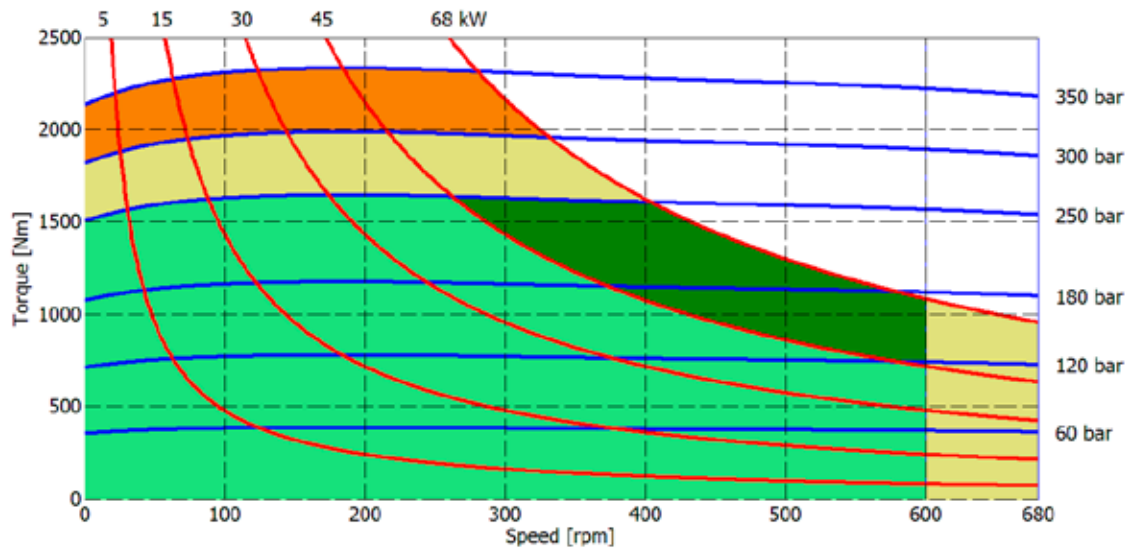
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

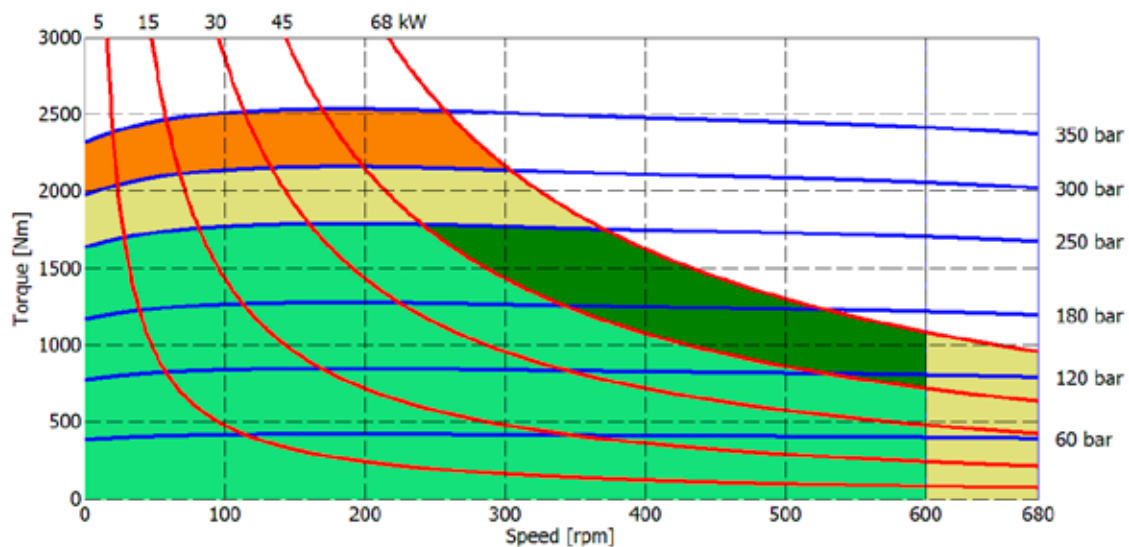
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IAM H3 - PERFORMANCE DIAGRAMS

450 cc



500 cc



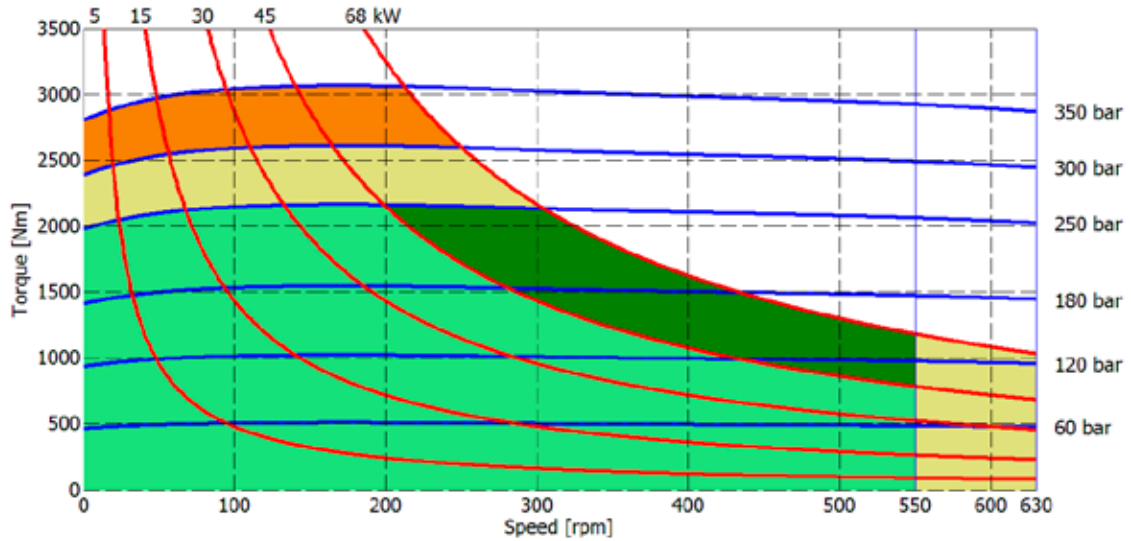
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

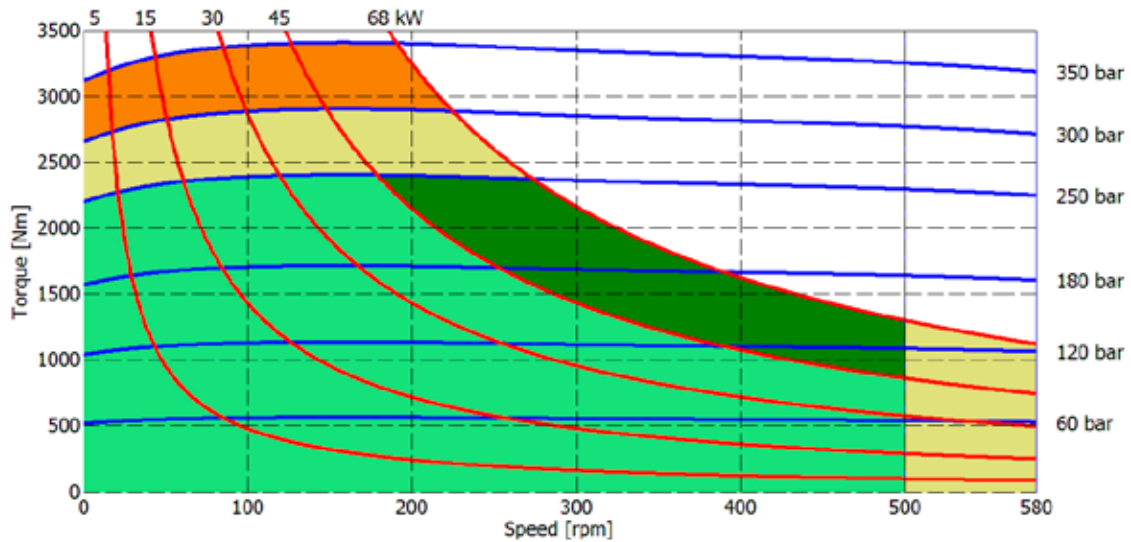
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IAM H3 - PERFORMANCE DIAGRAMS

600 cc



650 cc



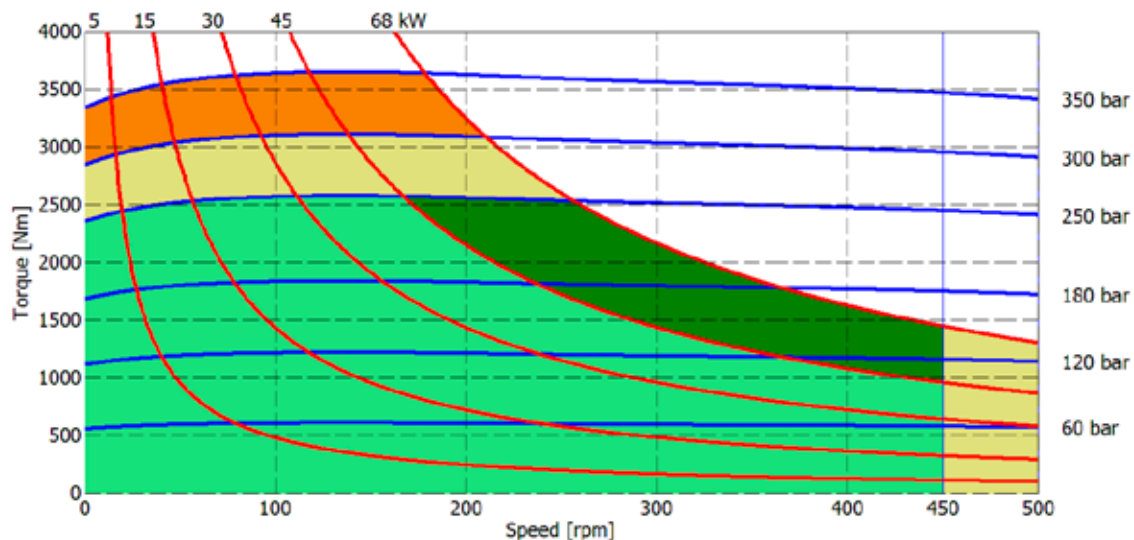
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

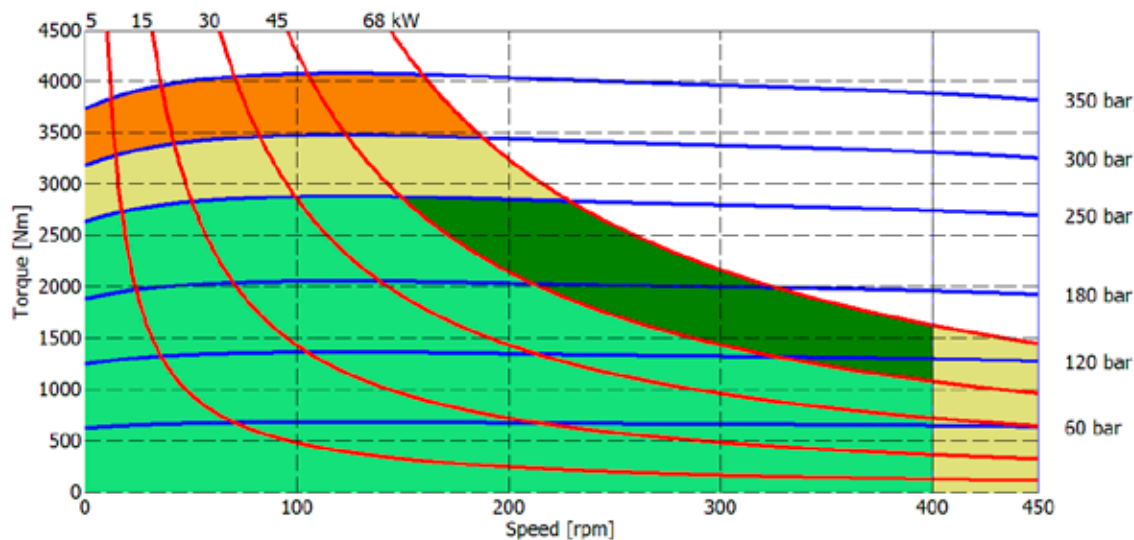
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IAM H3 - PERFORMANCE DIAGRAMS

700 cc



800 cc

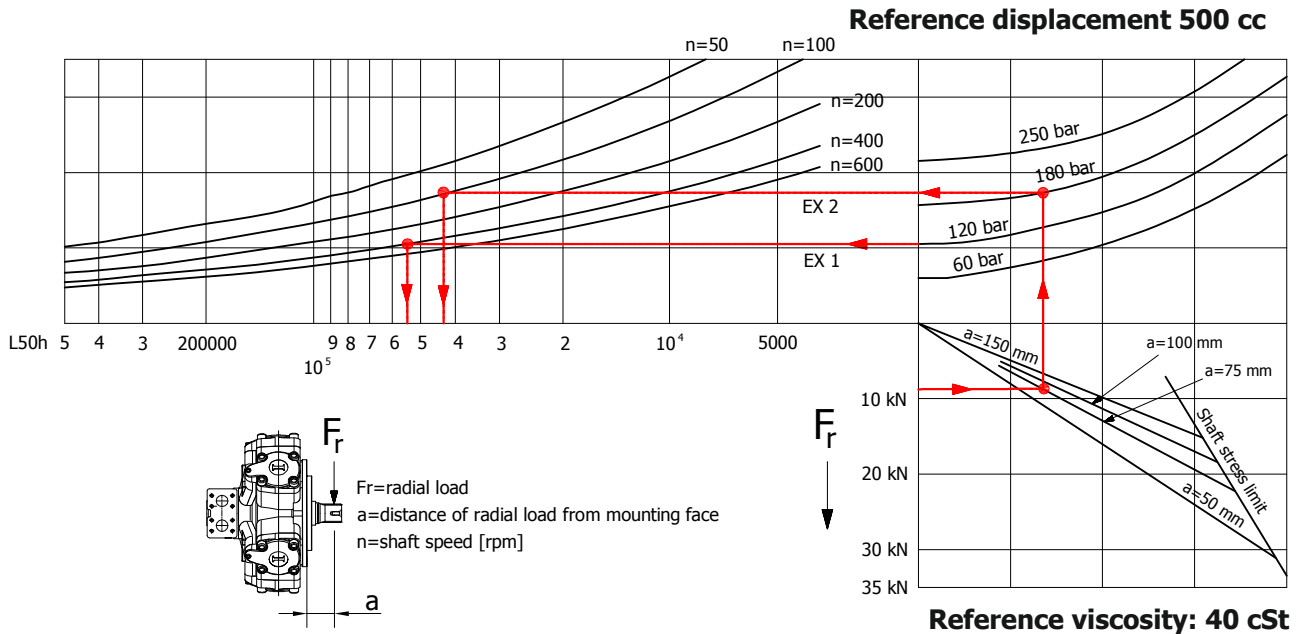


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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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BEARING LIFE



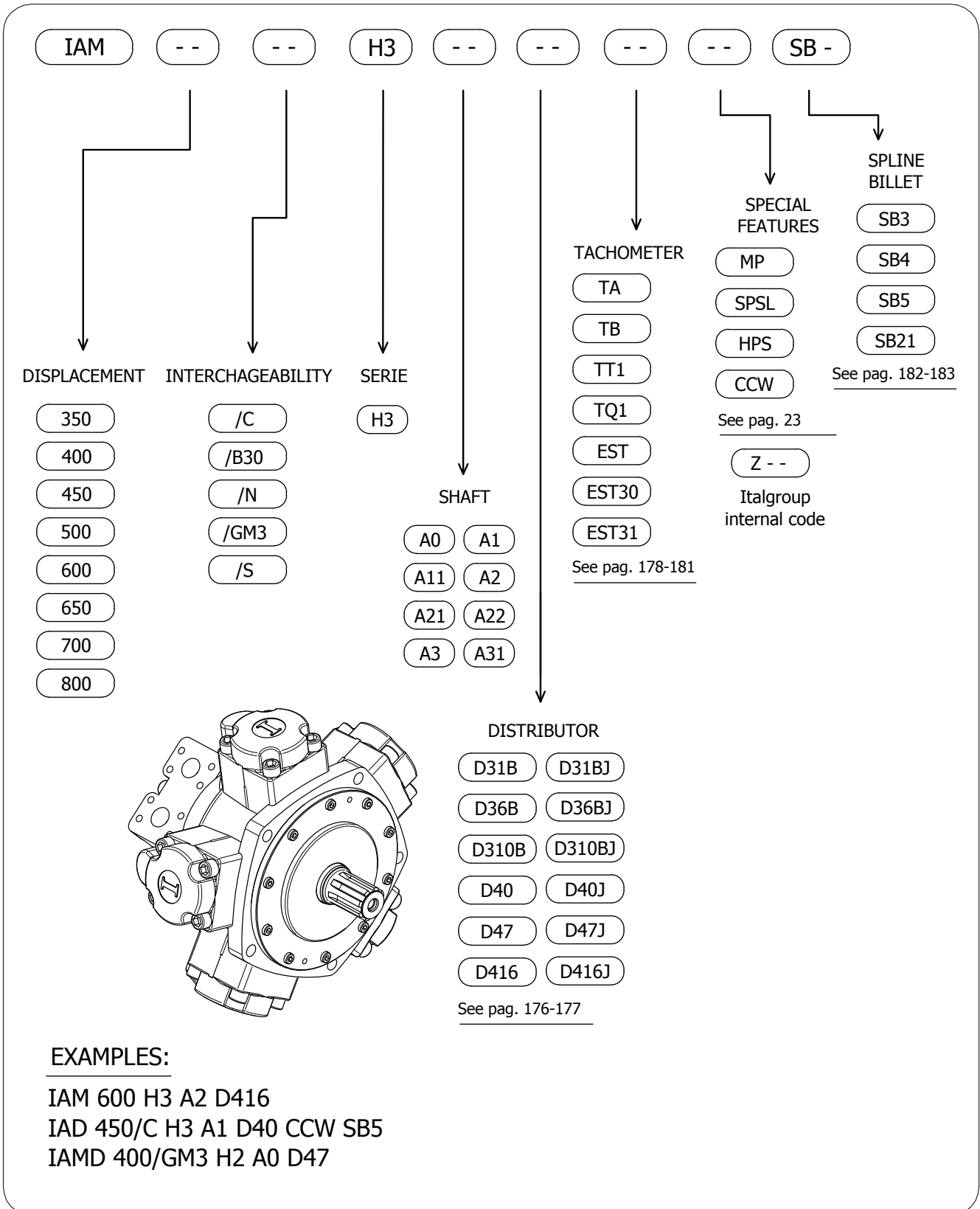
Example:

We suppose (EX1): $p=120$ [bar], $n=400$ [rpm]; we obtain an average lifetime of 53000 [h].

If we suppose (EX2): $F_r=9$ [kN], $a=75$ [mm], $n=100$ [rpm] and $p=180$ [bar] we obtain an average lifetime of 42000 [h].

The above data are referring to the IAM H3 series motors, displacement 500 cc.

IAM H3 - ORDERING CODE



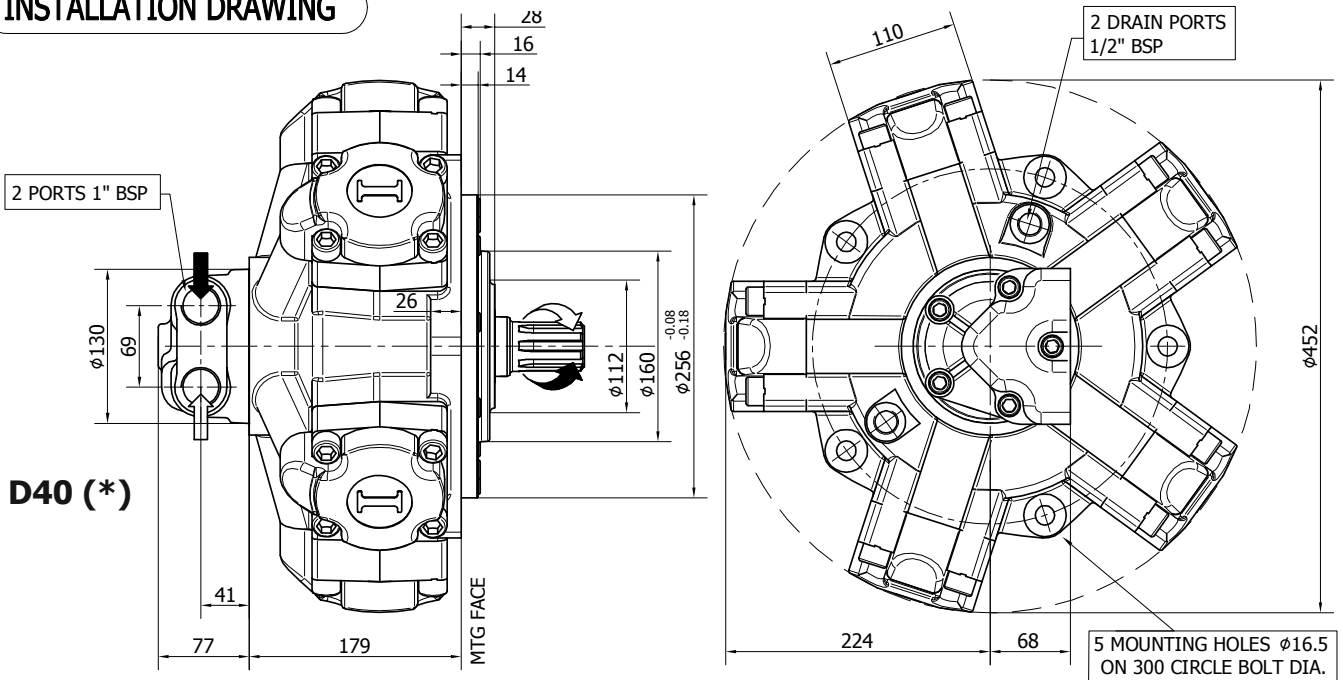
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ITALGROUP SRL
IAM SERIES - IAM H4
GENERAL CATALOGUE

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<u>IAM H4/B45 - INSTALLATION DRAWING</u>	"	98 - 99
<u>IAM H4/GM4 - INSTALLATION DRAWING</u>	"	100 - 101
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<u>IAM H4 - ORDERING CODE</u>	"	110

INSTALLATION DRAWING



TECHNICAL DATA

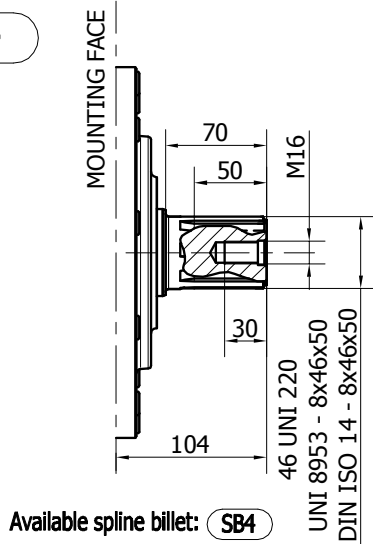
		700	800	850	900	1000	1100	1200	1250	1400
DISPLACEMENT	[cc]	714	792	847	904	992	1116	1192	1247	1332
SPECIFIC TORQUE	[Nm/bar]	11.4	12.6	13.5	14.4	15.8	17.8	19.0	19.8	21.2
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420	420
MAX. 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.

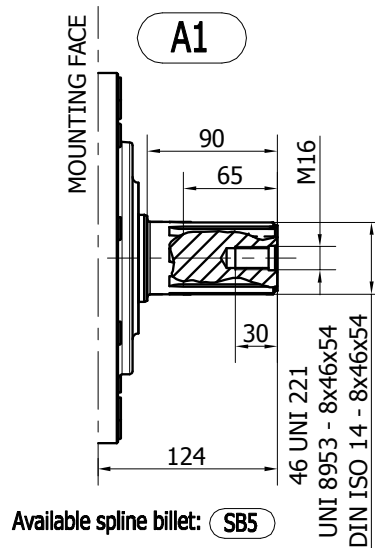
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SHAFT CONFIGURATIONS

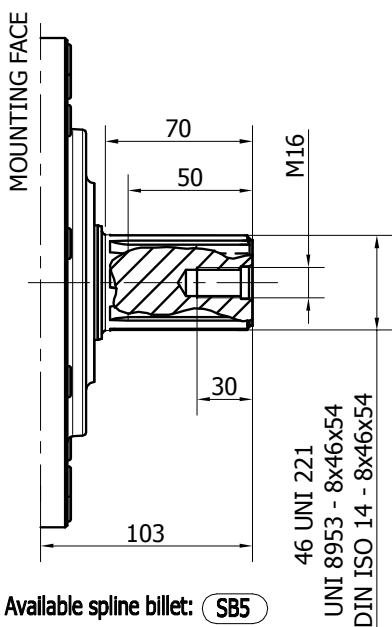
A0



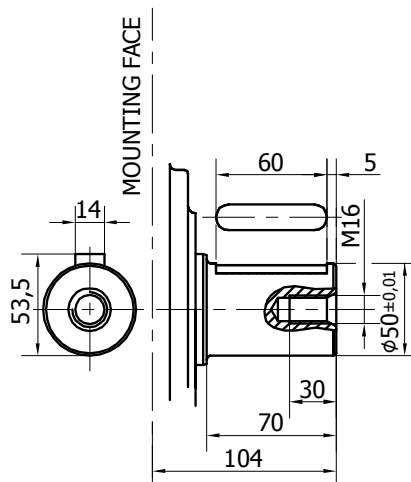
A1



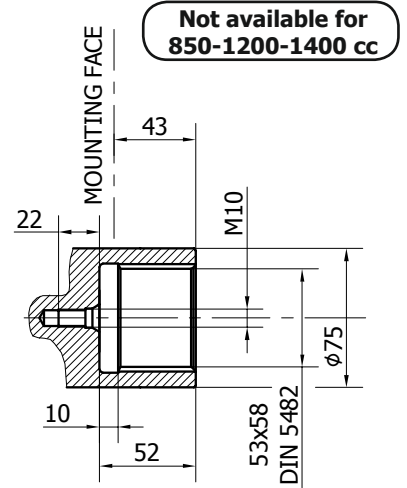
A11



A2

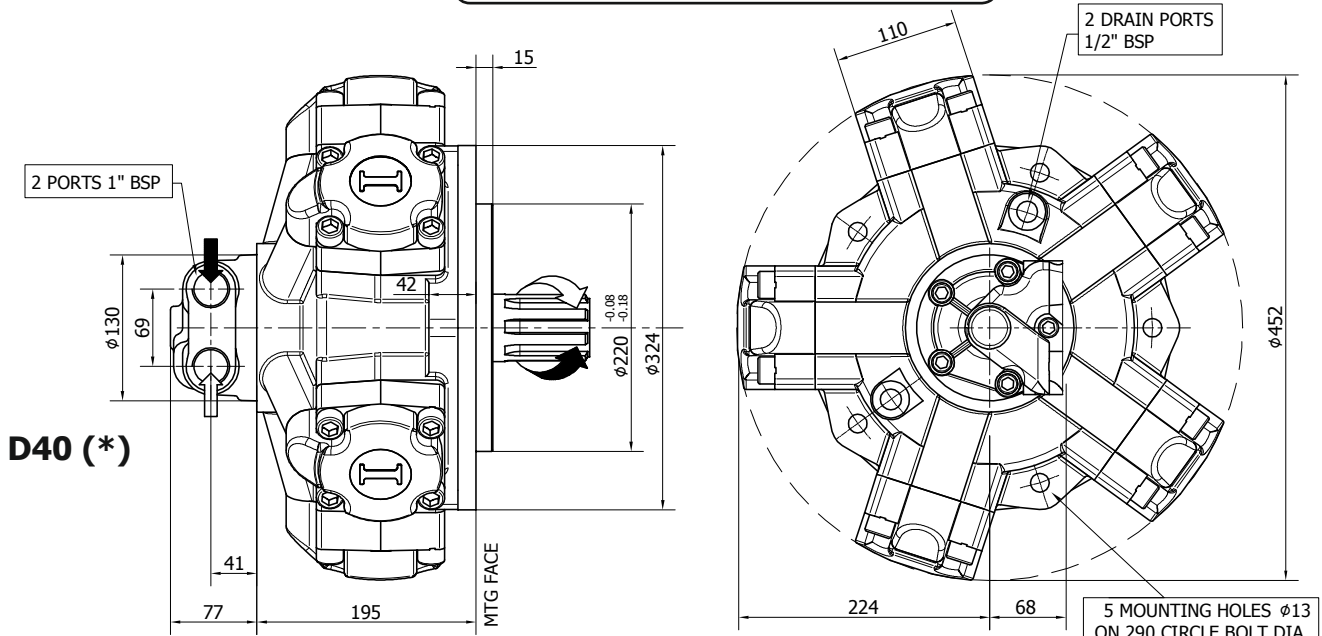


A3



INSTALLATION DRAWING

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



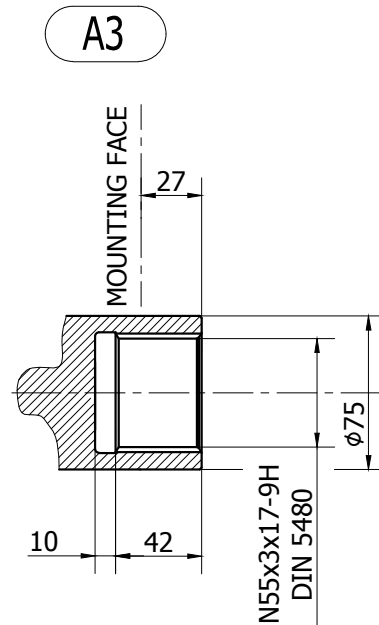
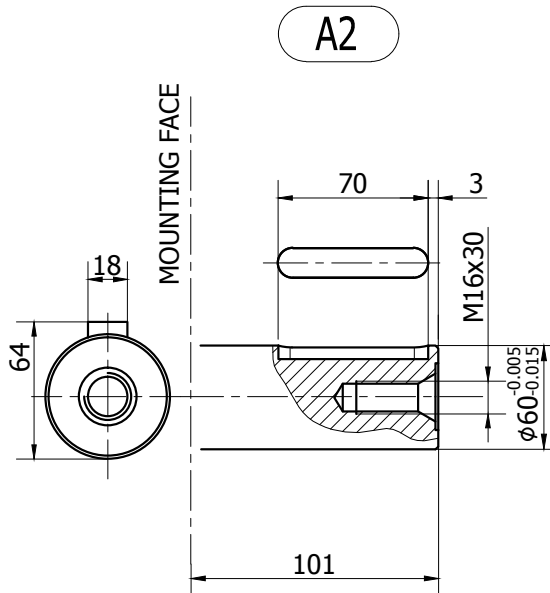
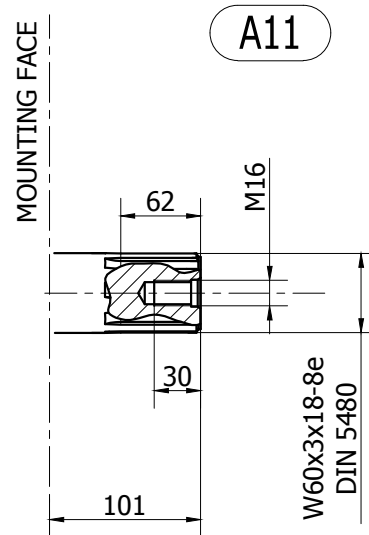
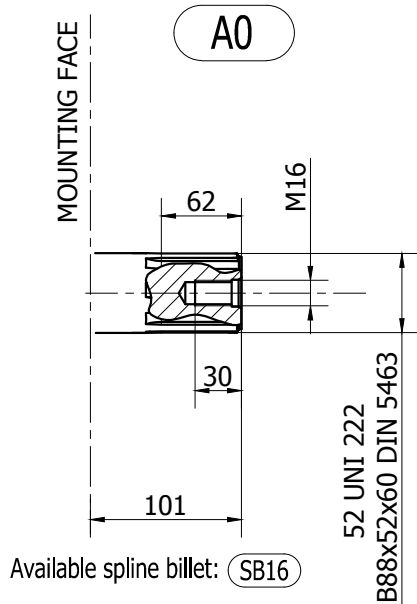
TECHNICAL DATA

		700	800	900	1000	1100	1250
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 differents 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.

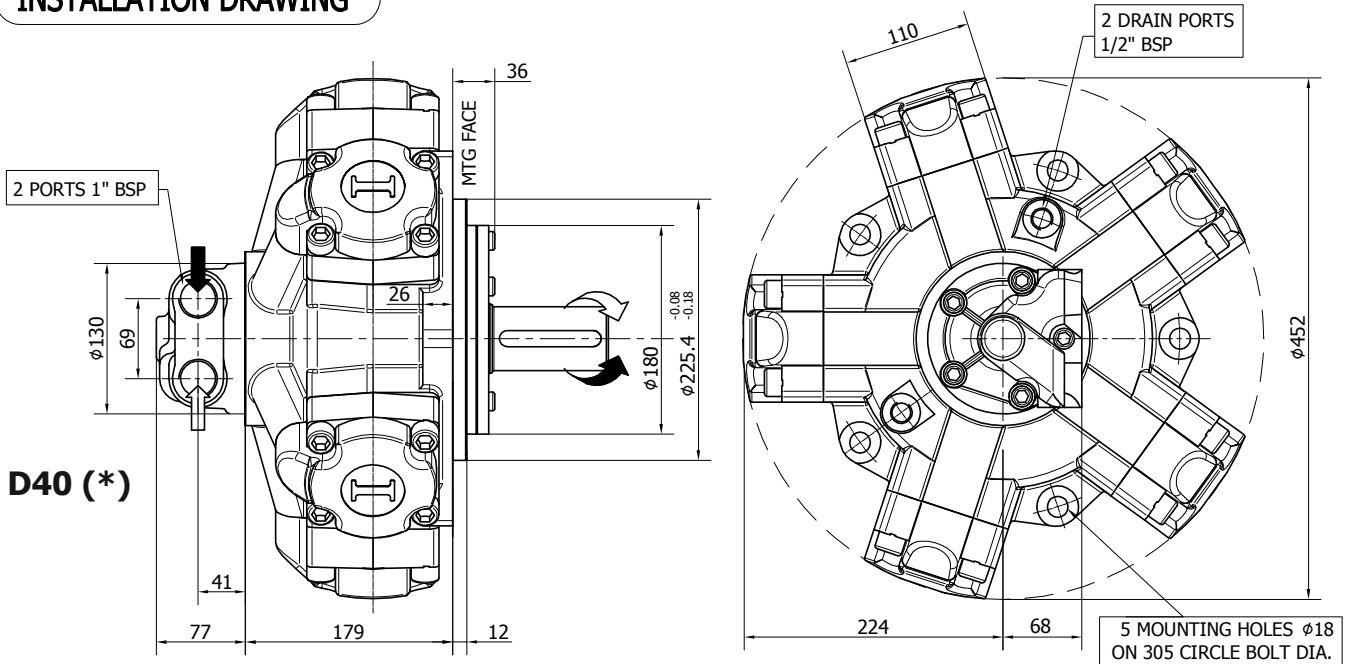
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SHAFT CONFIGURATIONS



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INSTALLATION DRAWING



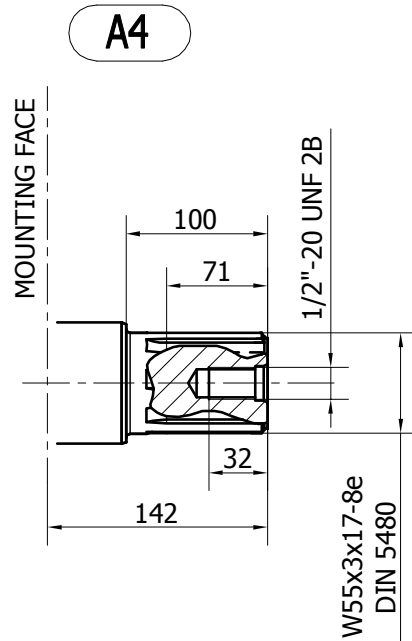
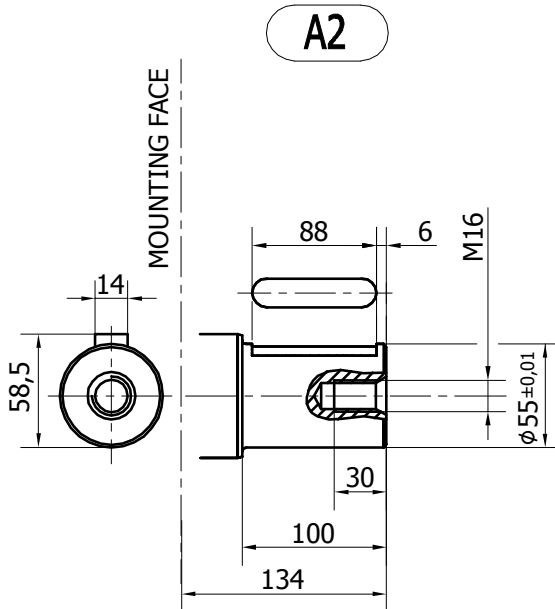
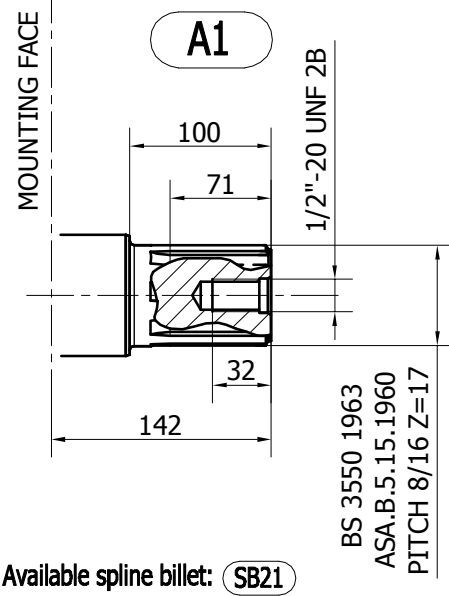
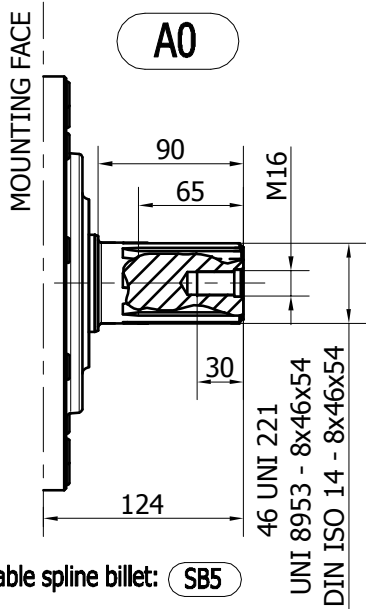
TECHNICAL DATA

		700	800	900	1000	1100	1250
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

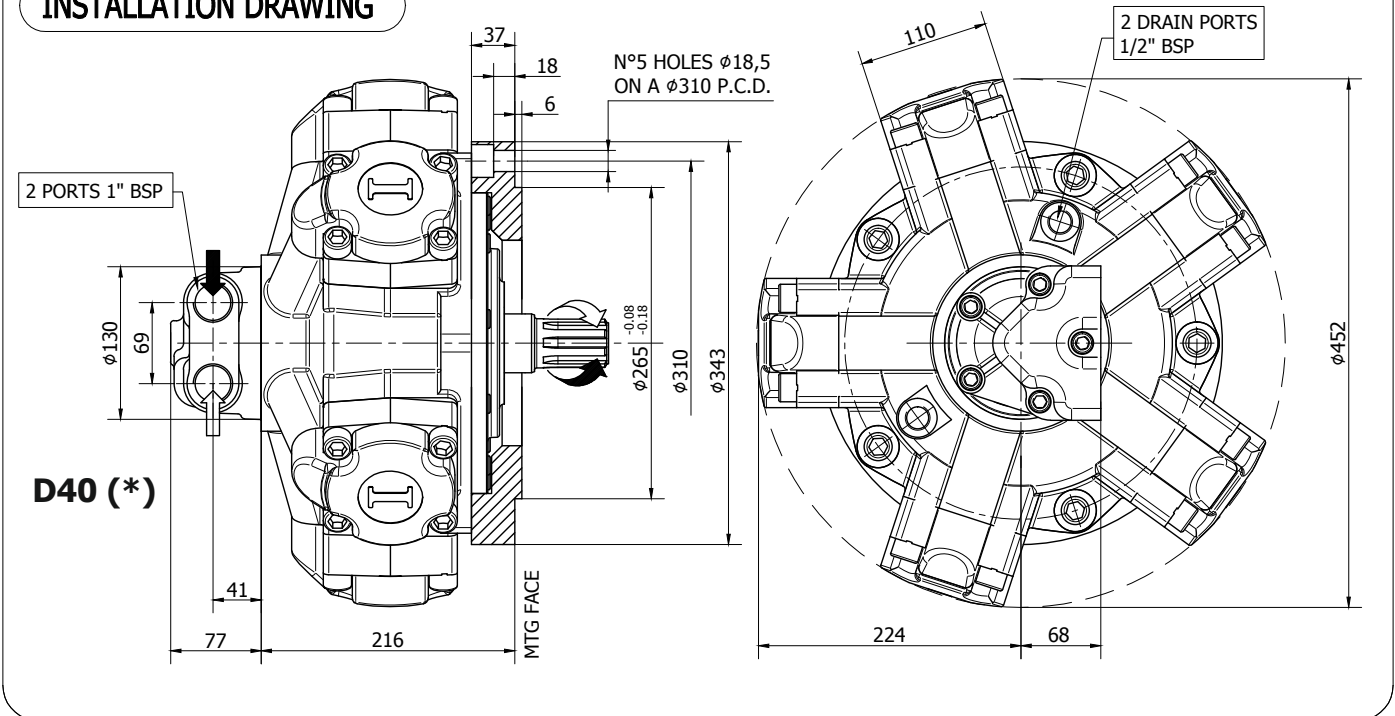
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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SHAFT CONFIGURATIONS



INSTALLATION DRAWING



TECHNICAL DATA

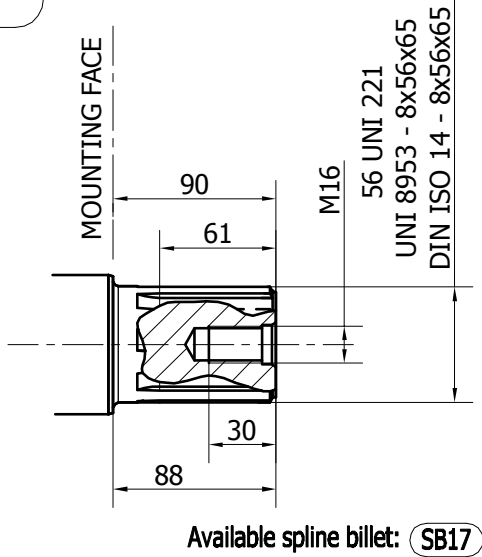
		700	800	900	1000	1100	1250
DISPLACEMENT	[cc]	714	792	904	992	1116	1247
SPECIFIC TORQUE	[Nm/bar]	11.4	12.6	14.4	15.8	17.8	19.8
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	500	450	450	330	330	250
PEAK SPEED (***)	[rpm]	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.

