
ITALGROUP SRL
IAC SERIES - IAC H6
GENERAL CATALOGUE

INDEX - IAC H6

<u>TECHNICAL DATA</u>	Pag	96
<u>IAC 3000 H6 - INSTALLATION DRAWING</u>	"	97
<u>IAC 3000/C H6 - INSTALLATION DRAWING</u>	"	98
<u>IAC 3000/MRH H6 - INSTALLATION DRAWING</u>	"	99
<u>IAC H6 - NIP OPTION</u>	"	100
<u>IAC H6 - CETOP 3 FITTING</u>	"	101
<u>IAC H6 - ORDERING CODE</u>	"	102
<u>IAC 3000 H6 - PERFORMANCE DIAGRAMS</u>	"	104 - 106

IAC 3000 H6

Displacement (*)	[cc]	3085	2950	2790	2620	2460	2290	2130	1970	1800	1640
Th. specific torque	[Nm/bar]	49,1	47	44,4	41,7	39,2	36,5	33,9	31,4	28,7	26,1
Continuous speed	[rpm]	235	240	245	250	250	265	285	305	340	370
Peak speed	[rpm]	280	280	300	300	300	320	340	350	400	420
Minimum speed	[rpm]	1	1	1	1	1	1	1	1	1	1
Mechanical efficiency	[%]	95	94,5	94,2	94	93,7	93,5	92,8	92,3	92	91
Starting efficiency	[%]	86	85,4	84,4	83,6	82,4	82	80,2	78	76	73
Continuous power (***)	[kW]	180	180	180	168	158	153	143	132	122	115
Cont. power with flushing	[kW]	270	270	270	253	238	228	212	196	185	175
Continuous pressure	[bar]	270	270	270	270	270	270	270	270	270	270
Intermittent pressure	[bar]	310	310	310	310	310	310	310	310	310	310
Peak pressure	[bar]	350	350	350	350	350	350	350	350	350	350
Flushing flow	[l/min]	12	12	12	12	12	12	12	12	12	12
Dry weight	[kg]	308	308	308	308	308	308	308	308	308	308

Displacement (*)	[cc]	1470	1310	1150	980	820	670	490	330	160	82	0
Th. specific torque	[Nm/bar]	23,4	20,9	18,3	15,6	13,1	10,7	7,8	5,2	2,5	1,3	0
Continuous speed	[rpm]	400	425	455	490	520	600	600	600	600	1000	1000
Peak speed	[rpm]	450	475	500	540	580	700	700	800	800	1200	1500
Minimum speed	[rpm]	1	1	1	1	2	2	2	3	5	-	-
Mechanical efficiency	[%]	90,5	88	86,2	82,3	81,7	78	76	73,2	25	0	0
Starting efficiency	[%]	70	66,4	62	55,4	46,3	33	0	0	0	0	0
Continuous power (***)	[kW]	106	100	100	100	90	80	70	40	8	0	0
Cont. power with flushing	[kW]	160	150	150	150	135	96	90	60	11	0	0
Continuous pressure	[bar]	270	250	250	250	250	250	250	250	250	17(**)	17(**)
Intermittent pressure	[bar]	310	310	310	310	310	310	310	310	310	17(**)	17(**)
Peak pressure	[bar]	350	350	350	350	350	350	350	350	350	17(**)	17(**)
Flushing flow	[l/min]	12	12	12	12	12	12	12	12	12	15	15
Dry weight	[kg]	308	308	308	308	308	308	308	308	308	308	308

(*) Different displacements can be available on request. Please contact ItalgrouP S.r.l. for more information.

(**) Pressure limits at 1000 rpm. For lower speeds the values can be increased. Contact ItalgrouP for more information.

(***) The continuous power and the continuous power with flushing are the output maximum power. To estimate the input power divide the output power by the mechanical efficiency. For example: if required output power is 150 kW and starting efficiency is 86%, estimated required power is $150/0.86 = 174,4$ kW.

