

ORBIT HYDRAULIC SYSTEM

Mobile : 9998789116
Mobile : 8000000816

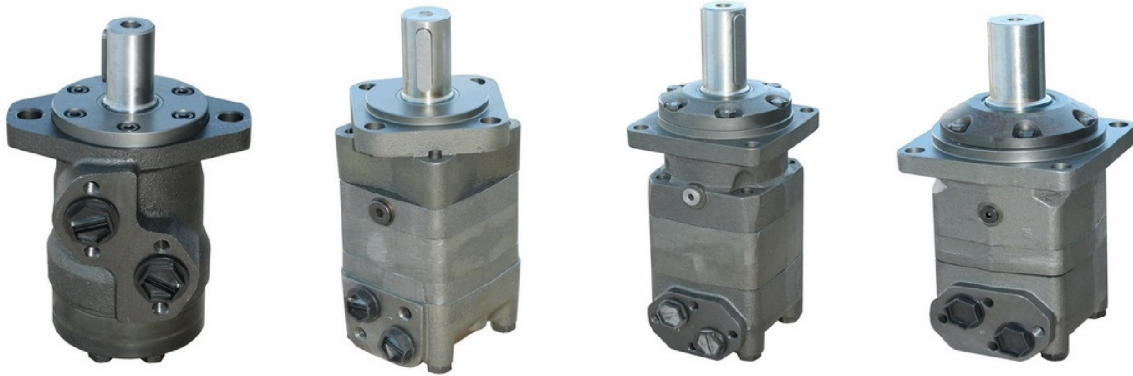
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Web : www.orbithydraulic.com

ORBIT Hydraulic Products Range Of Hydraulic Motors,
Pumps, Valves, Power Packs, Mobile Control Valves

ORBIT

ORBIT make Hydraulic Motors of OHM OHP OHR OHH
OHS OHT OHV Manufacturers & Suppliers in India



ORBIT HYDRAULIC MOTORS



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OHR SERIES

INTRODUCTION

This series of motor, with its shell made of ductile cast iron of adequate intensity, can be applied to situations with less load and interval operations, widely to agriculture, forestry, plastics, machine tools and min machines, such as the mould height adjustment of the injection, molding machine, the cleaner, the saw the worktable etc.



CHARACTERISTICS

1. The output shaft, with the deep groove ball bearing, can bear certain axial force and radial force
2. With the axial oil distribution, structure, it is of smaller size and less weight.
3. With two inner check valves, no drain connection.
4. With cycloid group with the roller, it has a small friction and high mechanical efficiency.

APPLICATION

- Conveyors
- Metal working machines
- Textile machines
- Feeding mechanism of robots and manipulators
- Machines for agriculture
- Food industries
- Grass cutting machinery etc.

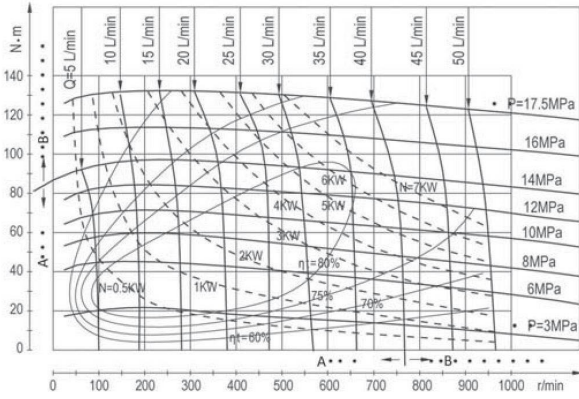
SPECIFICATION DATA

TYPE	OHR-50	OHR-80	OHR-100	OHR-125	OHR-160	OHR-200	OHR-250	OHR-315	OHR-400
Displacement (ml/r)	51.7	80.5	100.5	126.3	160.8	200.9	252.6	321.5	401.9
Max.Pressure.Drop (Mpa)	cont.	14	14	14	14	14	11	9	7
	int.	17.5	17.5	17.5	17.5	17.5	14	11	9
	peak.	20	20	20	20	20	16	13	11
Max torque (Nim)	cont.	93	152	194	237	310	369	380	380
	int.	118	189	236	296	378	450	470	470
	peak	135	216	270	338	433	509	540	540
Speed.Range(cont.)(r/min)	10-775	10-750	10-600	9-475	7-375	5-300	5-240	5-190	5-160
Max.Flow(cont.)(L/min)	40	60	60	60	60	60	60	60	60
Max.Output.Power(cont.)(Kw)	7	10	10	10	10	8	6	5	4
Weight (kg.)	6.5	6.9	7.0	7.3	7.5	8.0	8.5	9.0	11

