
ITALGROUP SRL
IAC SERIES - IAC H4
GENERAL CATALOGUE

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IAC 800 H4

Displacement (*)	[cc]	792	660	575	493	410
Th. specific torque	[Nm/bar]	12,6	10,5	9,2	7,8	6,5
Continuous speed	[rpm]	450	550	620	650	650
Peak speed	[rpm]	550	700	720	750	800
Minimum speed	[rpm]	2	2	2	2	2
Mechanical efficiency	[%]	90,8	90,4	88,5	88	87,4
Starting efficiency	[%]	84,8	84,4	82,6	79	75
Continuous power (**)	[kW]	105	92	82	70	54
Cont. power with flushing	[kW]	125	110	98	84	65
Continuous pressure	[bar]	270	270	270	270	270
Intermittent pressure	[bar]	310	310	310	310	310
Peak pressure	[bar]	350	350	350	350	350
Flushing flow	[l/min]	10	10	10	10	10
Dry weight	[kg]	92	92	92	92	92

Displacement (*)	[cc]	328	273	245	165
Th. specific torque	[Nm/bar]	5,2	4,3	3,9	2,6
Continuous speed	[rpm]	700	700	700	700
Peak speed	[rpm]	800	850	850	900
Minimum speed	[rpm]	2	2	3	3
Mechanical efficiency	[%]	84,5	82,4	82	60,2
Starting efficiency	[%]	70,2	68,3	60,8	43,3
Continuous power (**)	[kW]	54	42	40	18
Cont. power with flushing	[kW]	65	50	48	24
Continuous pressure	[bar]	250	250	250	250
Intermittent pressure	[bar]	310	310	310	310
Peak pressure	[bar]	350	350	350	350
Flushing flow	[l/min]	10	10	10	10
Dry weight	[kg]	92	92	92	92

(*) Different displacements can be available on request. Please contact Italgroup S.r.l. 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 100 kW and starting efficiency is 90.8%, estimated required power is $100/0.908 = 110,1$ kW.

Hydrostatic pressure test: 420 bar.

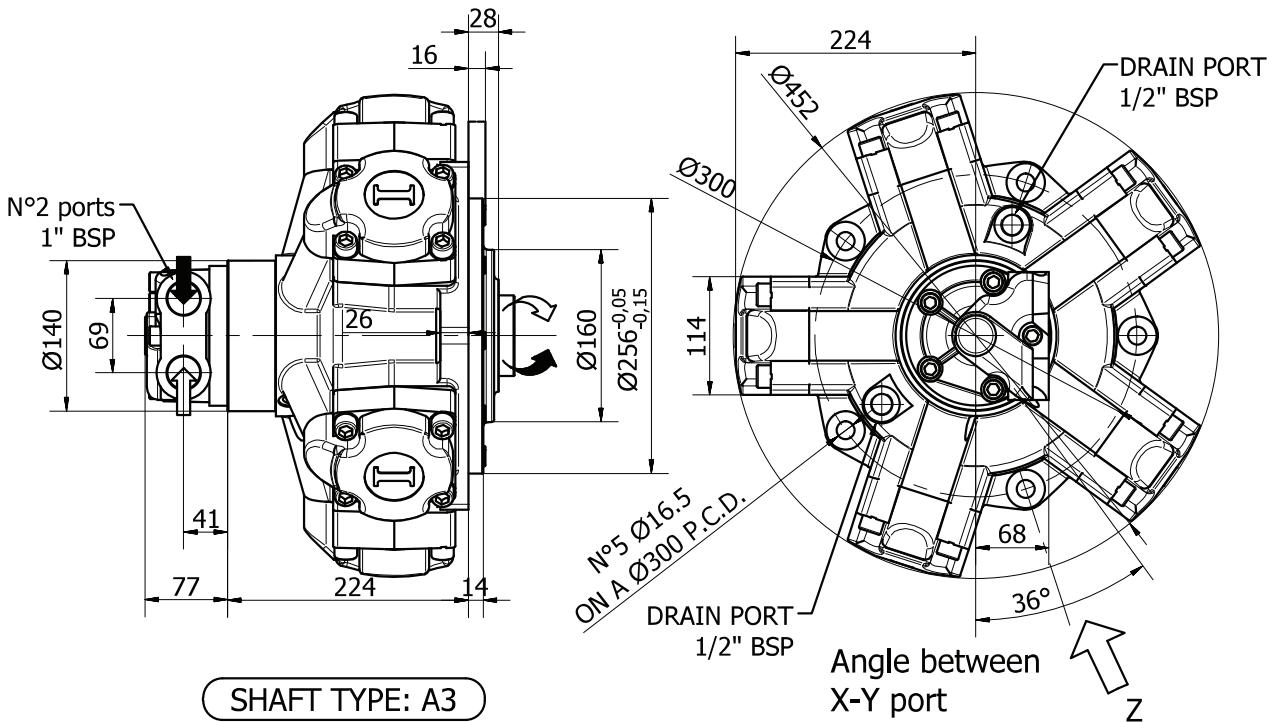
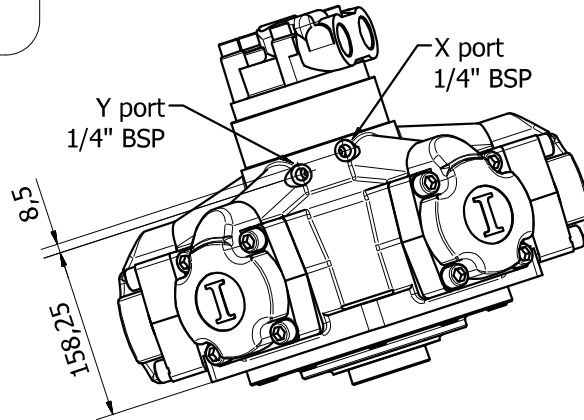
Temperature range: -30 / 70 °C.