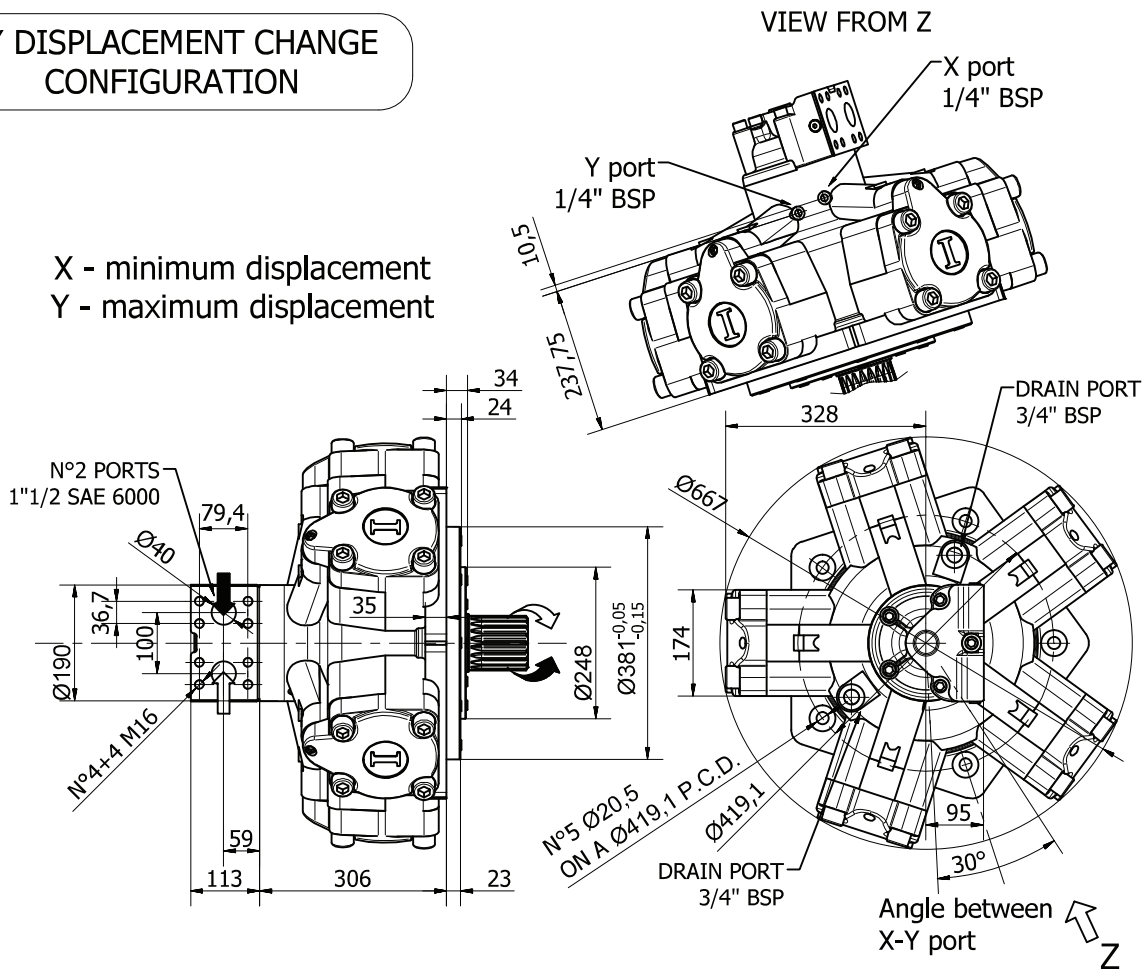
Hydrostatic pressure test: 420 bar.

Temperature range: -30 / 70 °C.

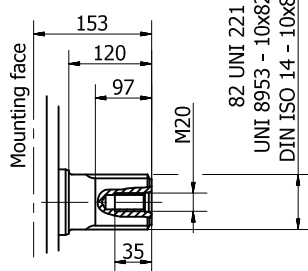
IAC 3000 H6 - INSTALLATION DRAWING

XY DISPLACEMENT CHANGE CONFIGURATION

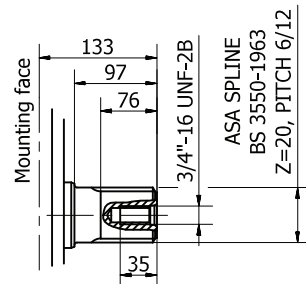
X - minimum displacement
Y - maximum displacement



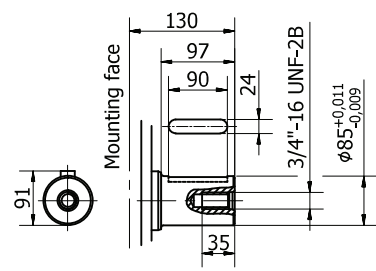
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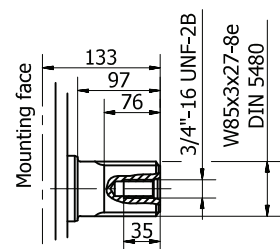
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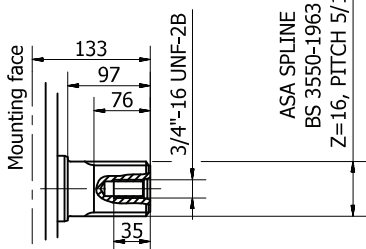
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SHAFT TYPE: A11



SHAFT TYPE: A12

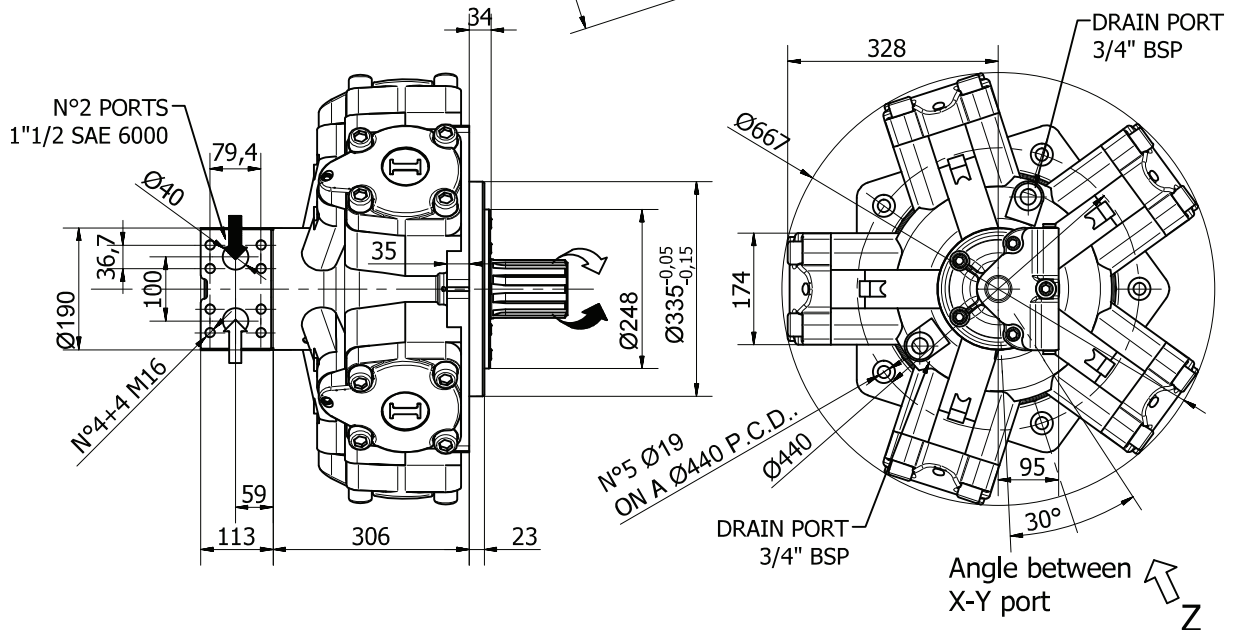
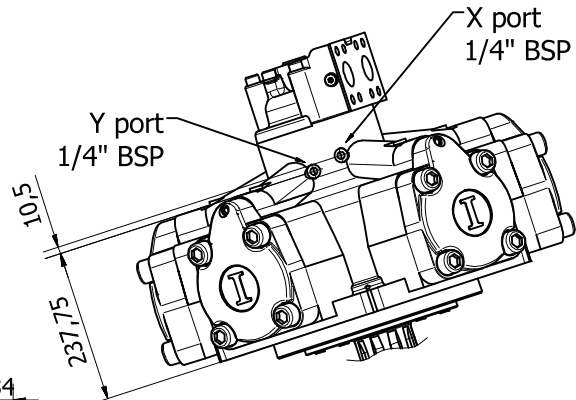