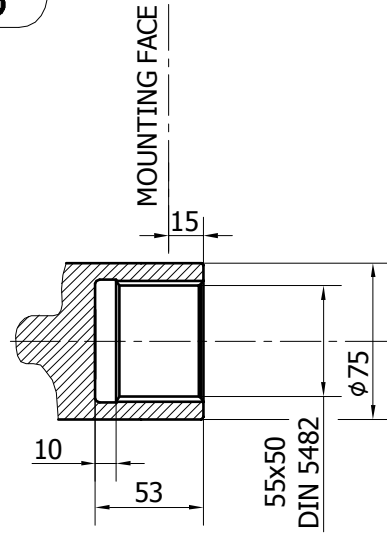
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SHAFT CONFIGURATIONS

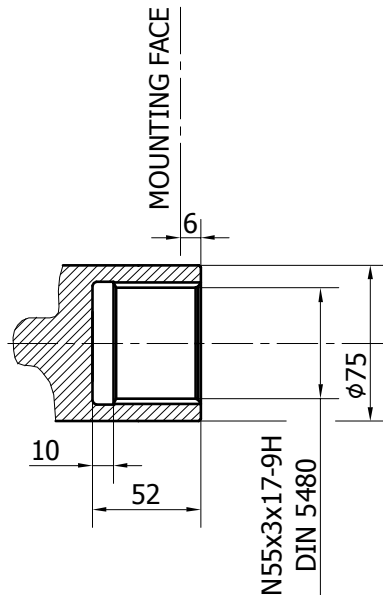
A0



A3

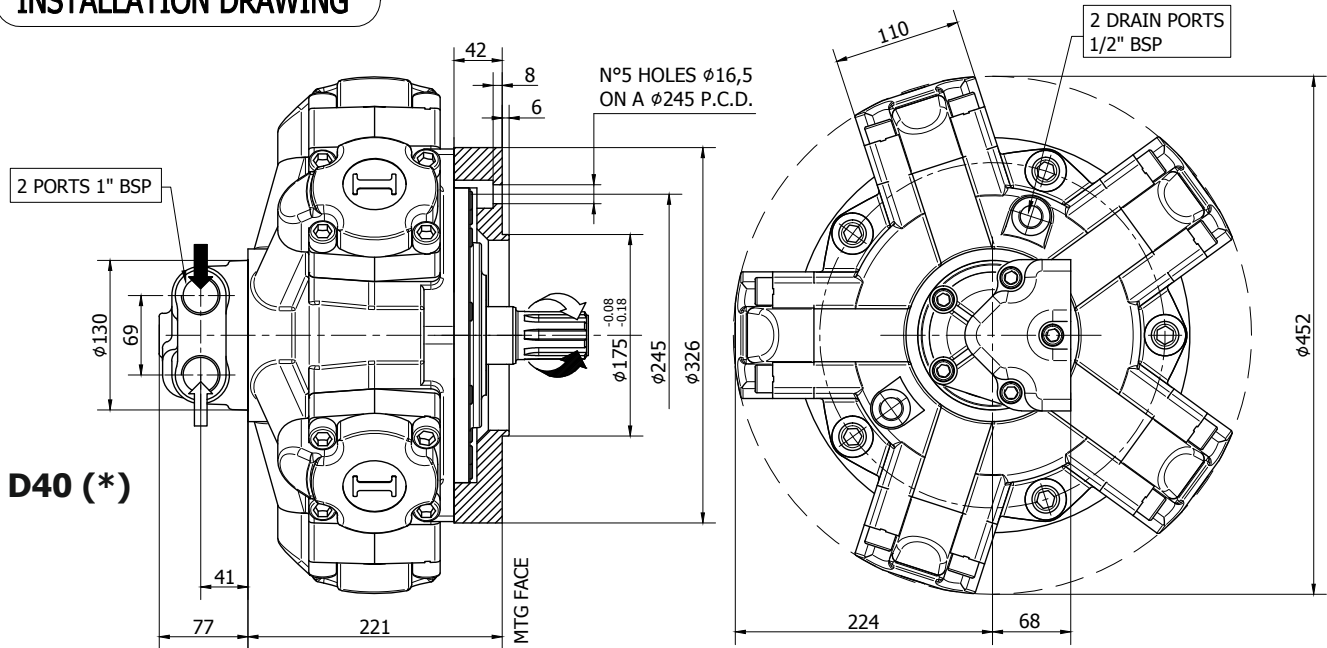


A31



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INSTALLATION DRAWING



TECHNICAL DATA

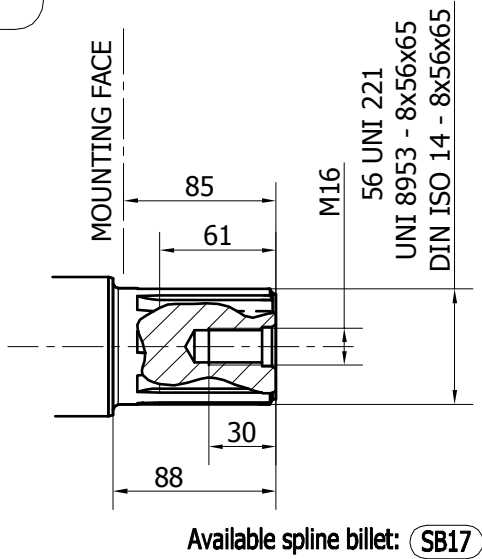
		700	800	900	1000	1100	1250
DISPLACEMENT	[cc]	714	792	904	992	1116	1247
SPECIFIC TORQUE	[Nm/bar]	11.4	12.6	14.4	15.8	17.8	19.8
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	500	450	450	330	330	250
PEAK SPEED (***)	[rpm]	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.

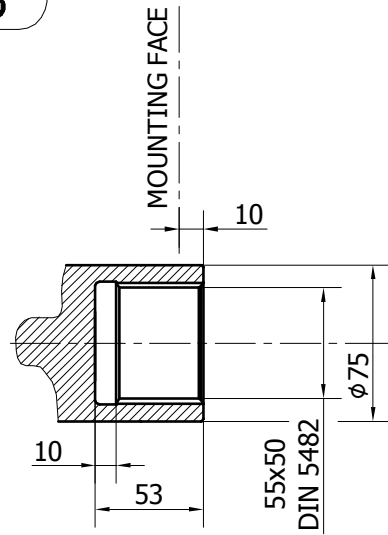
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SHAFT CONFIGURATIONS

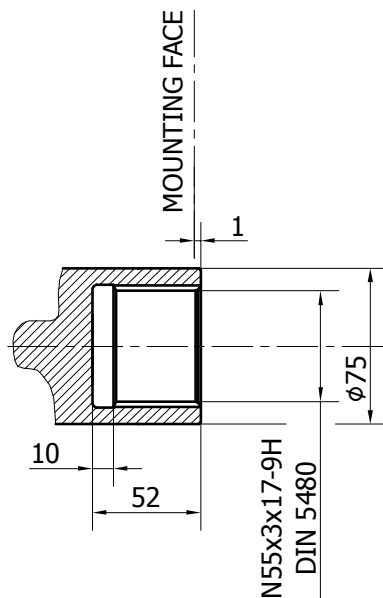
A0



A3



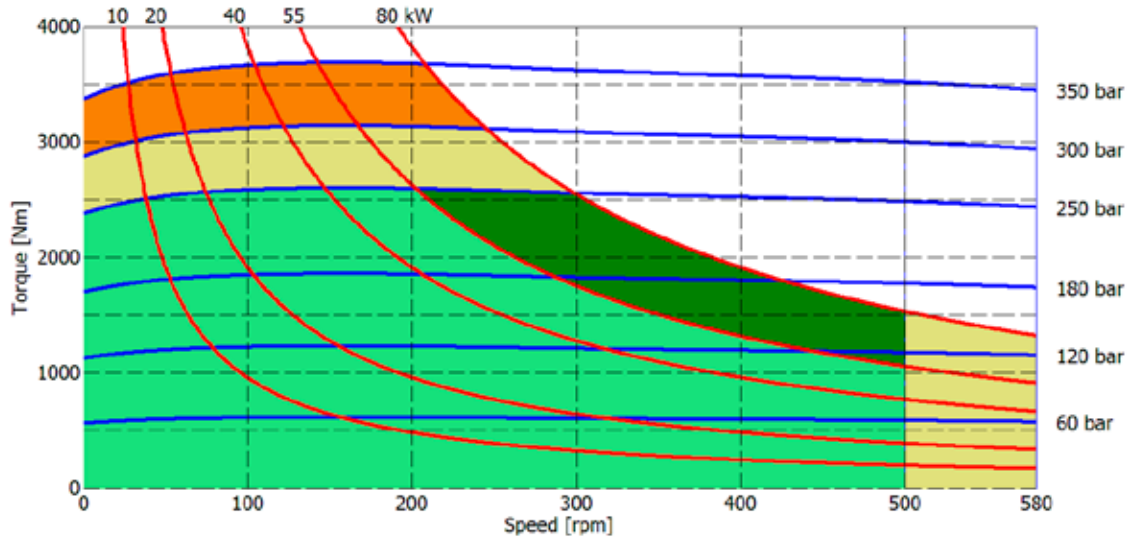
A31



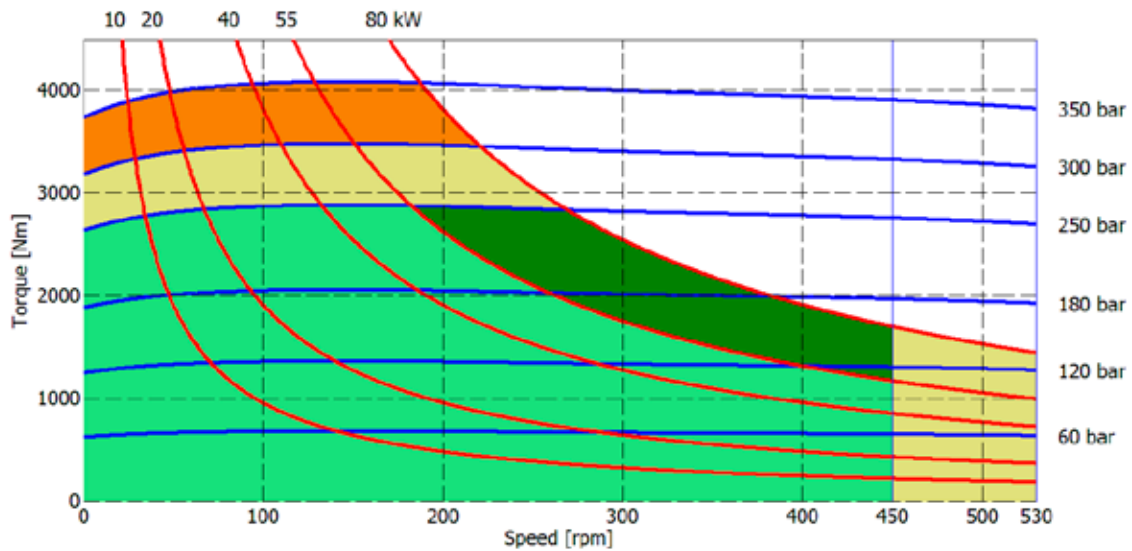
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IAM H4 - PERFORMANCE DIAGRAMS

700 cc



800 cc



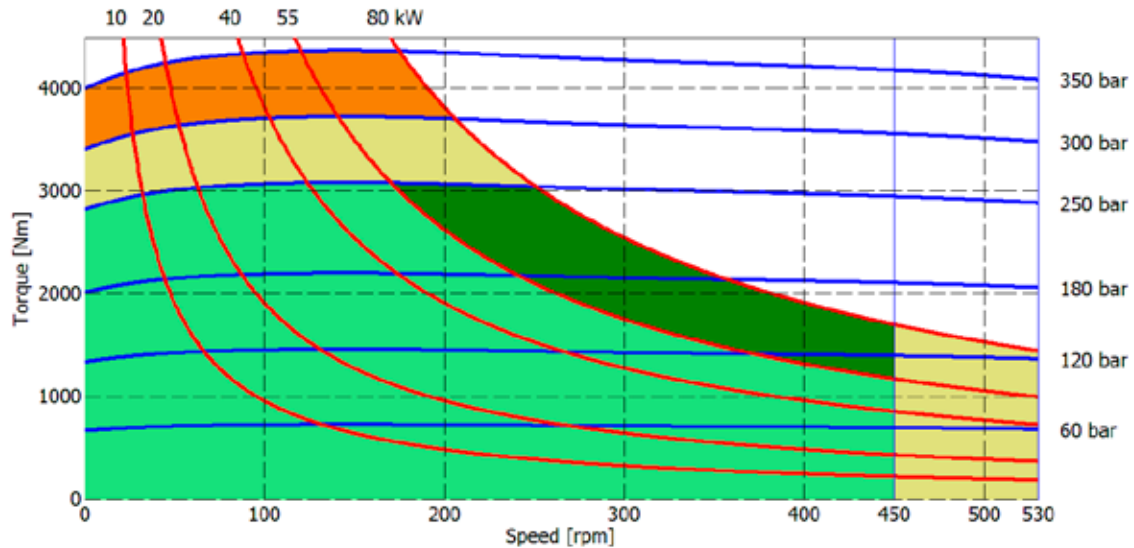
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

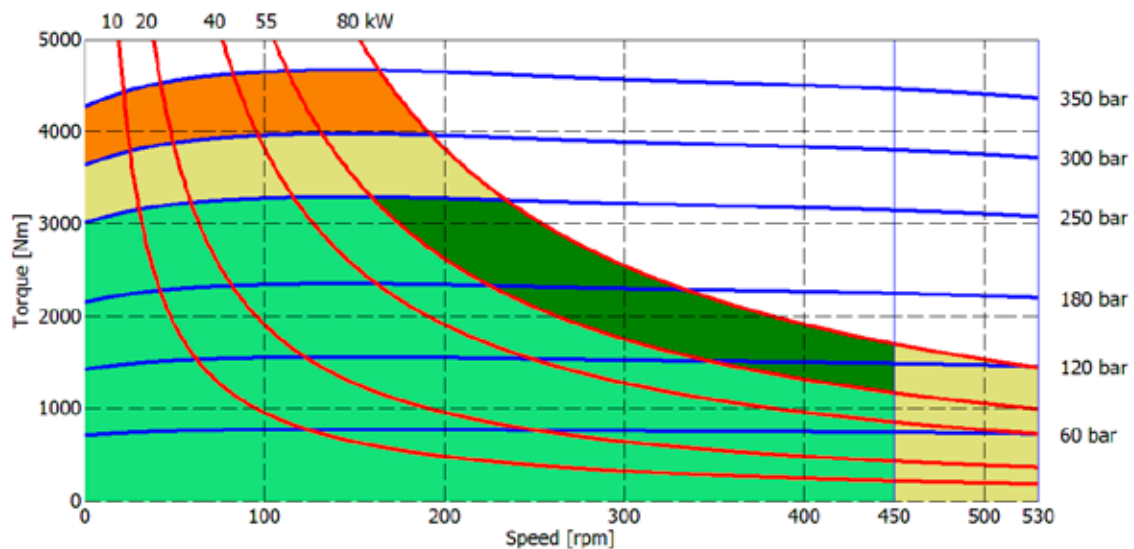
The data specified into the catalogue are for product description purpose only and must not be interpreted as warranted characteristics in legal sense. Italgrou S.r.l. reserves the right to implement modifications without notice. All partial or total reproduction and copy without written authorization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

IAM H4 - PERFORMANCE DIAGRAMS

850 cc



900 cc



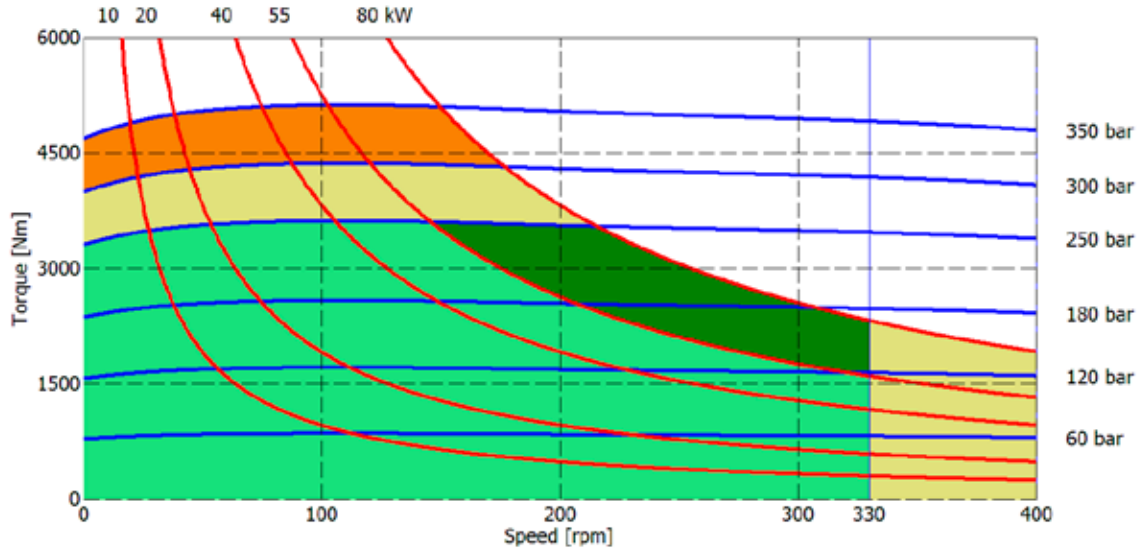
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

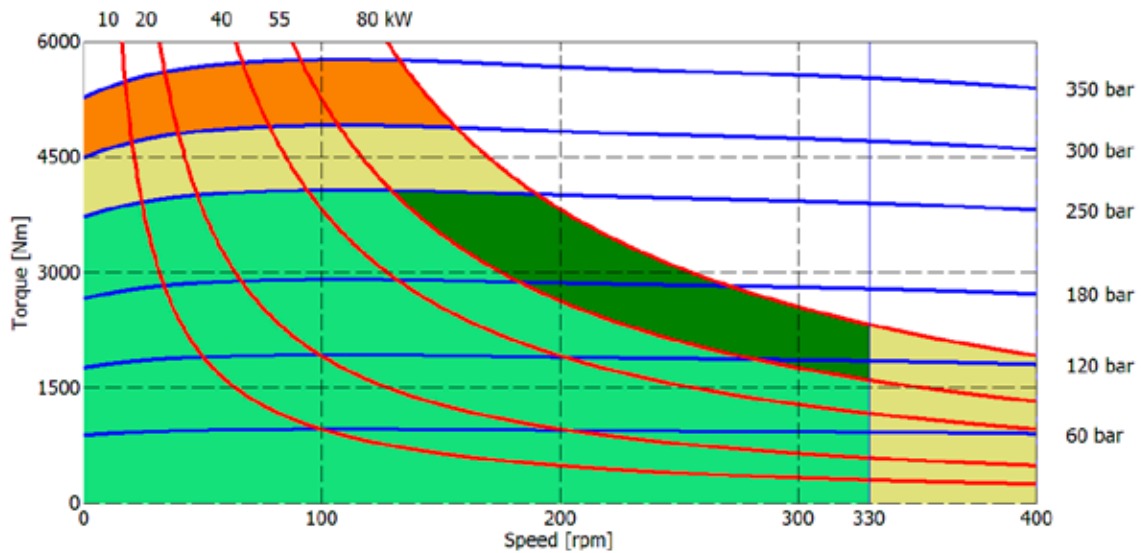
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IAM H4 - PERFORMANCE DIAGRAMS

1000 cc



1100 cc



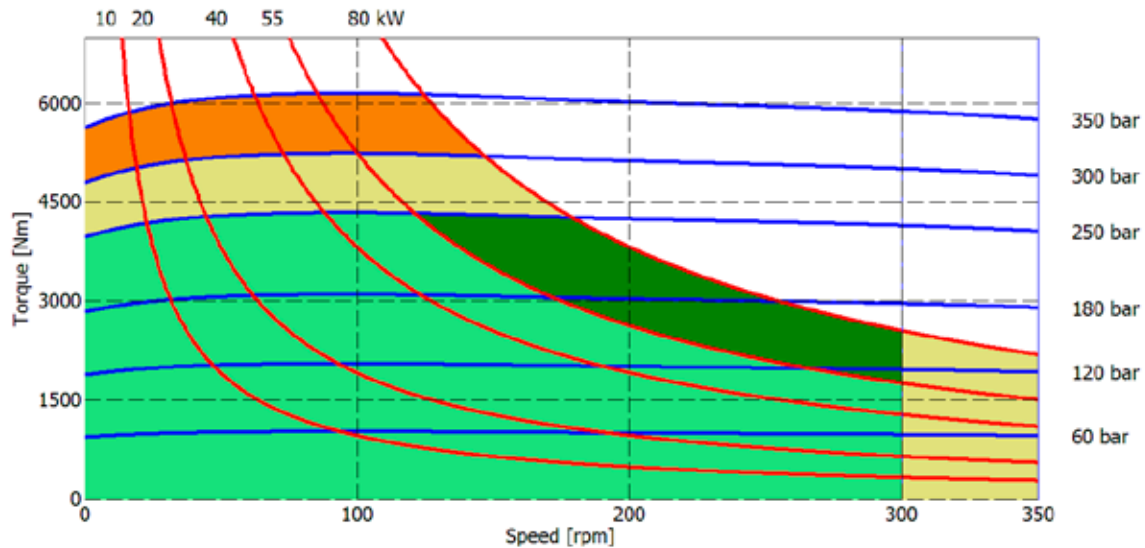
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

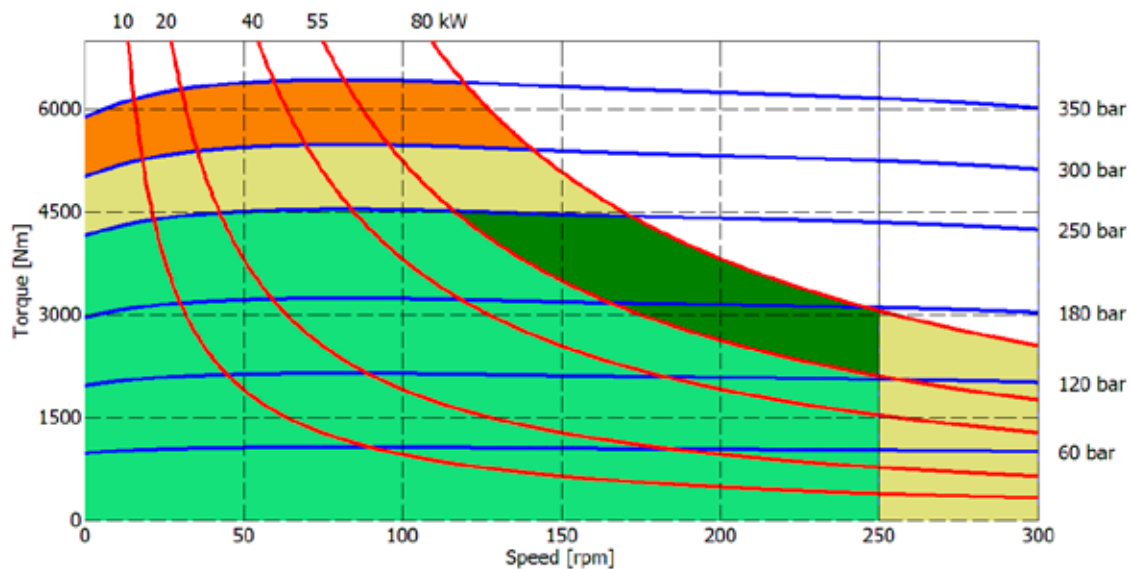
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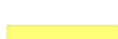

IAM H4 - PERFORMANCE DIAGRAMS

1200 cc



1250 cc

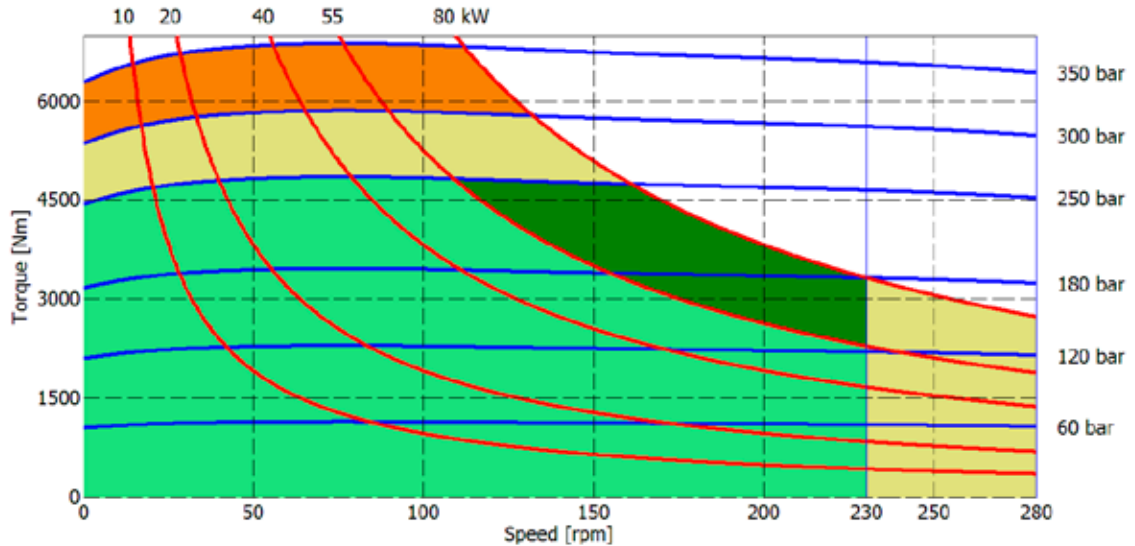


-  Continuous operation
-  Continuous operation with flushing or intermittent operation (see below for intermittent operation)
-  Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
-  Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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

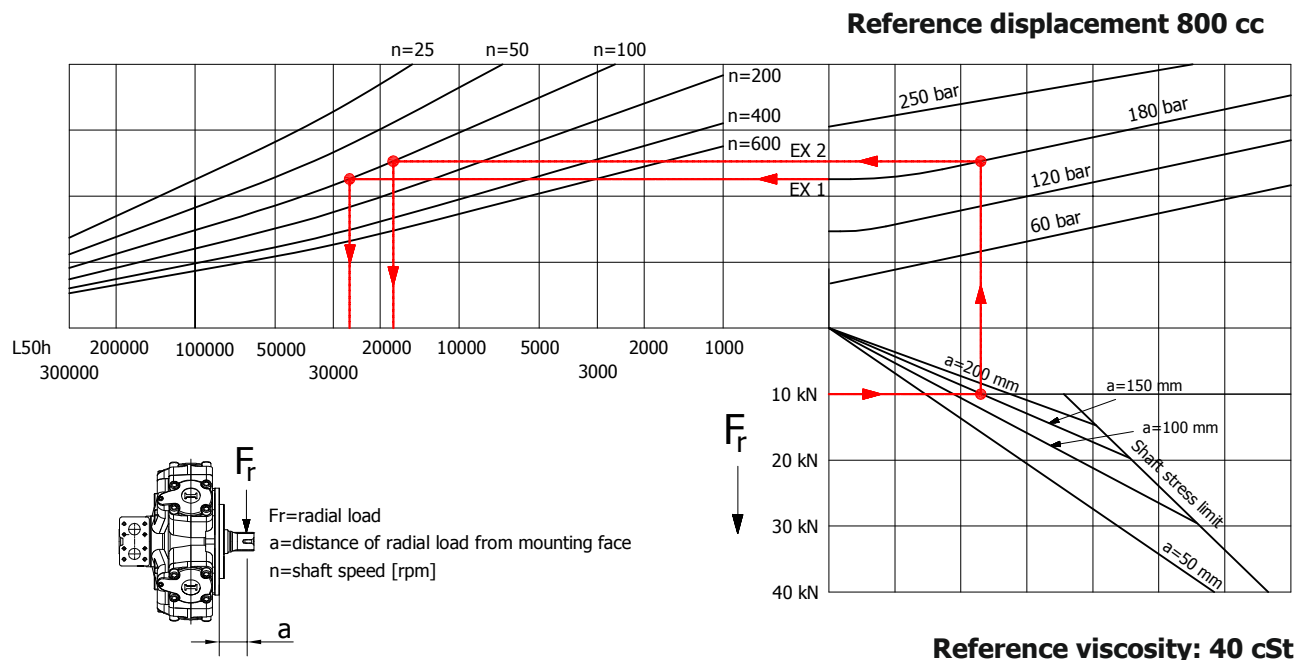


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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



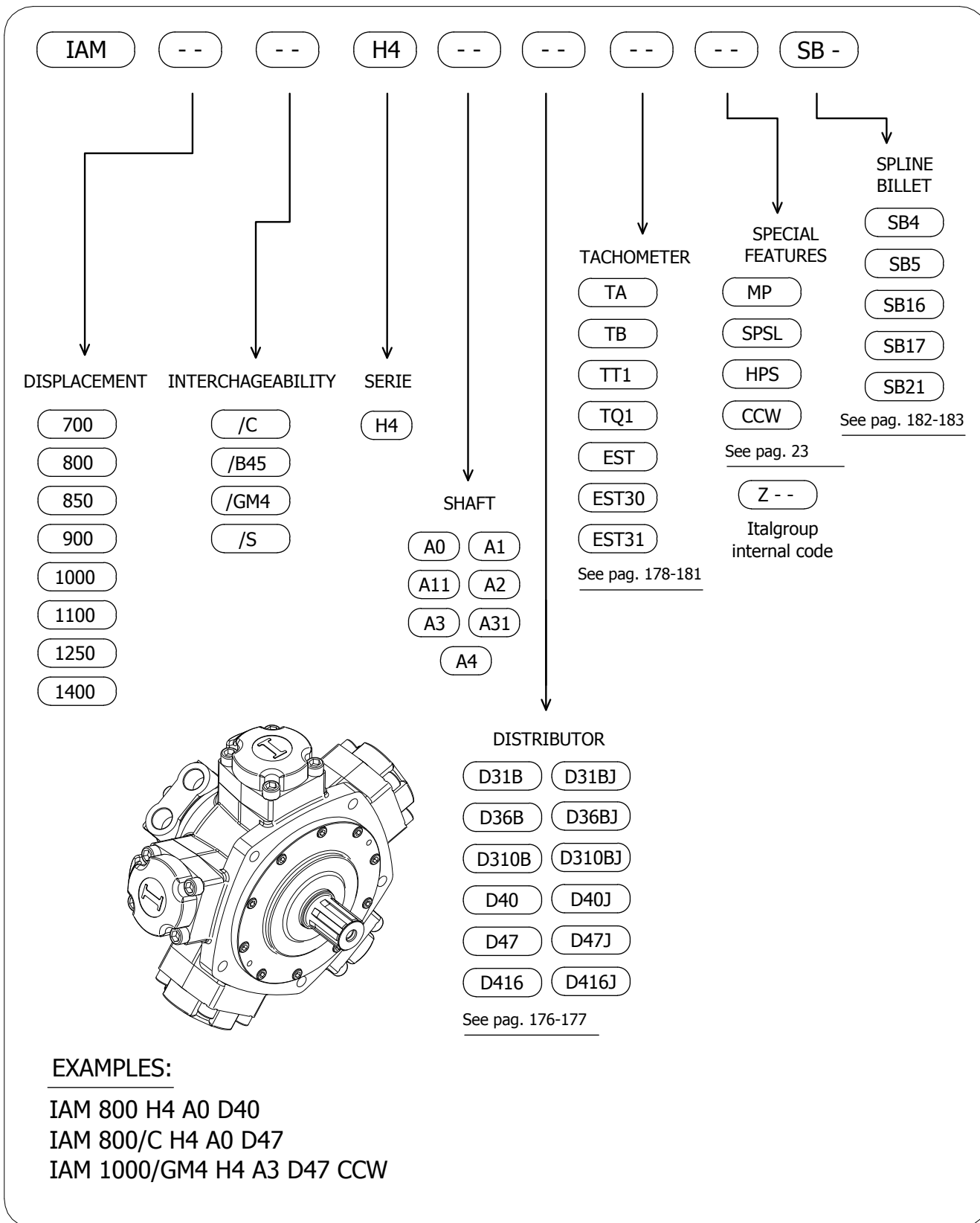
Example:

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



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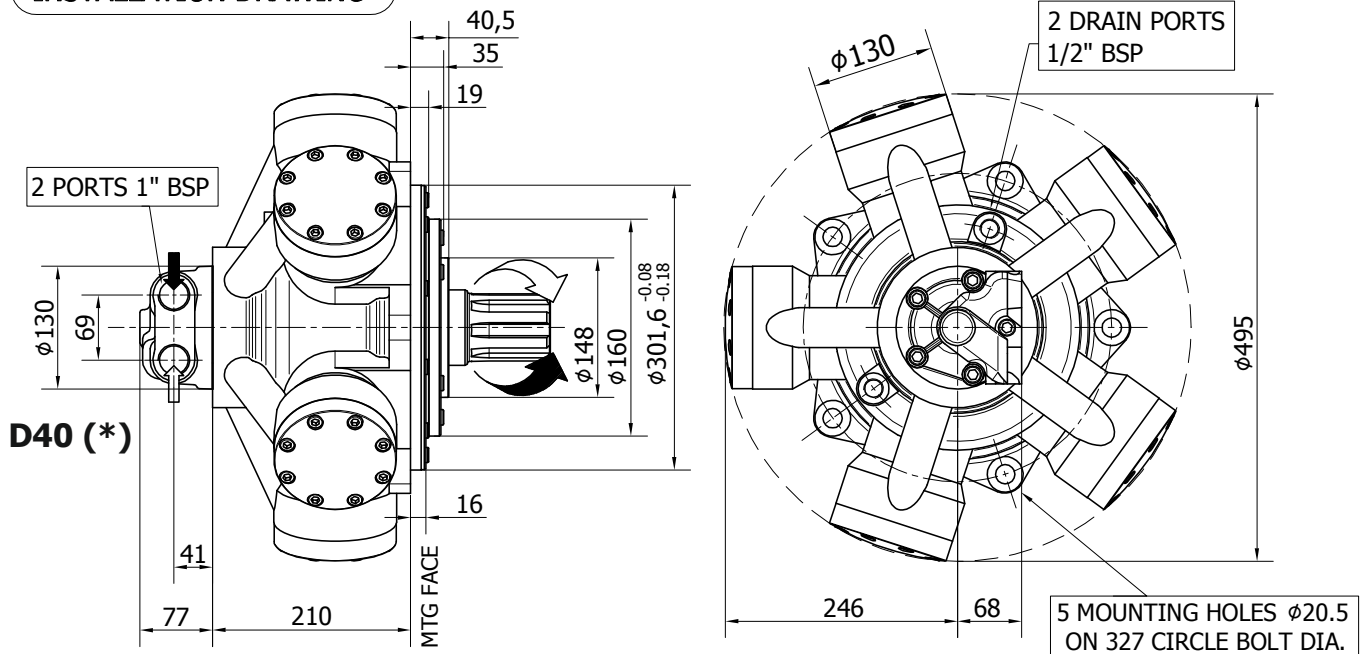
ITALGROUP SRL
IAM SERIES - IAM H45

GENERAL CATALOGUE

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INSTALLATION DRAWING



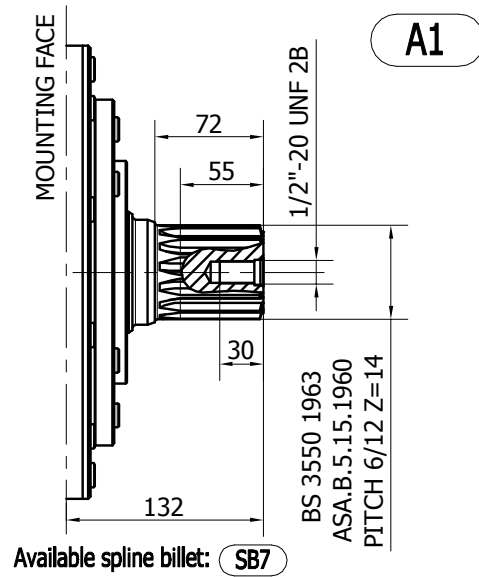
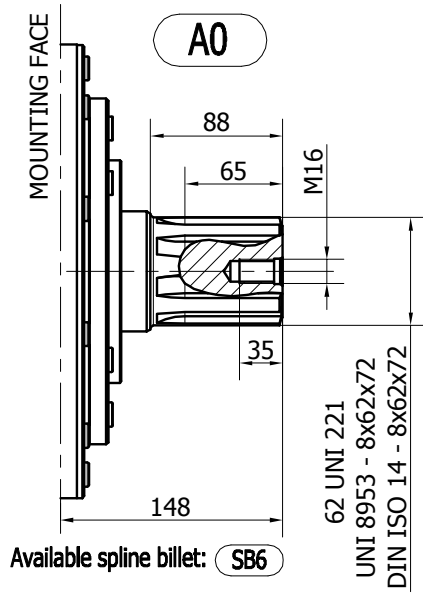
TECHNICAL DATA

		1100	1400	1600	1800
DISPLACEMENT	[cc]	1183	1376	1648	1815
SPECIFIC TORQUE	[Nm/bar]	18.8	21.9	26.2	28.9
MAX. CONT. PRESSURE	[bar]	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420
MAX. CONT. SPEED	[rpm]	350	300	275	250
PEAK SPEED (***)	[rpm]	400	350	325	300
MAX. CONT. POWER (****)	[kW]	85	85	85	85
MAX. POWER	[kW]	120	120	120	120
MAX. CASE PRESSURE	[bar]	6	6	6	6
DRY WEIGHT	[kg]	118	118	118	118
TEMPERATURE RANGE (**)	[°C]	-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.