IAC 800 H4 - INSTALLATION DRAWING

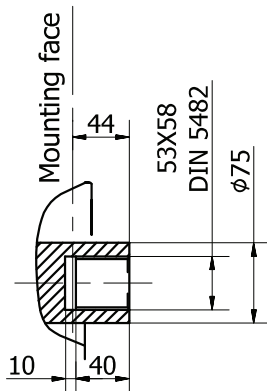
XY DISPLACEMENT CHANGE CONFIGURATION

X - minimum displacement
Y - maximum displacement

VIEW FROM Z



SHAFT TYPE: A3

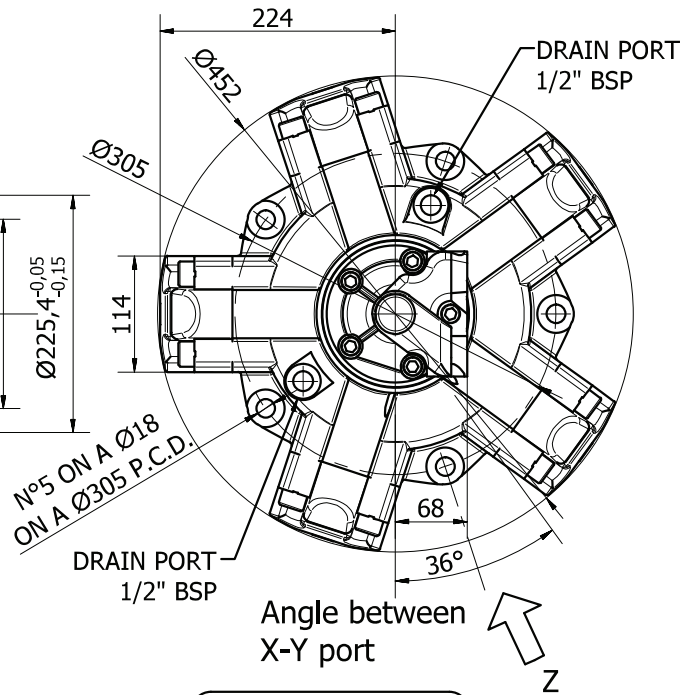
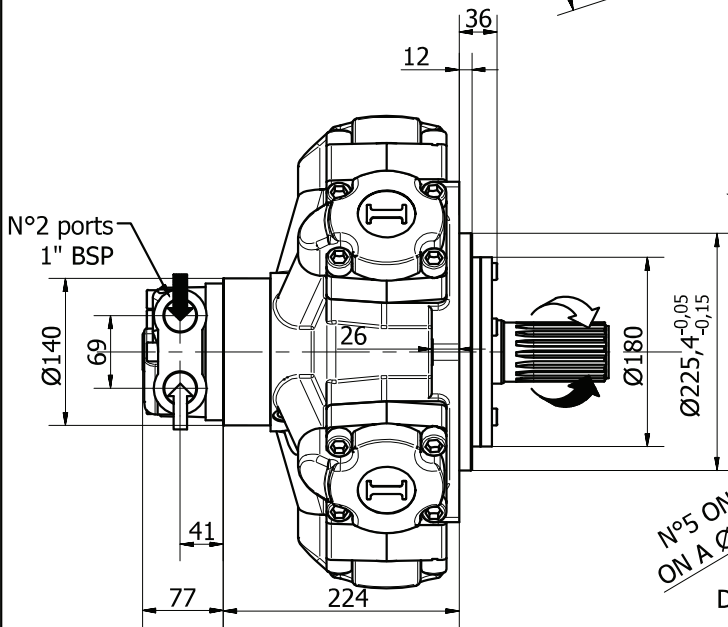
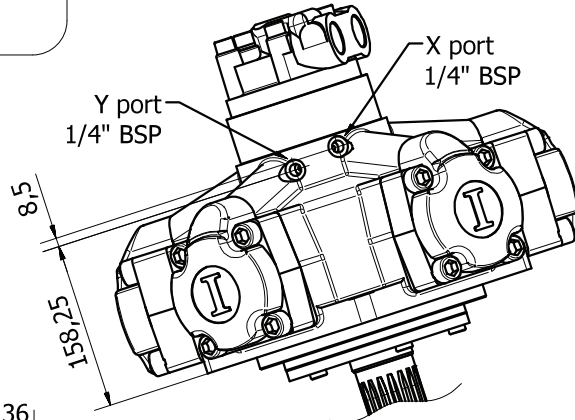


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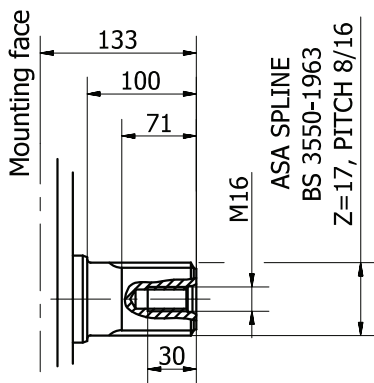
XY DISPLACEMENT CHANGE CONFIGURATION