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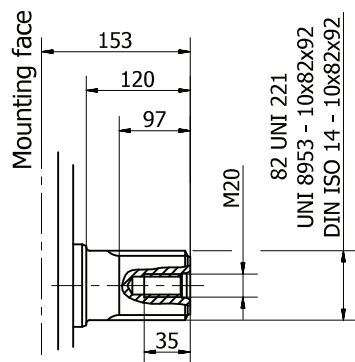
XY DISPLACEMENT CHANGE CONFIGURATION

X - minimum displacement
 Y - maximum displacement

VIEW FROM Z



SHAFT TYPE: A0



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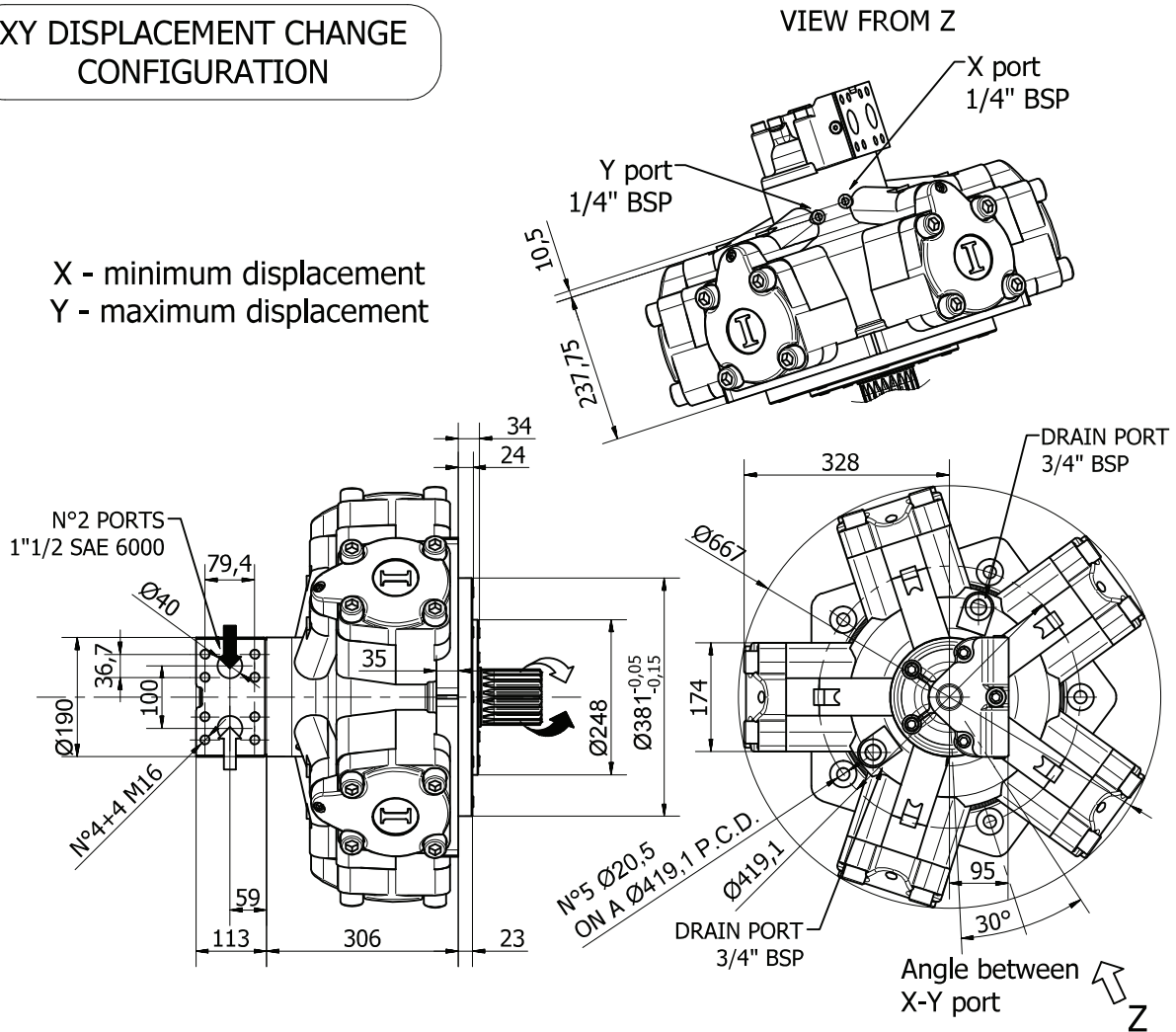
IAC 3000/MRH H6 - INSTALLATION DRAWING