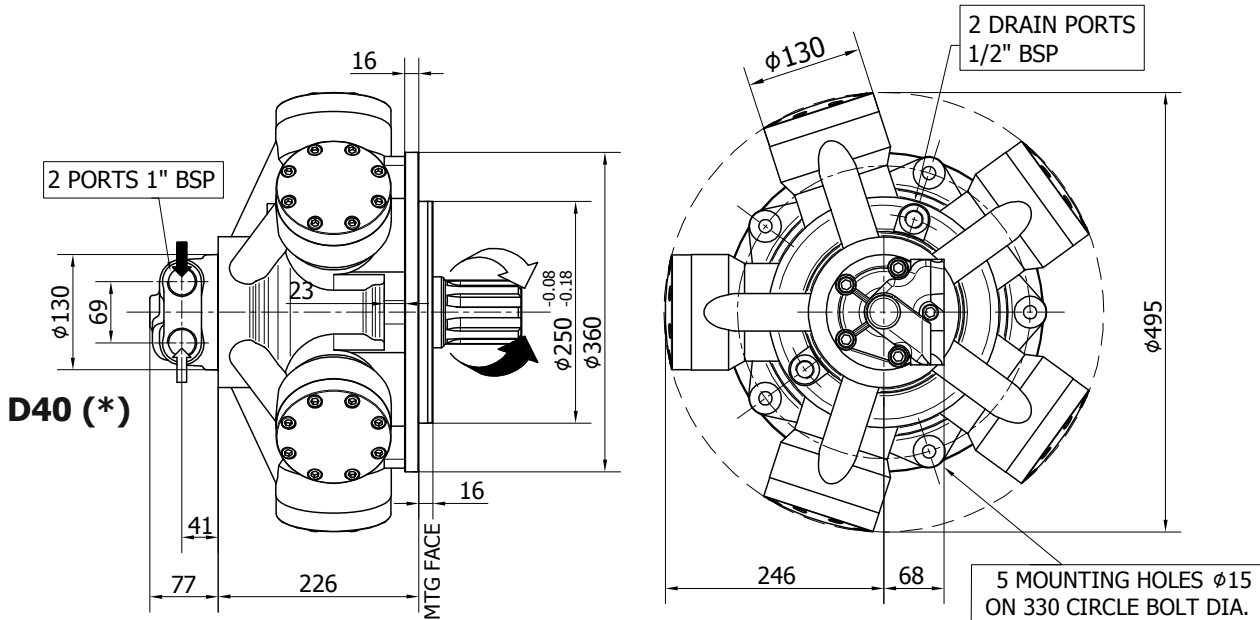
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SHAFT CONFIGURATIONS



INSTALLATION DRAWING

Available distributor flange: **FL4**
refer to page 184 (distributor fitting D75)



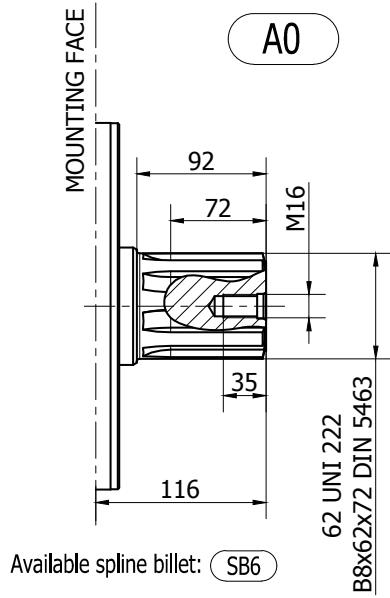
TECHNICAL DATA

		1100	1400	1600
DISPLACEMENT	[cc]	1183	1376	1648
SPECIFIC TORQUE	[Nm/bar]	18.8	21.9	26.2
MAX. CONT. PRESSURE	[bar]	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420
MAX. CONT. SPEED	[rpm]	350	300	275
PEAK SPEED (***)	[rpm]	400	350	325
MAX. CONT. POWER (****)	[kW]	85	85	85
MAX. POWER	[kW]	120	120	120
MAX. CASE PRESSURE	[bar]	6	6	6
DRY WEIGHT	[kg]	118	118	118
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70

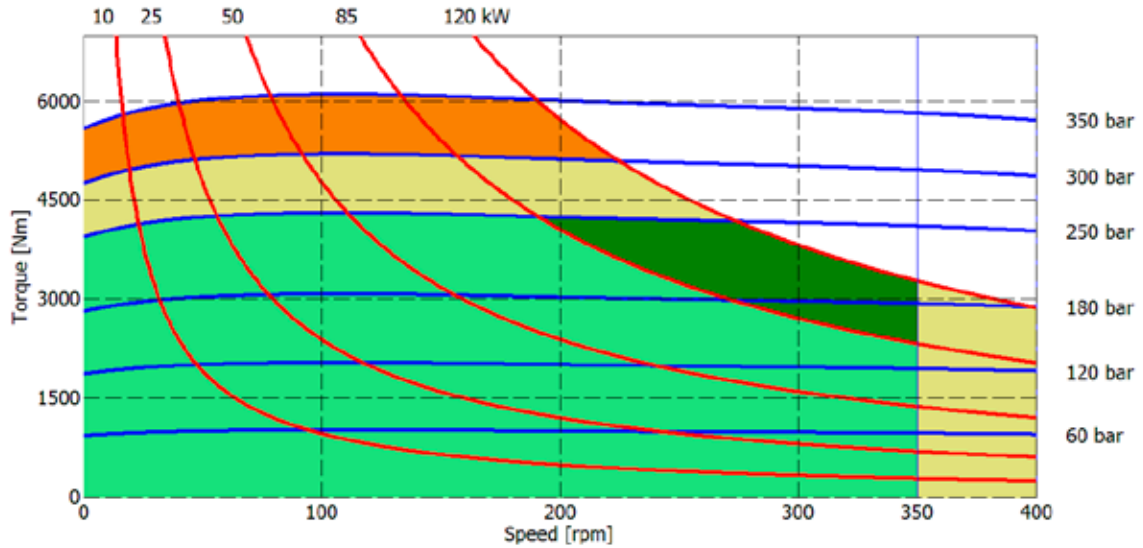
- (*) The standard distributor (D40) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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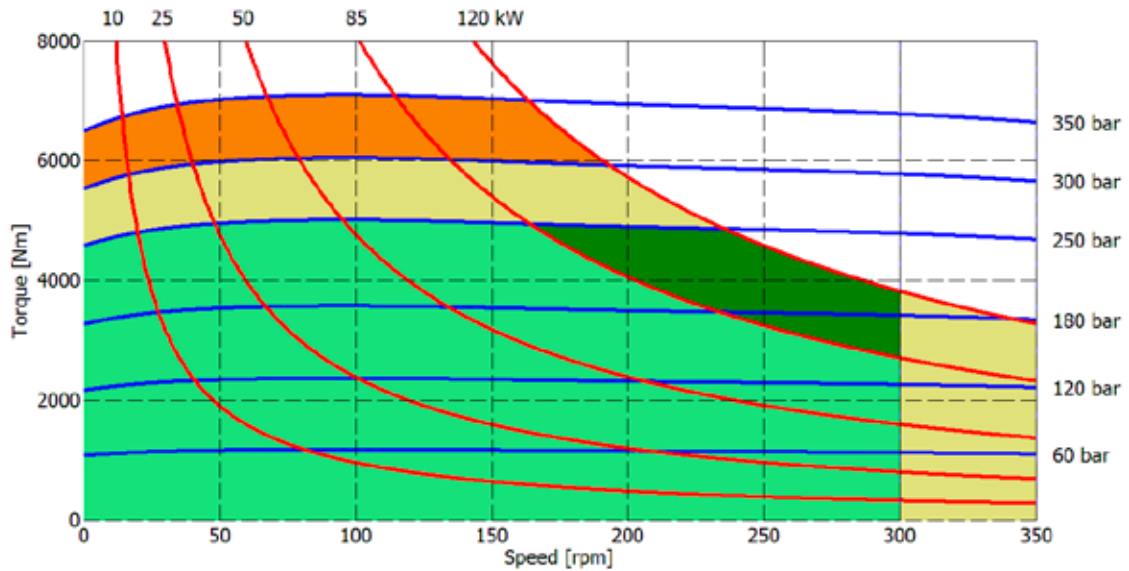
SHAFT CONFIGURATIONS



1100 cc



1400 cc



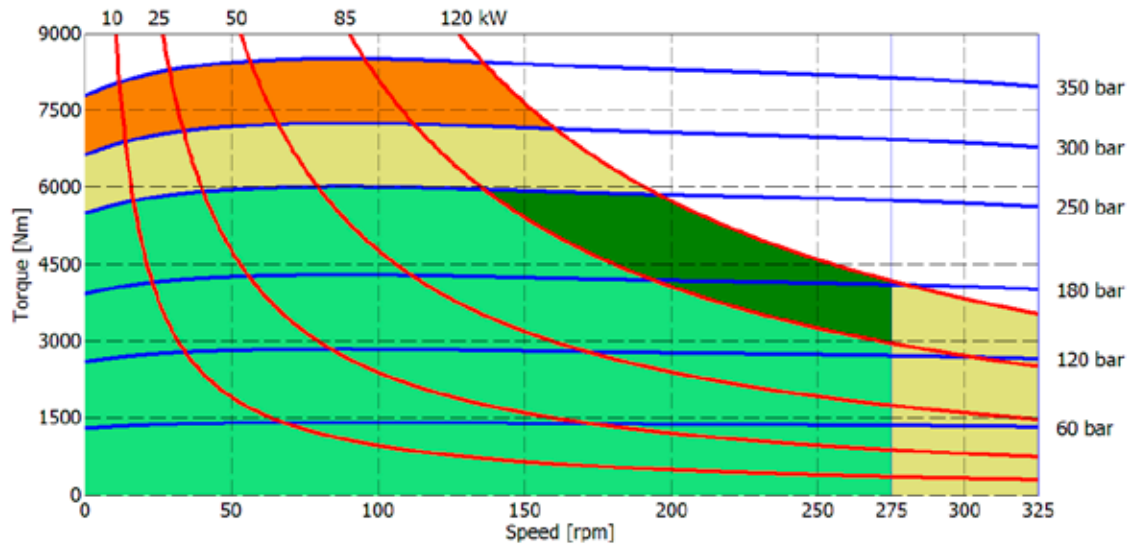
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

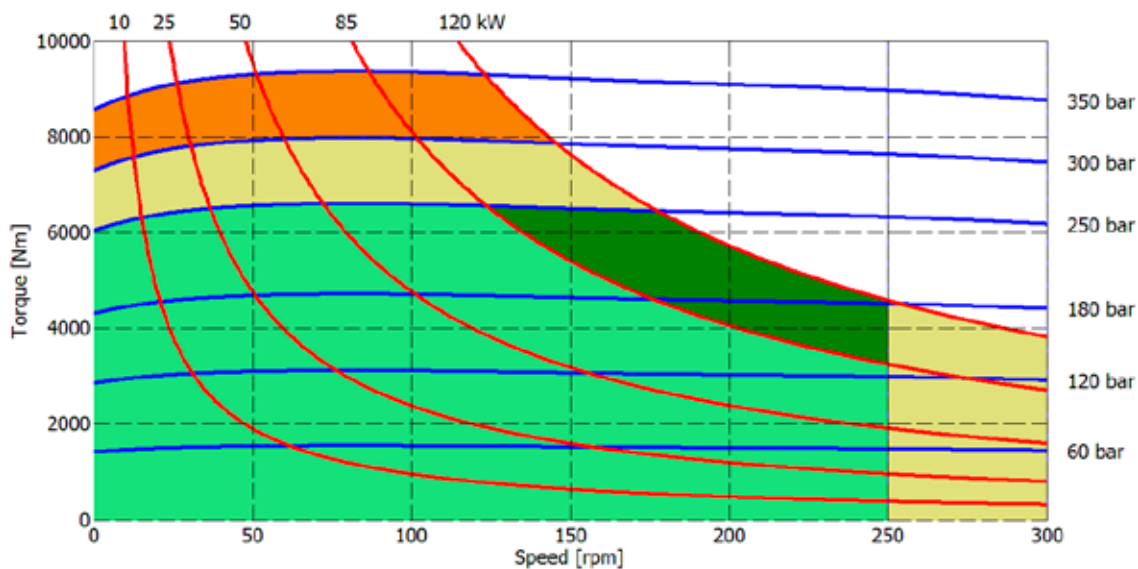
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IAM H45 - PERFORMANCE DIAGRAMS

1600 cc



1800 cc



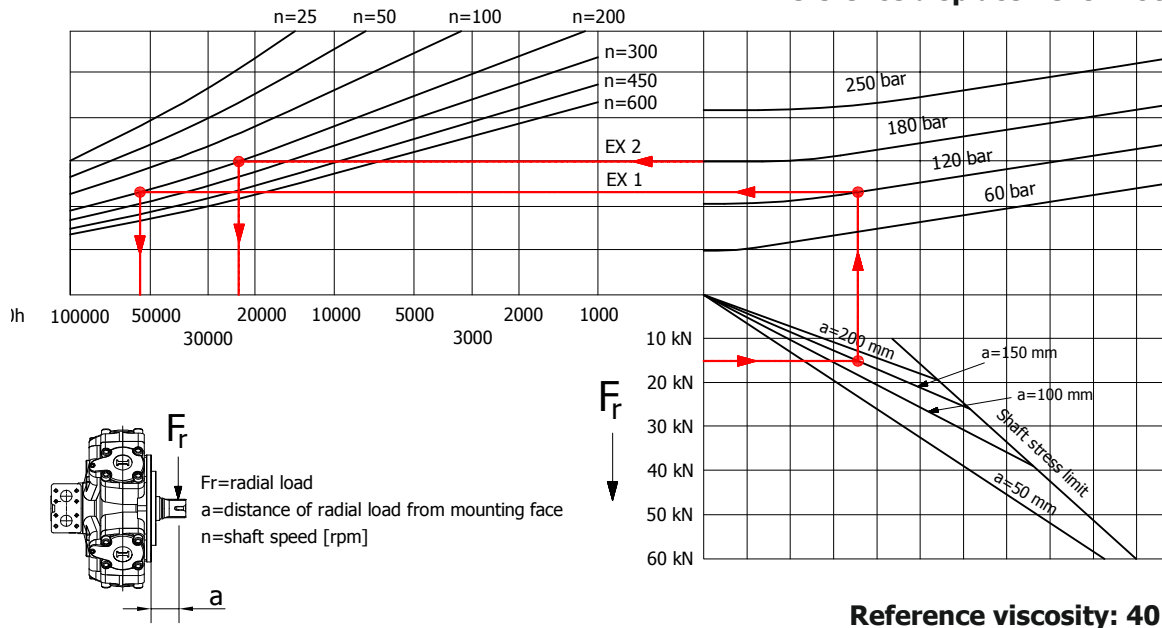
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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

Reference displacement 1400 cc



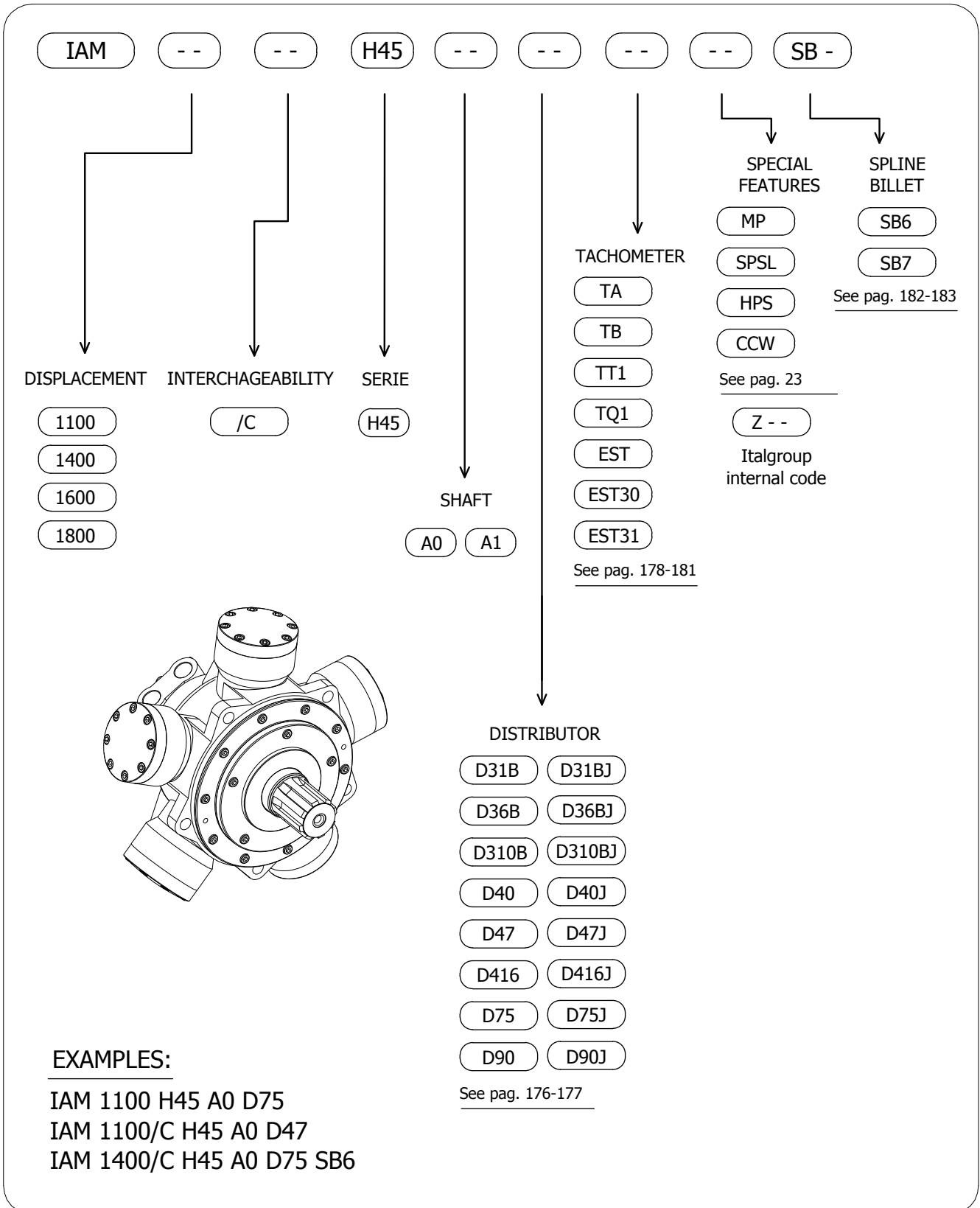
Example:

We suppose (EX2): $p=180$ [bar], $n=200$ [rpm]; we obtain an average lifetime of 22000 [h].

If we suppose (EX1): $F_r=15$ [kN], $a=150$ [mm], $n=200$ [rpm] and $p=120$ [bar] we obtain an average lifetime of 51000 [h].

The above data are referring to the IAM H45 series motors, displacement 1400 cc.

IAM H45 - ORDERING CODE



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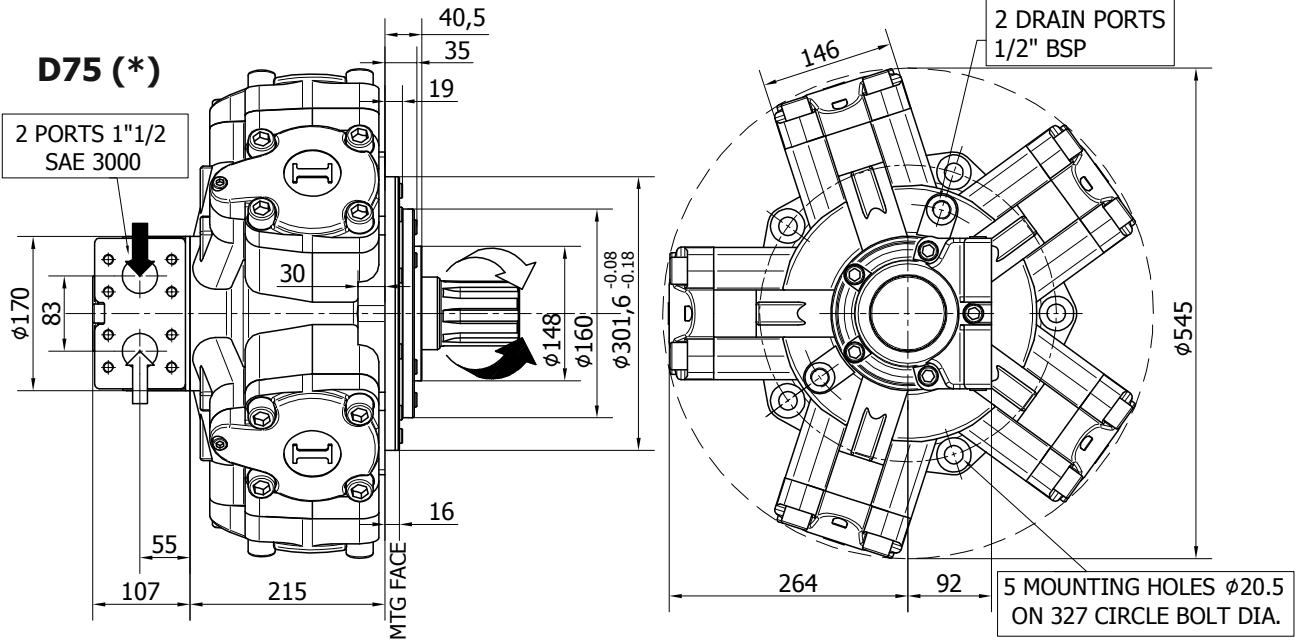
ITALGROUP SRL
IAM SERIES - IAM H5
GENERAL CATALOGUE

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<u>IAM 1600-1800-2000-2200/C H5 - INSTALLATION DRAWINGS</u>	"	126 - 127
<u>IAM 1000/B60 - 1400/B80 - 1600/B100 H5 - INSTALLATION DRAWINGS</u>	"	128 - 129
<u>IAM H5/GM5 - INSTALLATION DRAWINGS</u>	"	130 - 131
<u>IAM H5 - PERFORMANCE DIAGRAMS</u>	"	132 - 136
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INSTALLATION DRAWING

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



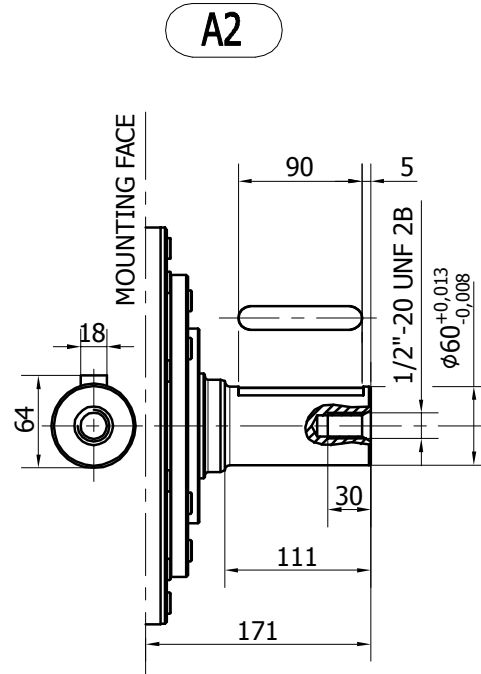
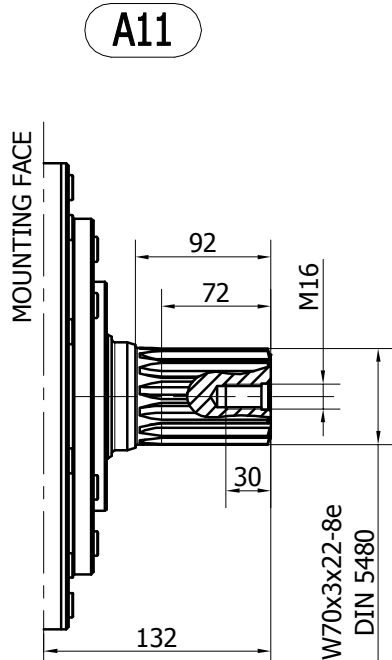
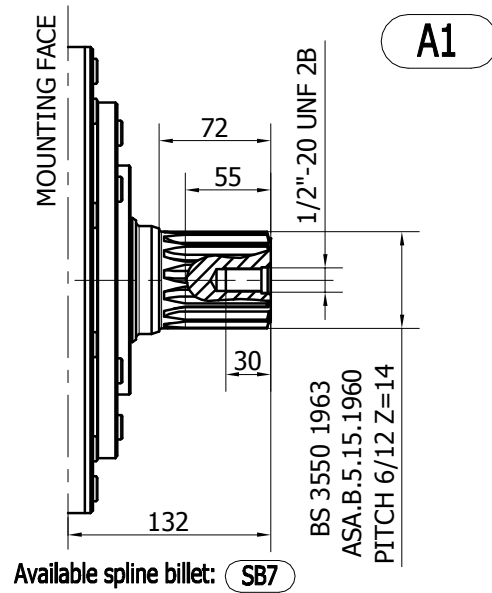
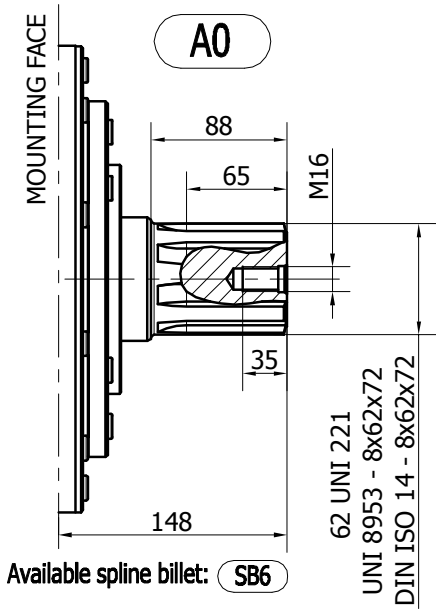
TECHNICAL DATA

		1000	1200	1400	1500	1600	1800	2000	2200 (*****)
DISPLACEMENT	[cc]	1094	1231	1376	1528	1648	1815	2035	2220
SPECIFIC TORQUE	[Nm/bar]	17.4	19.6	21.9	24.3	26.2	28.9	32.4	35.3
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250	250	250
HYDROSTATIC TEST PRES- SURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	350	300	300	300	300	250	230	220
PEAK SPEED (***)	[rpm]	400	350	350	350	340	300	260	240
MAX. CONT. POWER (****)	[kW]	90	90	90	90	90	90	90	90
MAX. POWER	[kW]	120	120	120	120	120	120	120	120
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. 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.
- (*****) Only for spare parts market. Please contact our technical department for more details.

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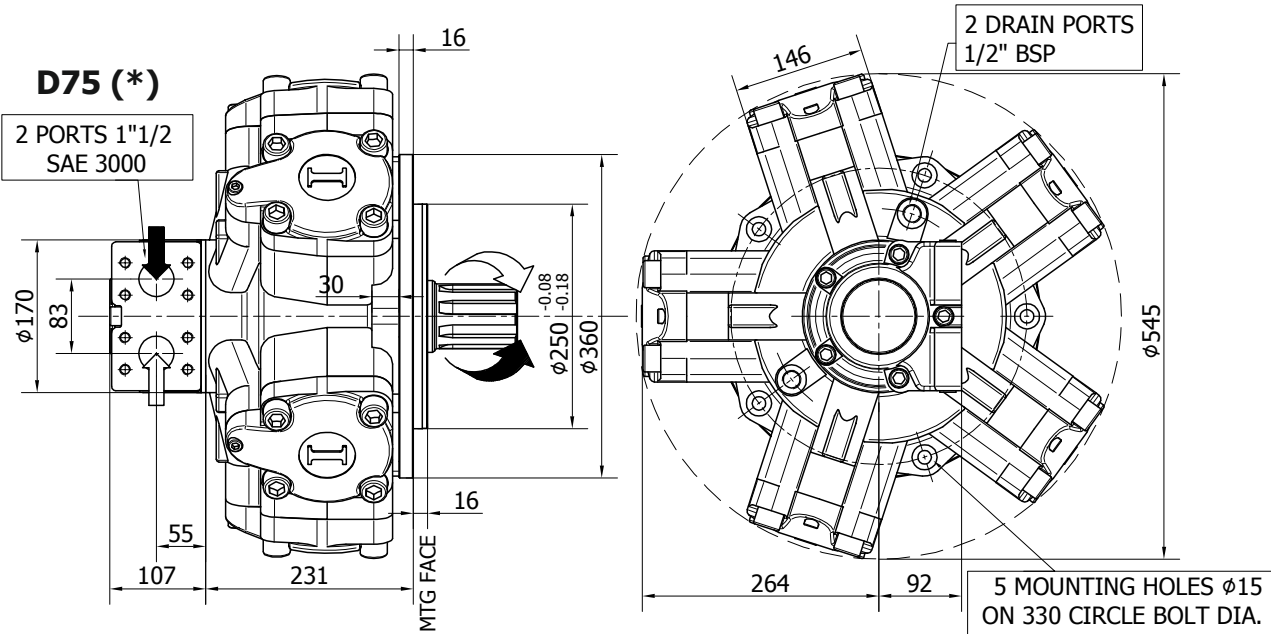
SHAFT CONFIGURATIONS



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INSTALLATION DRAWING

Available distributor flange: **FL4**
refer to page 184 (distributor fitting D75)



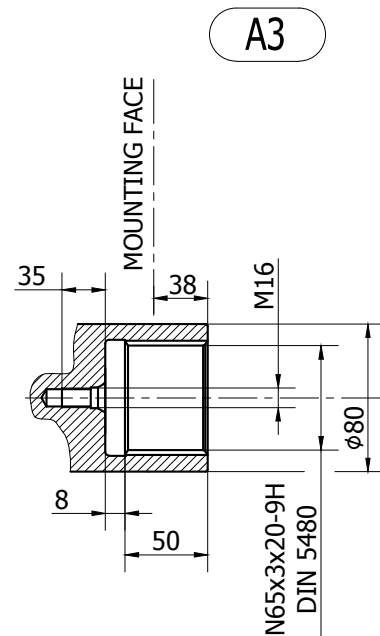
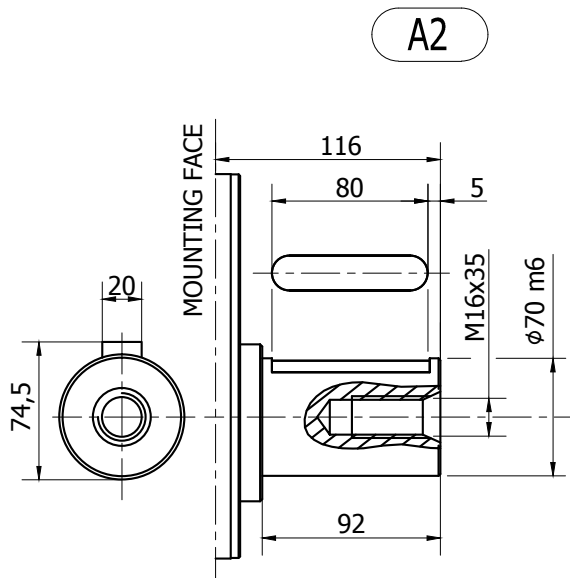
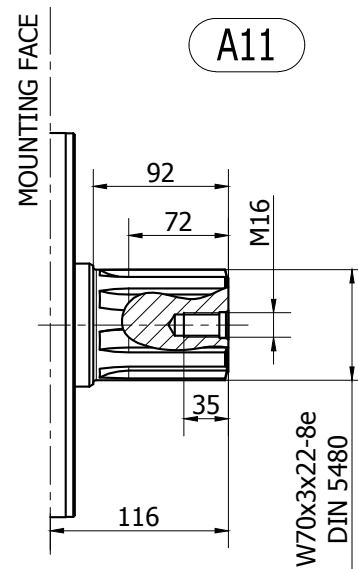
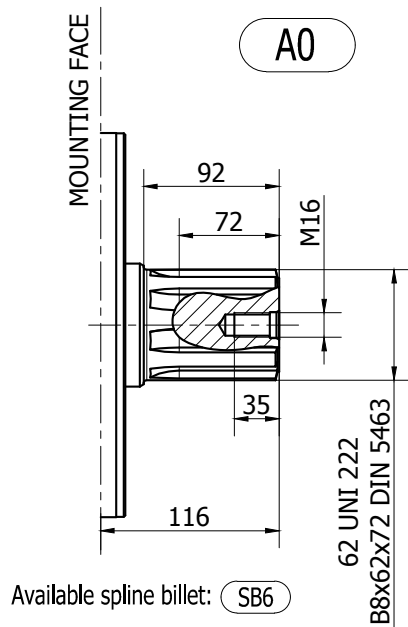
TECHNICAL DATA

		1000	1200	1400	1500	1600
DISPLACEMENT	[cc]	1094	1231	1376	1528	1648
SPECIFIC TORQUE	[Nm/bar]	17.4	19.6	21.9	24.3	26.2
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250
HYDROSTATIC TEST PRES-SURE	[bar]	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	350	300	300	300	300
PEAK SPEED (***)	[rpm]	400	350	350	350	340
MAX. CONT. POWER (****)	[kW]	90	90	90	90	90
MAX. POWER	[kW]	120	120	120	120	120
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. 176-177) for differents 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.

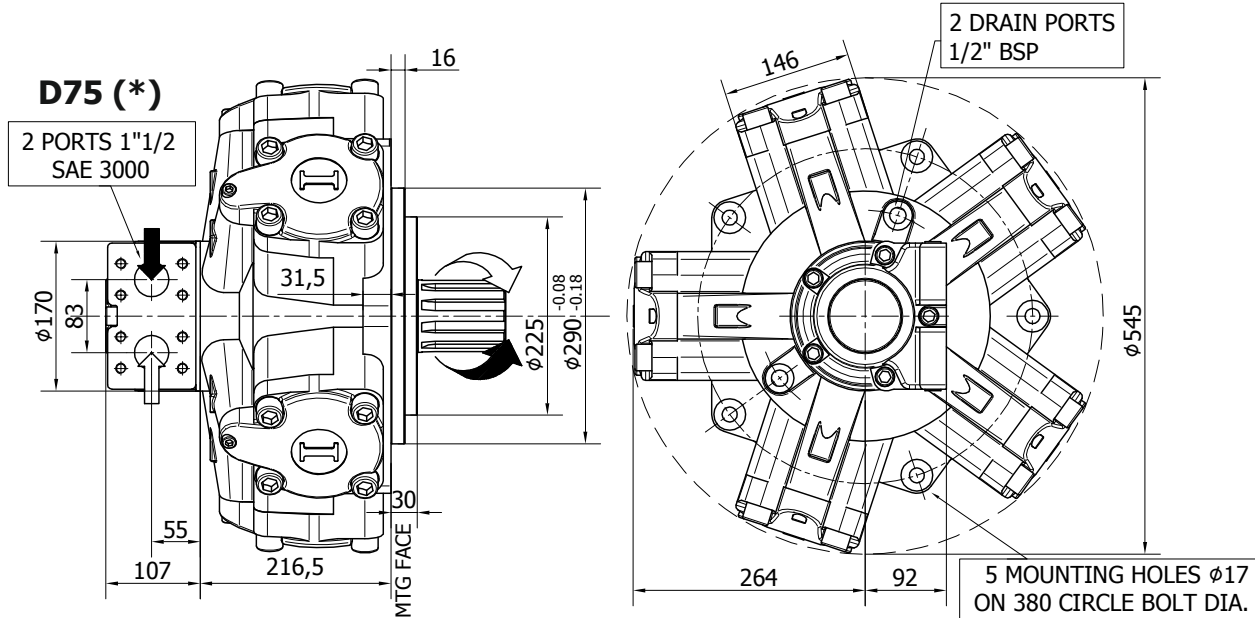
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SHAFT CONFIGURATIONS



INSTALLATION DRAWING

Available distributor flange: **FL4**
refer to page 184 (distributor fitting D75)



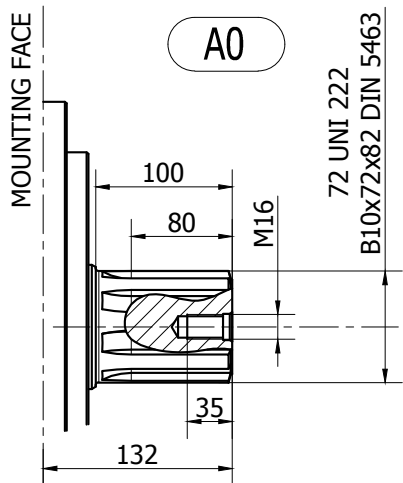
TECHNICAL DATA

		1600	1800	2000	2200 (*****)
DISPLACEMENT	[cc]	1648	1815	2035	2220
SPECIFIC TORQUE	[Nm/bar]	26.2	28.9	32.4	35.3
MAX. CONT. PRESSURE	[bar]	250	250	250	250
HYDROSTATIC TEST PRES-SURE	[bar]	420	420	420	420
MAX. CONT. SPEED	[rpm]	300	250	230	220
PEAK SPEED (***)	[rpm]	340	300	260	240
MAX. CONT. POWER (****)	[kW]	90	90	90	90
MAX. POWER	[kW]	120	120	120	120
MAX. CASE PRESSURE	[bar]	6	6	6	6
DRY WEIGHT	[kg]	173	173	173	173
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70

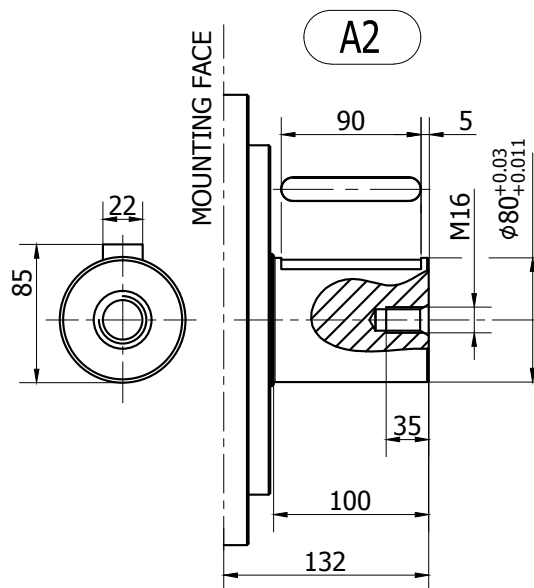
- (*) The standard distributor (D75) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.
- (*****) Only for spare parts market. Please contact our technical department for more details.

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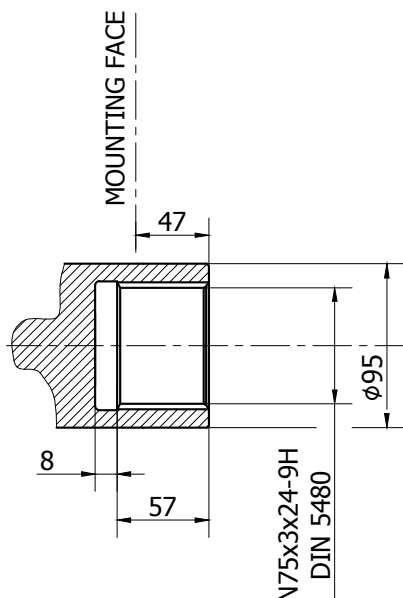
SHAFT CONFIGURATIONS



Available spline billet: **SB8**



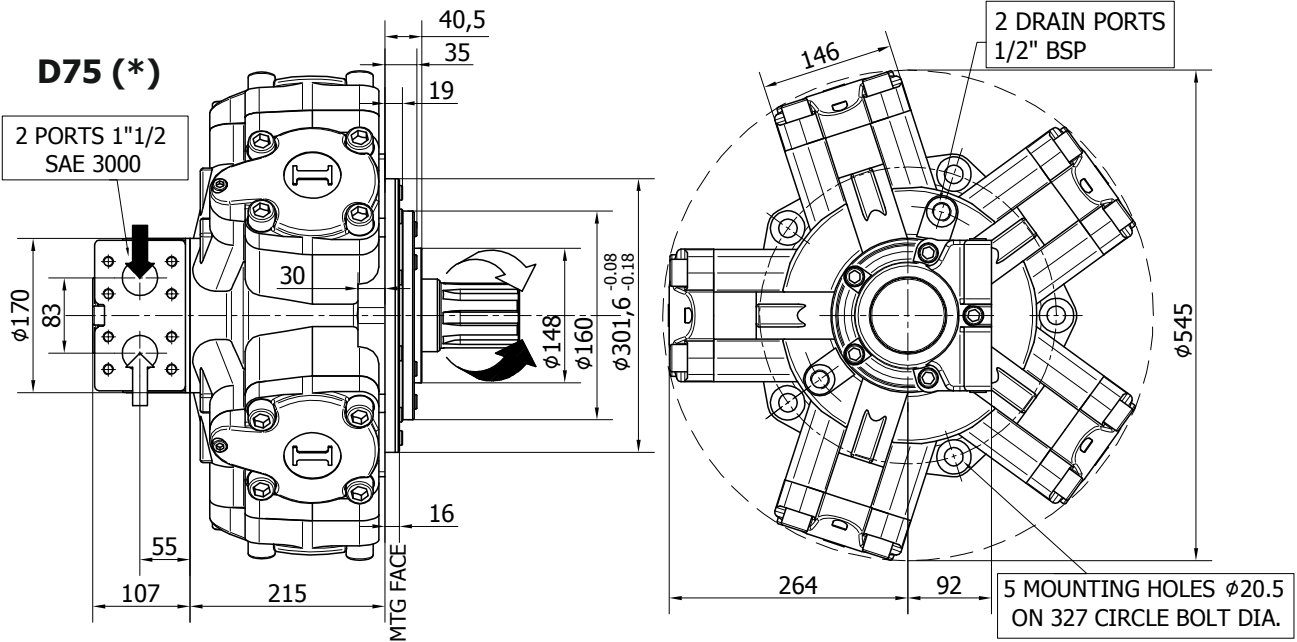
A3



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INSTALLATION DRAWING

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



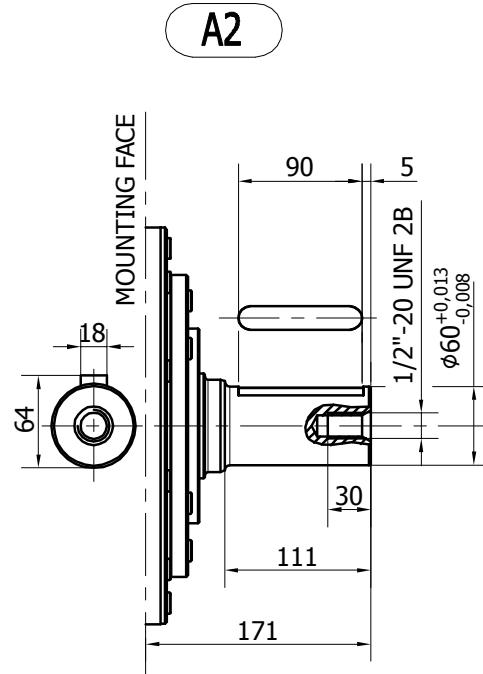
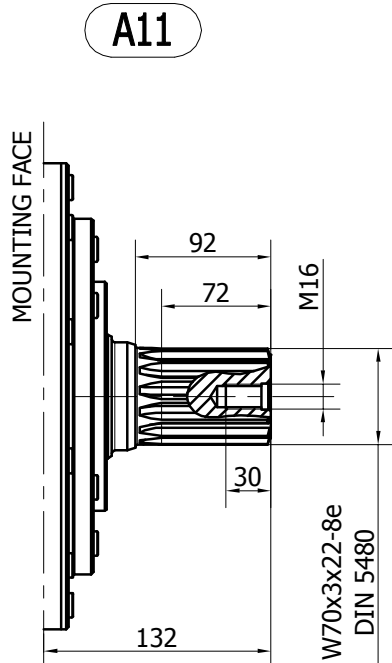
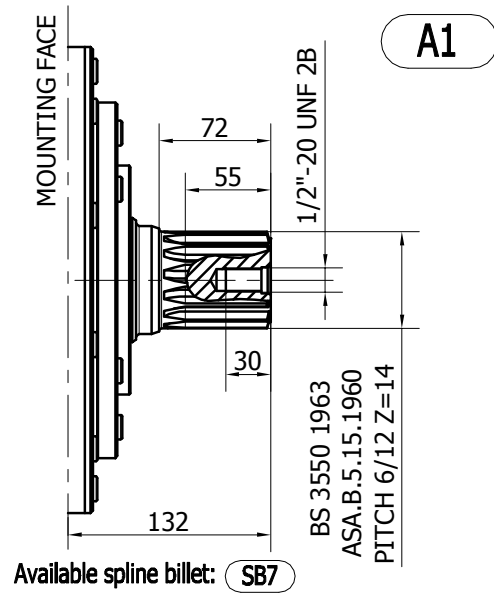
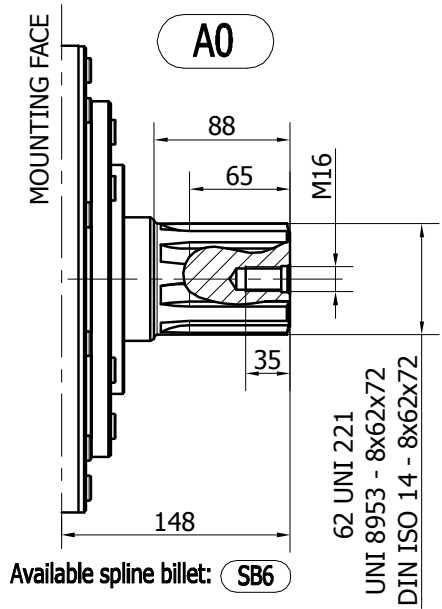
TECHNICAL DATA

		1000	1400	1600
DISPLACEMENT	[cc]	1094	1376	1648
SPECIFIC TORQUE	[Nm/bar]	17.4	21.9	26.2
MAX. CONT. PRESSURE	[bar]	250	250	250
HYDROSTATIC TEST PRES- SURE	[bar]	420	420	420
MAX. CONT. SPEED	[rpm]	350	300	300
PEAK SPEED (***)	[rpm]	400	350	340
MAX. CONT. POWER (****)	[kW]	90	90	90
MAX. POWER	[kW]	120	120	120
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. 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.

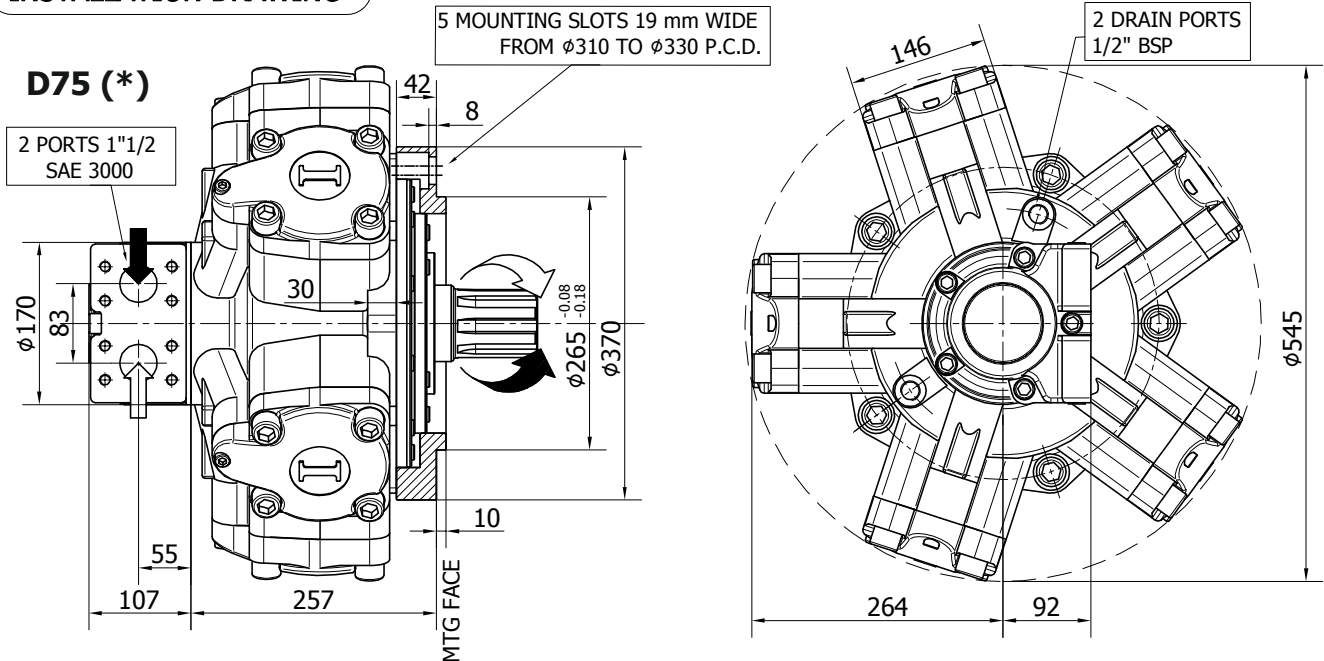
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SHAFT CONFIGURATIONS



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INSTALLATION DRAWING



TECHNICAL DATA

		1000	1200	1400	1500	1600	1800	2000	2200 (*****)
DISPLACEMENT	[cc]	1094	1231	1376	1528	1648	1815	2035	2220
SPECIFIC TORQUE	[Nm/bar]	17.4	19.6	21.9	24.3	26.2	28.9	32.4	35.3
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	350	300	300	300	300	250	230	220
PEAK SPEED (***)	[rpm]	400	350	350	350	340	300	260	240
MAX. CONT. POWER (****)	[kW]	90	90	90	90	90	90	90	90
MAX. POWER	[kW]	120	120	120	120	120	120	120	120
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. 176-177) for different distributor interfaces.

- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).

- (***) Do not exceed maximum power (see pag. 13).

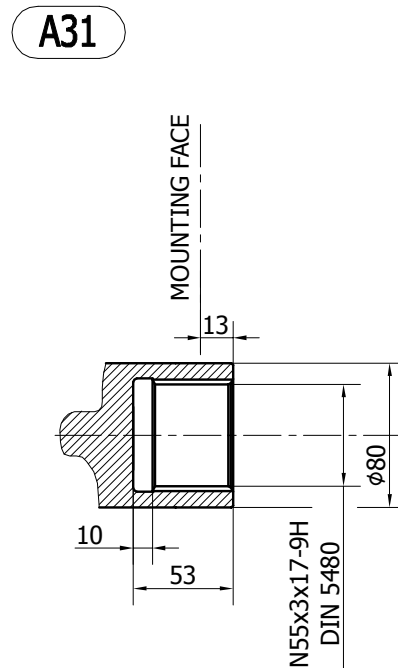
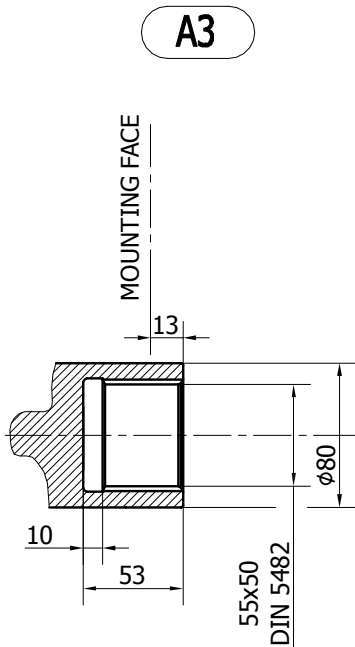
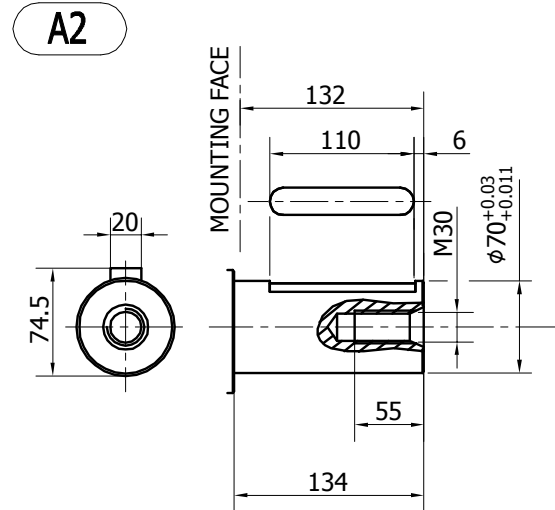
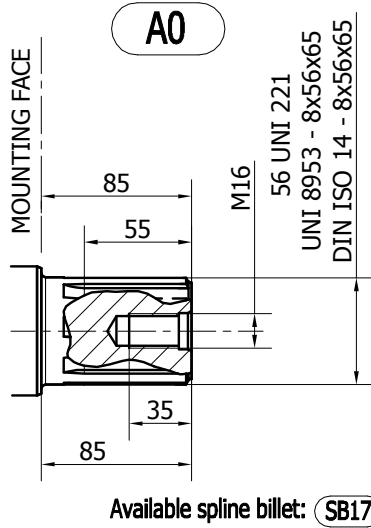
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required.

For more information please contact our technical department.

- (*****) Only for spare parts market. Please contact our technical department for more details.

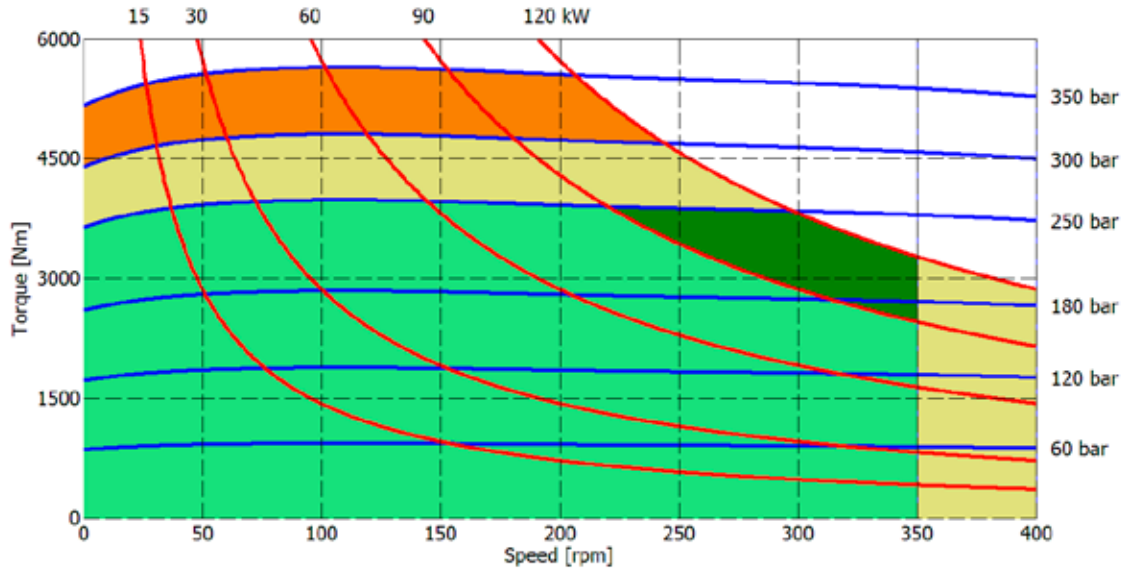
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SHAFT CONFIGURATIONS

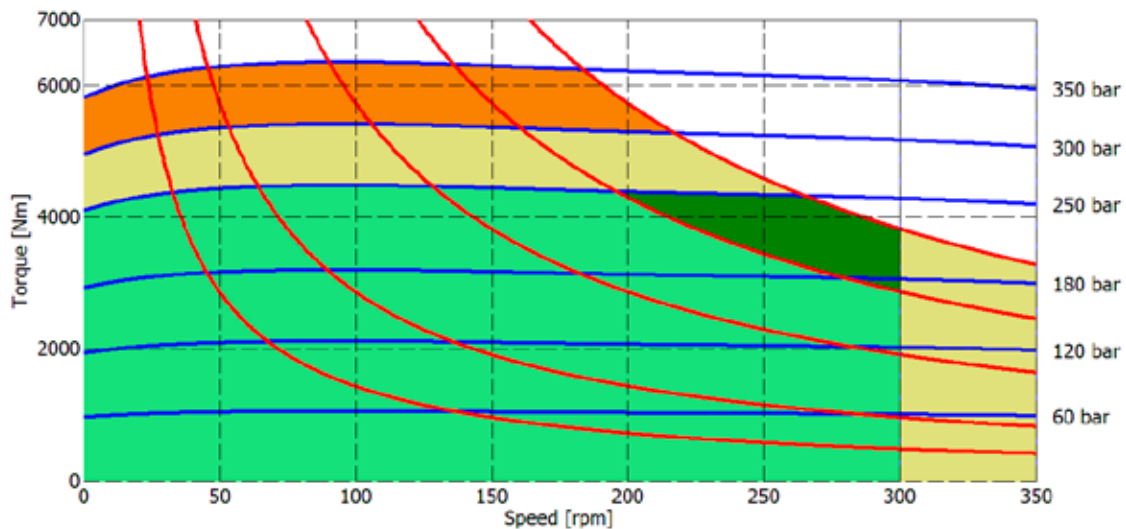


IAM H5 - PERFORMANCE DIAGRAMS

1000 cc



1200 cc



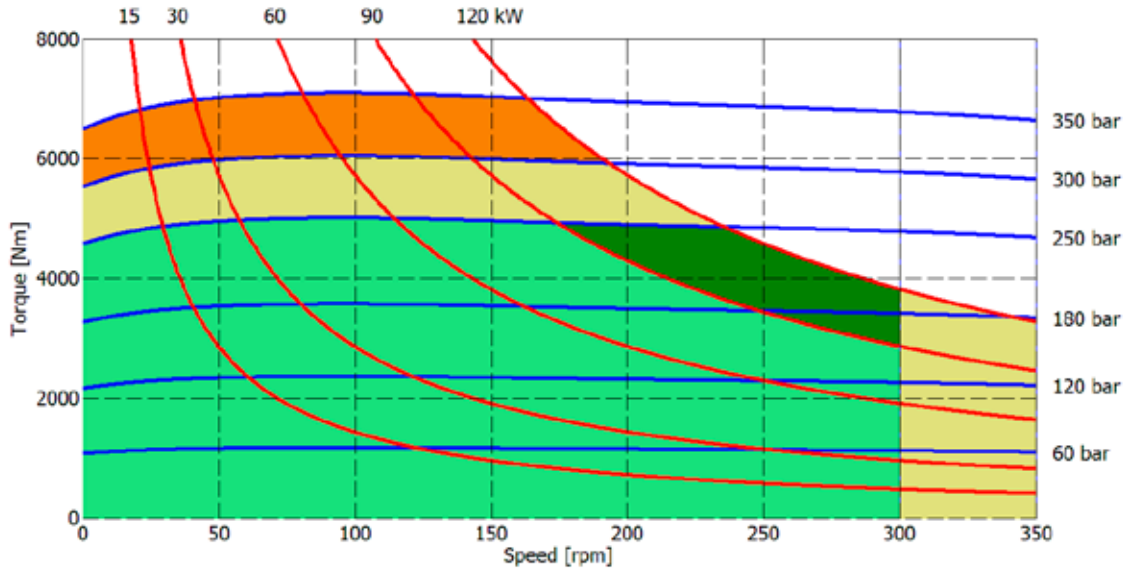
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

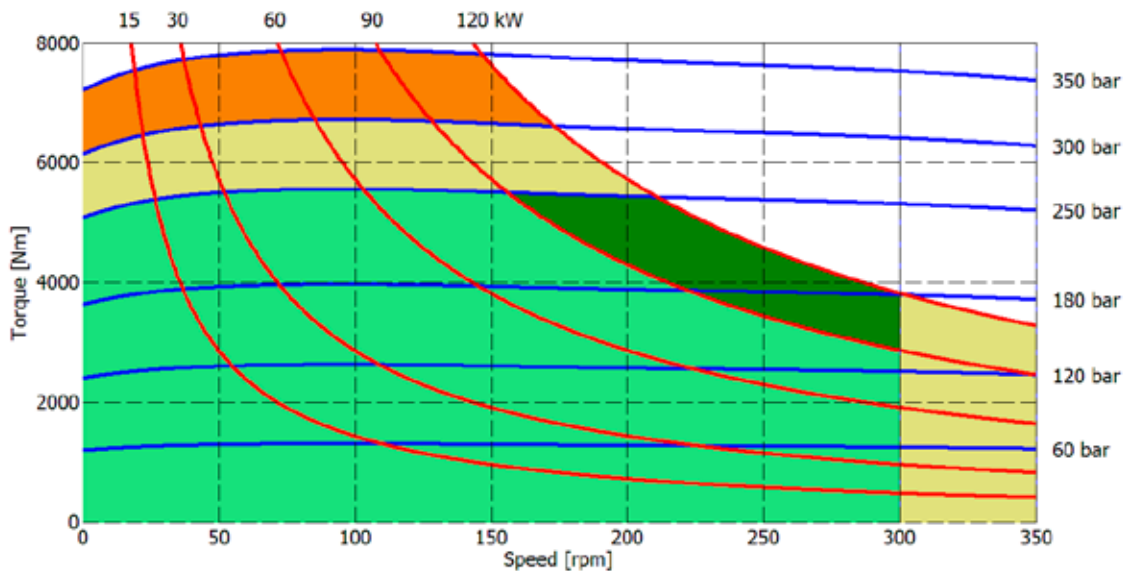
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IAM H5 - PERFORMANCE DIAGRAMS

1400 cc



1500 cc

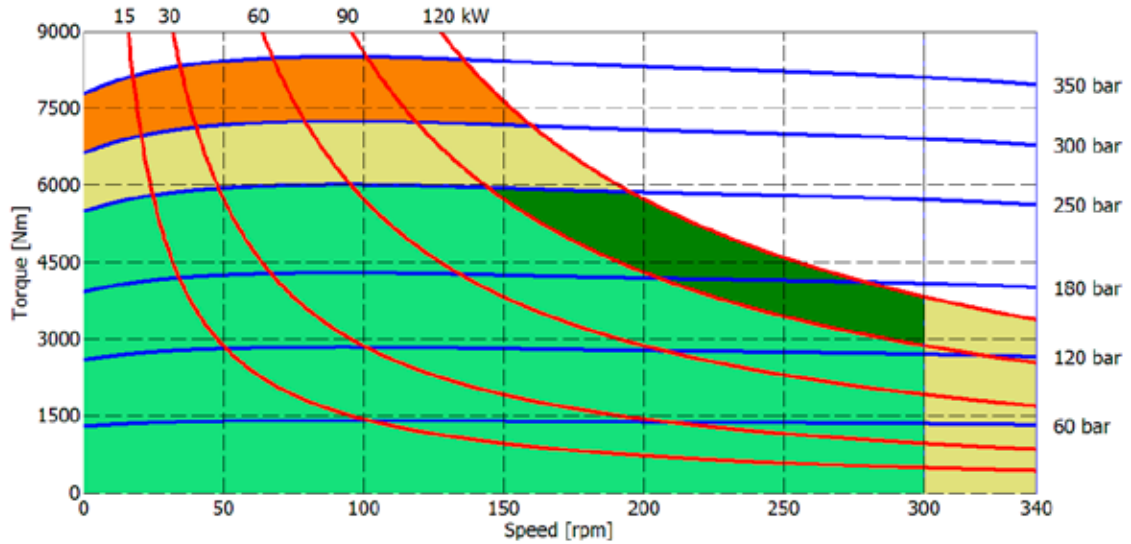


- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

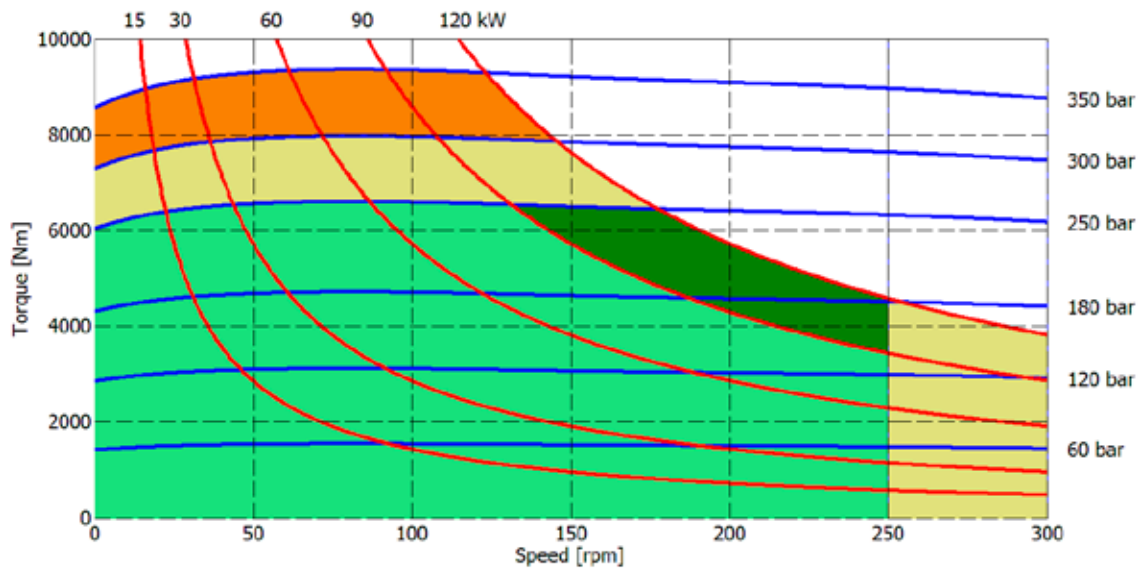
The above diagrams are referring to the hydraulic motor working with a fluid in ideal conditions (viscosity at 40 cSt). In case the working temperature increases and viscosity reach values under the recommended values (see hydraulic fluid recommendations) flushing must be performed or ISO oil grade must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

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1600 cc



1800 cc



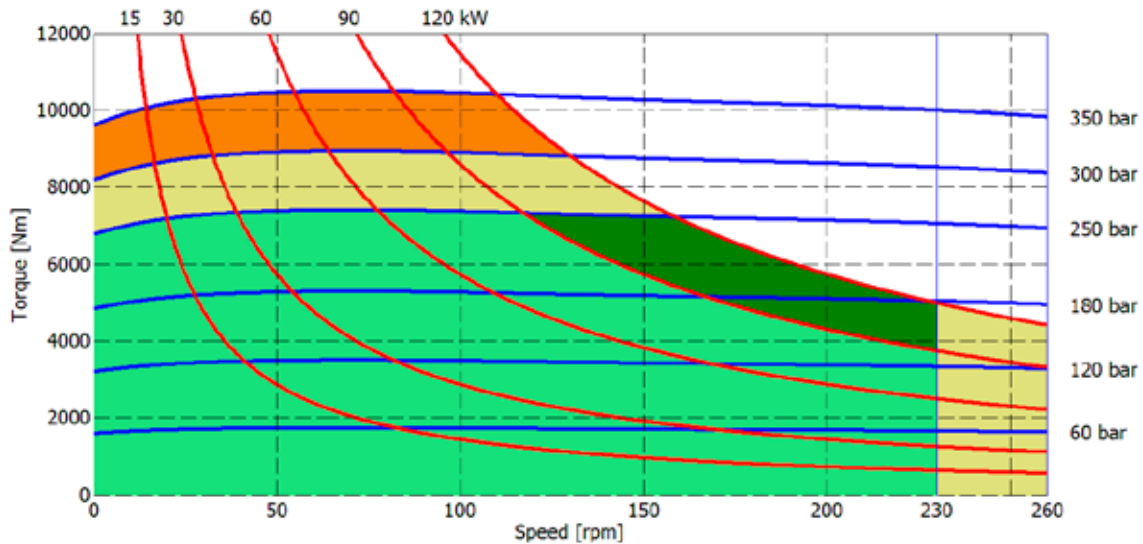
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

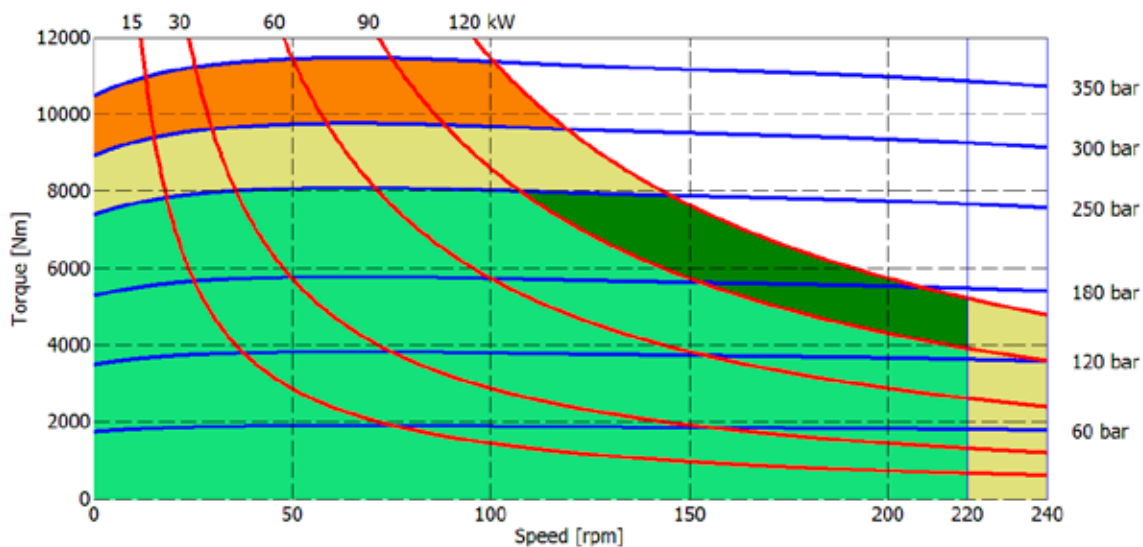
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IAM H5 - PERFORMANCE DIAGRAMS

2000 cc



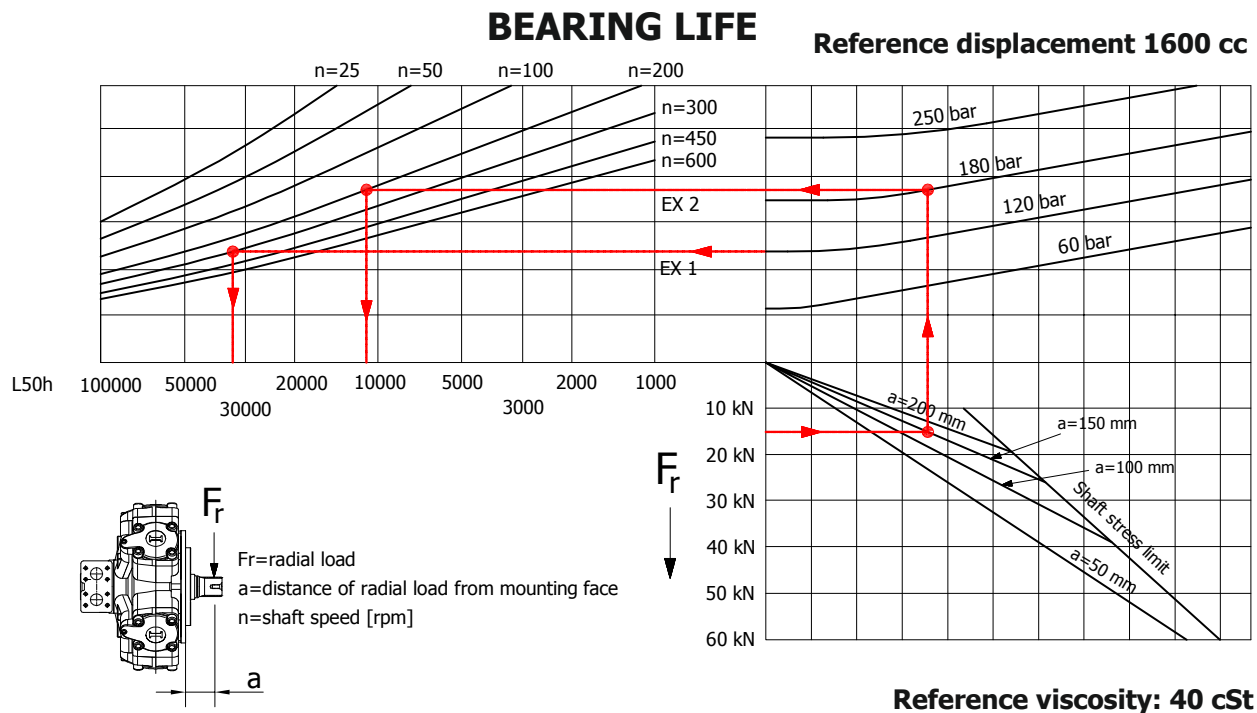
2200 cc



- 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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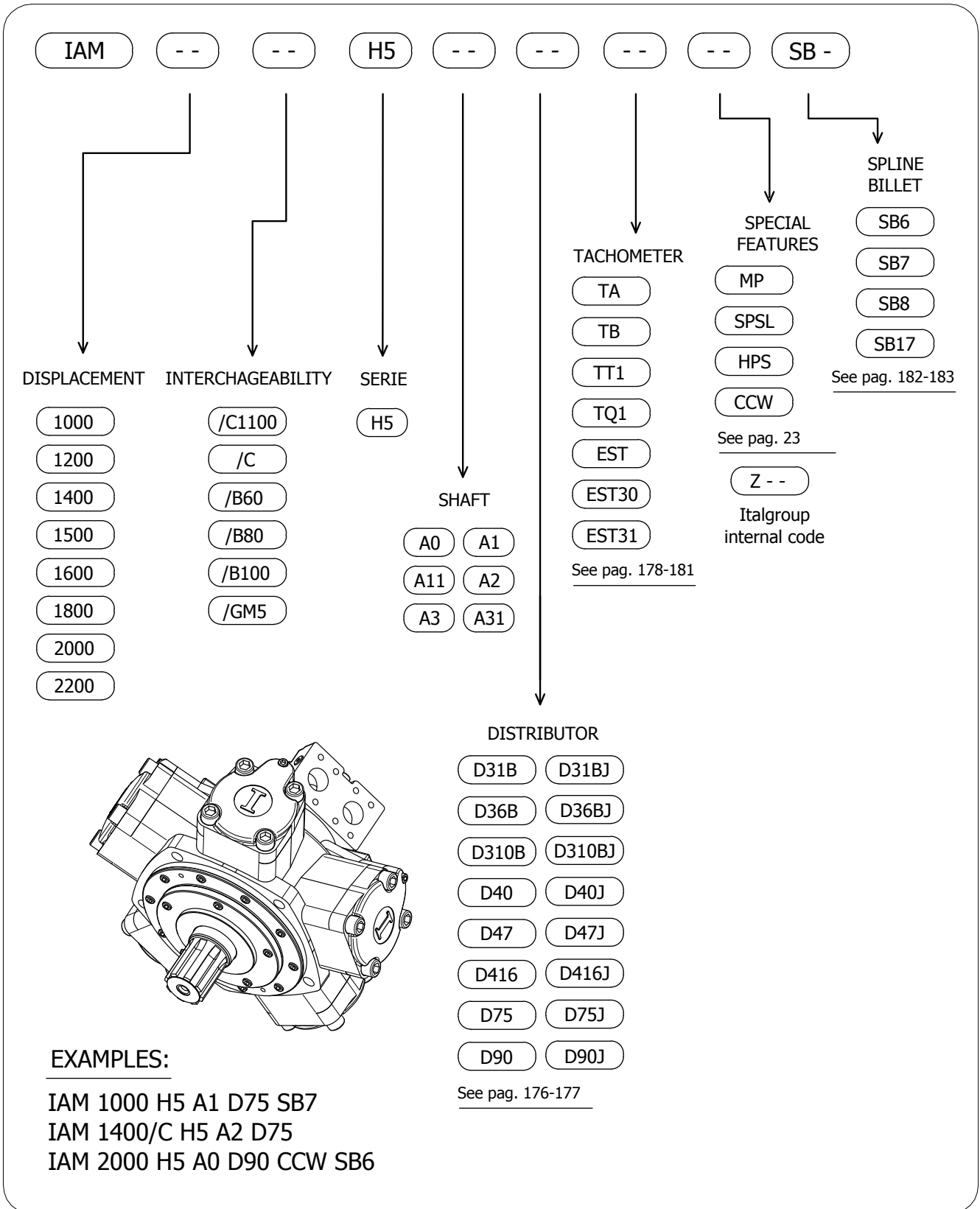
Example:

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 lifetime of 11000 [h].

The above data are referring to the IAM H5 series motors, displacement 1600 cc.

IAM H5 - ORDERING CODE



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ITALGROUP SRL
IAM SERIES - IAM H55

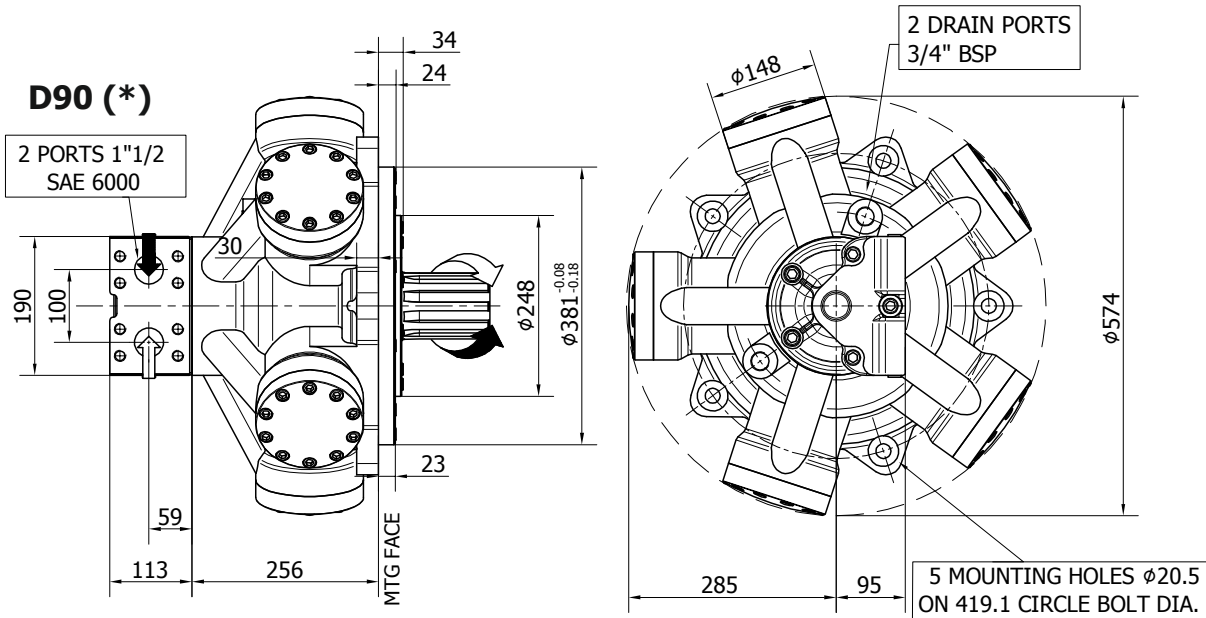
GENERAL CATALOGUE

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<u>IAM H55/C - INSTALLATION DRAWINGS</u>	"	142 - 143
<u>IAM H55 - ORDERING CODE</u>	"	144 - 146
<u>IAM H55 - ORDERING CODE</u>	"	147

INSTALLATION DRAWING

Available distributor flange: **FL7**
for S04, refer to page 187 (distributor fitting D90)



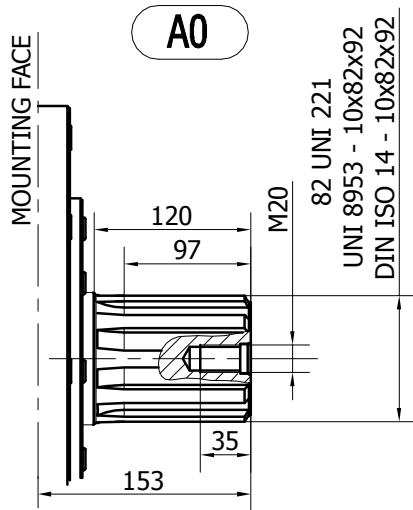
TECHNICAL DATA

		2200	2500	2800	3000
DISPLACEMENT	[cc]	2126	2525	2807	2983
SPECIFIC TORQUE	[Nm/bar]	33.8	40.2	44.7	48.2
MAX. CONT. PRESSURE	[bar]	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420
MAX. CONT. SPEED	[rpm]	240	240	240	230
PEAK SPEED (***)	[rpm]	280	280	280	270
MAX. CONT. POWER (****)	[kW]	120	120	120	120
MAX. POWER	[kW]	170	170	170	170
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

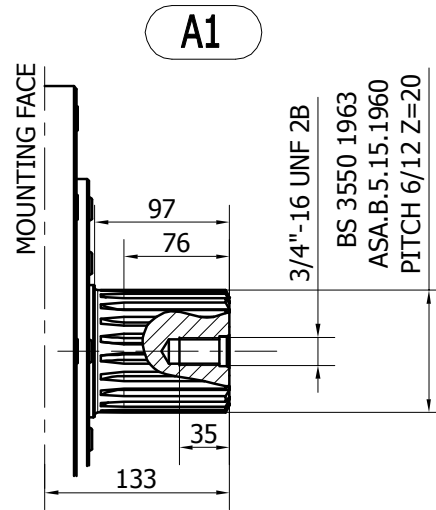
- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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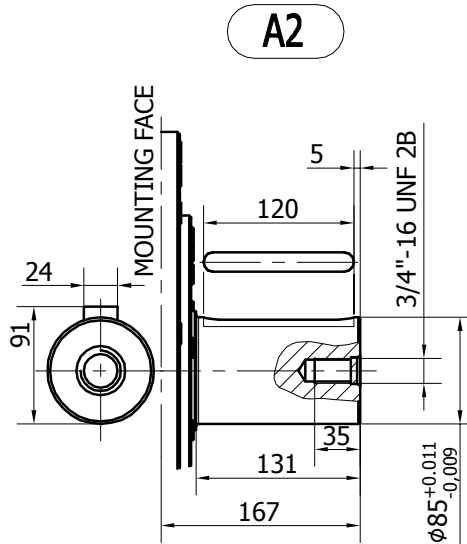
SHAFT CONFIGURATIONS



Available spline billet: **SB9**



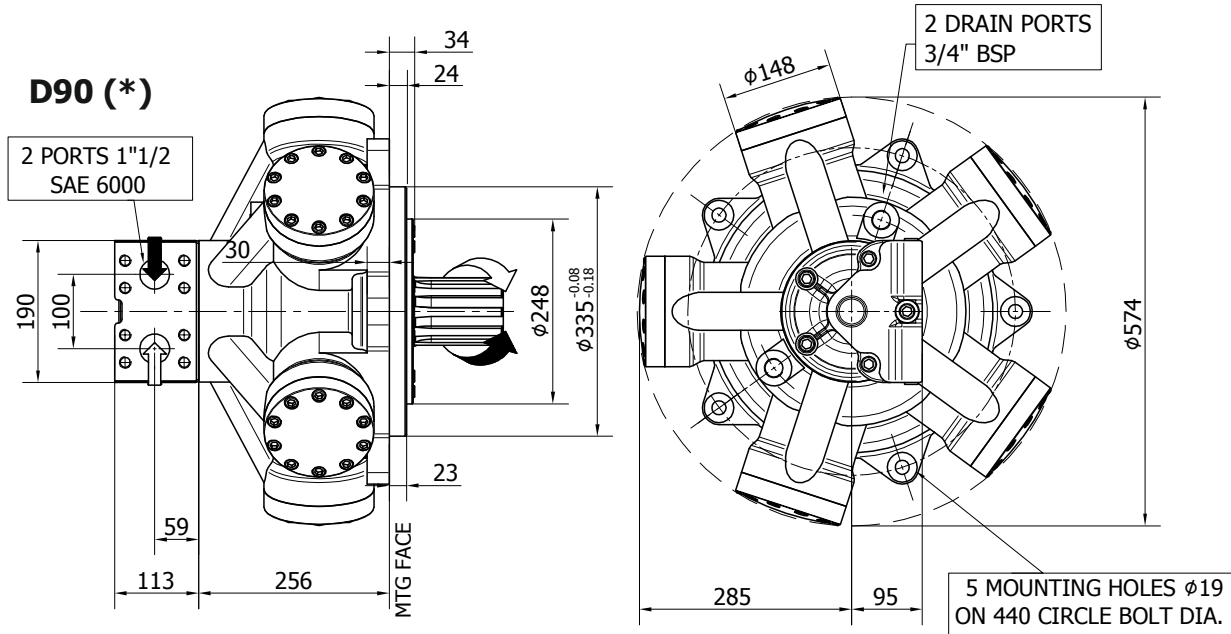
Available spline billet: **SB10**



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INSTALLATION DRAWING

Available distributor flange: **FL10**
refer to page 185 (distributor fitting D75)



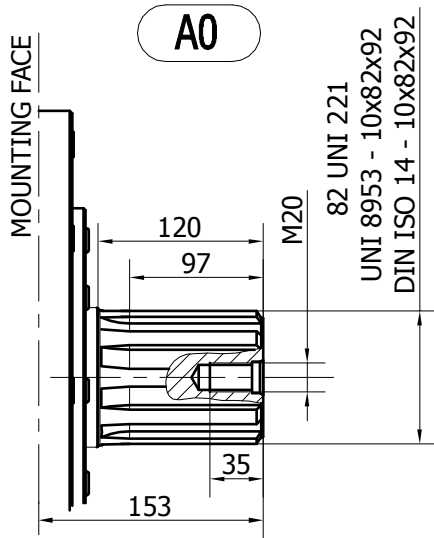
TECHNICAL DATA

		2200	2500	2800	3000
DISPLACEMENT	[cc]	2126	2525	2807	2983
SPECIFIC TORQUE	[Nm/bar]	33.8	40.2	44.7	48.2
MAX. CONT. PRESSURE	[bar]	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420
MAX. CONT. SPEED	[rpm]	240	240	240	230
PEAK SPEED (***)	[rpm]	280	280	280	270
MAX. CONT. POWER (****)	[kW]	120	120	120	120
MAX. POWER	[kW]	170	170	170	170
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

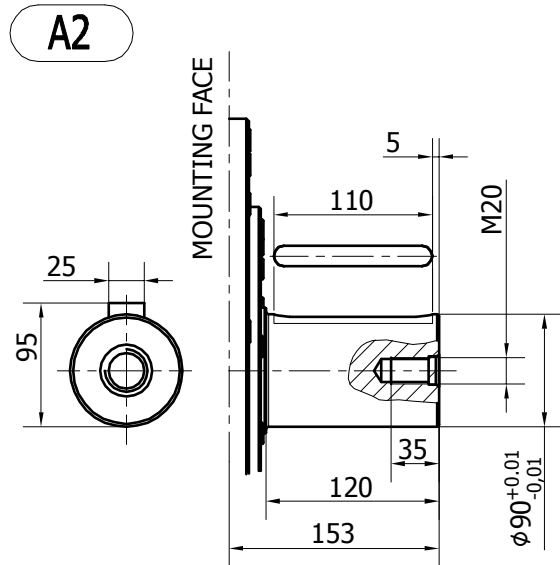
- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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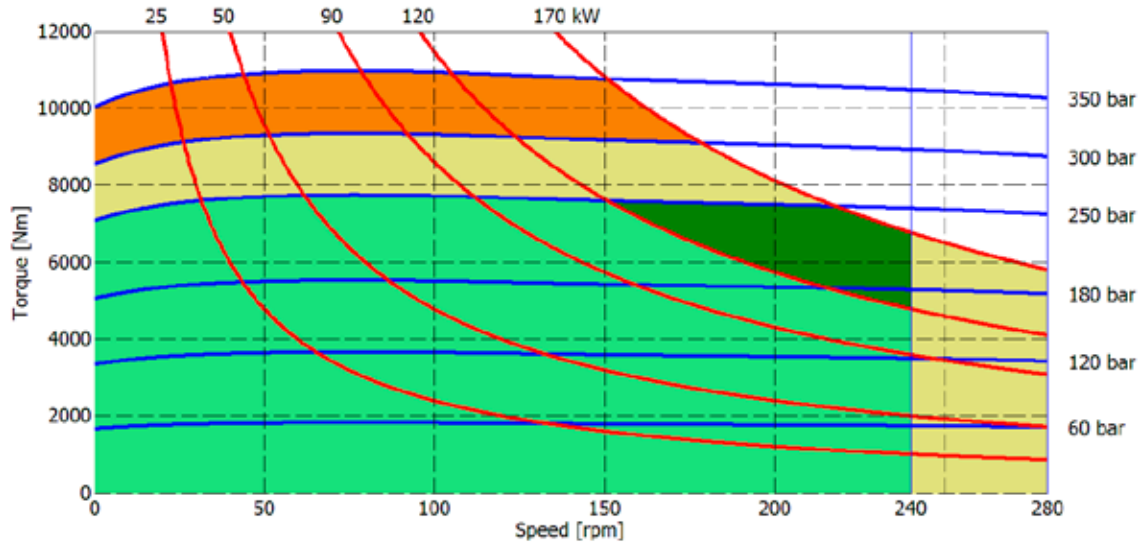
SHAFT CONFIGURATIONS



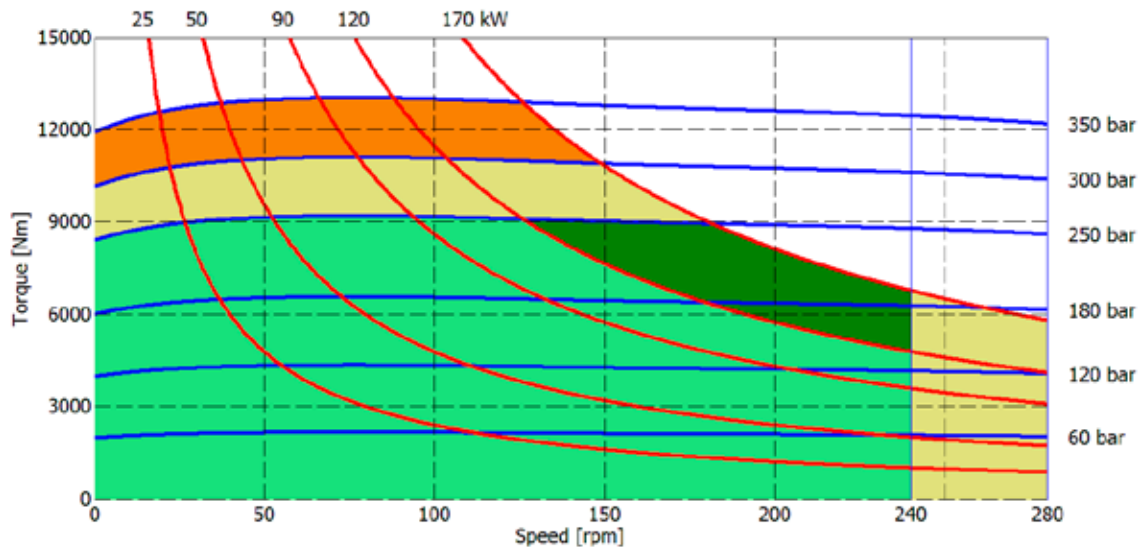
Available spline billet: **SB9**



2200 cc



2500 cc



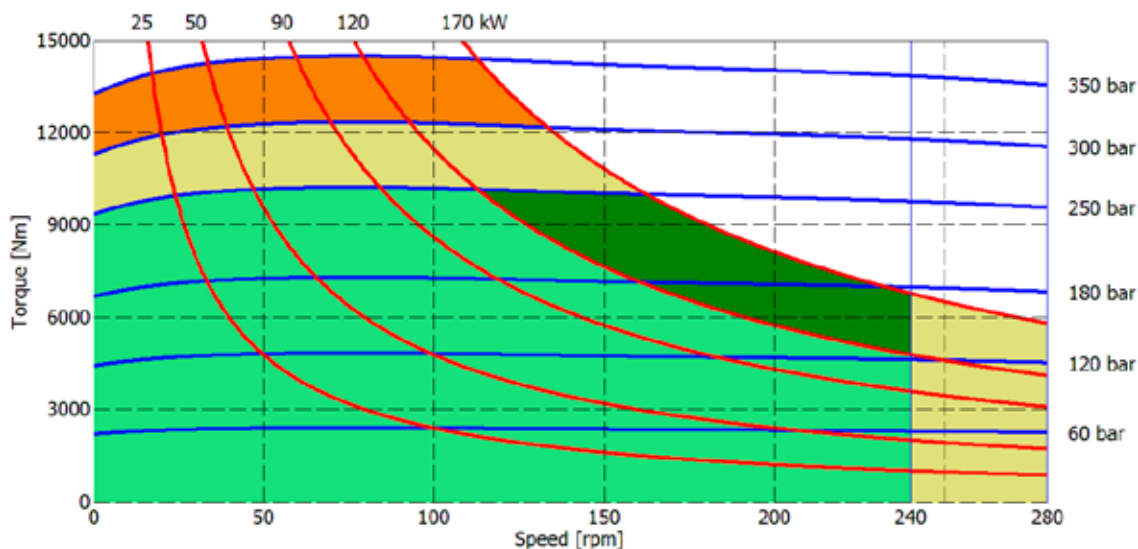
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