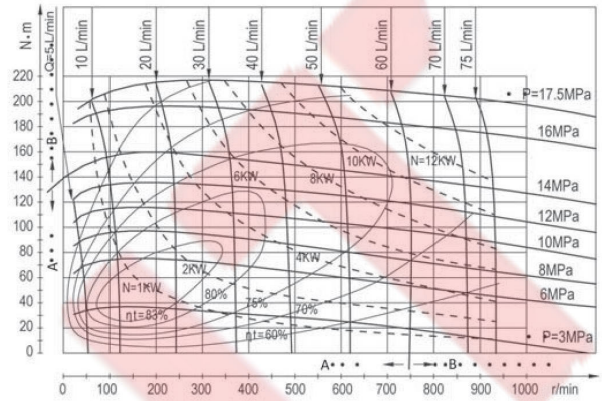
Intermittent operation the permissible values may occur for max. 10% of every minute
Peak, load: the permissible values may occur for max. 1% of every minute.

FUNCTION DIAGRAMS

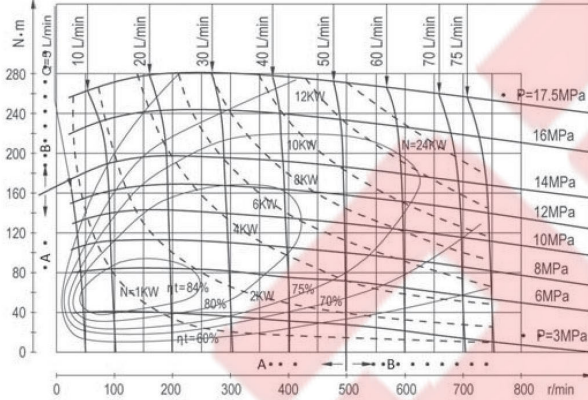
OHR - 50



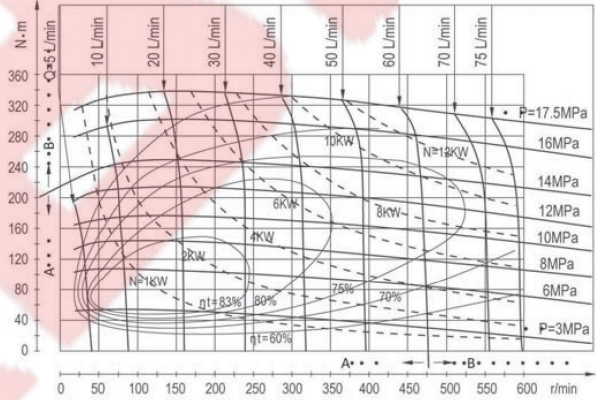
OHR - 80



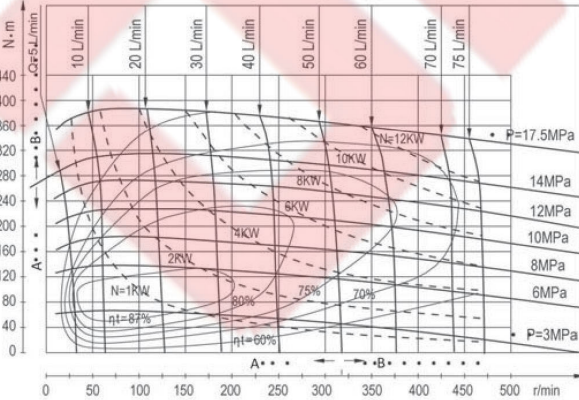
OHR - 100



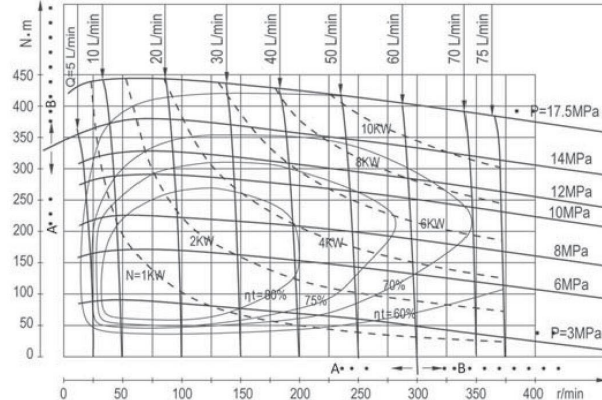