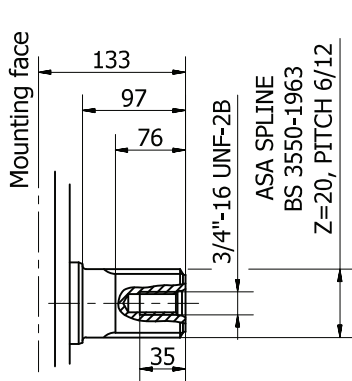
HYDRAULIC MOTORS
ITALY

XY DISPLACEMENT CHANGE CONFIGURATION

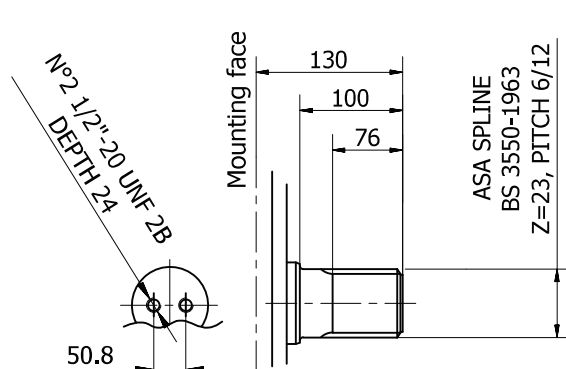
X - minimum displacement
Y - maximum displacement



SHAFT TYPE: A1



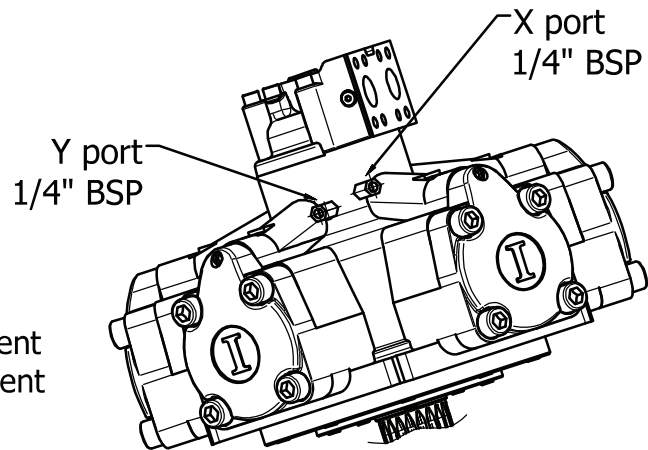
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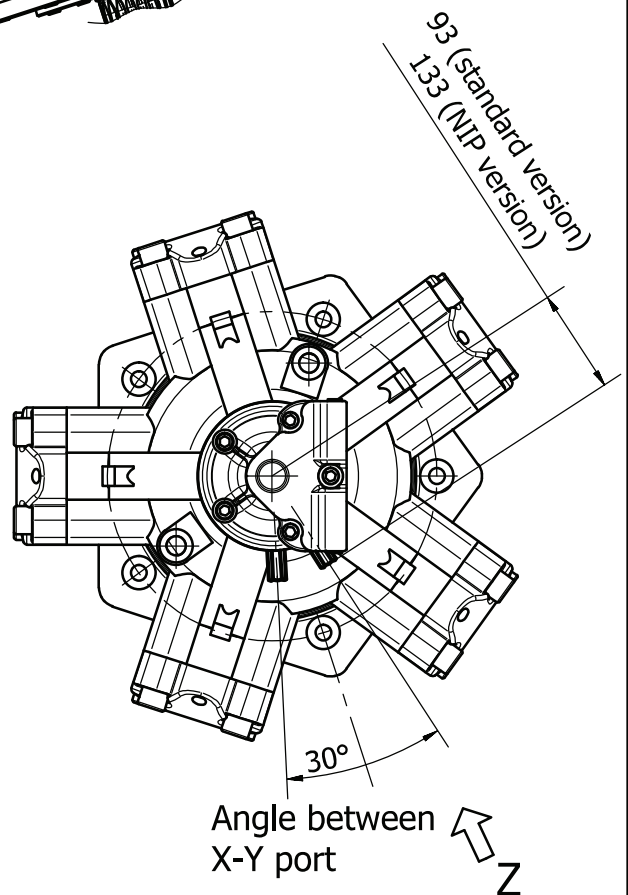
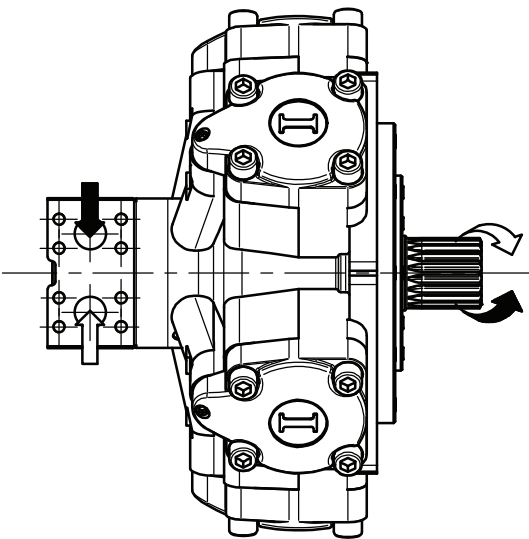
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**XY DISPLACEMENT CHANGE
 CONFIGURATION**