X - minimum displacement
Y - maximum displacement

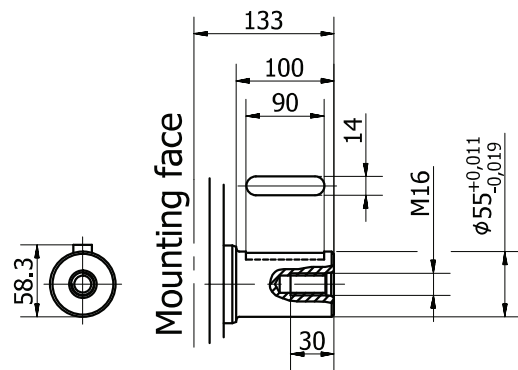
VIEW FROM Z



SHAFT TYPE: A1



SHAFT TYPE: A2

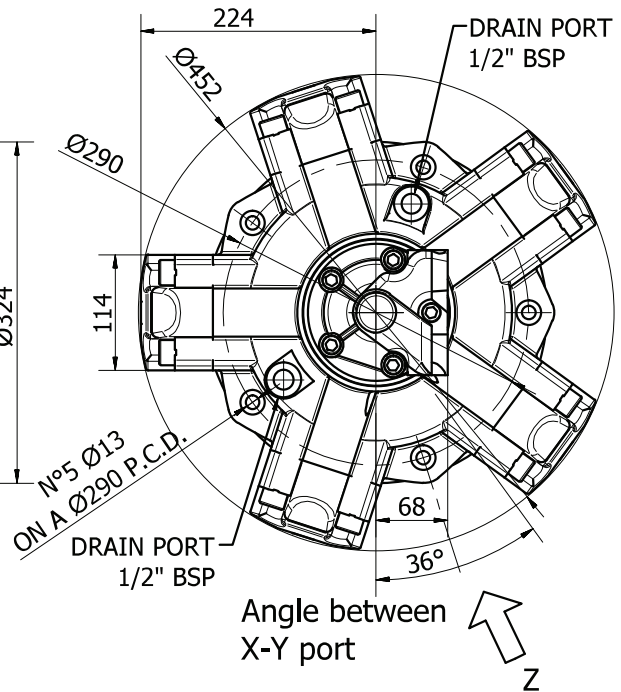
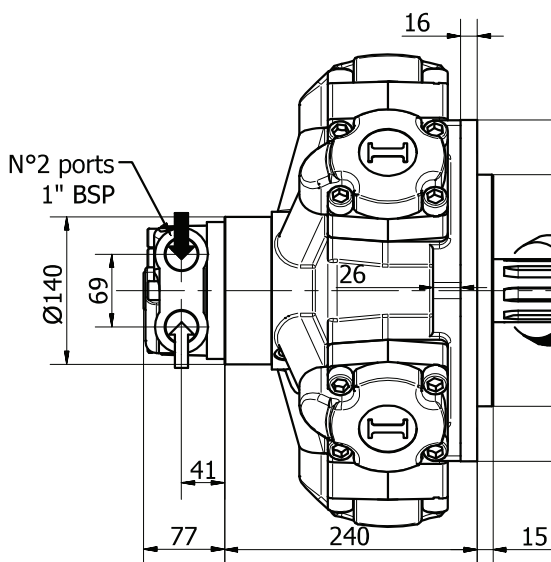
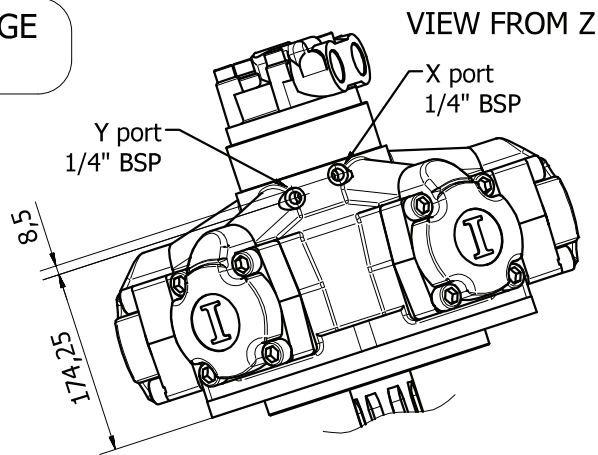


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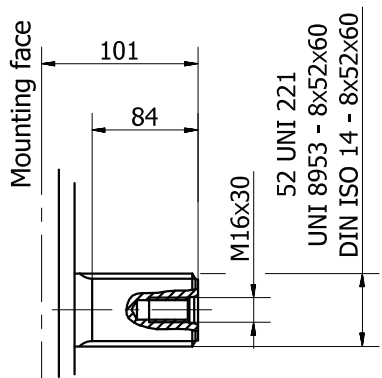
IAC 800/C H4 - INSTALLATION DRAWING

XY DISPLACEMENT CHANGE CONFIGURATION

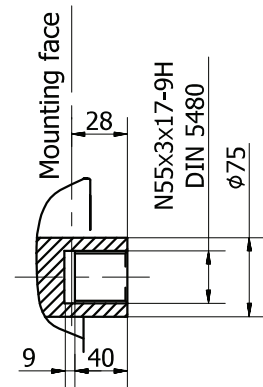
X - minimum displacement
Y - maximum displacement