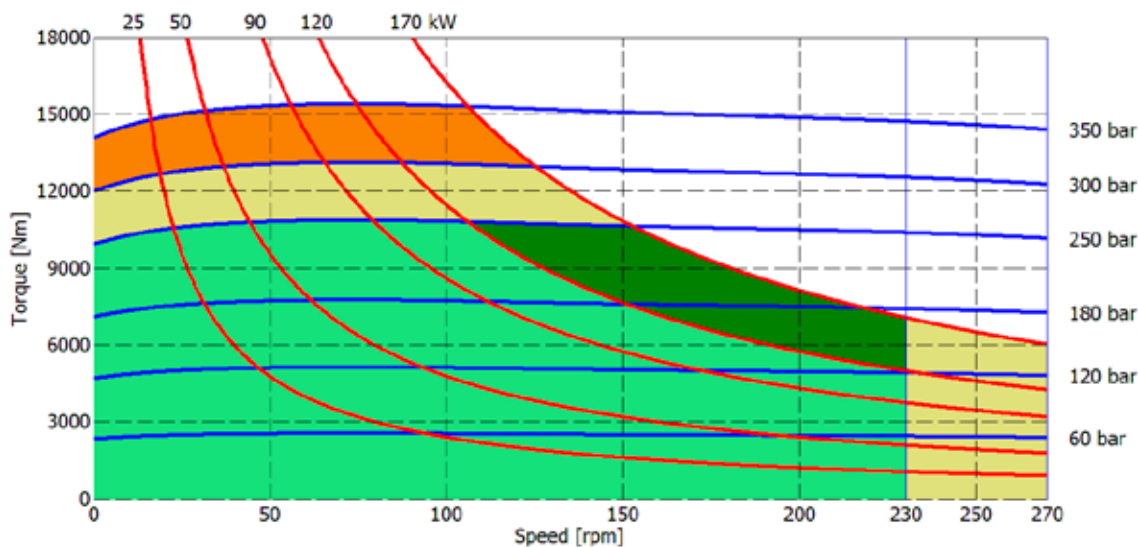
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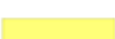

IAM H55 - PERFORMANCE DIAGRAMS

2800 cc



3000 cc



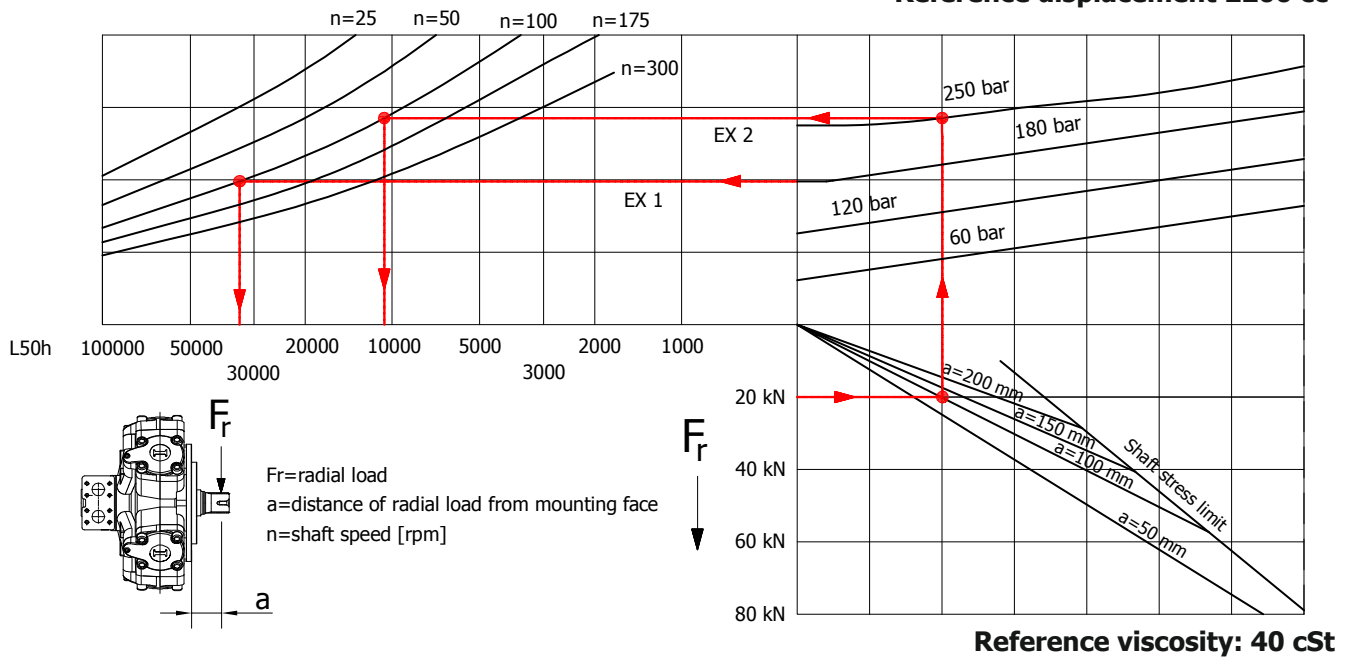
-  Continuous operation
-  Continuous operation with flushing or intermittent operation (see below for intermittent operation)
-  Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
-  Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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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BEARING LIFE

Reference displacement 2200 cc



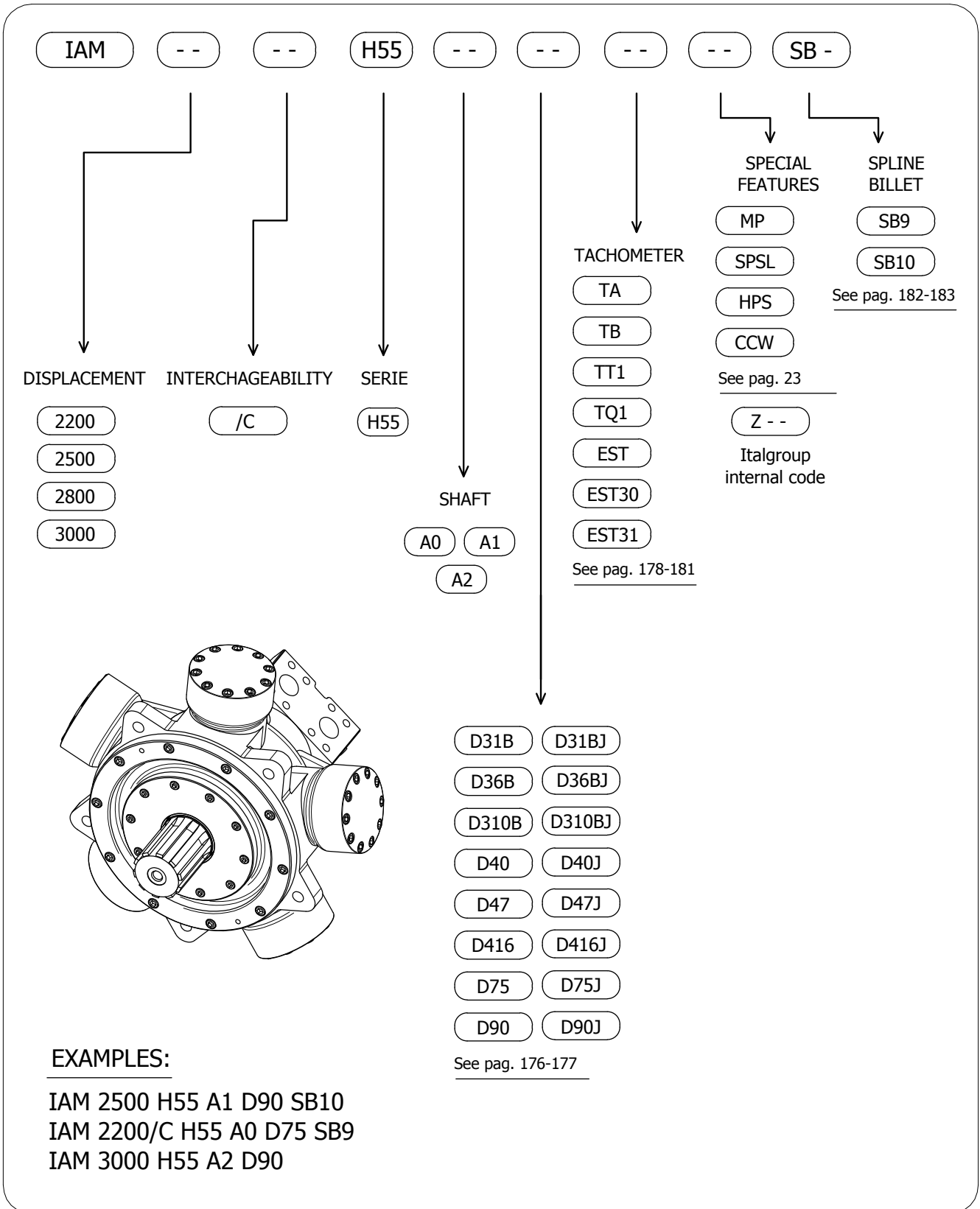
Example:

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 lifetime of 11000 [h].

The above data are referring to the IAM H55 series motors, displacement 2200 cc.

IAM H55 - ORDERING CODE



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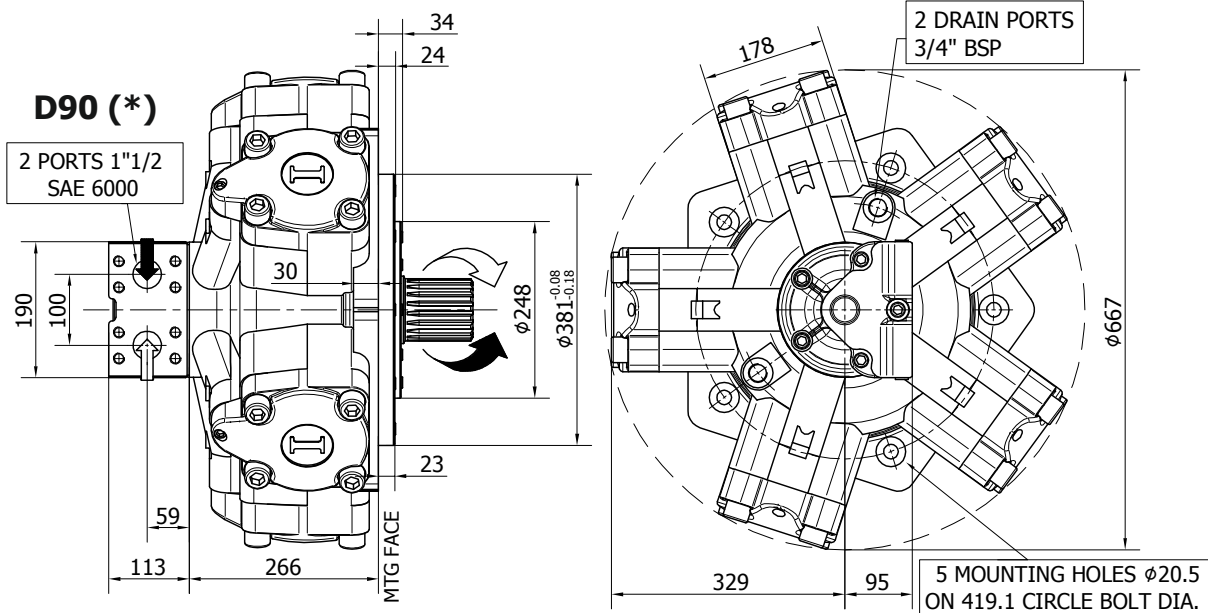
ITALGROUP SRL
IAM SERIES - IAM H6
GENERAL CATALOGUE

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<u>IAM 2200/B125 - 2500/B150 - 3000/B200 H6 - INSTALLATION DRAWING</u>	"	154 - 155
<u>IAM H6 - PERFORMANCE DRAWINGS</u>	"	156 - 159
<u>IAM H6 - INSTALLATION DRAWING</u>	"	160

INSTALLATION DRAWING

Available distributor flange: **FL7**
for S04, refer to page 187 (distributor fitting D90)



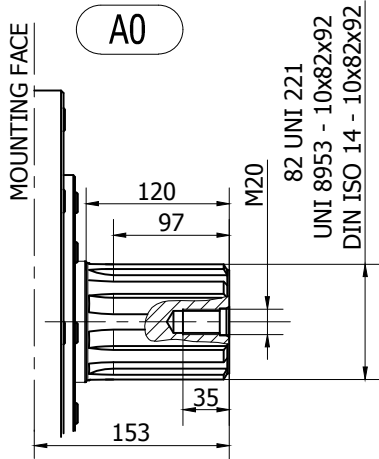
TECHNICAL DATA

		2200	2500	2800	3000	3200	3500
DISPLACEMENT	[cc]	2206	2525	2807	2983	3289	3479
SPECIFIC TORQUE	[Nm/bar]	35.1	40.2	44.7	47.5	52.3	55.4
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]	220	220	220	210	200	200
PEAK SPEED (***)	[rpm]	260	260	260	250	240	240
MAX. CONT. POWER (****)	[kW]	120	120	120	120	120	120
MAX. POWER	[kW]	170	170	170	170	170	170
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	308	308	308	308	308	308
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

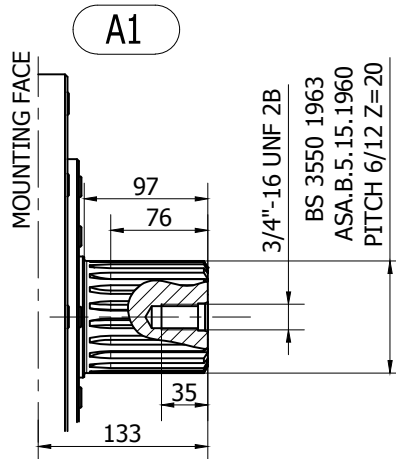
- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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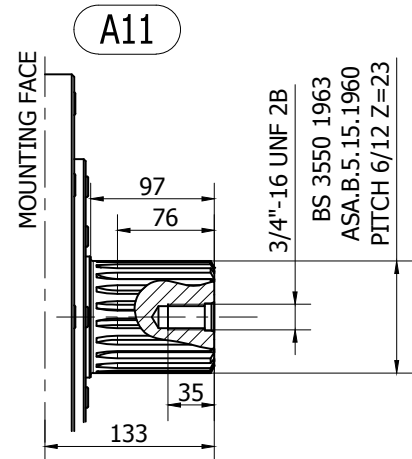
SHAFT CONFIGURATIONS



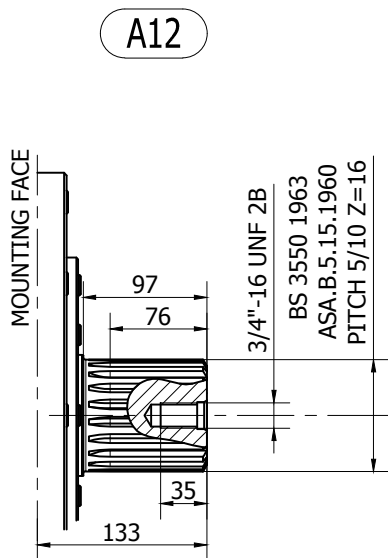
Available spline billet: (SB9)



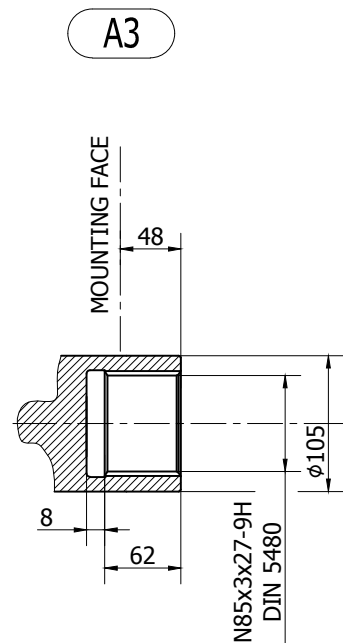
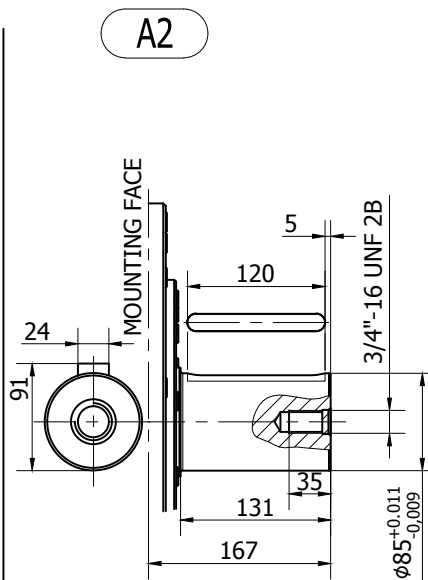
Available spline billet: (SB10)



Available spline billet: (SB24)

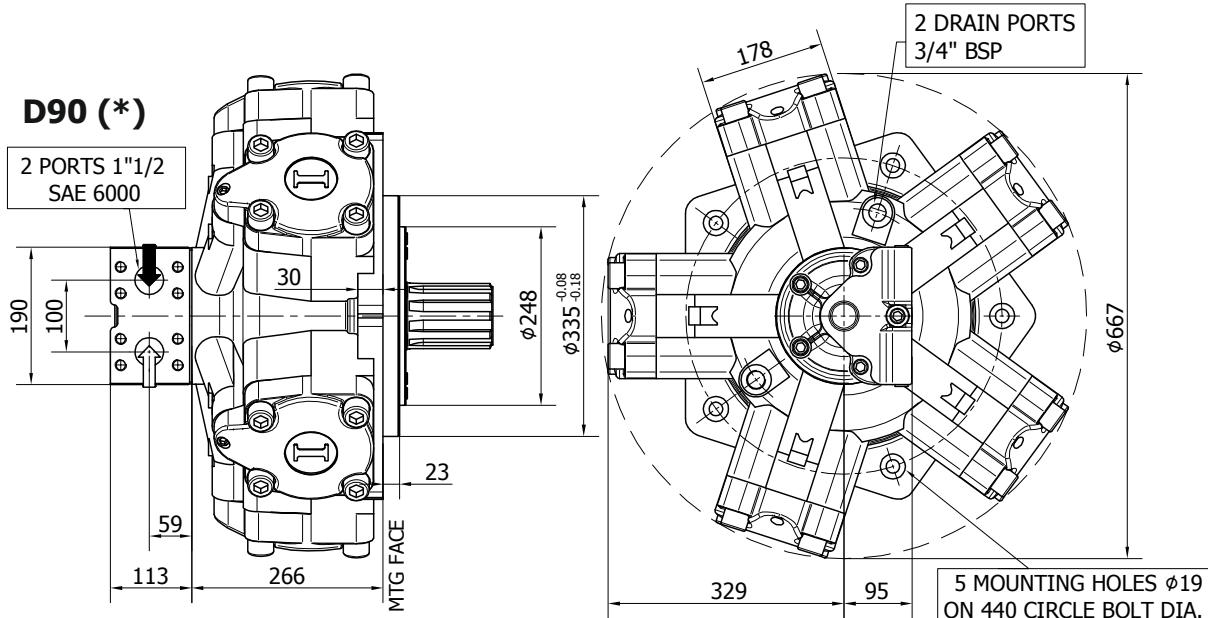


Available spline billet: (SB27)



INSTALLATION DRAWING

Available distributor flange: **FL10**
refer to page 185 (distributor fitting D75)



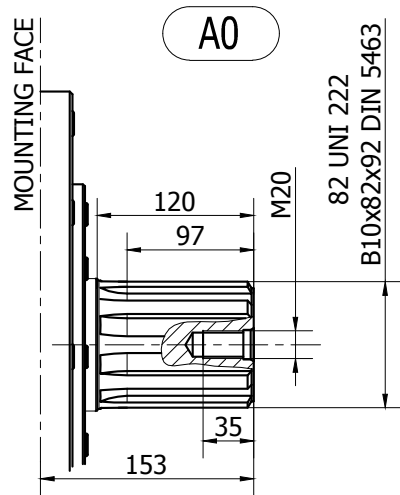
TECHNICAL DATA

		2200	2500	2800	3000	3200	3500
DISPLACEMENT	[cc]	2206	2525	2807	2983	3289	3479
SPECIFIC TORQUE	[Nm/bar]	35.1	40.2	44.7	47.5	52.3	55.4
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]	220	220	220	210	200	200
PEAK SPEED (***)	[rpm]	260	260	260	250	240	240
MAX. CONT. POWER (****)	[kW]	120	120	120	120	120	120
MAX. POWER	[kW]	170	170	170	170	170	170
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6
DRY WEIGHT	[kg]	308	308	308	308	308	308
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

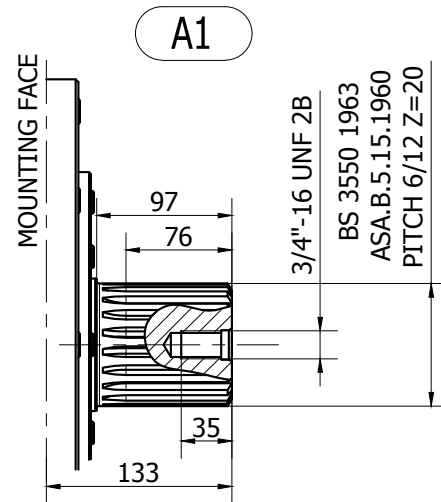
- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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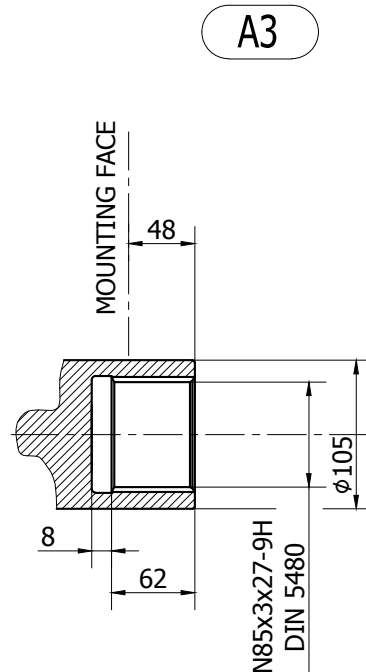
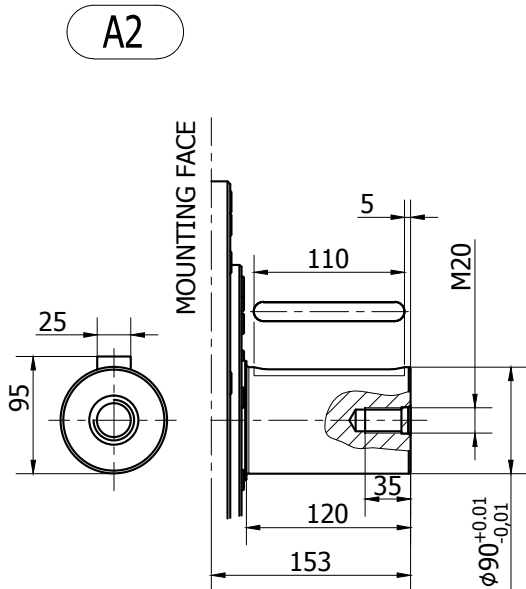
SHAFT CONFIGURATIONS



Available spline billet: **SB9**

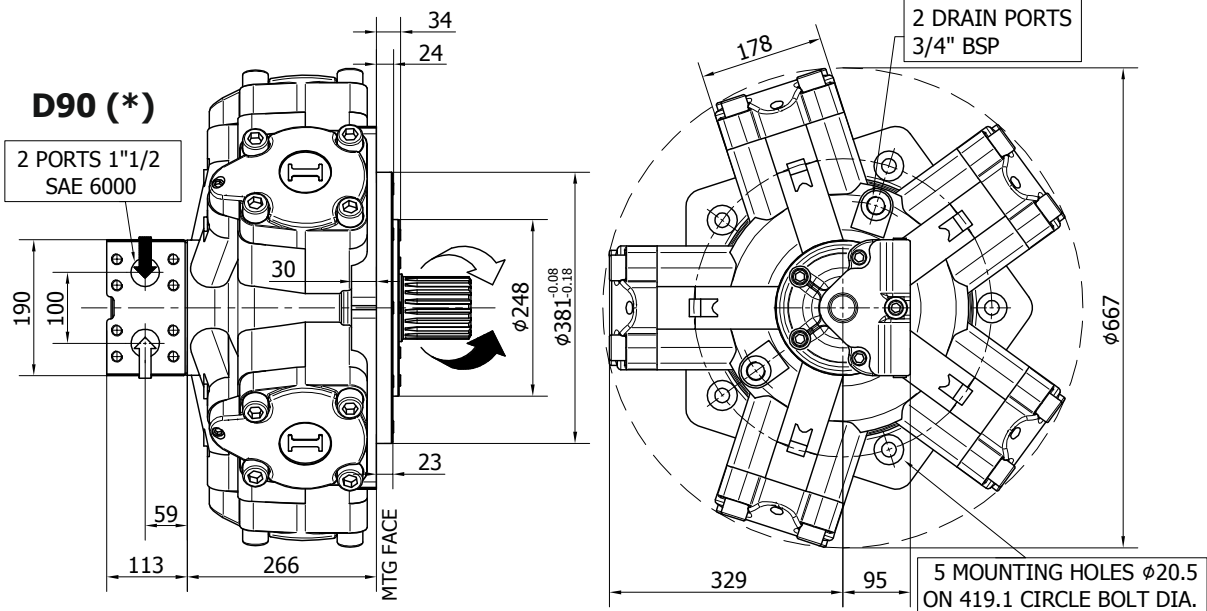


Available spline billet: **SB10**



INSTALLATION DRAWING

Available distributor flange: **FL7**
for S04, refer to page 187 (distributor fitting D90)



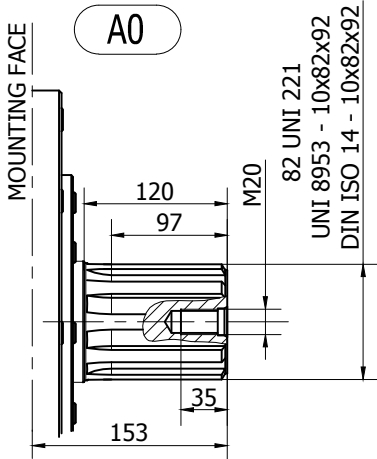
TECHNICAL DATA

		2200	2500	3000
DISPLACEMENT	[cc]	2206	2525	2983
SPECIFIC TORQUE	[Nm/bar]	35.1	40.2	47.5
MAX. CONT. PRESSURE	[bar]	250	250	250
HYDROSTATIC TEST PRES-SURE	[bar]	420	420	420
MAX. CONT. SPEED	[rpm]	220	220	210
PEAK SPEED (***)	[rpm]	260	260	250
MAX. CONT. POWER (****)	[kW]	120	120	120
MAX. POWER	[kW]	170	170	170
MAX. CASE PRESSURE	[bar]	6	6	6
DRY WEIGHT	[kg]	308	308	308
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70

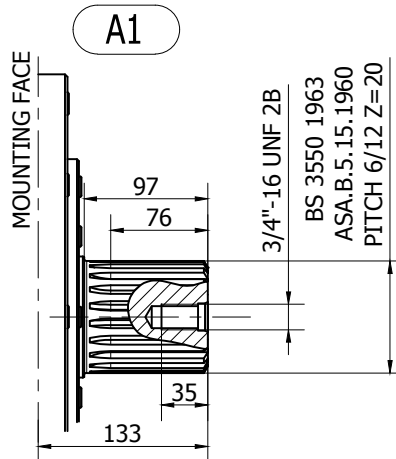
- (*) The standard distributor (D90) is shown. Please refer to distributors section (pag. 176-177) for different distributor interfaces.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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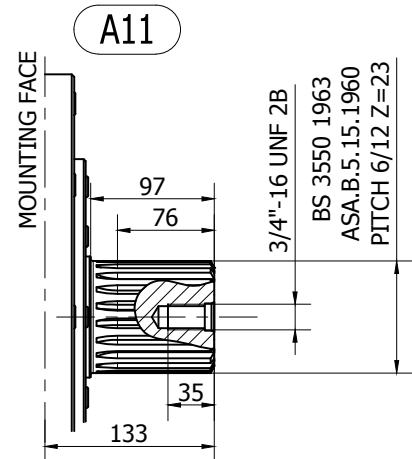
SHAFT CONFIGURATIONS



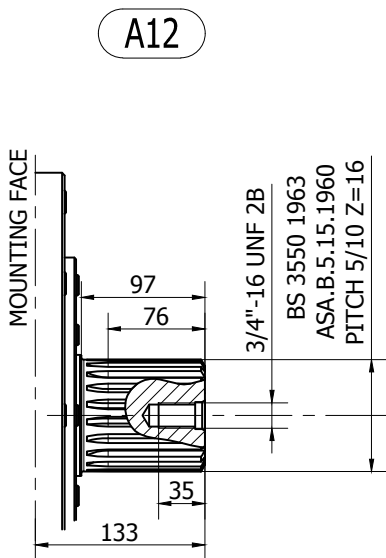
Available spline billet: (SB9)



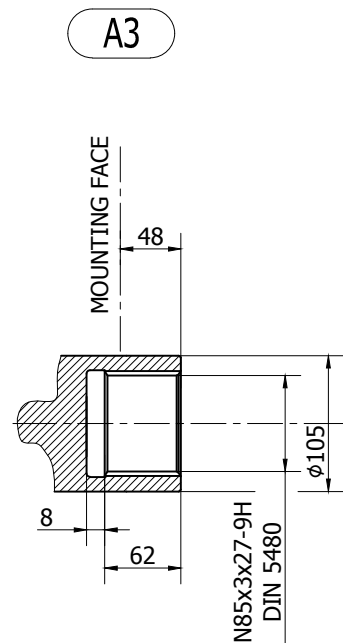
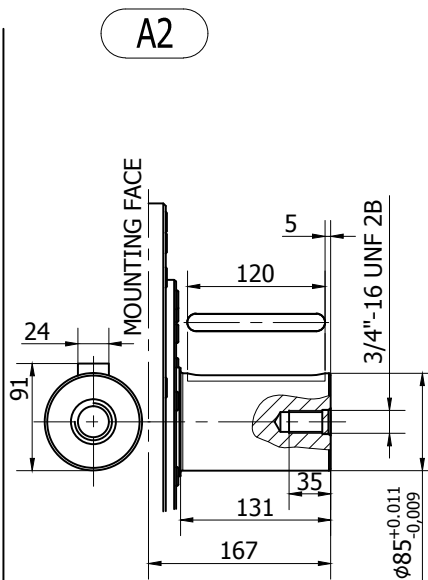
Available spline billet: (SB10)



Available spline billet: (SB24)



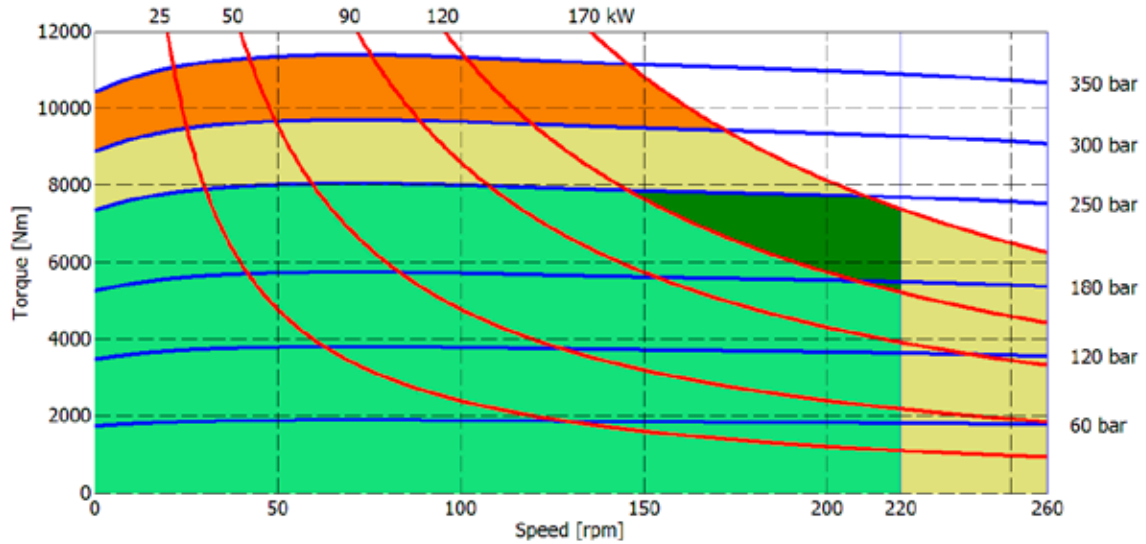
Available spline billet: (SB27)



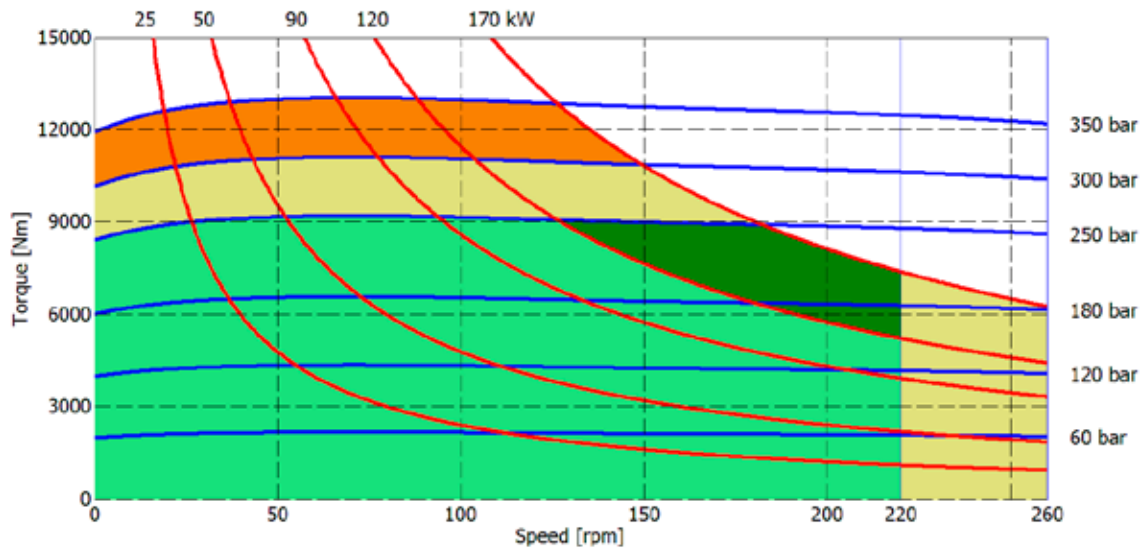
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IAM H6 - PERFORMANCE DIAGRAMS

2200 cc



2500 cc



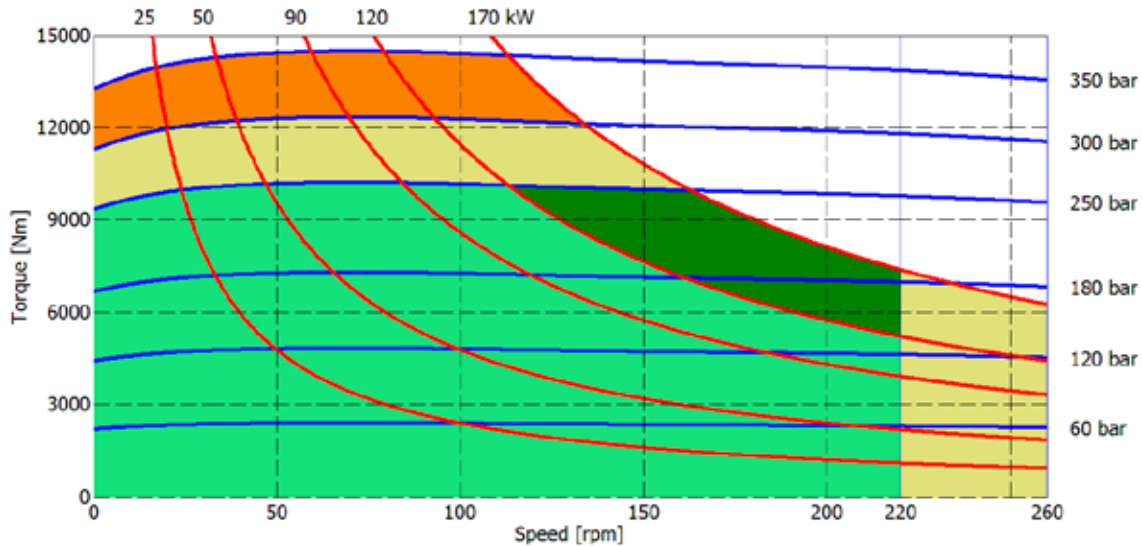
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

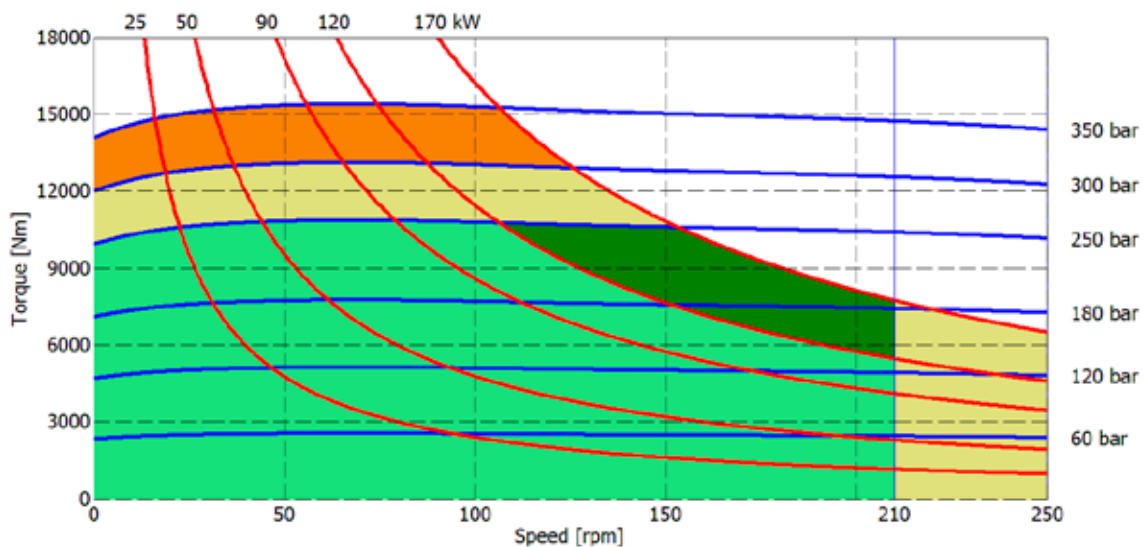
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IAM H6 - PERFORMANCE DIAGRAMS

2800 cc



3000 cc



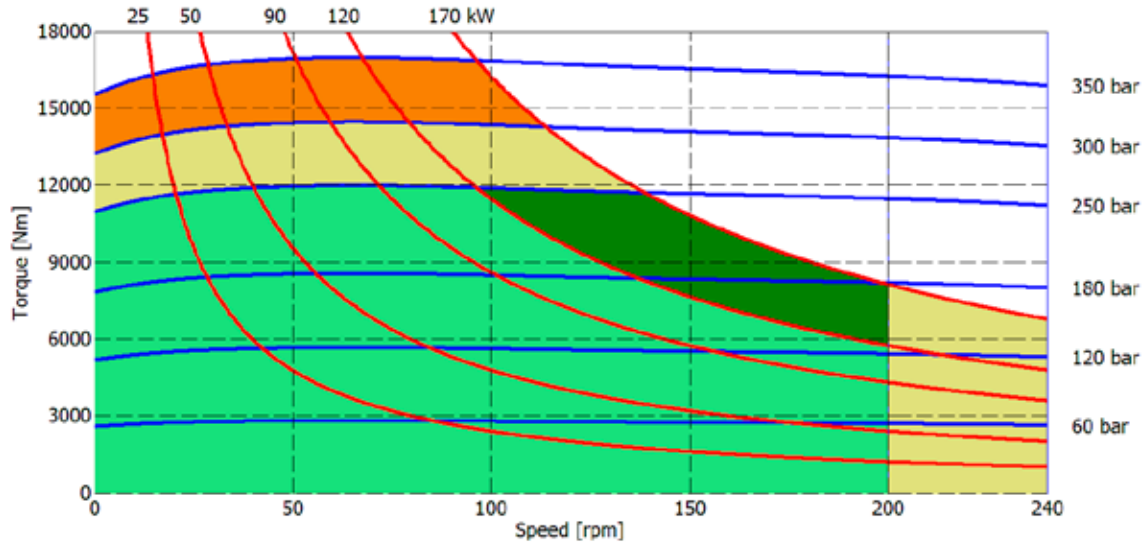
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

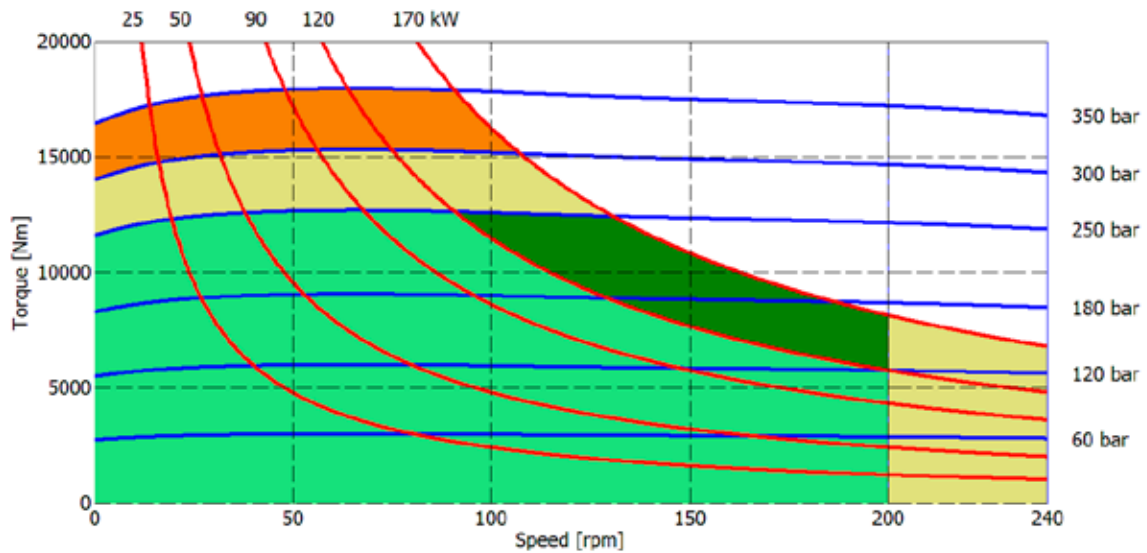
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IAM H6 - PERFORMANCE DIAGRAMS