VIEW FROM Z



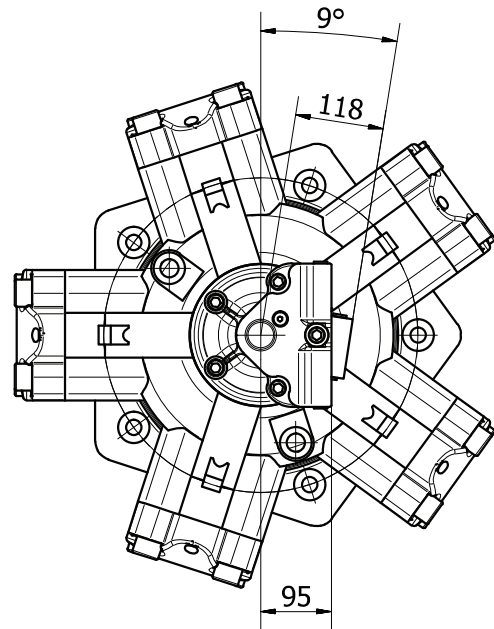
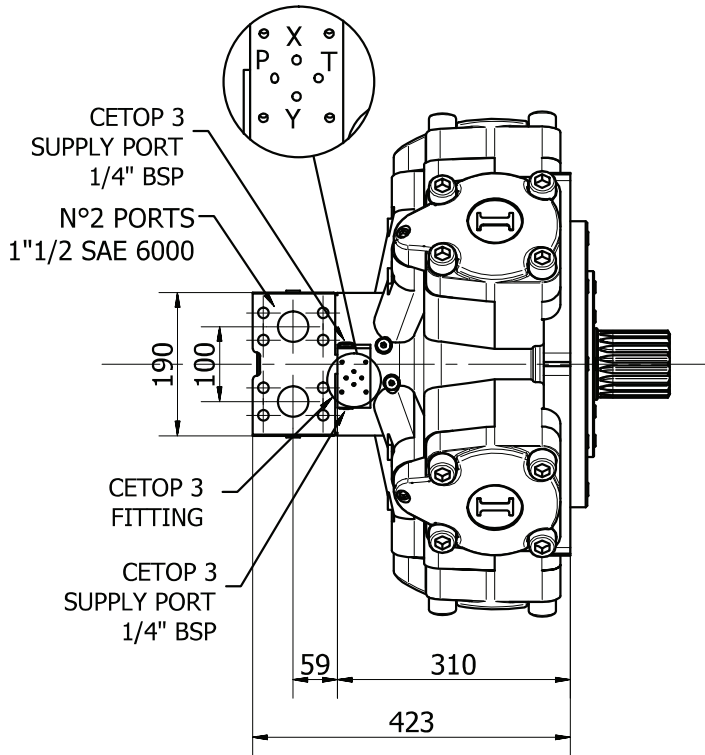
X - minimum displacement
 Y - maximum displacement



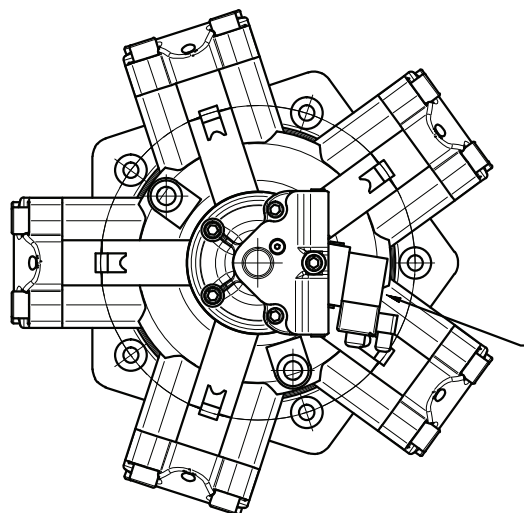
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IAC 3000 H6 - CETOP 3 FITTING