SHAFT TYPE: A0



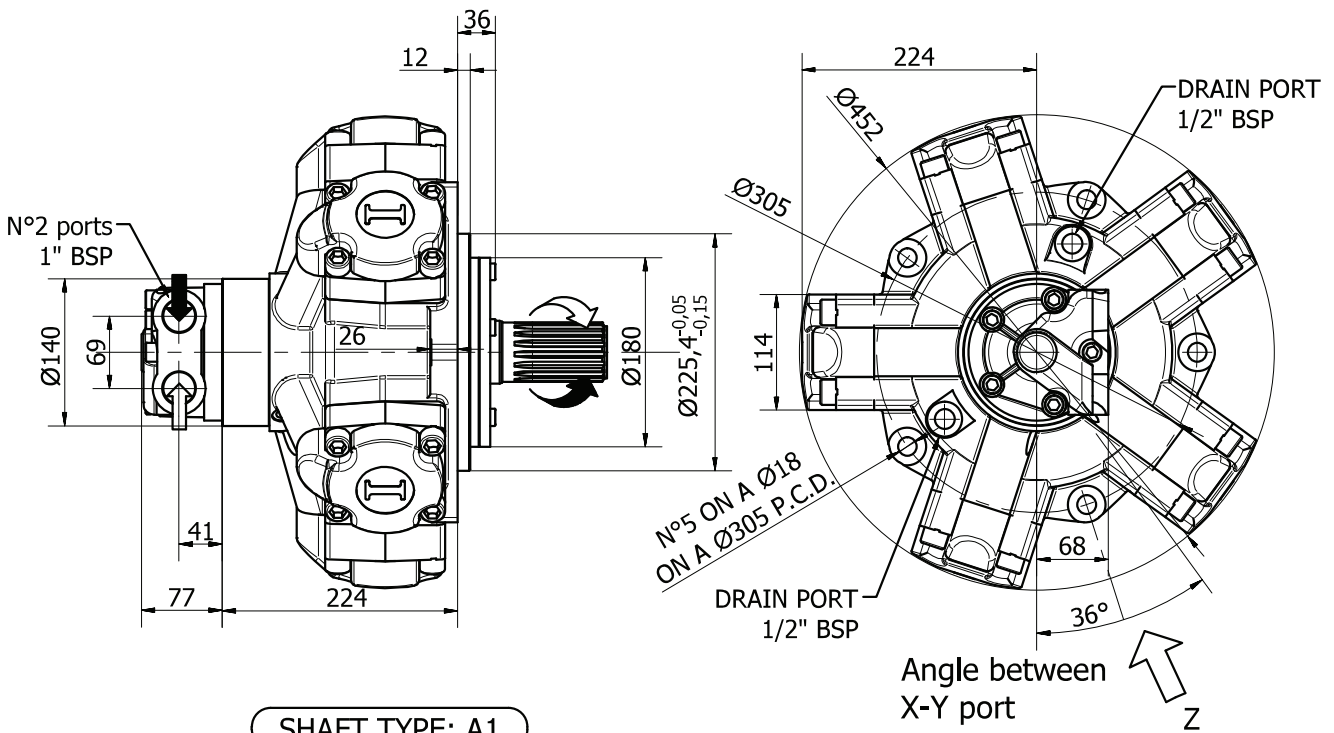
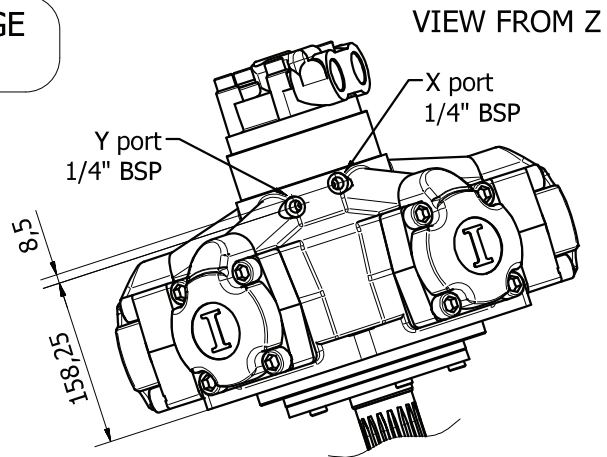
SHAFT TYPE: A3



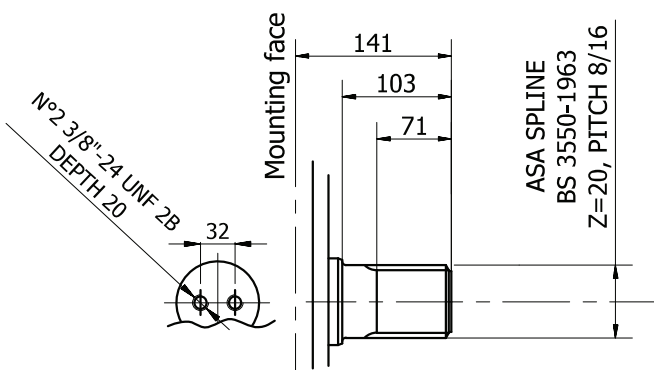
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XY DISPLACEMENT CHANGE CONFIGURATION

X - minimum displacement
 Y - maximum displacement



SHAFT TYPE: A1

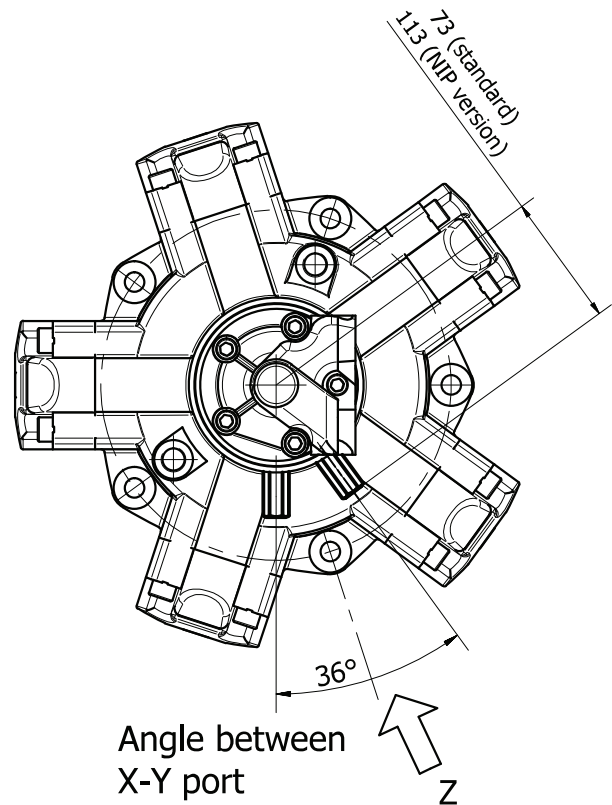
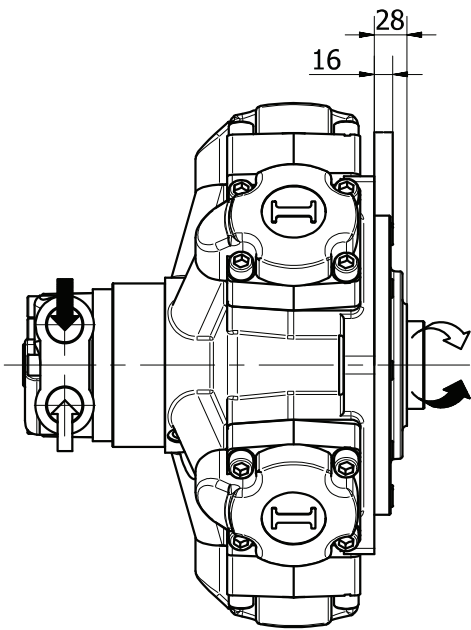
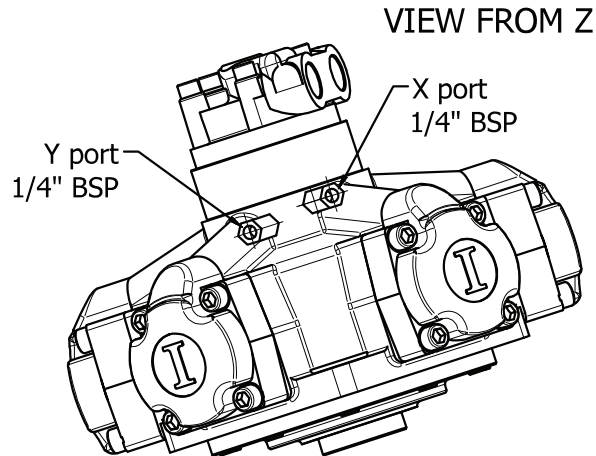