3200 cc



3500 cc



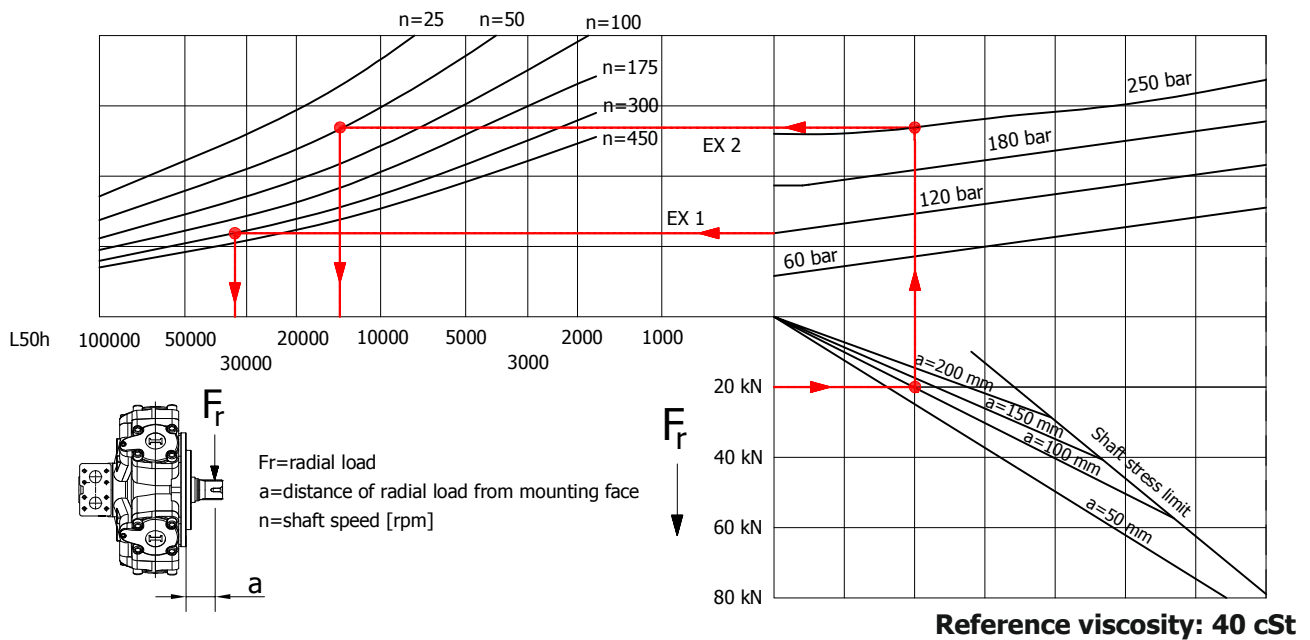
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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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BEARING LIFE

Reference displacement 3000 cc



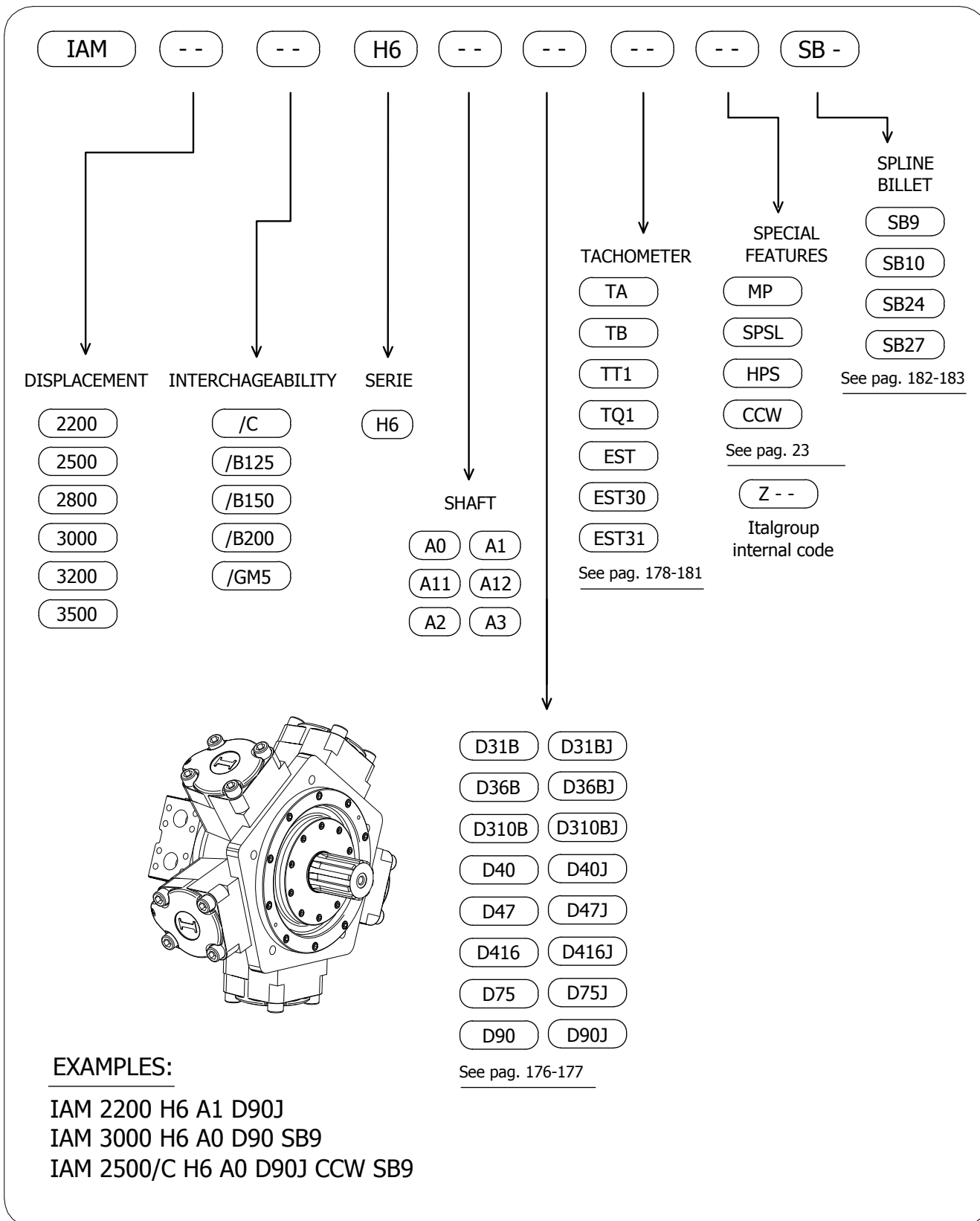
Example:

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].

The above data are referring to the IAM H6 series motors, displacement 3000 cc.

IAM H6 - ORDERING CODE

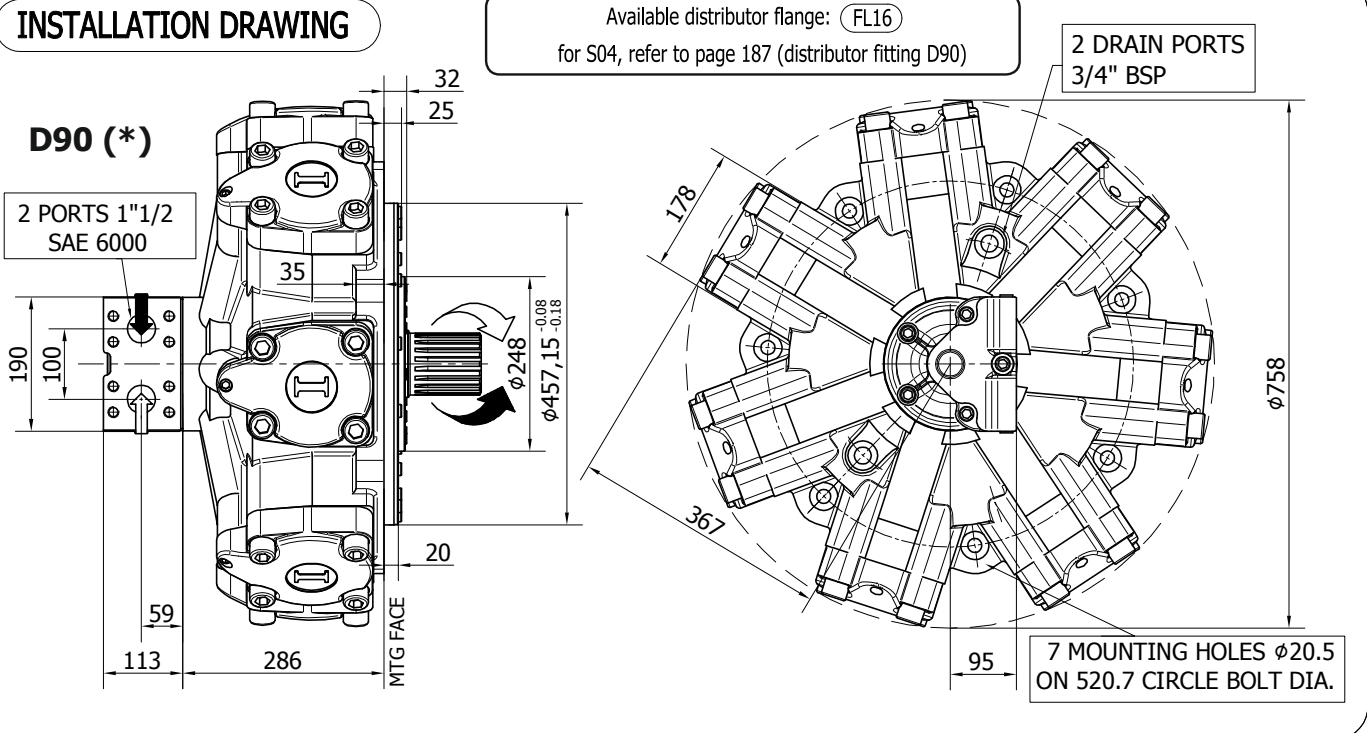


ITALGROUP SRL
IAM SERIES - IAM H7
GENERAL CATALOGUE

INDEX - IAM H7

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<u>IAM H7/RM - INSTALLATION DRAWINGS</u>	"	168 - 169
<u>IAM H7 - PERFORMANCE DIAGRAMS</u>	"	170 - 174
<u>IAM H7 - ORDERING CODE</u>	"	175

INSTALLATION DRAWING



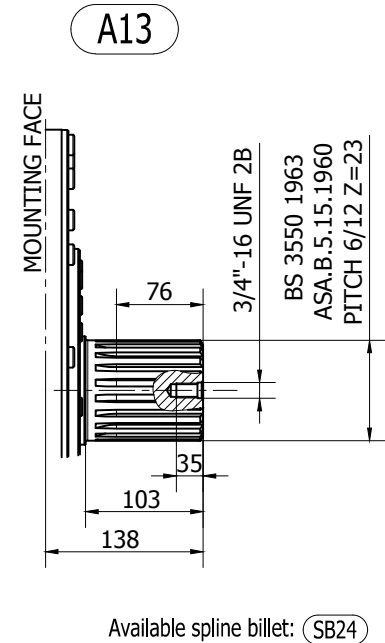
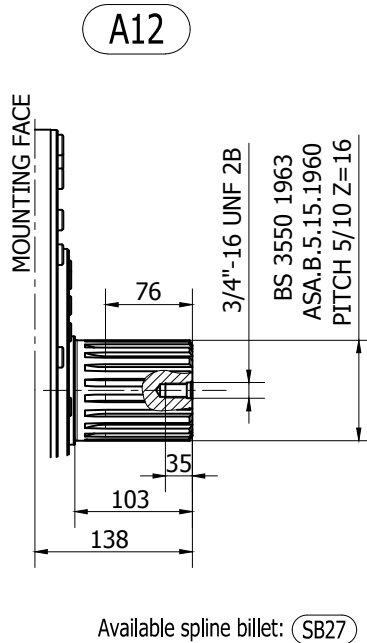
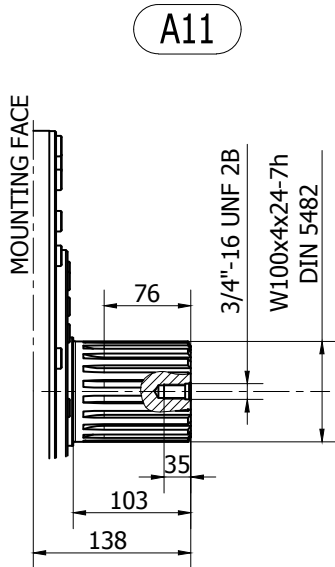
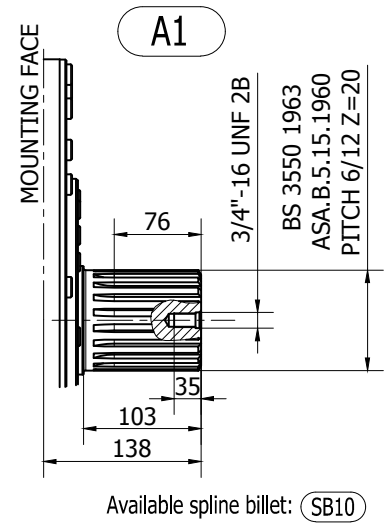
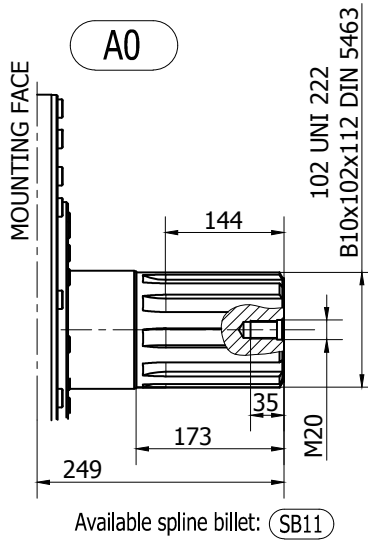
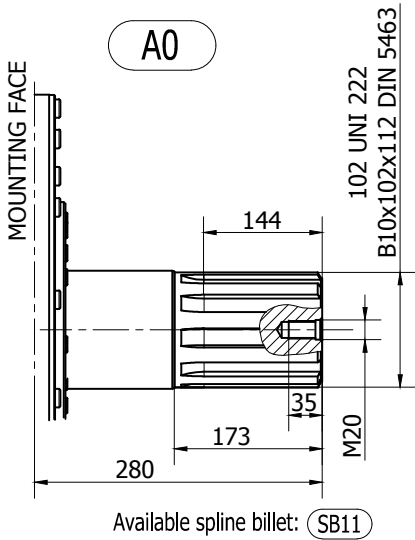
TECHNICAL DATA

		3400	3600	3900	4300	4600	5000	5400
DISPLACEMENT	[cc]	3413	3650	3907	4343	4616	5088	5384
SPECIFIC TORQUE	[Nm/bar]	54.3	58.1	62.2	69.1	73.5	81.0	85.7
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	180	170	160	150	140	140	130
PEAK SPEED (***)	[rpm]	220	200	200	190	190	180	170
MAX. CONT. POWER (****)	[kW]	130	130	130	130	130	130	130
MAX. POWER	[kW]	180	180	180	180	180	180	180
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	405	405	405	405	405	405	405
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

- (*) The standard distributor (D90) is shown.
- (**) 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.

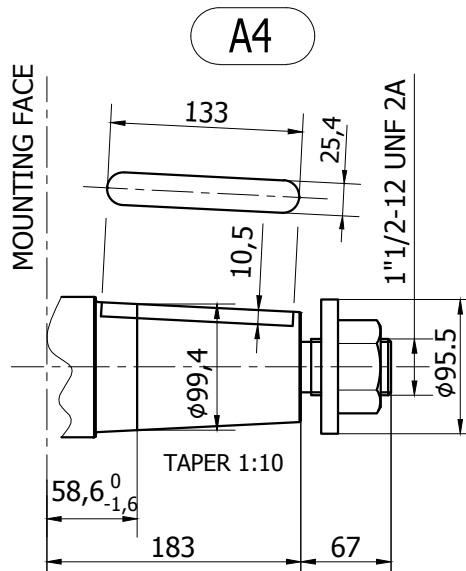
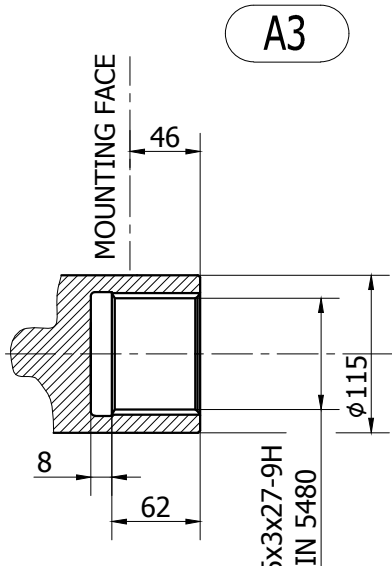
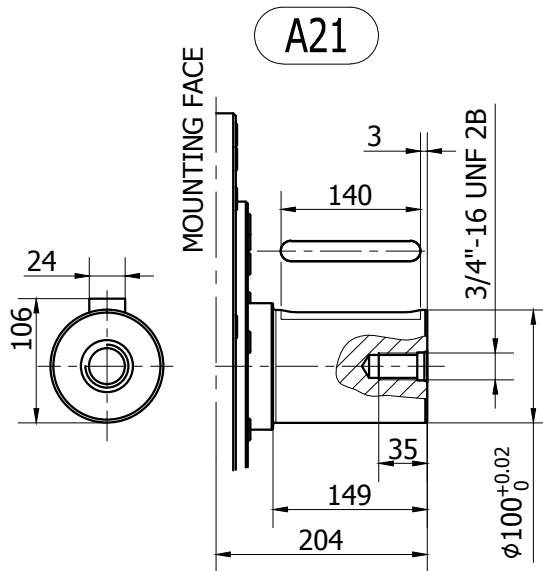
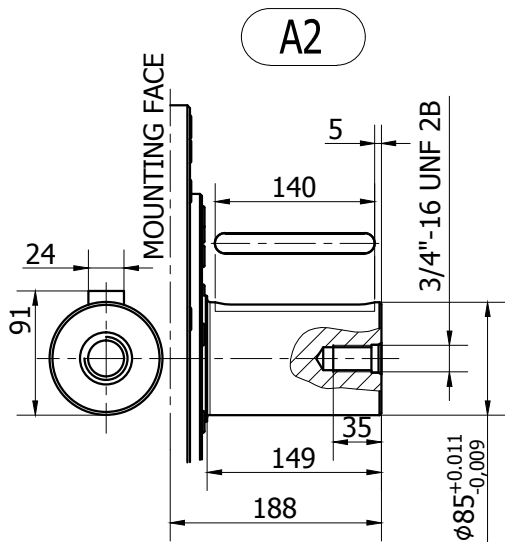
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SHAFT CONFIGURATIONS



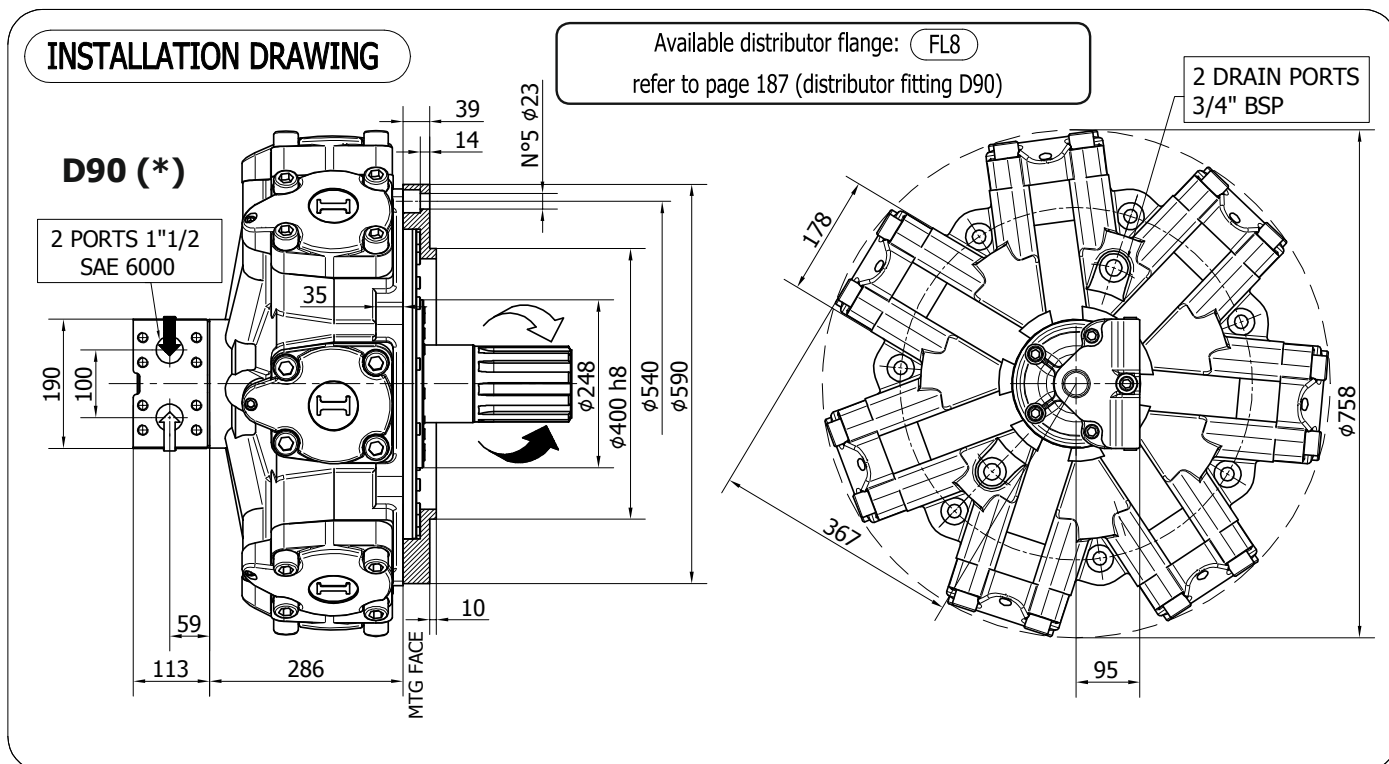
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SHAFT CONFIGURATIONS



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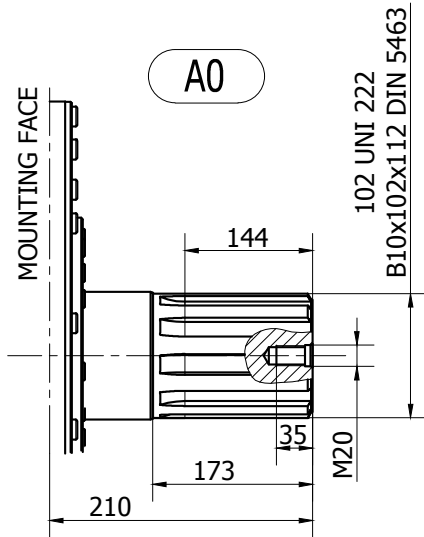
TECHNICAL DATA

		3400	3600	3900	4300	4600	5000	5400
DISPLACEMENT	[cc]	3413	3650	3907	4343	4616	5088	5384
SPECIFIC TORQUE	[Nm/bar]	54.3	58.1	62.2	69.1	73.5	81.0	85.7
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250	250
HYDROSTATIC TEST PRESSURE	[bar]	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	180	170	160	150	140	140	130
PEAK SPEED (***)	[rpm]	220	200	200	190	190	180	170
MAX. CONT. POWER (****)	[kW]	130	130	130	130	130	130	130
MAX. POWER	[kW]	180	180	180	180	180	180	180
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	405	405	405	405	405	405	405
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

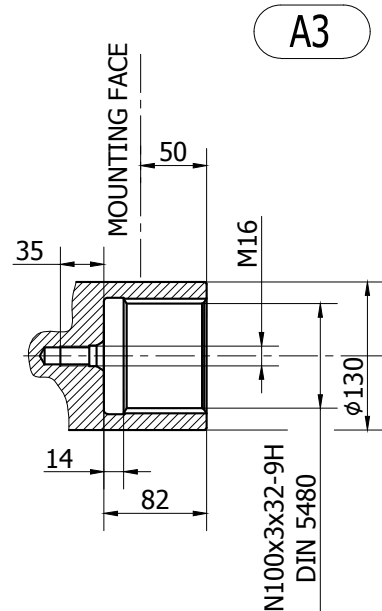
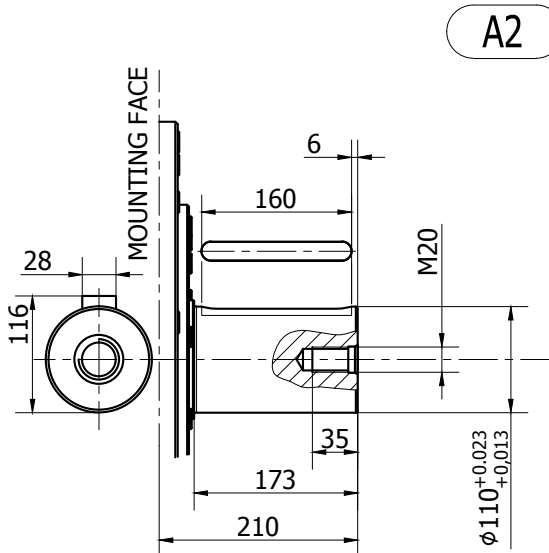
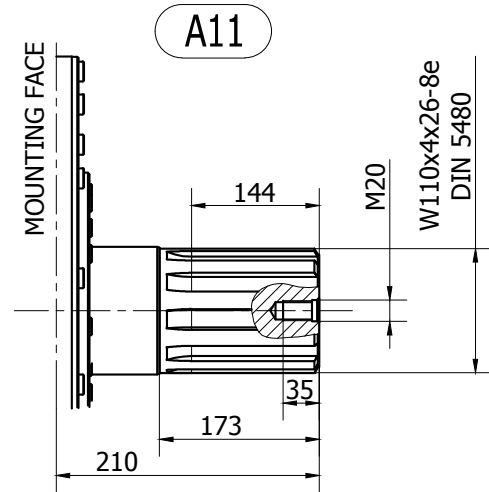
- (*) The standard distributor (D90) is shown.
- (**) Please refer to the hydraulic fluid recommendations (pag. 10-11).
- (***) Do not exceed maximum power (see pag. 13).
- (****) For motor operation with a continuous duty cycle at maximum continuous power the flushing is usually required. For more information please contact our technical department.

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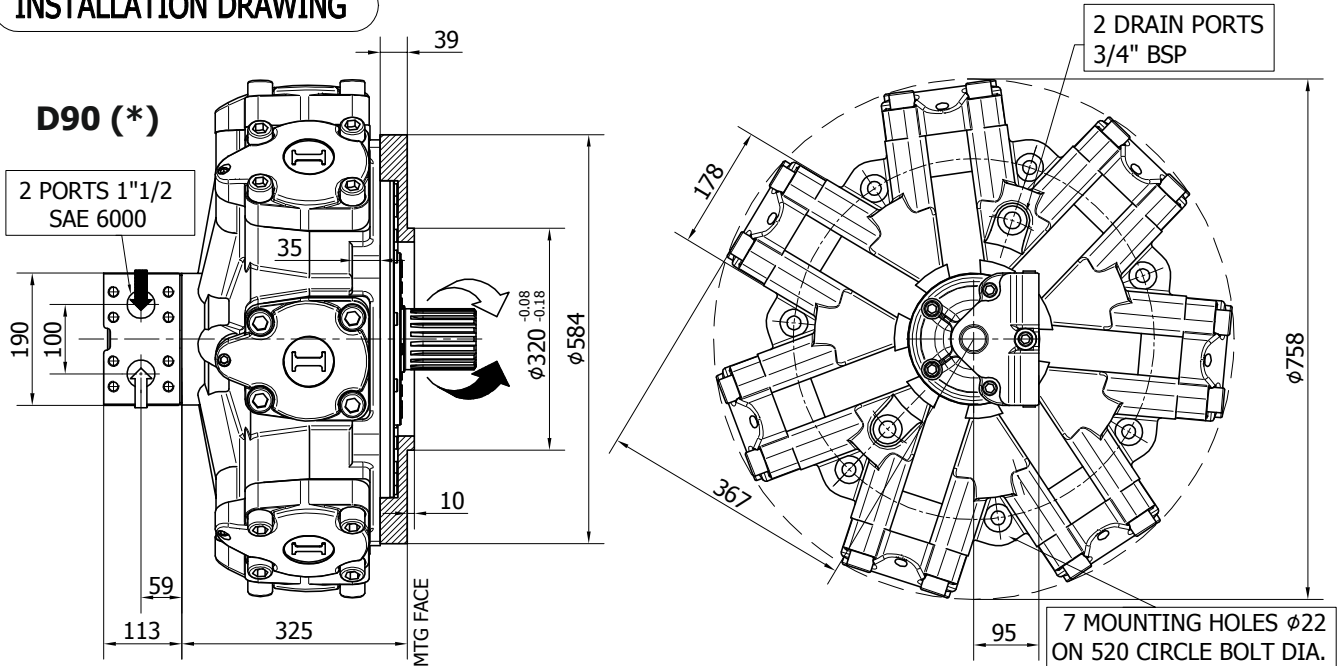
SHAFT CONFIGURATIONS



Available spline billet: (SB11)



INSTALLATION DRAWING



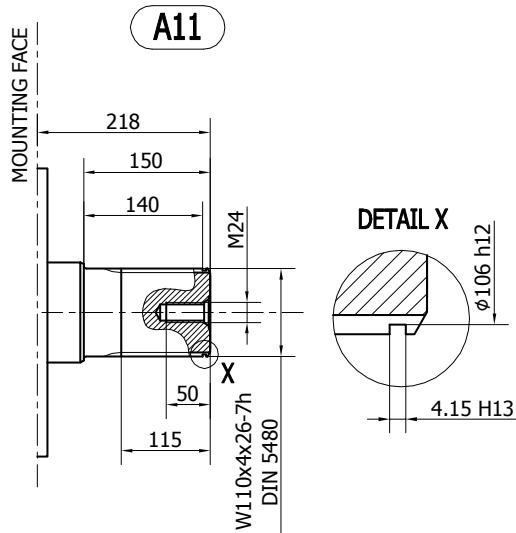
TECHNICAL DATA

		3400	3600	3900	4300	4600	5000	5400
DISPLACEMENT	[cc]	3413	3650	3907	4343	4616	5088	5384
SPECIFIC TORQUE	[Nm/bar]	54.3	58.1	62.2	69.1	73.5	81.0	85.7
MAX. CONT. PRESSURE	[bar]	250	250	250	250	250	250	250
HYDROSTATIC TEST PRES-SURE	[bar]	420	420	420	420	420	420	420
MAX. CONT. SPEED	[rpm]	180	170	160	150	140	140	130
PEAK SPEED (***)	[rpm]	220	200	200	190	190	180	170
MAX. CONT. POWER (****)	[kW]	130	130	130	130	130	130	130
MAX. POWER	[kW]	180	180	180	180	180	180	180
MAX. CASE PRESSURE	[bar]	6	6	6	6	6	6	6
DRY WEIGHT	[kg]	405	405	405	405	405	405	405
TEMPERATURE RANGE (**)	[°C]	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70	-30÷70

- (*) The standard distributor (D90) is shown.
- (**) 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.

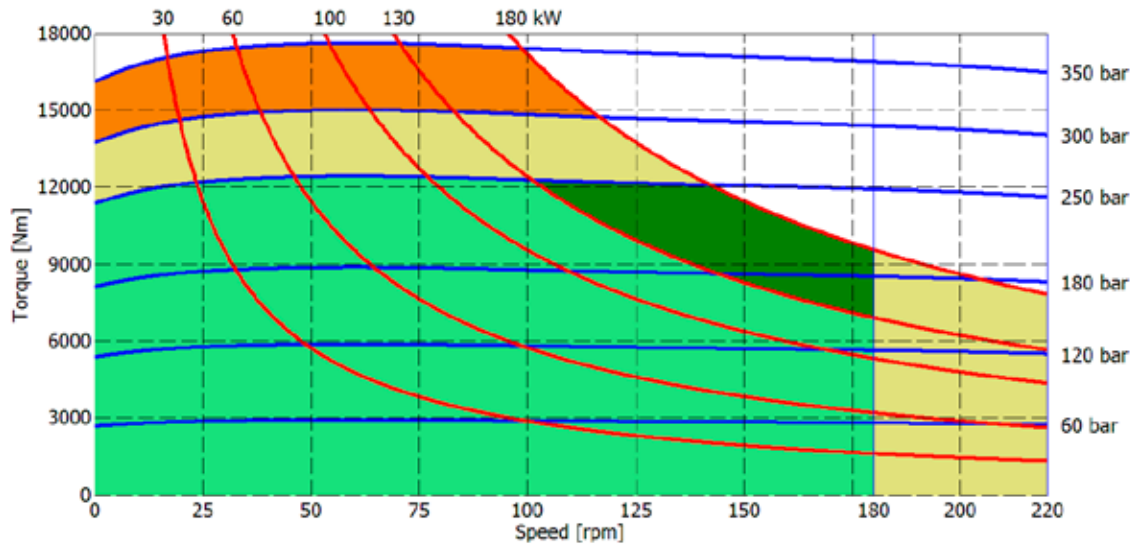
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SHAFT CONFIGURATIONS

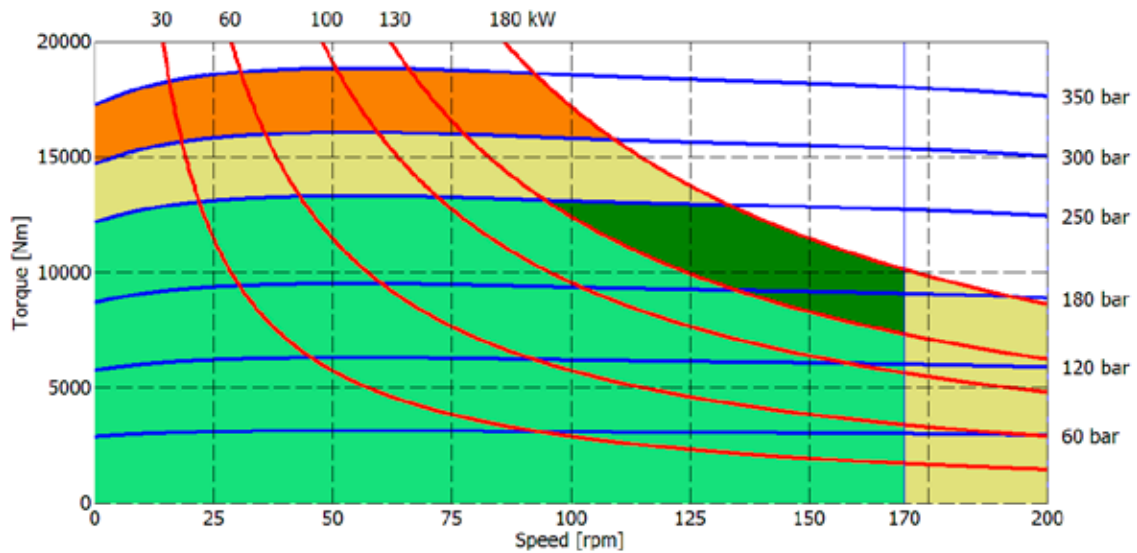


IAM H7 - PERFORMANCE DIAGRAMS

3400 cc



3600 cc



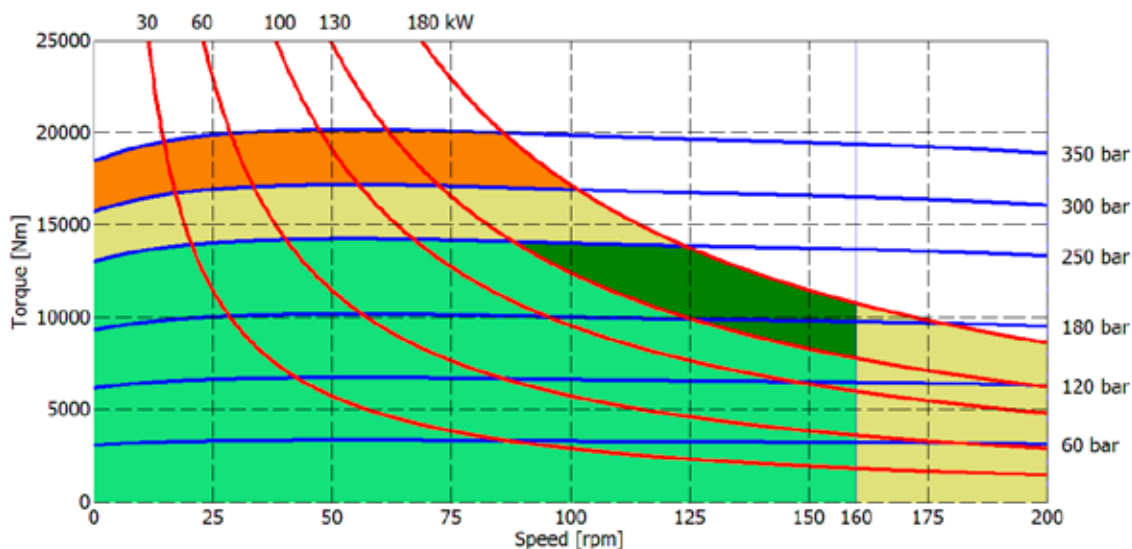
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

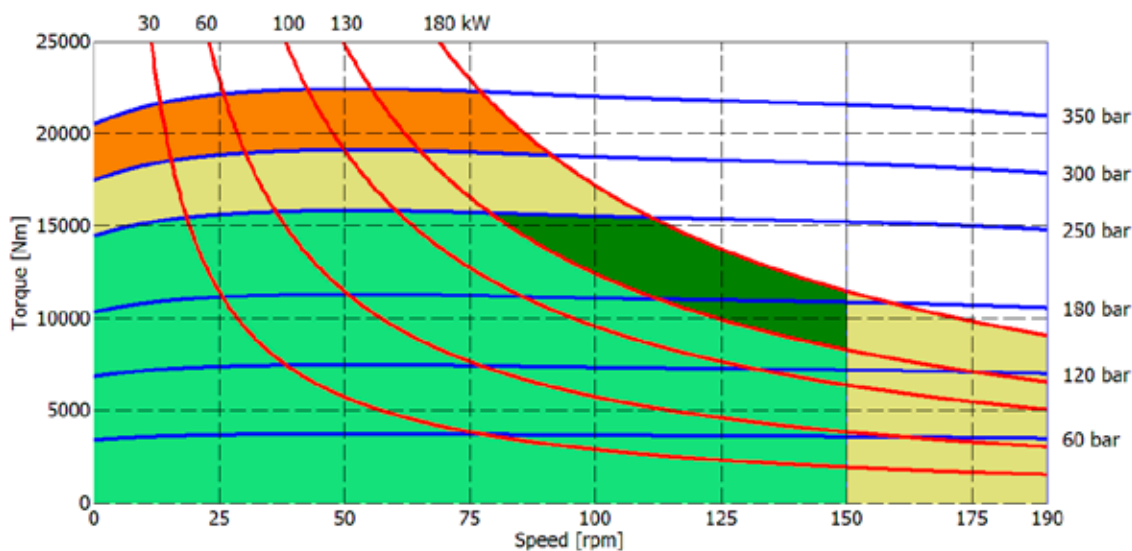
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IAM H7 - PERFORMANCE DIAGRAMS

3900 cc



4300 cc



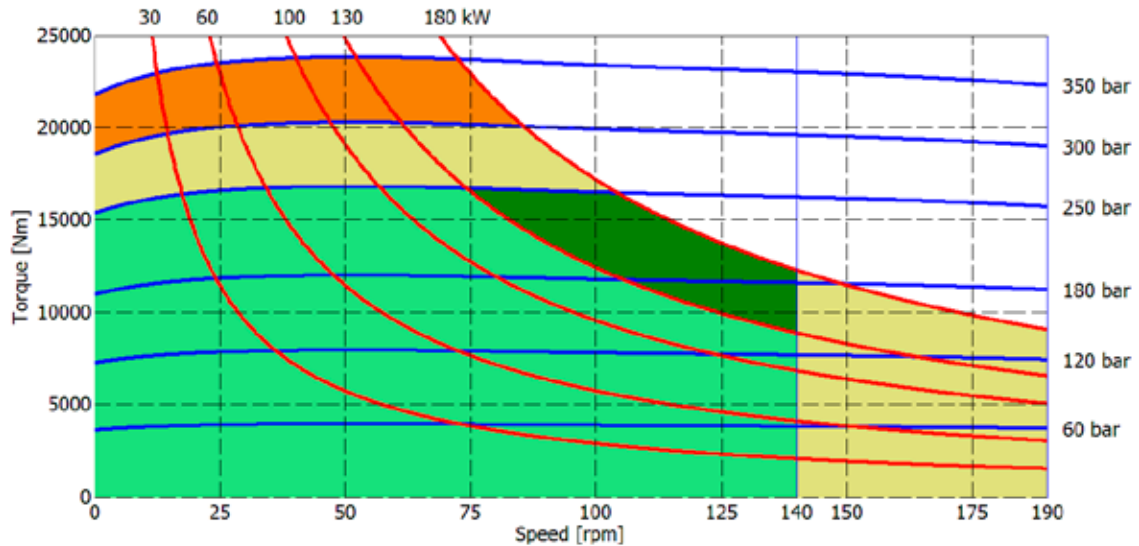
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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.