CETOP 3 DISPLACEMENT CHANGE CONFIGURATION

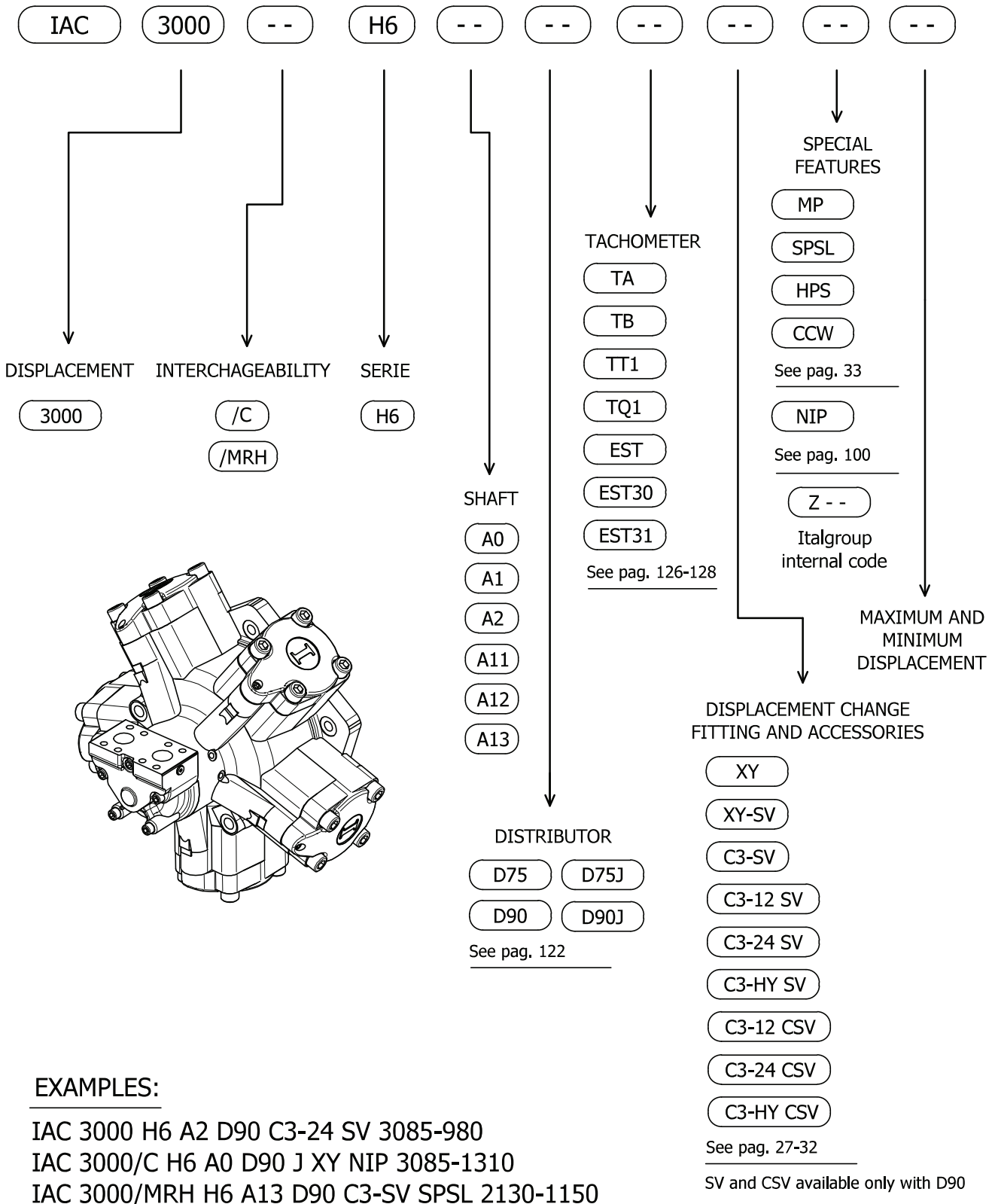


X - minimum displacement
Y - maximum displacement



CETOP 3 DISPLACEMENT CHANGE VALVE
 C3 - 12 SV (12V DC)
 C3 - 24 SV (24V DC)
 C3 - HY SV (HYDRAULIC OPERATED)

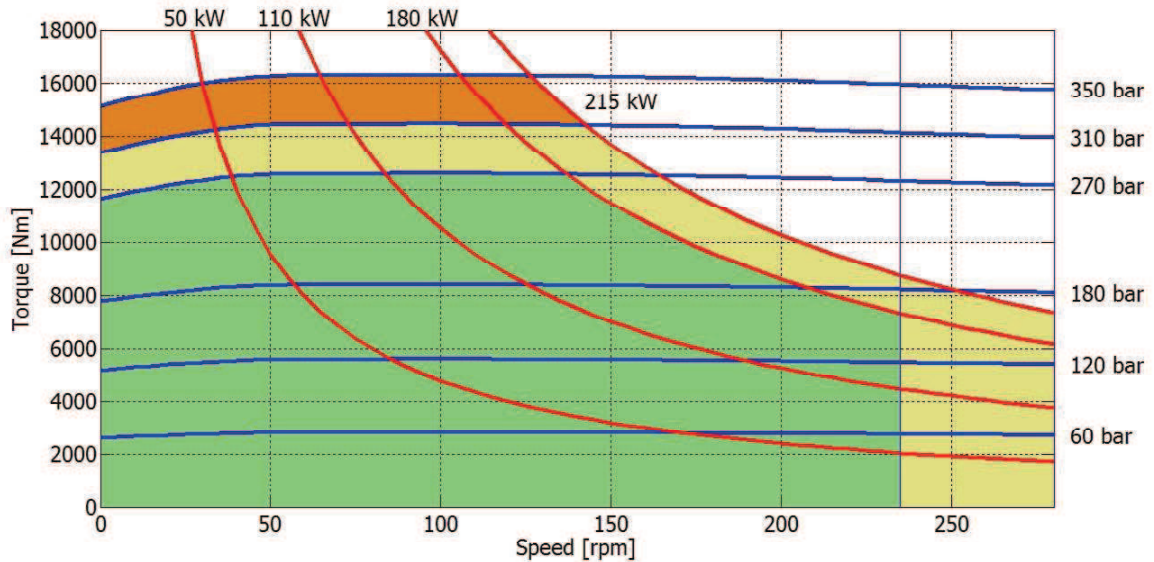
IAC 3000 H6 - ORDERING CODE



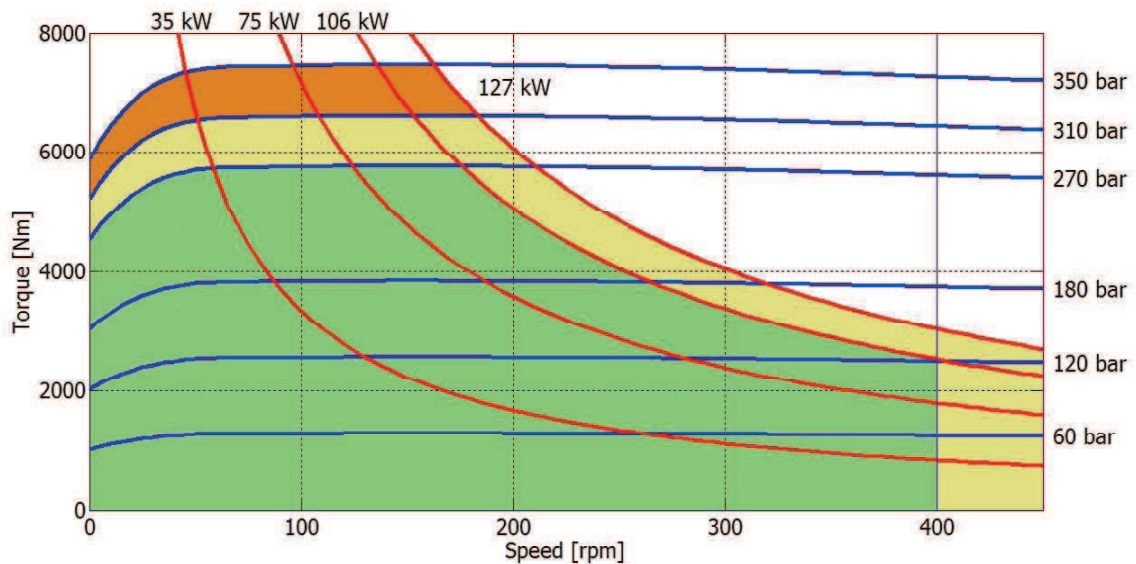
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3085 cc - WITHOUT FLUSHING