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IAC 800 H4 - NIP OPTION

XY DISPLACEMENT CHANGE CONFIGURATION

X - minimum displacement
Y - maximum displacement

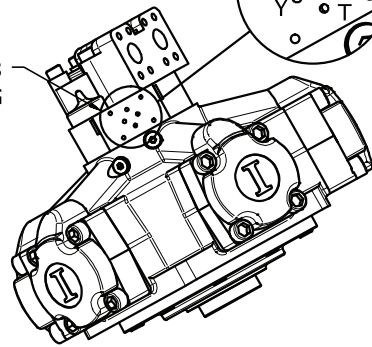
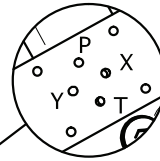


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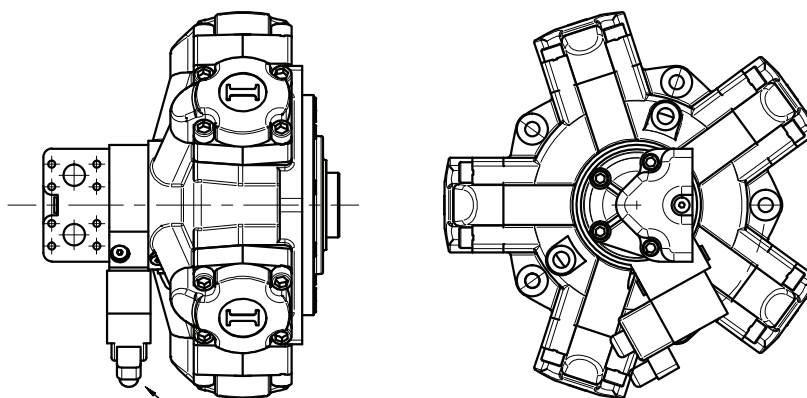
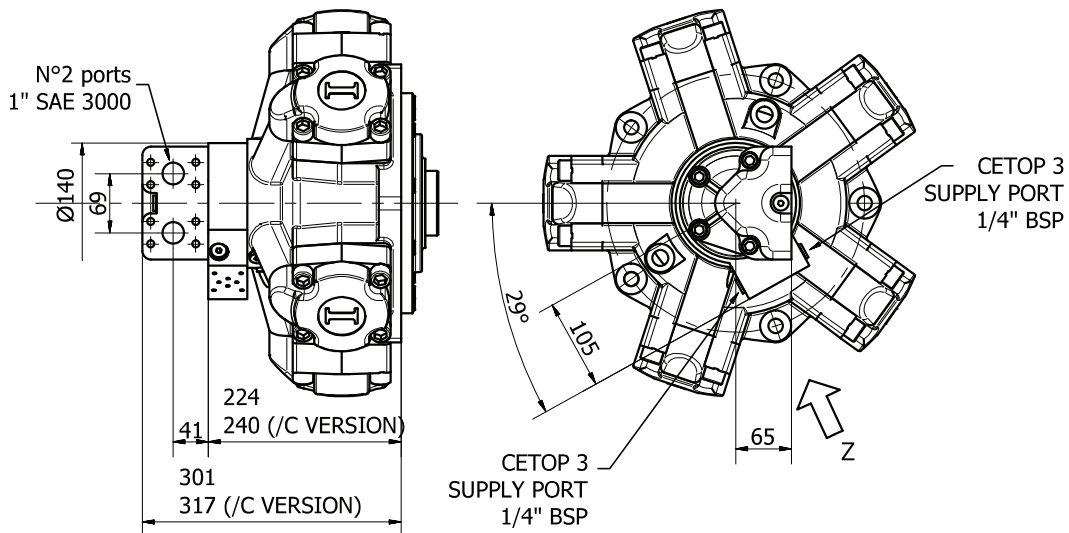
CETOP 3 DISPLACEMENT CHANGE CONFIGURATION