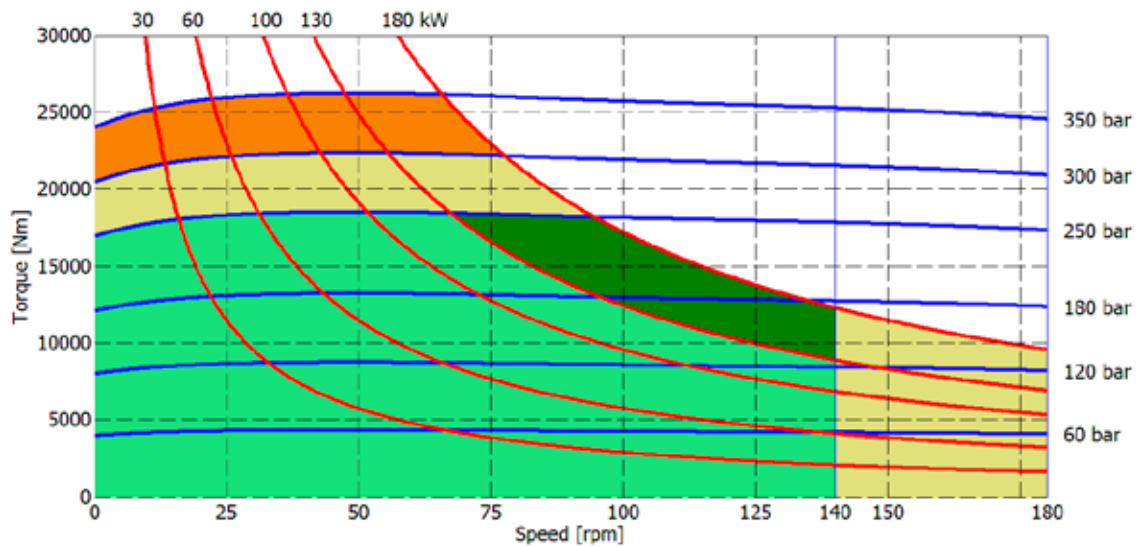
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IAM H7 - PERFORMANCE DIAGRAMS

4600 cc



5000 cc



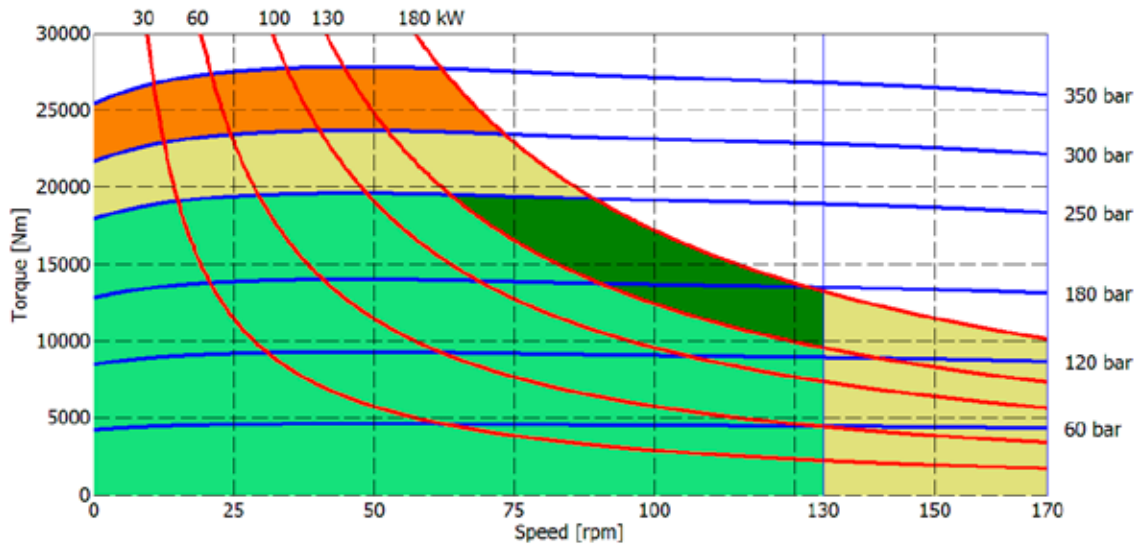
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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 H7 - PERFORMANCE DIAGRAMS

5400 cc



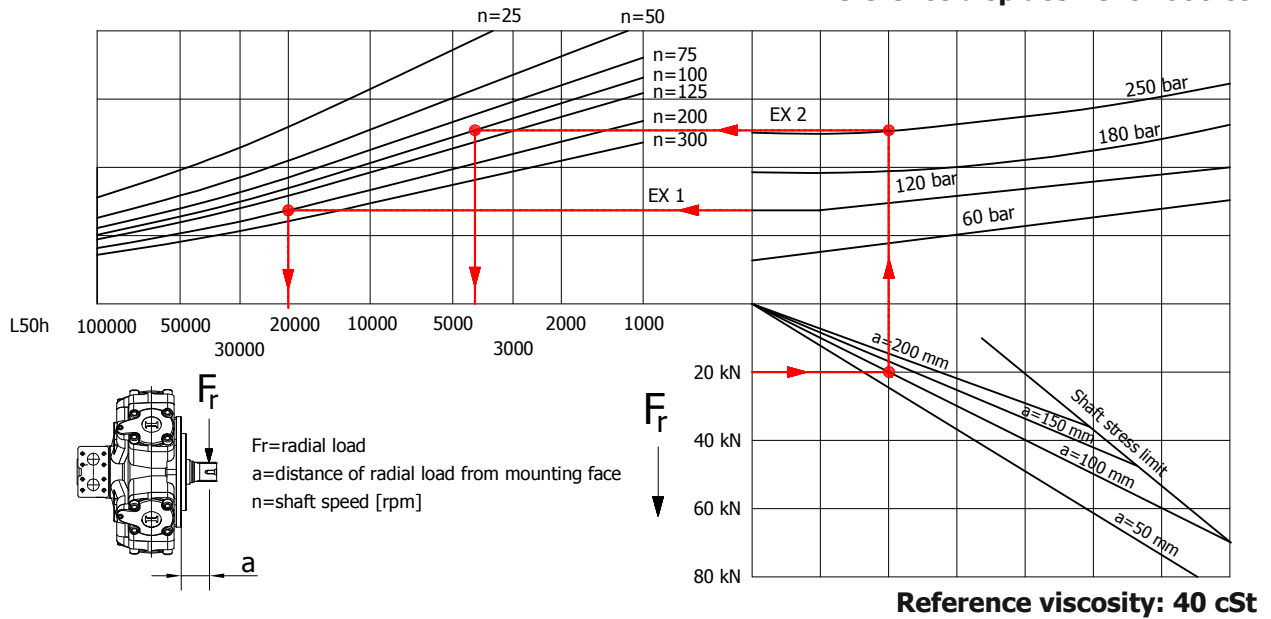
- Continuous operation
- Continuous operation with flushing or intermittent operation (see below for intermittent operation)
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes)

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

Reference displacement 4600 cc



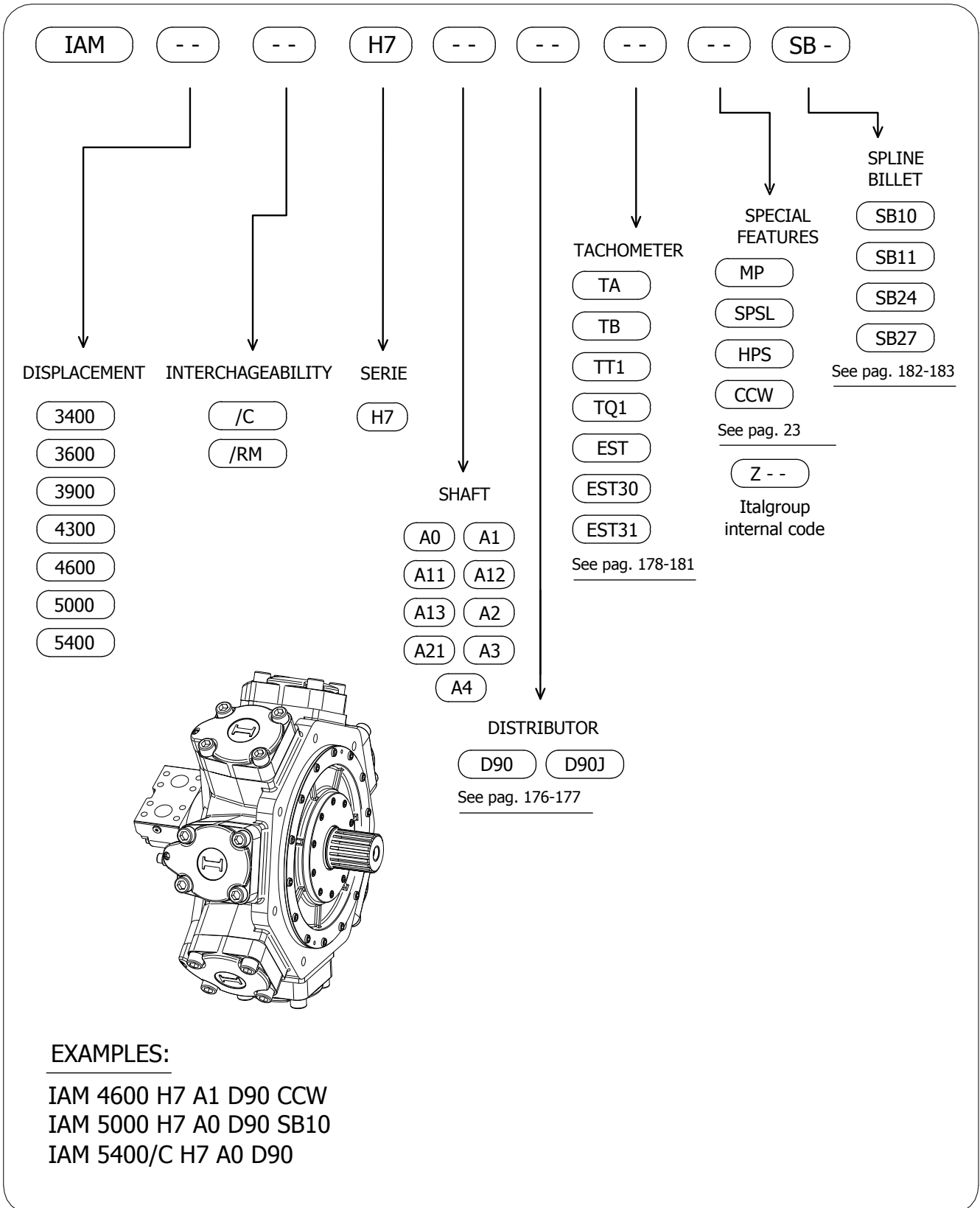
Example:

We suppose (EX1): $p=120$ [bar], $n=200$ [rpm]; we obtain an average lifetime of 20000 [h].

If we suppose (EX2): $F_r=20$ [kN], $a=100$ [mm], $n=100$ [rpm] and $p=250$ [bar] we obtain an average lifetime of 4000 [h].

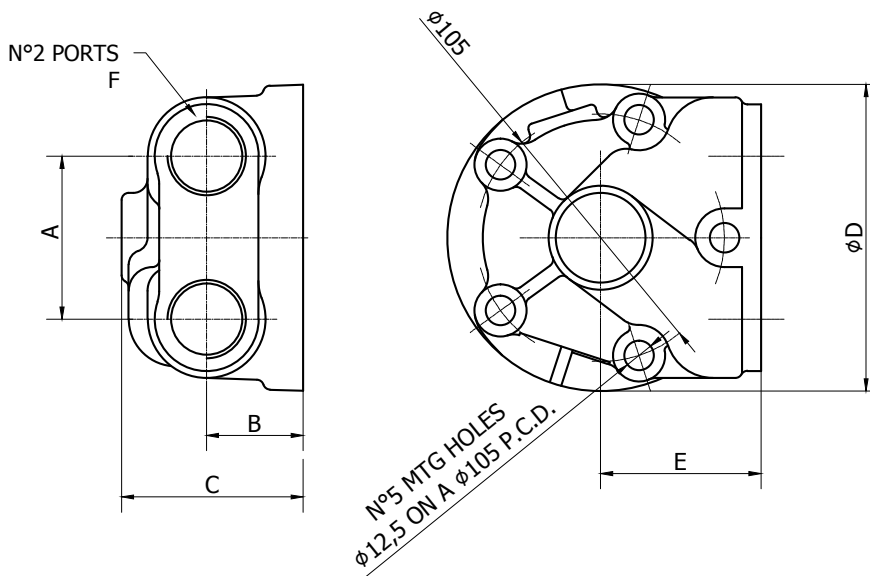
The above data are referring to the IAM H7 series motors, displacement 4600 cc.

IAM H7 - ORDERING CODE

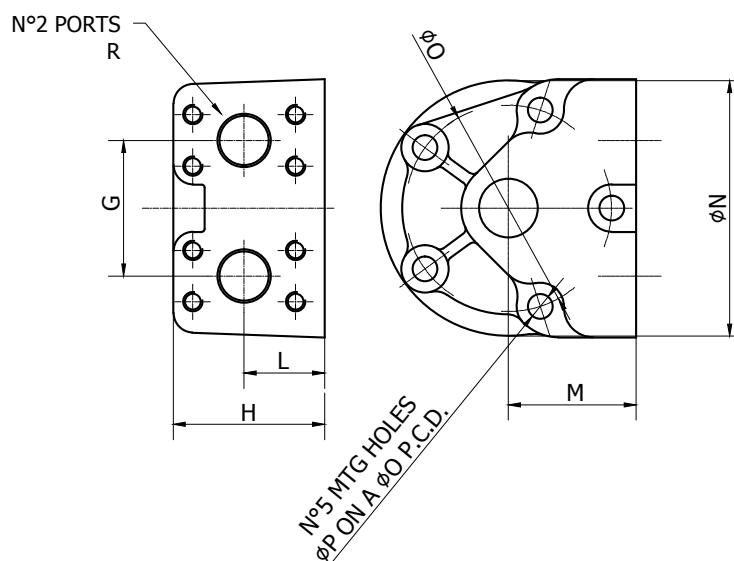


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D40-D416-D31B-D310B-D36B



D47-D75-D90



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MOTOR DISTRIBUTORS

		D40	D416	D31B	D310B	D36B	D47	D75	D90
A	[mm]	69	69	56	56	56			
B	[mm]	41	41	32	32	32			
C	[mm]	77	77	60	60	60			
D	[mm]	130	130	125	125	125			
E	[mm]	68	68	65	65	65			
F	□	1" BSP	1" SAE	3/4" BSP	1" BSP	3/4" SAE			
G	[mm]						69	83	100
H	[mm]						77	107	113
L	[mm]						41	55	59
M	[mm]						65	92	95
N	[mm]						130	170	190
O	[mm]						105	145	149
P	[mm]						12,5	14,5	14,5
R	□						1" SAE 3000	1"1/2 SAE 3000	1"1/2 SAE 6000

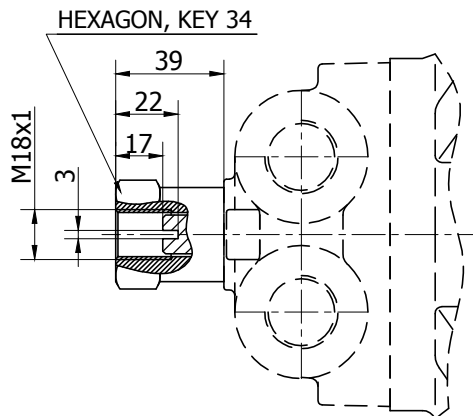
		D31B	D310B	D36B	D40	D416	D47	D75	D90
MAX. CONT. FLOW	[l/min]	200	300	200	300	300	300	600	700
MAX. FLOW	[l/min]	400	400	400	400	400	400	1000	1200
MAX. CONT. PRESSURE	[bar]	300	300	300	300	300	300	300	300
PEAK PRESSURE	[bar]	500	500	500	500	500	500	500	500

IAM H1	●	●	●	●	●	●			
IAM H2	●	●	●	●	●	●			
IAM H3	●	●	●	●	●	●			
IAM H4	●	●	●	●	●	●			
IAM H45	●	●	●	●	●	●	●	●	●
IAM H5	●	●	●	●	●	●	●	●	●
IAM H55	●	●	●	●	●	●	●	●	●
IAM H6	●	●	●	●	●	●	●	●	●
IAM H7									●

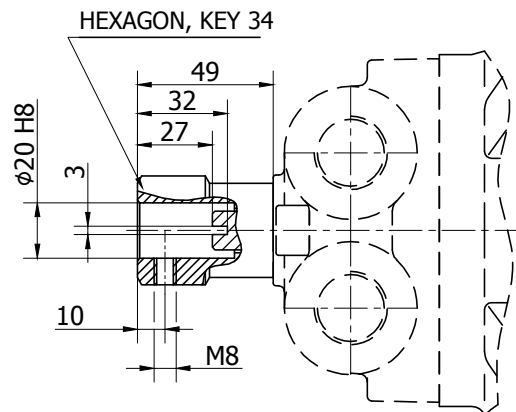
- Standard version
- ◐ Special version: available on request. Please contact Italgroup for more details

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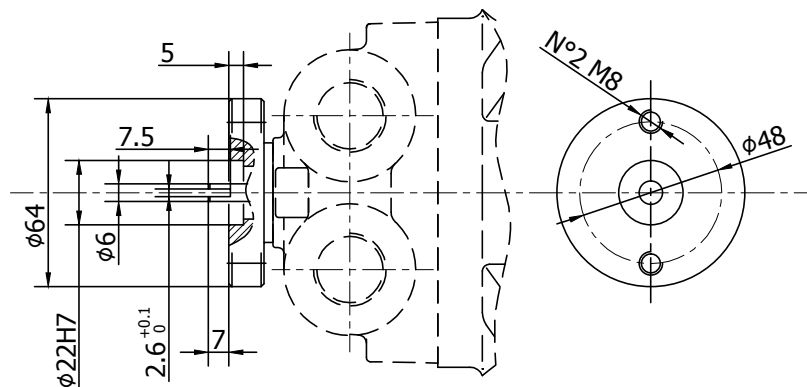
TA



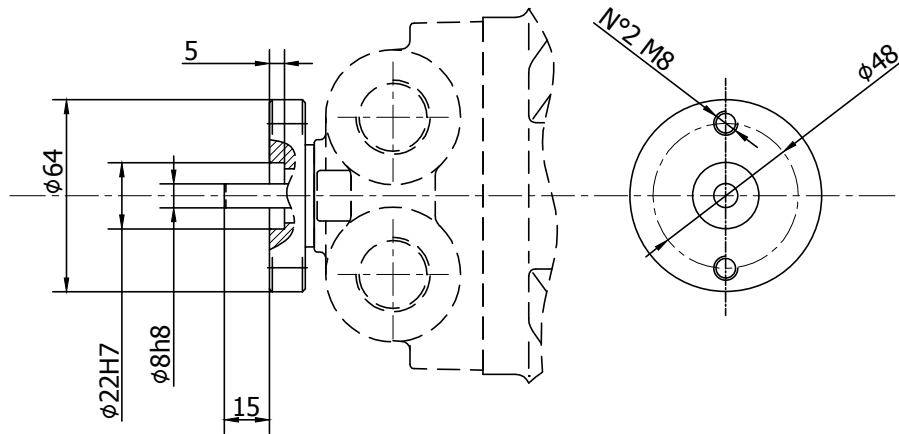
TB



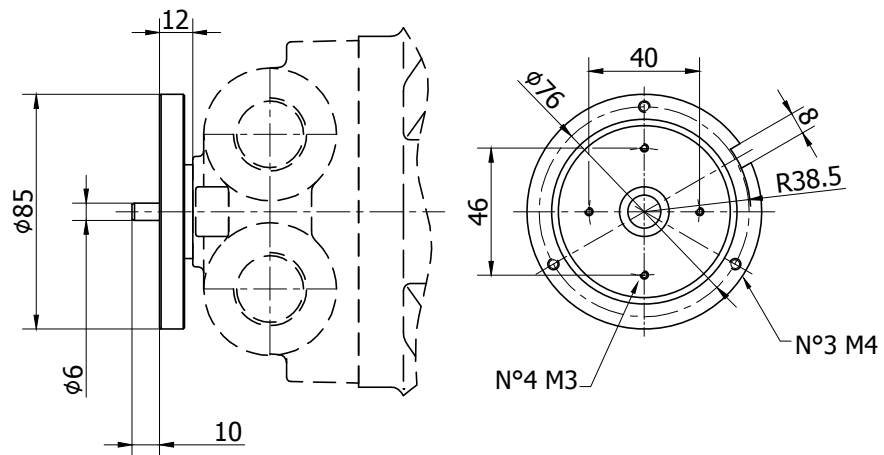
TT1



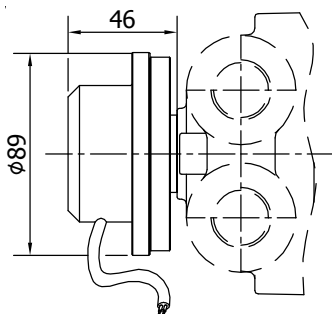
TQ1



EST



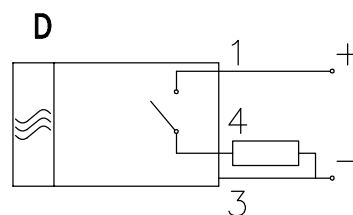
EST30



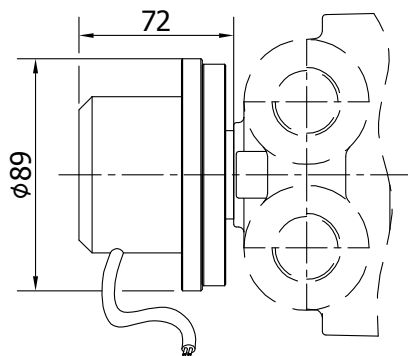
Operating parameters	E-..../3
Power supply (VDC)	10-30
Switching current (mA)	150
Frequency (Hz) 100rpm	50
Impulse/rpm	30
Operating temp. (°C)	-24/+70
Protection degree	IP67
Output	NPN
Motor type	All types

MODEL	φ5
Torque	1 Nm

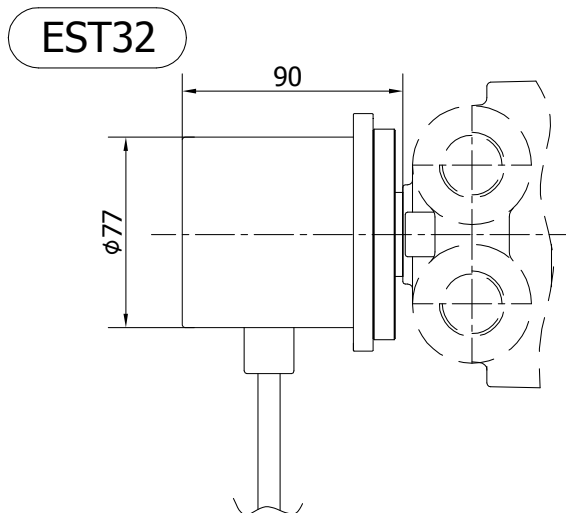
Model	Output	Fig.
E-..../.AP/....	PNP	D



EST31



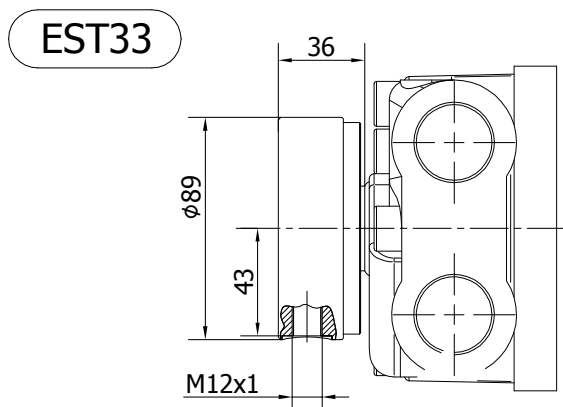
Power supply (VDC)	8-24
Impulse/rpm	500
Operating temp. (°C)	0/+60
Protection degree	IP65
Output	Push-pull
Motor type	All types
MODEL	φ5
Torque	1 Nm



Power supply (VDC)	8-24
Position control	4096 positions/rpm
Memory space	4096 rpm
Operating temp. (°C)	-20/+100
Protection degree	IP67
Output	SSI interface
Motor type	All types

MODEL	φ6
Torque	1 Nm

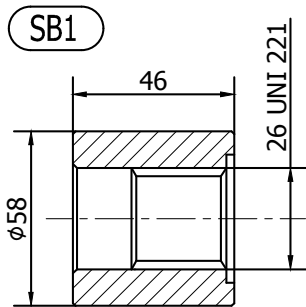
Encoder type: EAM 36 F 12/12 G8/30 S P Z E 6x6 PR2



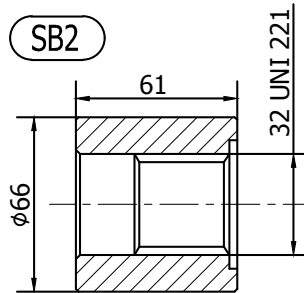
Impulse/rpm	12
Motor type	All types

Sensor NOT included

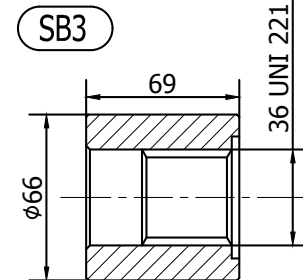
SPLINED BILLETS



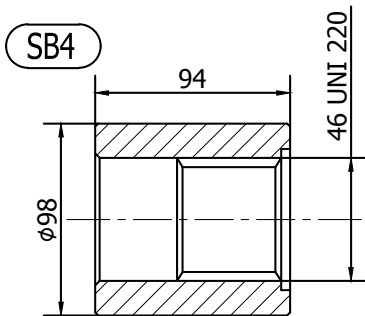
For: IAM 80-195 H1 A0
IAM 80-195 H1 A1



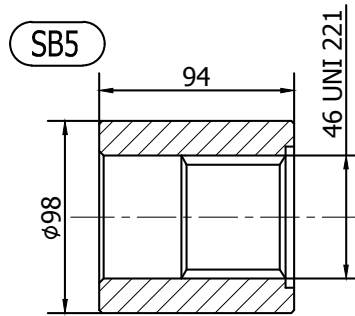
For: IAM 200-300 H1 A0
IAM 200-350 H2 A0
IAM H2/C190 A0
IAM H2/B10 A0
IAM H2/PH A0



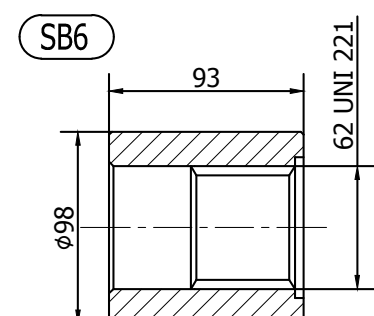
For: IAM 400-600 H2 A0
IAM H2/GM2 A0
IAM H2/S A0
IAM 350-700 H3 A0
IAM H3/S A0



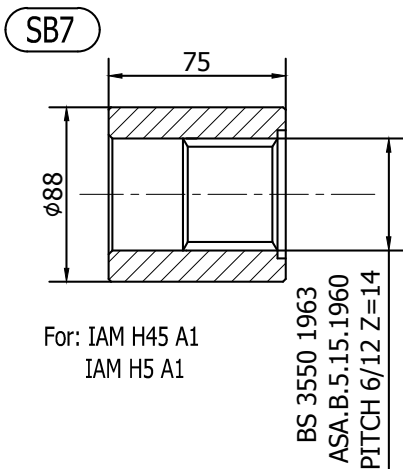
For: IAM 800 H3 A0
IAM 800/N H3 A0
IAM H4 A0



For: IAM H3/C A1
IAM H3/GM3 A0
IAM 800 H3 A11
IAM 800/N H3 A11
IAM H4 A1

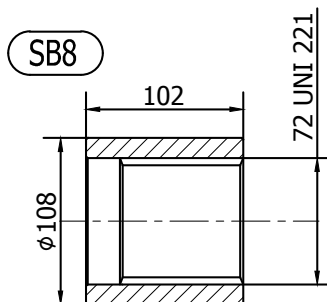


For: IAM H45 A0
IAM H45/C A0
IAM H5 A0
IAM 1000-1200-1400-1500/C H5 A0

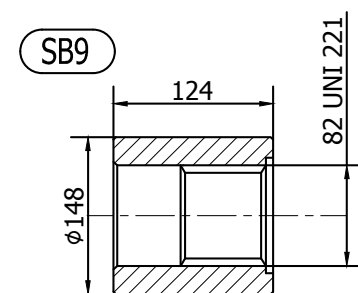


For: IAM H45 A1
IAM H5 A1

BS 3550 1963
ASA.B.5.15.1960
PITCH 6/12 Z=14



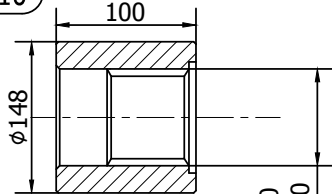
For: IAM 1600-1800-2000-2200/C H5 A0



For: IAM H55 A0
IAM H55/C A0
IAM H6 A0
IAM H6/C A0

SPLINED BILLETS

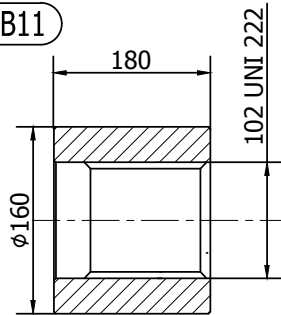
SB10



For: IAM H55 A1
IAM H6 A1
IAM H7 A1

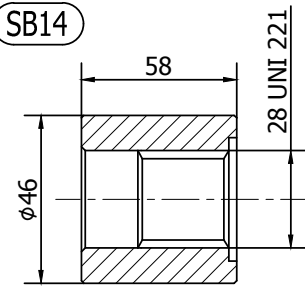
BS 3550 1963
ASA.B.5.15.1960
PITCH 6/12 Z=20

SB11



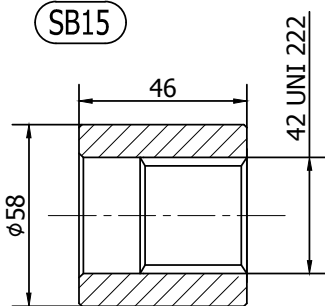
For: IAM H7 A0
IAM H7/C A0

SB14



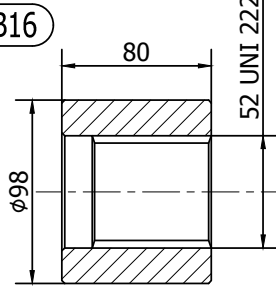
For: IAM H1/GM05 A0
IAM H1/GM1 A0
IAM H1/BH A0
IAM H1 A11

SB15



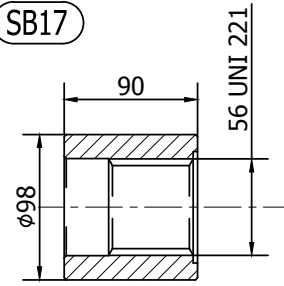
For: IAM H2/C300 A0

SB16



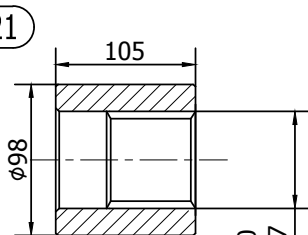
For: IAM H4/C A0

SB17



For: IAM H4/S A0
IAM H4/GM4 A0
IAM H5/GM5 A0

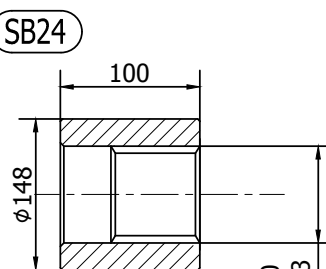
SB21



For: IAM H3/B30 A0
IAM H4/B45 A1

BS 3550 1963
ASA.B.5.15.1960
PITCH 8/16 Z=17

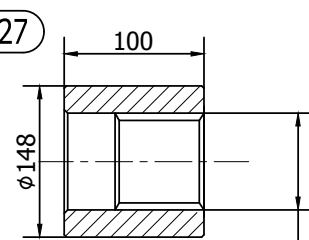
SB24



For: IAM H6 A11
IAM H7 A13

BS 3550 1963
ASA.B.5.15.1960
PITCH 6/12 Z=23

SB27



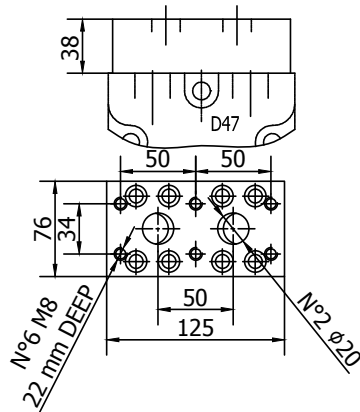
For: IAM H6 A12
IAM H7 A12

BS 3550 1963
ASA.B.5.15.1960
PITCH 5/10 Z=16

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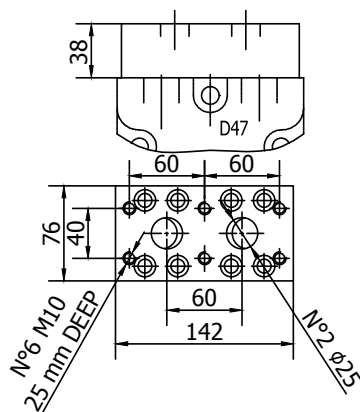
ADAPTOR FLANGES

FL1



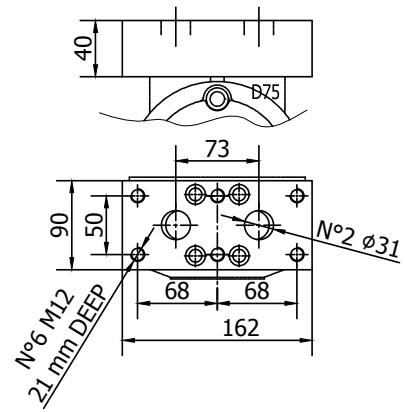
Connection block, fitting D47 distributor, for motor MR 125/160/190/200/250/300/330

FL2



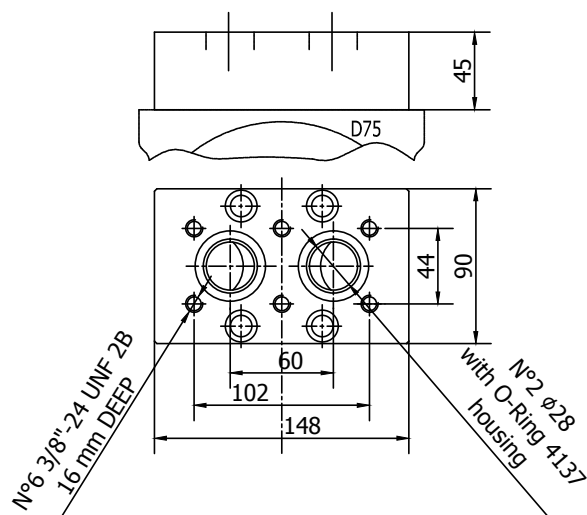
Connection block, fitting D47 distributor, for motor MR 350/450/500/600/700/800

FL4



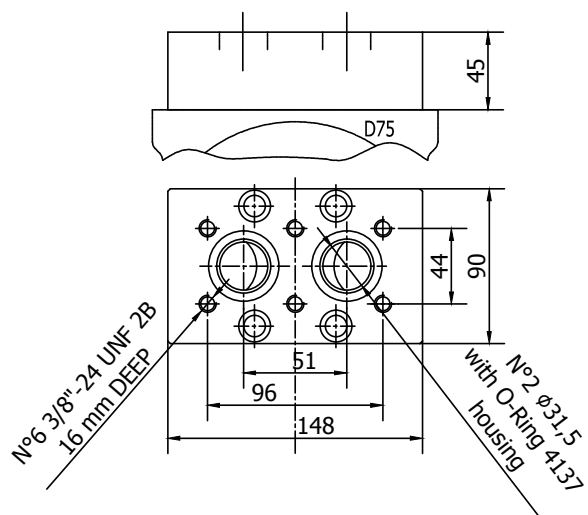
Connection block, fitting D75 distributor, for motor MR 1100/1400/1600/1800/2100

FL5



Connection block, fitting D75 distributor, for motor HMB 60/80/100 - S03

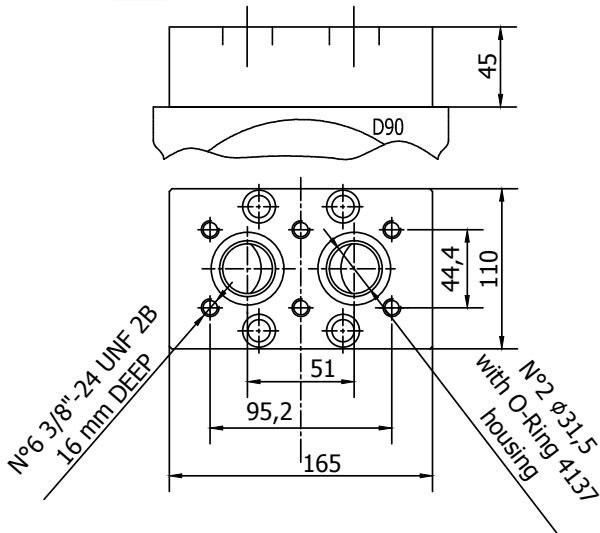
FL6



Connection block, fitting D75 distributor, for motor HMB 60/80/100 - S04

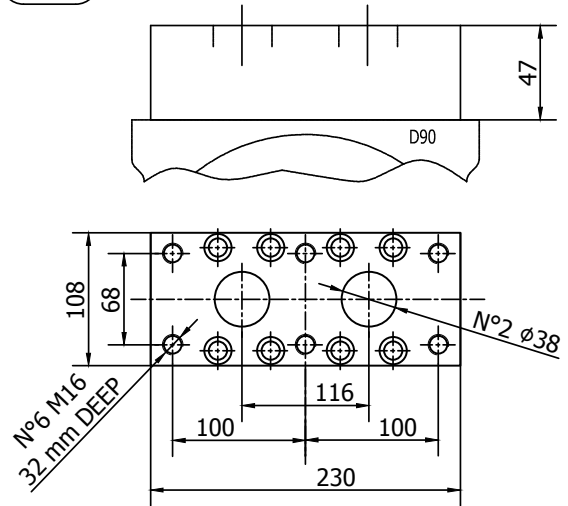
ADAPTOR FLANGES

FL7



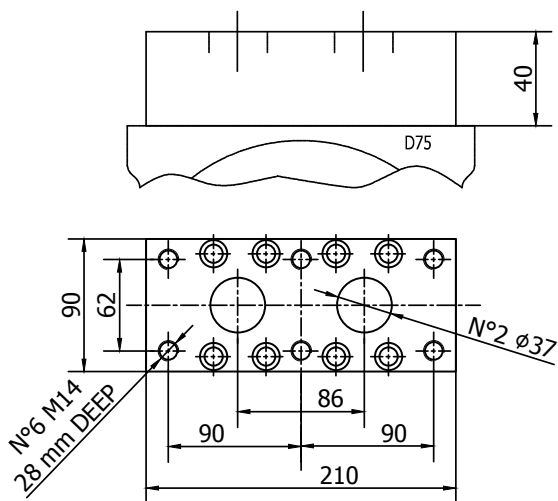
Connection block, fitting D90 distributor, for motor HMB 125/150/200 - S04

FL8



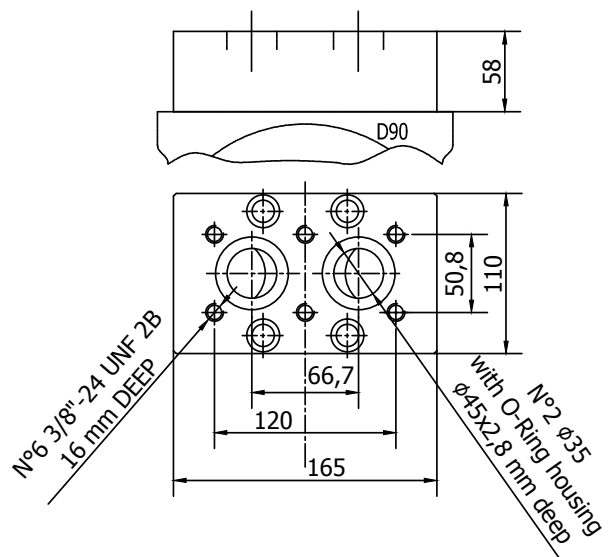
Connection block, fitting D90 distributor, for motor MR 3600/4500, MRE 5400

FL10



Connection block, fitting D75 distributor, for motor MR 2400/2800, MRE 3100

FL16



Connection block, fitting D90 distributor, for motor HMB 270/325 - S04

ITALGROUP MOTORS

IAMD SERIES - VALVES

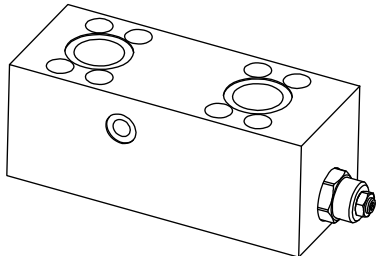
TECHNICAL CATALOGUE

INDEX - VALVES

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<u>DOUBLE OVERCENTER - OVDA 160</u>	"	161
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<u>DOUBLE RELIEF - RVDA 80</u>	"	163
<u>DOUBLE RELIEF AND FLUSHING - RVDAP 80</u>	"	164
<u>SINGLE RELIEF AND ANTICAVITATION - RVSAC 200</u>	"	165
<u>DOUBLE OVERCENTER - OVDA 300</u>	"	166
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<u>DOUBLE RELIEF AND FLUSHING - RVDAP 90</u>	"	170
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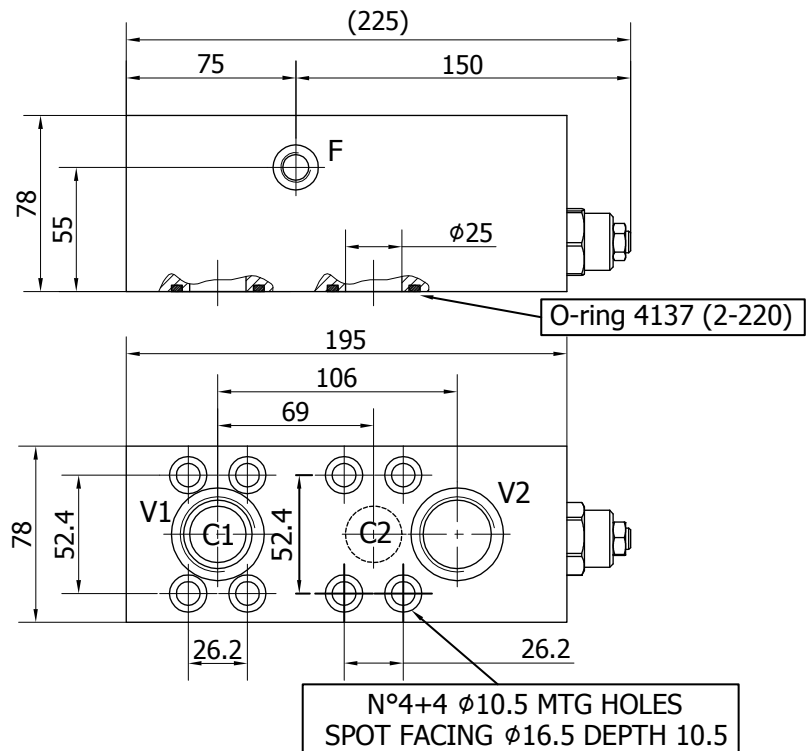
SINGLE OVERCENTER VALVE - OVSA 160

INSTALLATION DRAWING



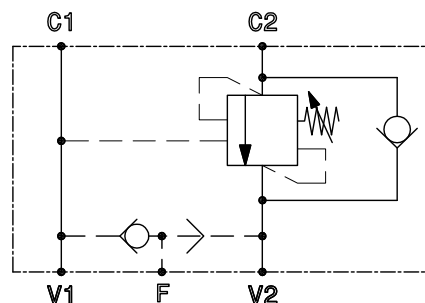
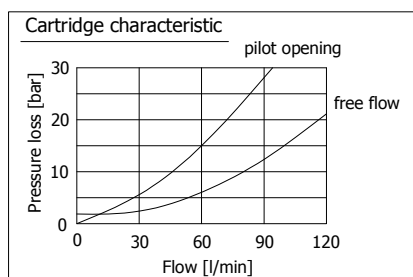
PORTS DIMENSION