1470 cc - WITHOUT FLUSHING

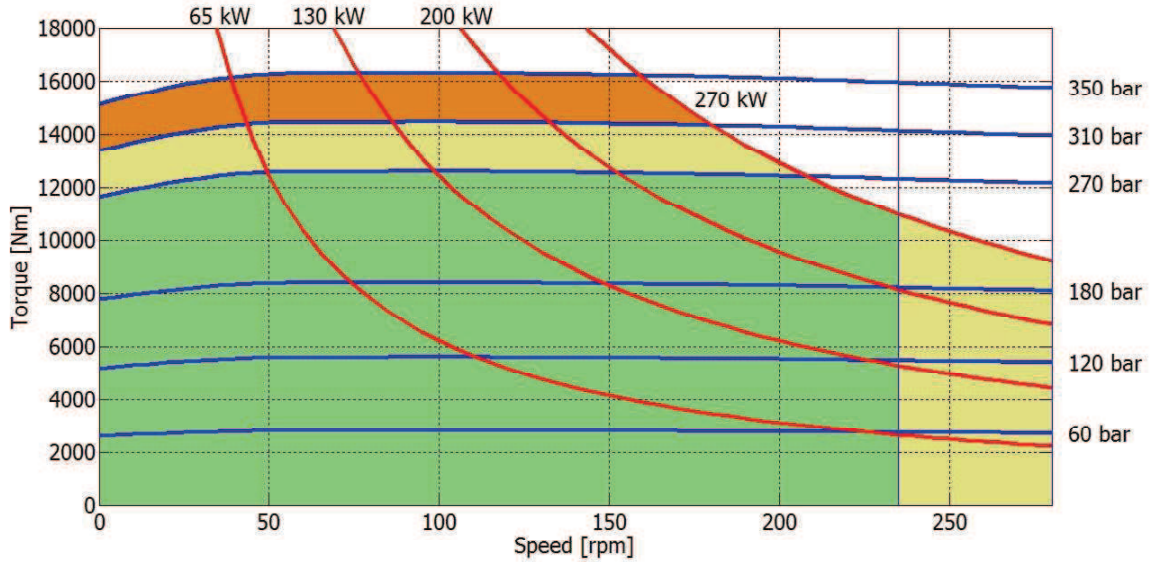


- Continuous operation
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period.
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes).

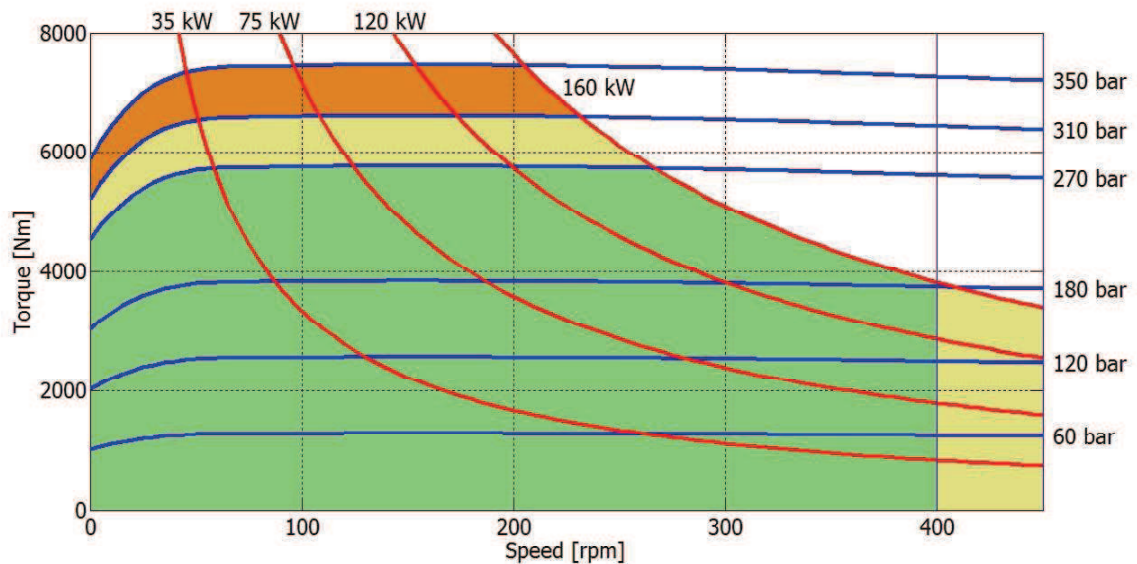
The above diagrams are referring to the hydraulic motor working with a fluid in ideal conditions (viscosity at 40 cSt). In case the working temperature increases and viscosity reach values under the recommended values (see hydraulic fluid recommendations) flushing must be performed or ISO oil grade must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