VIEW FROM Z

CETOP 3
FITTING



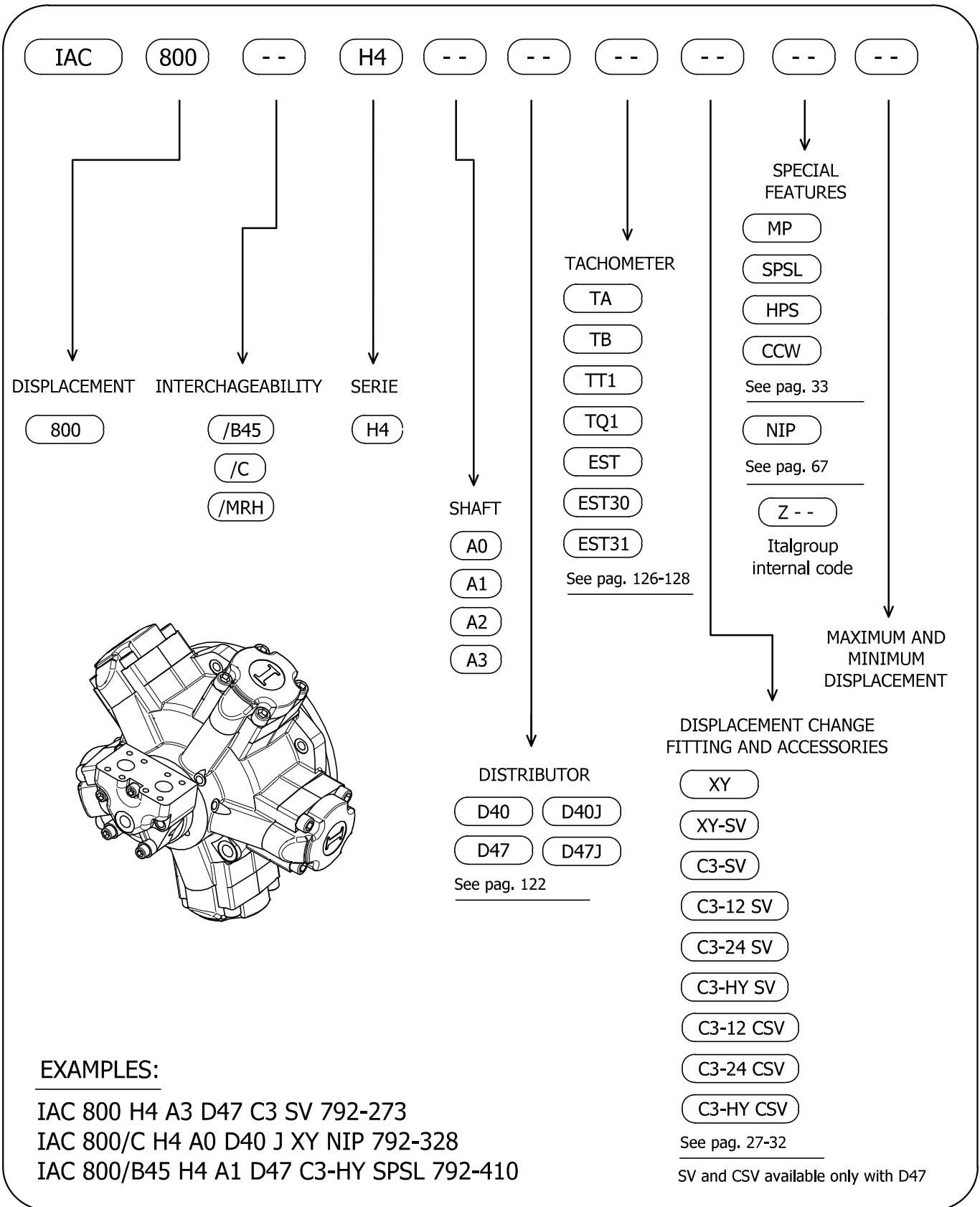
X - minimum displacement
Y - maximum displacement



CETOP 3 DISPLACEMENT
CHANGE
VALVE

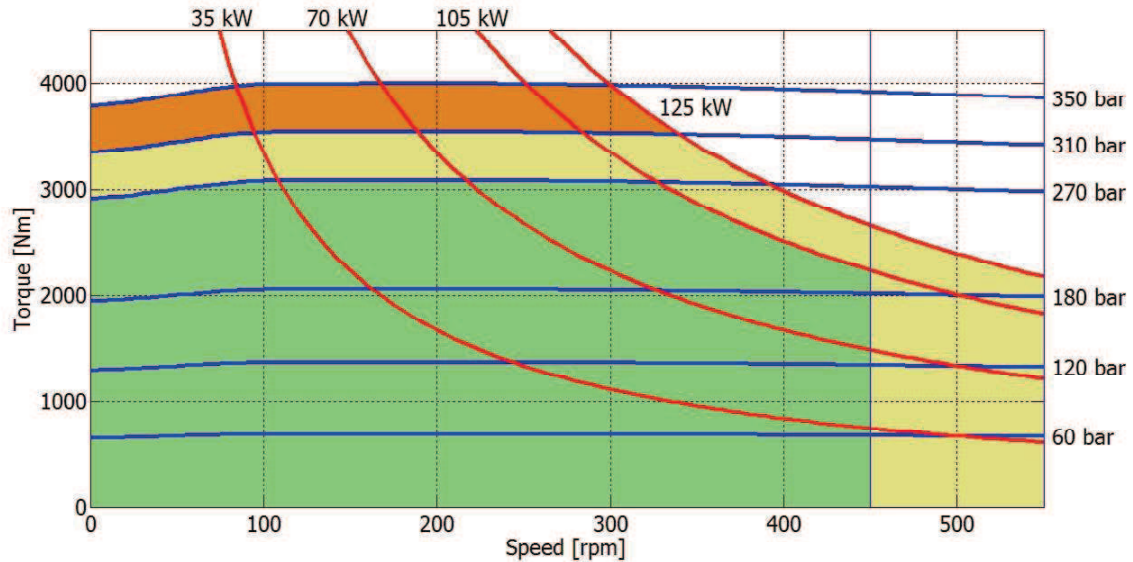
- C3 - 12 SV (12V DC)
- C3 - 24 SV (24V DC)
- C3 - HY SV (HYDRAULIC OPERATED)