V1,V2	1" BSP
F	1/4" BSP
C1,C2	O-ring 4137 Parker code 2-220



TECHNICAL DATA - OVSA 160

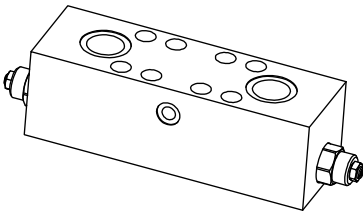
		OVSA.160.1.A.D47	OVSA.160.2.C.D47	OVSA.160.3.C.D47
NOMINAL FLOW	[l/min]	120	120	120
MAXIMUM FLOW	[l/min]	160	160	160
MAXIMUM PRESSURE	[bar]	350	350	350
PILOT RATIO	[-]	3:1	4.5:1	10:1
RELIEF VALVE SETTING RANGE	[bar]	70-280	140-350	140-350
STANDARD RELIEF SETTING	[bar]	210	210	210
BLOCK MATERIAL	[-]	steel	steel	steel
DISTRIBUTOR FITTING	[-]	D47	D47	D47



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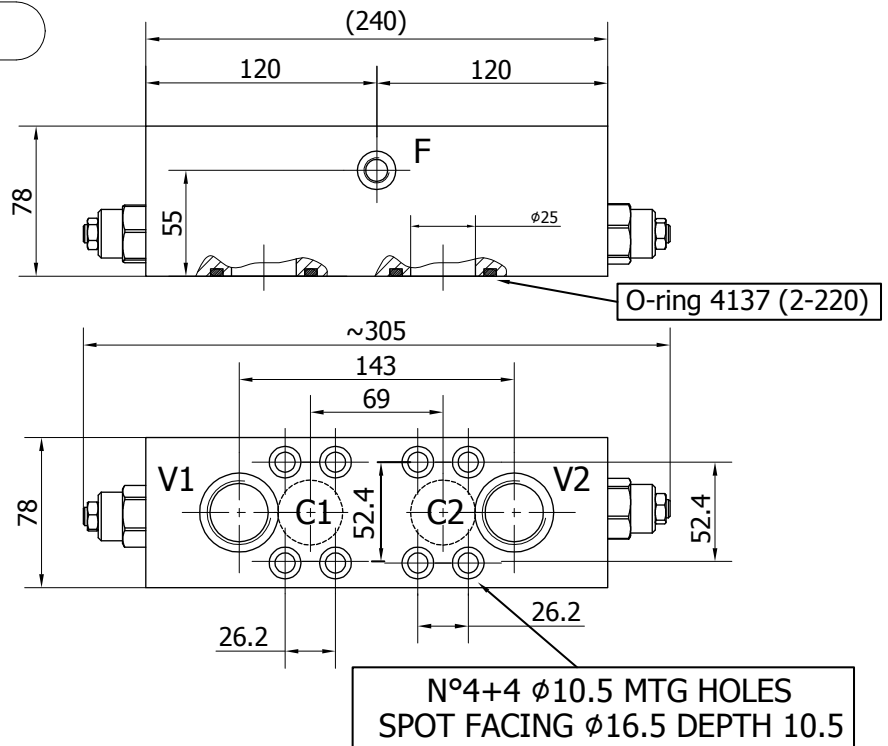
DOUBLE OVERCENTER VALVE - OVDA 160

INSTALLATION DRAWING



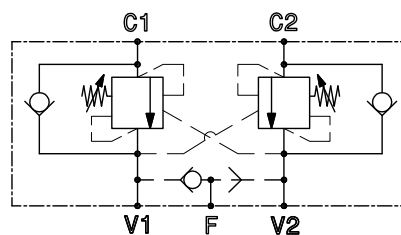
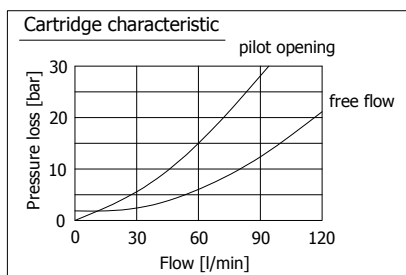
PORTS DIMENSION

V1,V2	1" BSP
F	1/4" BSP
C1,C2	O-ring 4137 Parker code 2-220



TECHNICAL DATA - OVDA 160

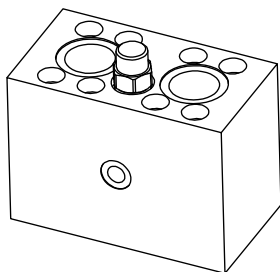
		OVDA.160.1.A.D47	OVDA.160.2.C.D47	OVDA.160.3.C.D47
NOMINAL FLOW	[l/min]	120	120	120
MAXIMUM FLOW	[l/min]	160	160	160
MAXIMUM PRESSURE	[bar]	350	350	350
PILOT RATIO	[-]	3:1	4.5:1	10:1
RELIEF VALVE SETTING RANGE	[bar]	70-280	140-350	140-350
STANDARD RELIEF SETTING	[bar]	210	210	210
BLOCK MATERIAL	[-]	steel	steel	steel
DISTRIBUTOR FITTING	[-]	D47	D47	D47



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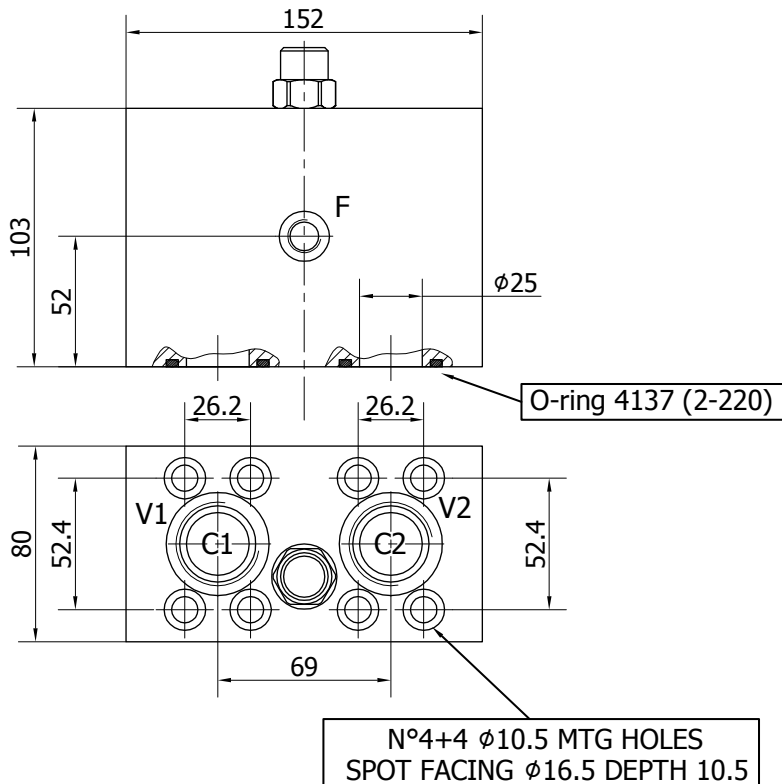
FLUSHING VALVE - AP40

INSTALLATION DRAWING



PORTS DIMENSION

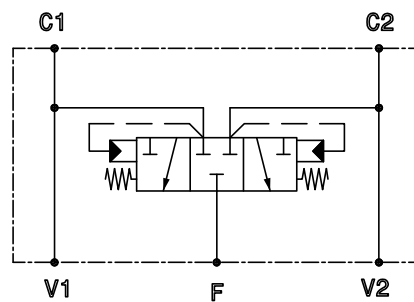
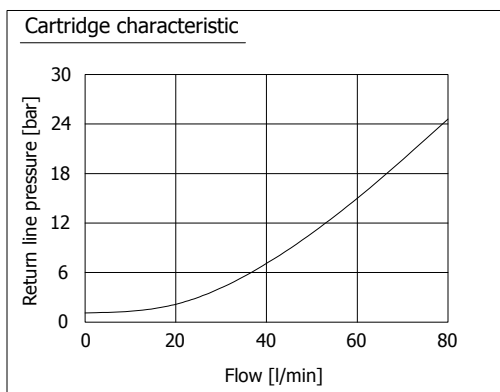
V1,V2	1" BSP
F	1/4" BSP
C1,C2	O-ring 4137 Parker code 2-220



TECHNICAL DATA - AP40

AP40.D47

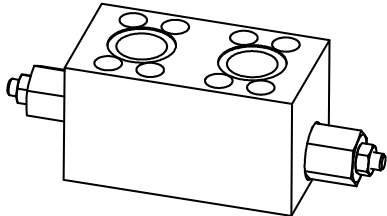
MAXIMUM FLUSHING FLOW	[l/min]	80
MAXIMUM PRESSURE	[bar]	350
BLOCK MATERIAL	[]	steel
DISTRIBUTOR FITTING	[]	D47



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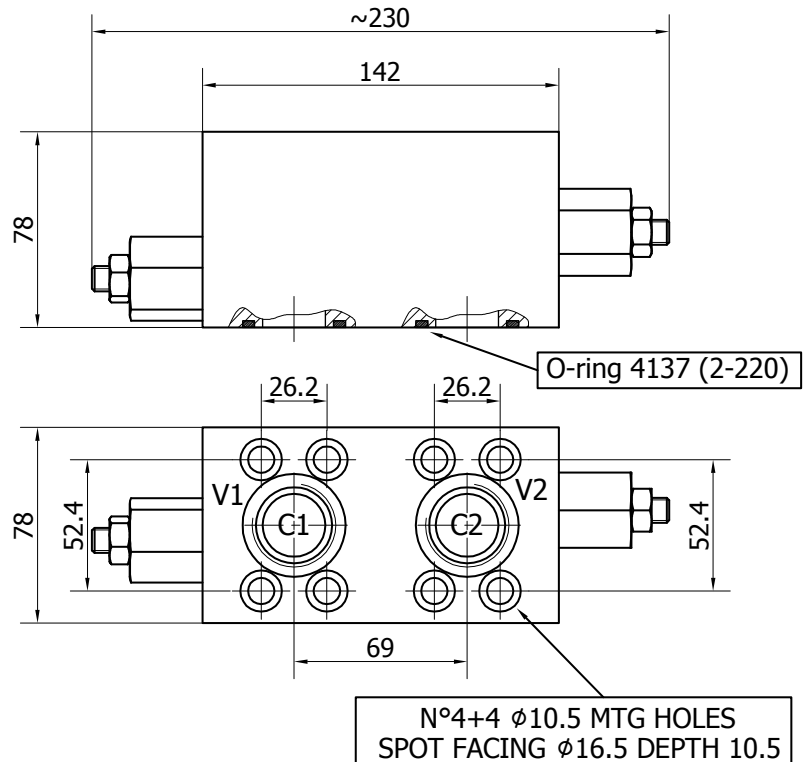
DOUBLE RELIEF VALVE- RVDA 80

INSTALLATION DRAWING



PORTS DIMENSION

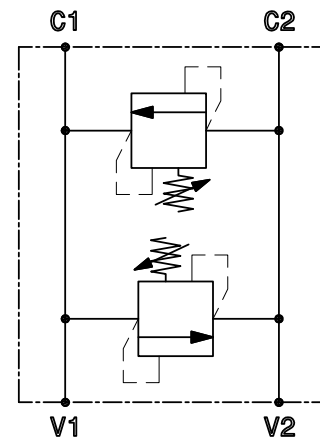
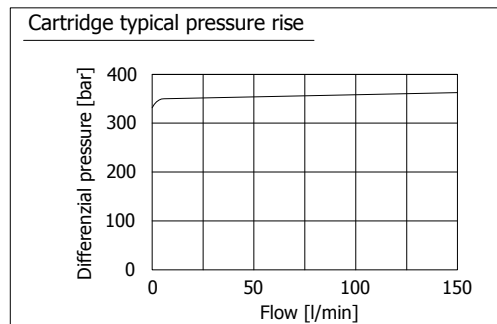
V1,V2	1" BSP
C1,C2	O-ring 4137 Parker code 2-220



TECHNICAL DATA - RVDA 80

RVDA.80.C.D47

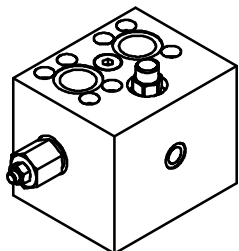
NOMINAL FLOW	[l/min]	150
MAXIMUM FLOW	[l/min]	200
MAXIMUM PRESSURE	[bar]	350
RELIEF VALVE SETTING RANGE	[bar]	20-350
STANDARD RELIEF SETTING	[bar]	20
BLOCK MATERIAL	[]	steel
DISTRIBUTOR FITTING	[]	D47



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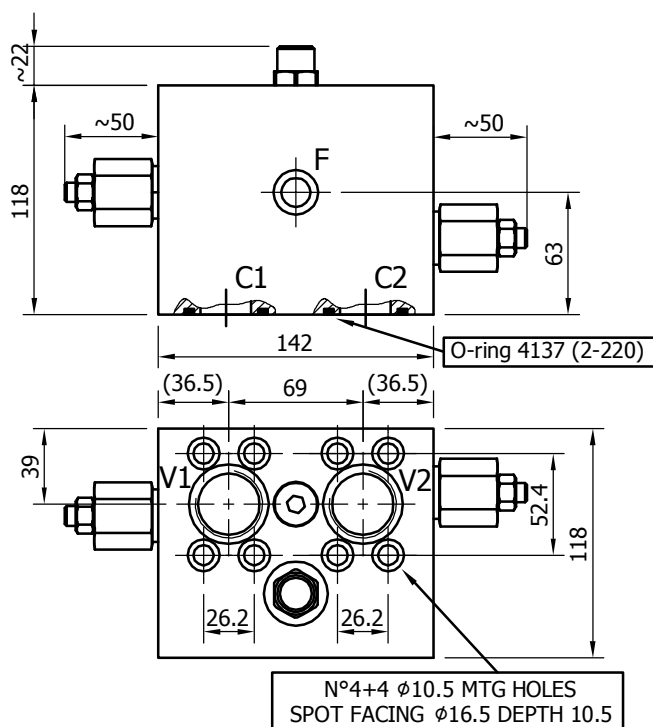
DOUBLE RELIEF WITH FLUSHING - RVDAP80

INSTALLATION DRAWING



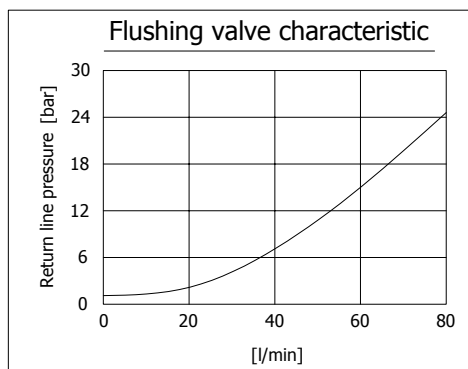
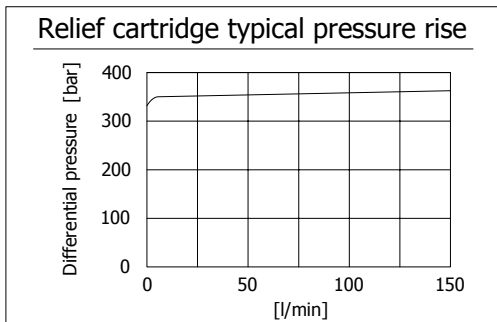
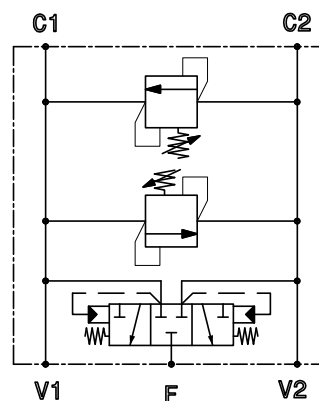
PORTS DIMENSION

V1,V2	1" BSP
F	1/4" BSP
C1,C2	O-ring 4137 Parker code 2-220



TECHNICAL DATA - RVDAP 80

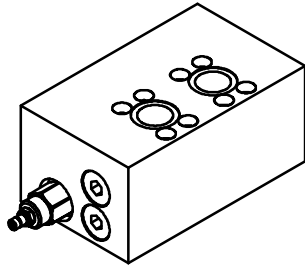
RVDAP 80		
RELIEF VALVE MAXIMUM FLOW	[l/min]	200
RELIEF VALVE SETTING RANGE	[bar]	20-350
STANDARD RELIEF SETTING	[bar]	70
MAXIMUM FLUSHING FLOW	[l/min]	80
MAXIMUM PRESSURE	[bar]	350
BLOCK MATERIAL	[]	steel
DISTRIBUTOR FITTING	[]	D47



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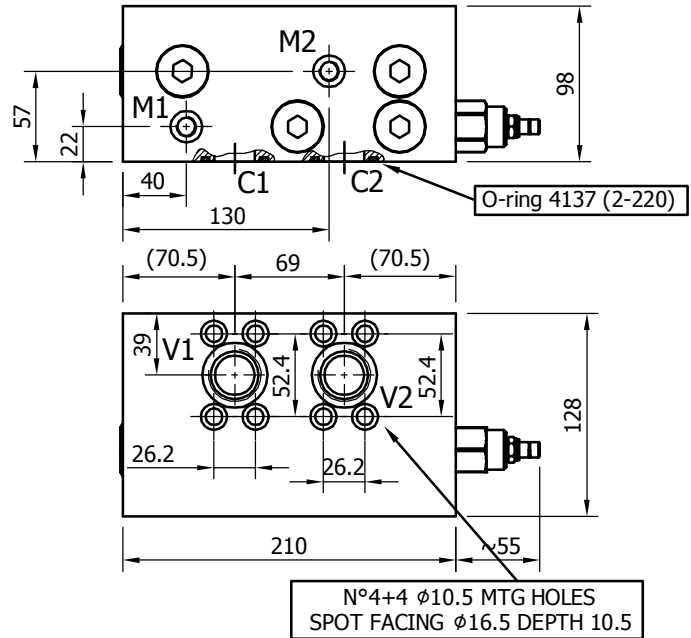
SINGLE RELIEF / ANTICAVITATION- RVSAC200

INSTALLATION DRAWING



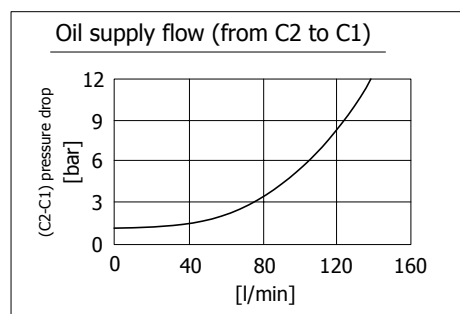
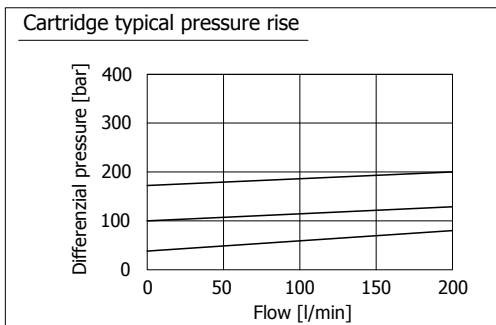
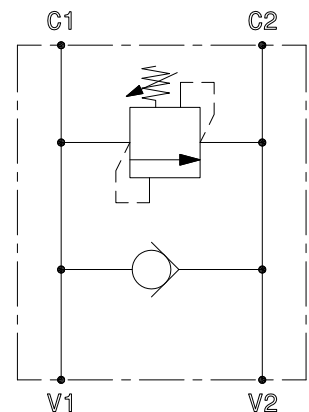
PORTS DIMENSION

V1,V2	1" BSP
M1,M2	1/4" BSP
C1,C2	O-ring 4137 Parker code 2-220



TECHNICAL DATA - RVSAC 200

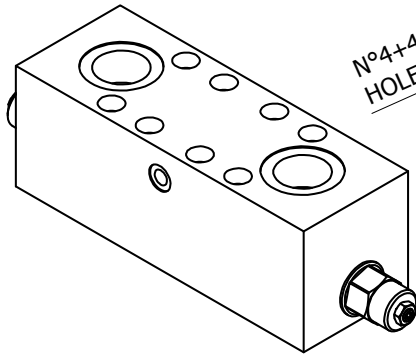
		RVSAC200
RELIEF VALVE MAXIMUM FLOW	[l/min]	200
MAXIMUM PRESSURE	[bar]	350
RELIEF VALVE SETTING RANGE	[bar]	70-420
STANDARD RELIEF SETTING	[bar]	70
CHECK VALVE MAXIMUM FLOW	[l/min]	160
BLOCK MATERIAL	[]	steel
DISTRIBUTOR FITTING	[]	D47



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DOUBLE OVERCENTER VALVE - OVDA 300

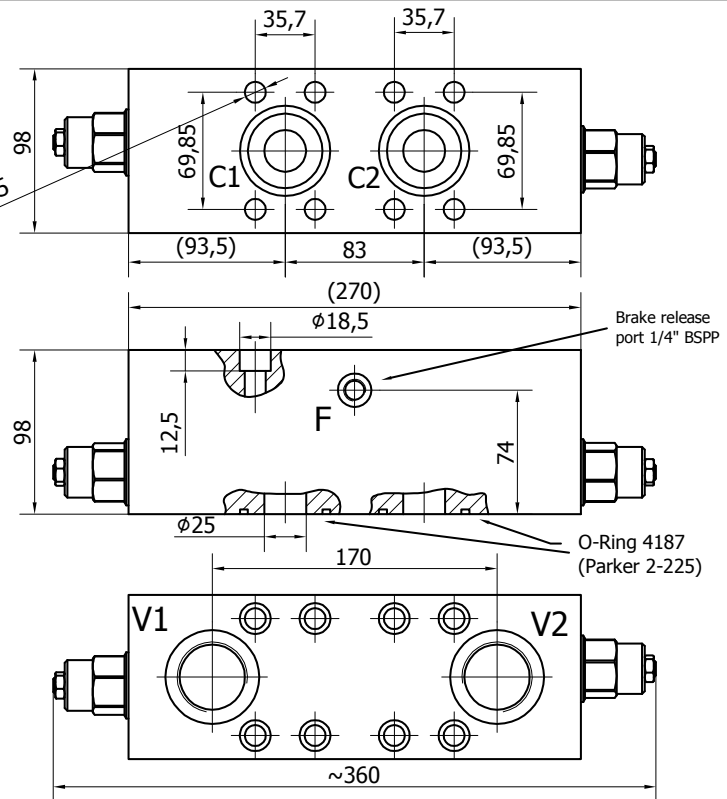
INSTALLATION DRAWING



N°4+4 MTG HOLES Ø12,5

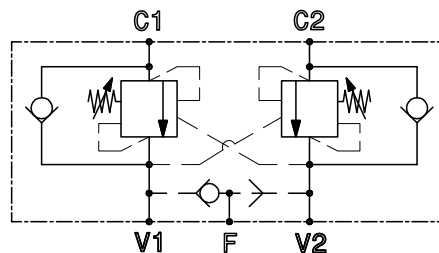
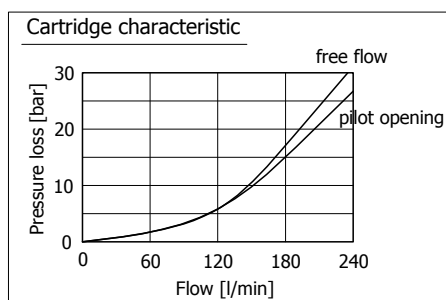
PORTS DIMENSION

V1,V2	1"1/4 BSPP
F	1/4" BSPP
C1,C2	O-ring 4187 Parker code 2-225



TECHNICAL DATA - OVDA 300

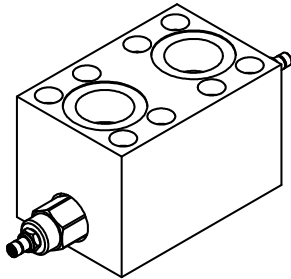
		OVDA.300.1.A.D75	OVDA.300.4.C.D75	OVDA.300.2.C.D75
NOMINAL FLOW	[l/min]	240	240	240
MAXIMUM FLOW	[l/min]	300	300	300
MAXIMUM PRESSURE	[bar]	350	350	350
PILOT RATIO	[-]	3:1	10:1	4.5:1
RELIEF VALVE SETTING RANGE	[bar]	70-280	140-350	140-350
STANDARD RELIEF SETTING	[bar]	210	210	210
BLOCK MATERIAL	[-]	steel	steel	steel
DISTRIBUTOR FITTING	[-]	D75	D75	D75



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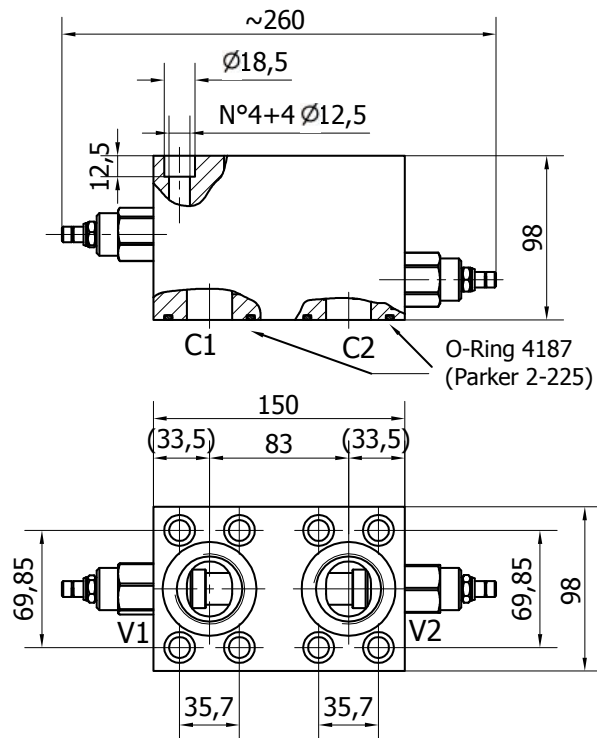
DOUBLE RELIEF VALVE- RVDA 200

INSTALLATION DRAWING



PORTS DIMENSION

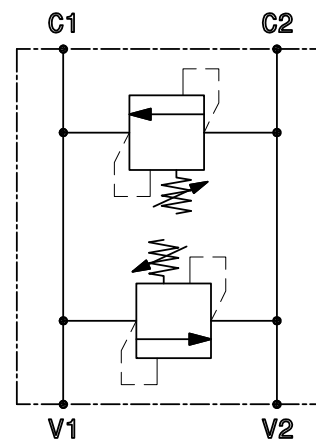
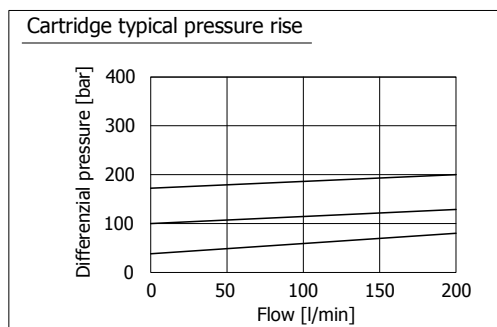
V1,V2	1"1/4 BSP
C1,C2	O-ring 4187 Parker code 2-225



TECHNICAL DATA - RVDA 200

RVDA.200.C.D75

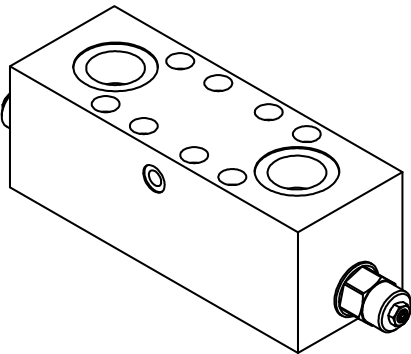
RELIEF VALVE MAXIMUM FLOW	[l/min]	200
MAXIMUM PRESSURE	[bar]	350
RELIEF VALVE SETTING RANGE	[bar]	70-420
STANDARD RELIEF SETTING	[bar]	70
BLOCK MATERIAL	[]	steel
DISTRIBUTOR FITTING	[]	D75



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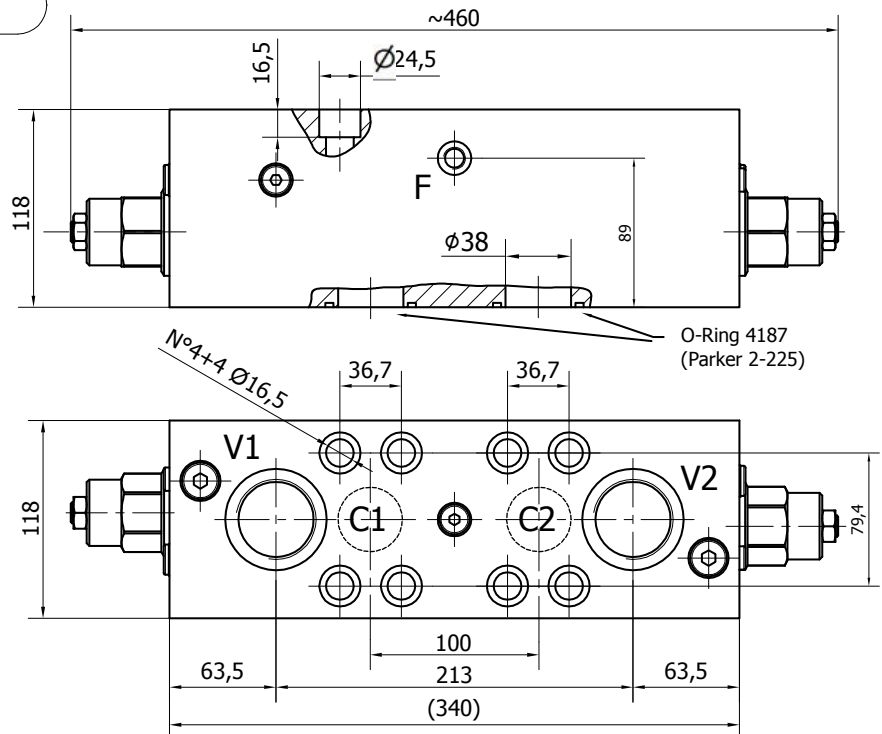
DOUBLE OVERCENTER VALVE - OVDA 480

INSTALLATION DRAWING



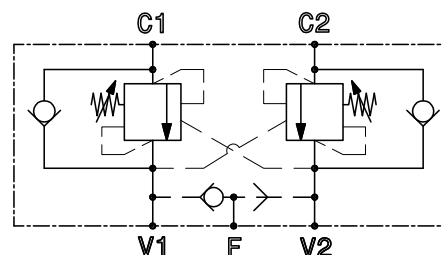
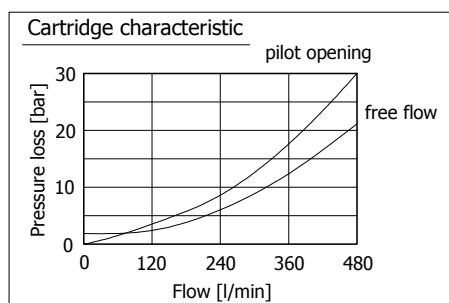
PORTS DIMENSION

V1,V2	1"1/2 BSPP
F	1/4" BSPP
C1,C2	O-ring 4187 Parker code 2-225



TECHNICAL DATA - OVDA 480

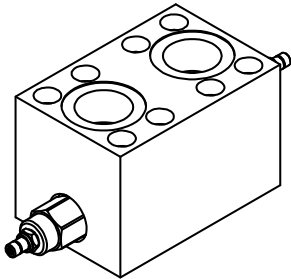
		OVDA.480.1.A.D90	OVDA.480.4.C.D90	OVDA.480.2.C.D90
NOMINAL FLOW	[l/min]	480	480	480
MAXIMUM FLOW	[l/min]	600	600	600
MAXIMUM PRESSURE	[bar]	350	350	350
PILOT RATIO	[-]	3:1	10:1	4.5:1
RELIEF VALVE SETTING RANGE	[bar]	70-280	140-350	140-350
STANDARD RELIEF SETTING	[bar]	210	210	210
BLOCK MATERIAL	[-]	steel	steel	steel
DISTRIBUTOR FITTING	[-]	D90	D90	D90



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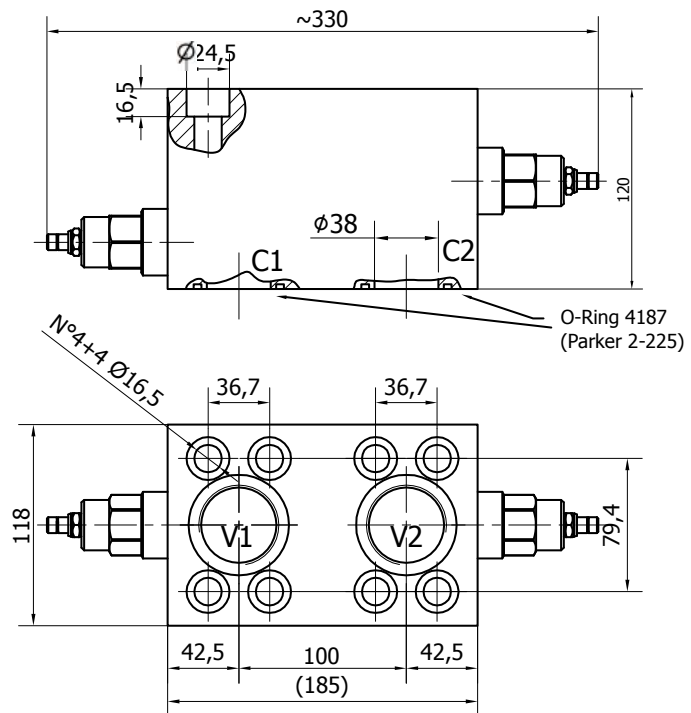
DOUBLE RELIEF VALVE- RVDA 380

INSTALLATION DRAWING



PORTS DIMENSION

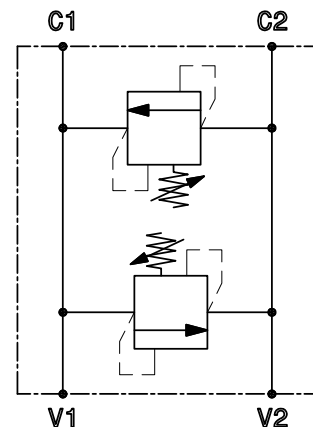
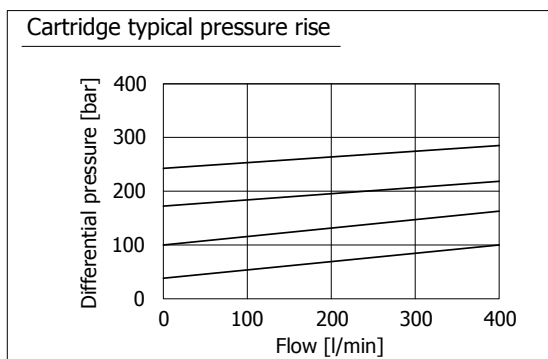
V1,V2	1"1/2 BSP
C1,C2	O-ring 4187 Parker code 2-225



TECHNICAL DATA - RVDA 380

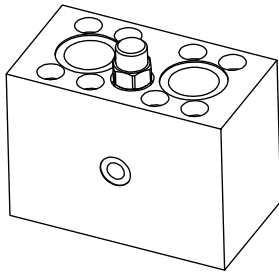
RVDA.380.C.D90

RELIEF VALVE MAXIMUM FLOW	[l/min]	380
MAXIMUM PRESSURE	[bar]	350
RELIEF VALVE SETTING RANGE	[bar]	70-420
STANDARD RELIEF SETTING	[bar]	70
BLOCK MATERIAL	[]	steel
DISTRIBUTOR FITTING	[]	D90



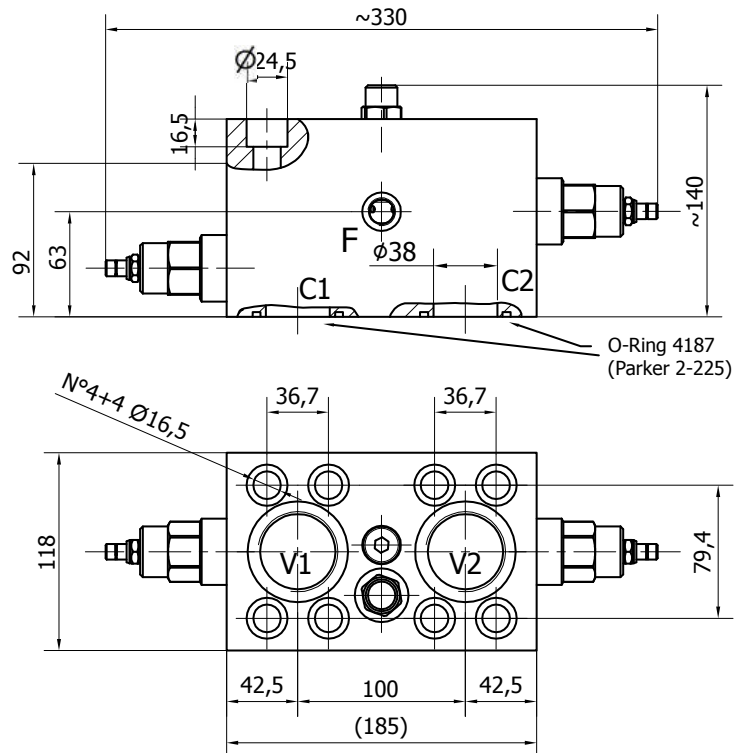
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INSTALLATION DRAWING



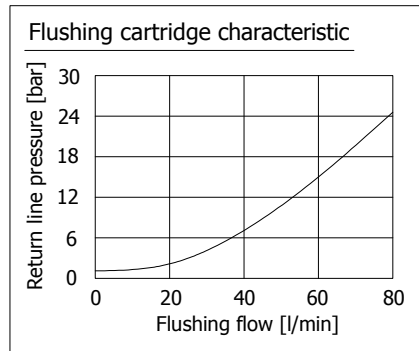
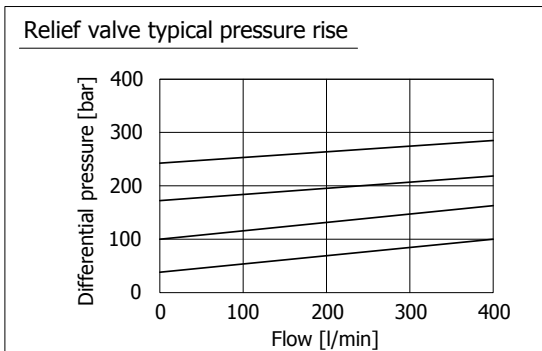
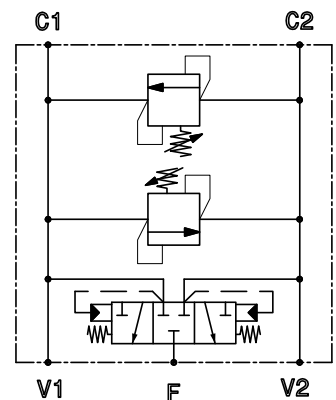
PORTS DIMENSION

V1,V2	1"1/2 BSP
F	1/4" BSP
C1,C2	O-ring 4187 Parker code 2-225



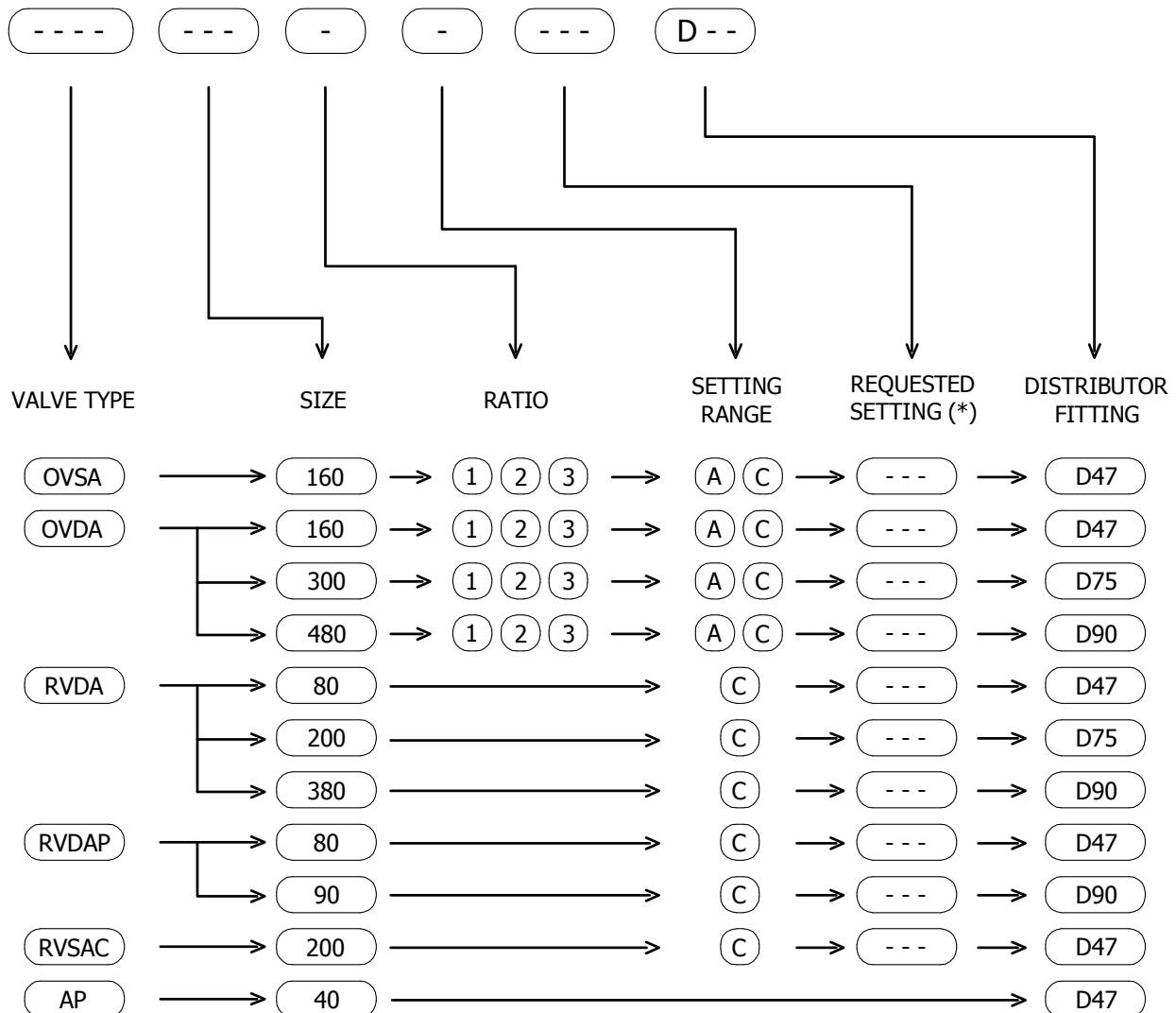
TECHNICAL DATA - RVDAP 90

RVDAP 90		
RELIEF VALVE MAXIMUM FLOW	[l/min]	380
RELIEF VALVE SETTING RANGE	[bar]	70-420
STANDARD RELIEF SETTING	[bar]	70
MAXIMUM FLUSHING FLOW	[l/min]	80
MAXIMUM PRESSURE	[bar]	350
BLOCK MATERIAL	[]	steel
DISTRIBUTOR FITTING	[]	D90



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VALVES ORDERING CODE



(*) If not specified, the valve will be supplied with the standard setting. Refer to the valves datasheets for the standard setting value.

EXAMPLES:

OVDA 160 1 A 200 D47

AP40 D47

RVDA 380 C D90

CONTACT US

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