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3085 cc - WITH FLUSHING



1470 cc - WITH FLUSHING

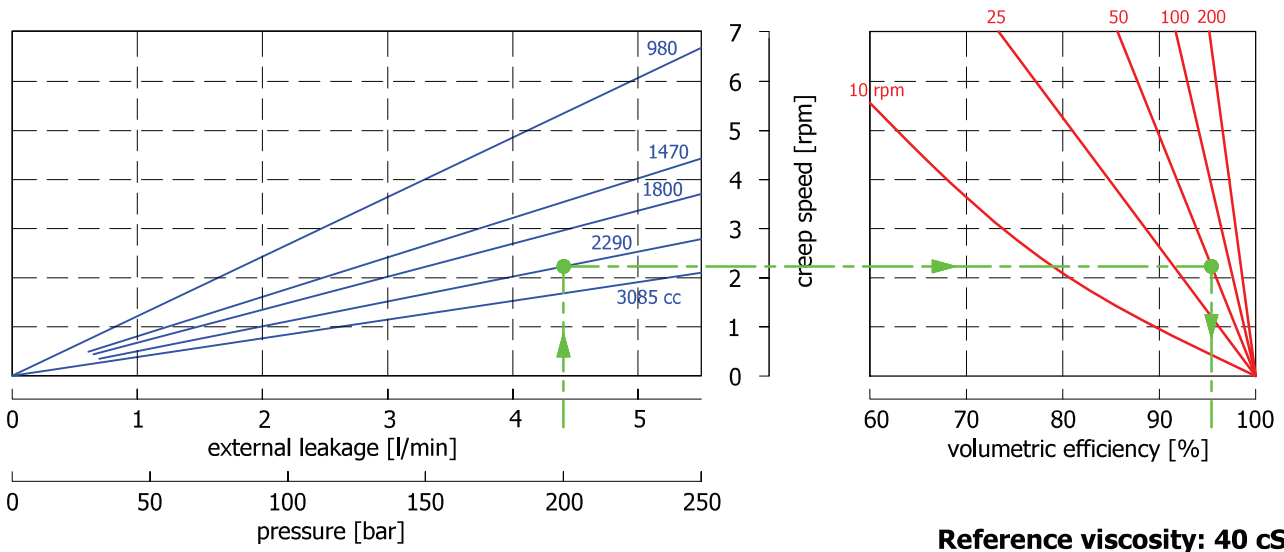


- Continuous operation
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period.
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes).

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 optimized or ISO oil grade must be changed. The working temperature must not overcome 70 °C.

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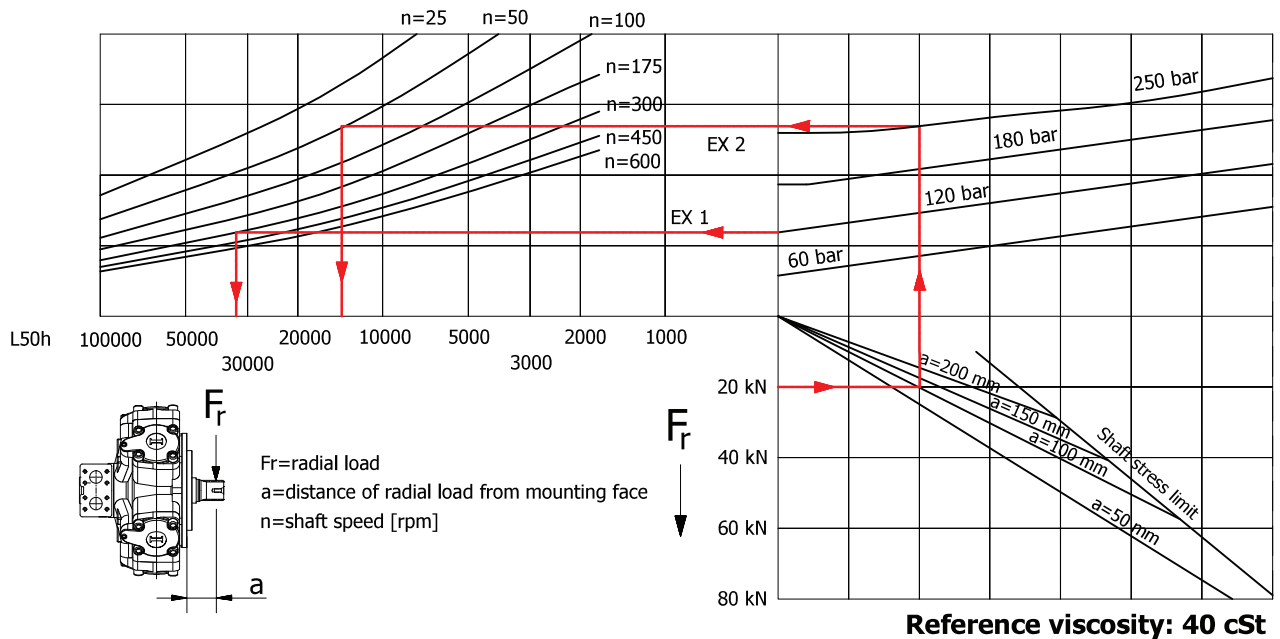
CREEP SPEED - VOLUMETRIC EFFICIENCY



Example:

We suppose (2290 cc): $p=200$ [bar], we obtain: external leakage 4,3 [l/min], shaft creep speed 2,2 [rpm].
If we suppose (2290 cc): $p=200$ [bar] and $n=50$ [rpm] we obtain a volumetric efficiency of 96%;

BEARING LIFE



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 12000 [h].

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