IAC 800 H4 - ORDERING CODE

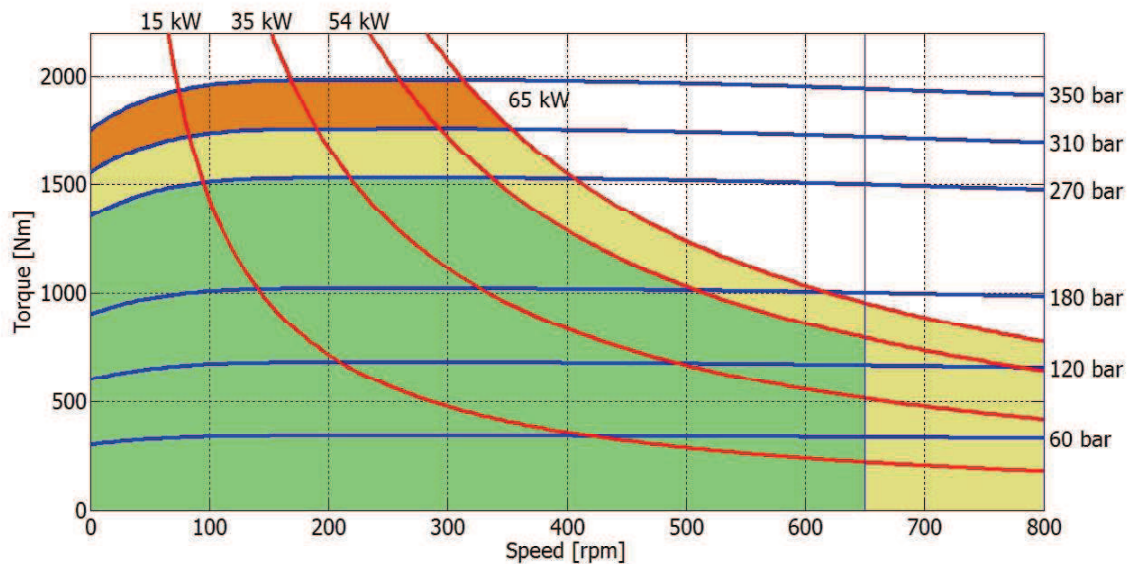


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792 cc - WITHOUT FLUSHING



410 cc - WITHOUT FLUSHING

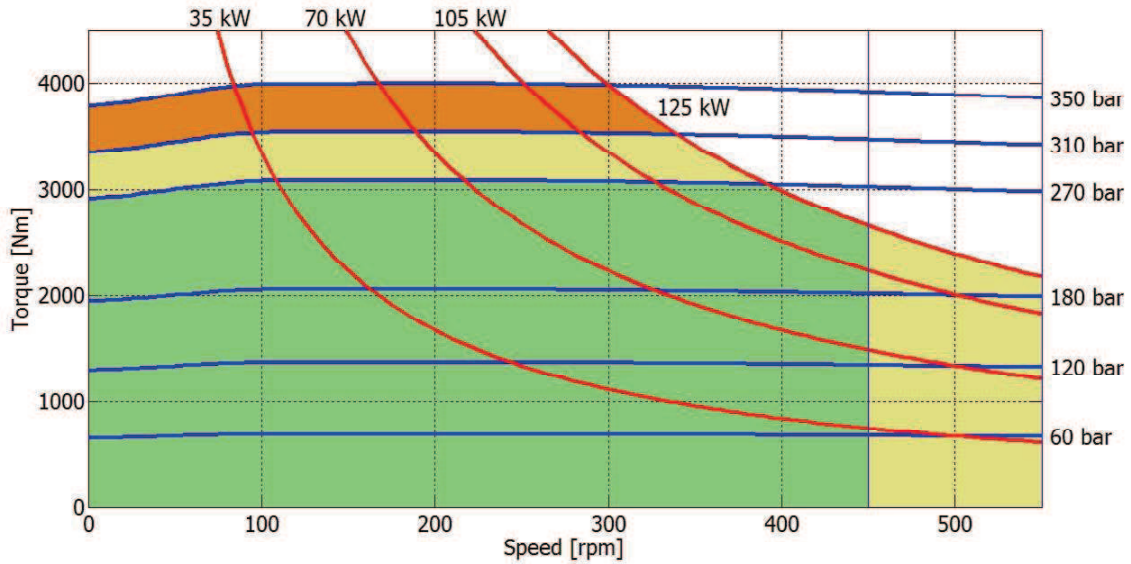


- Continuous operation
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period.
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes).

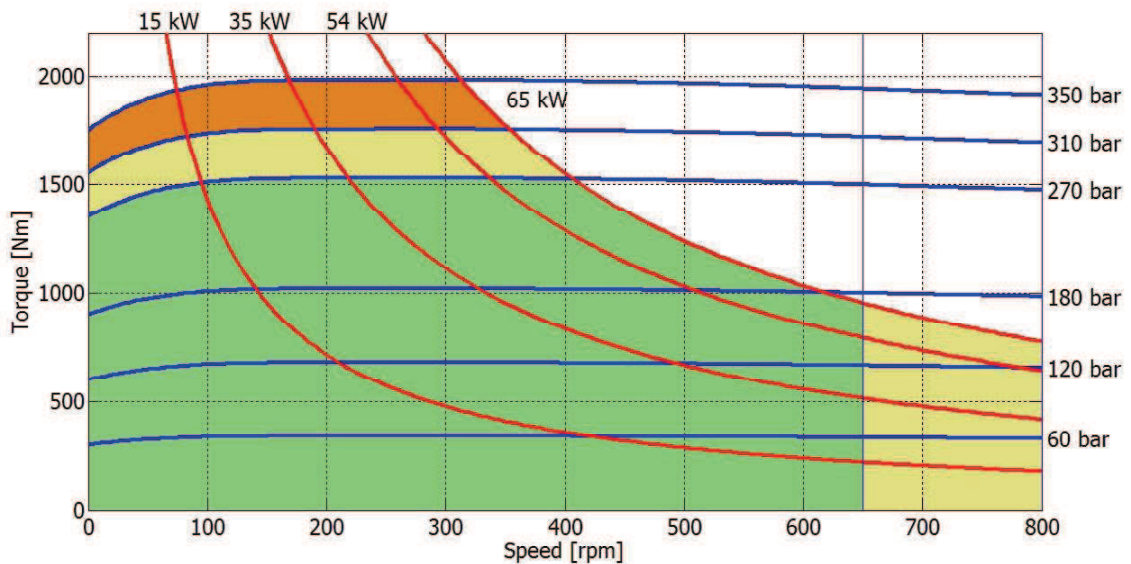
The above diagrams are referring to the hydraulic motor working with a fluid in ideal conditions (viscosity at 40 cSt). In case the working temperature increases and viscosity reach values under the recommended values (see hydraulic fluid recommendations) flushing must be performed or ISO oil grade must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

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792 cc - WITH FLUSHING



410 cc - WITH FLUSHING

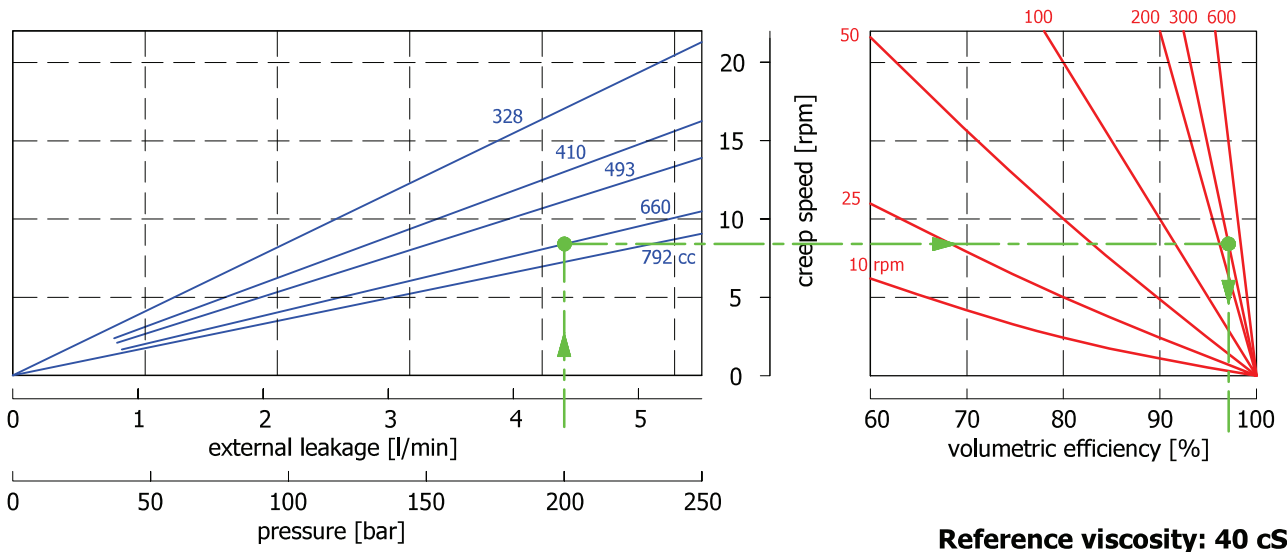


- Continuous operation
- Intermittent operation: permitted for a 15% of duty cycle, for 3 minutes maximum period.
- Peak operation: permitted for very short periods (3-5 seconds every 10-15 minutes).

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

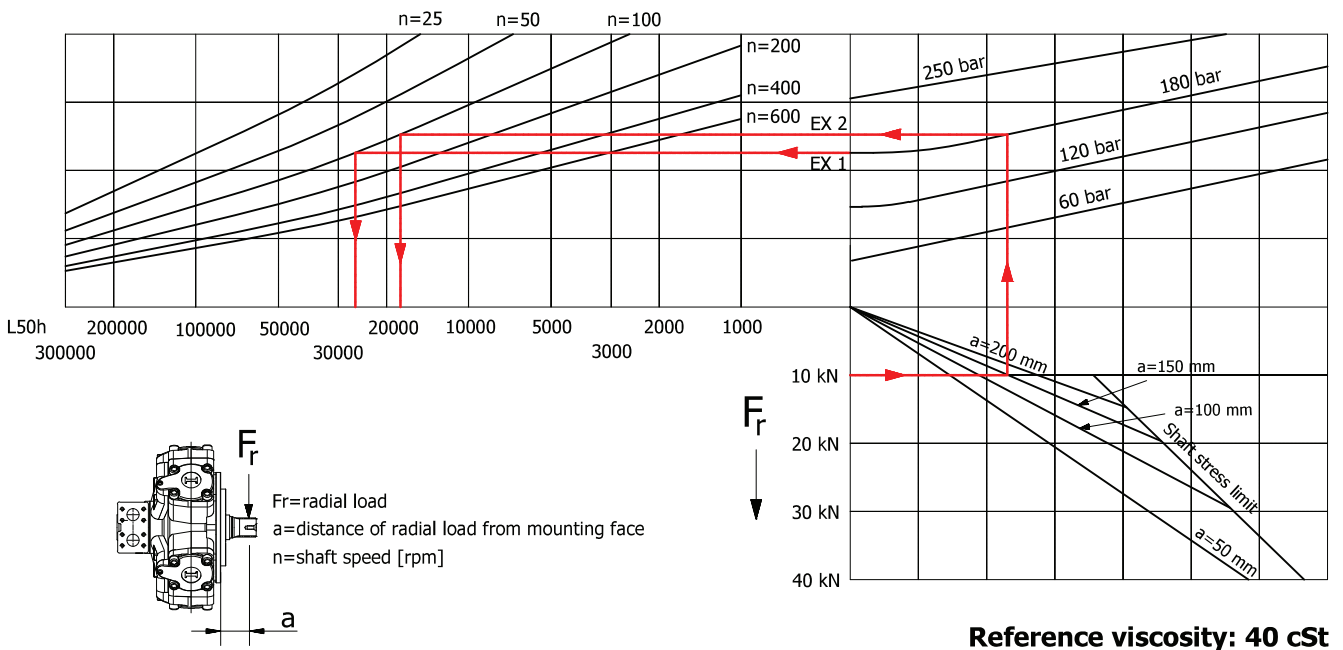


Example:

We suppose (660 cc): $p=200$ [bar], we obtain: external leakage 4,3 [l/min], shaft creep speed 8 [rpm].

If we suppose (660 cc): $p=200$ [bar] and $n=300$ [rpm] we obtain a volumetric efficiency of 97%;

BEARING LIFE



Example:

We suppose (EX1): $p=180$ [bar], $n=100$ [rpm]; we obtain an average lifetime of 33000 [h].

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