OHR - 125



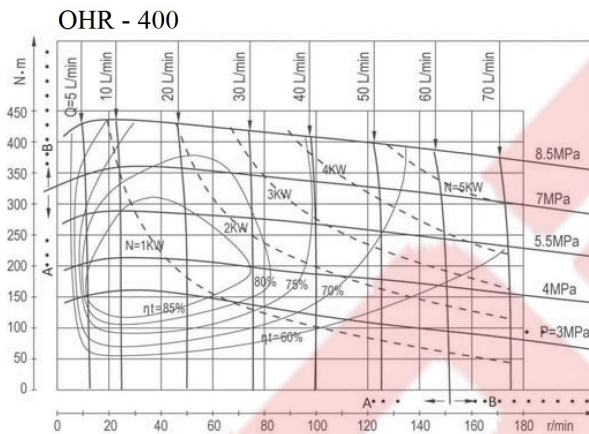
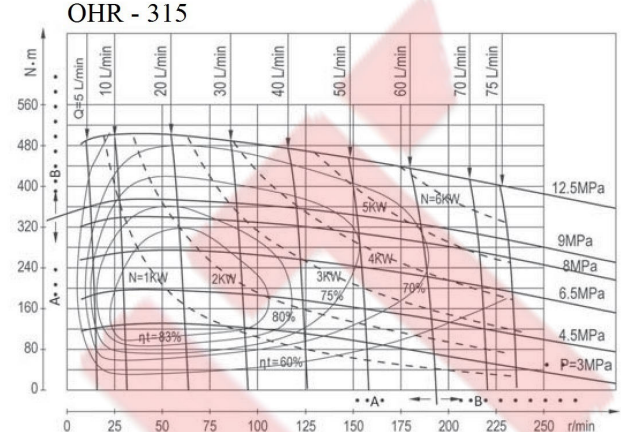
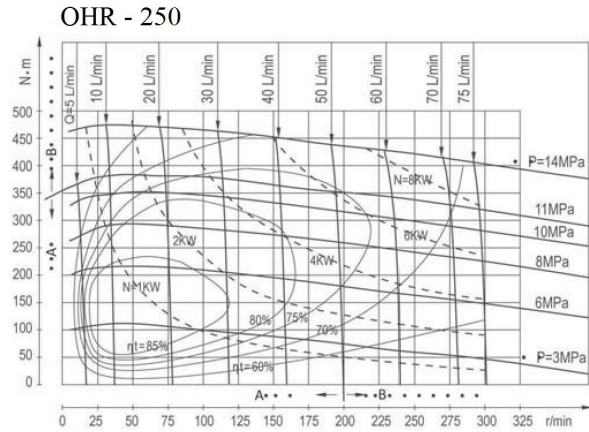
OHR - 160



OHR - 200

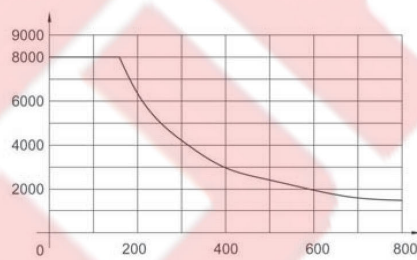


FUNCTION DIAGRAMS

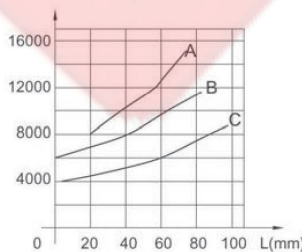
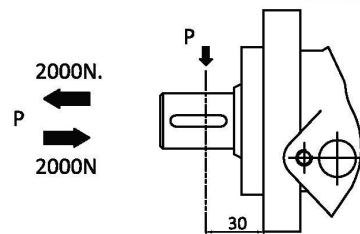


PERMISSIBLE SHAFT LOADS

OHR Series Hydraulic Motors

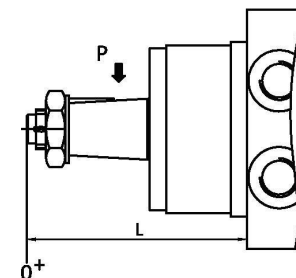


OHR Motors



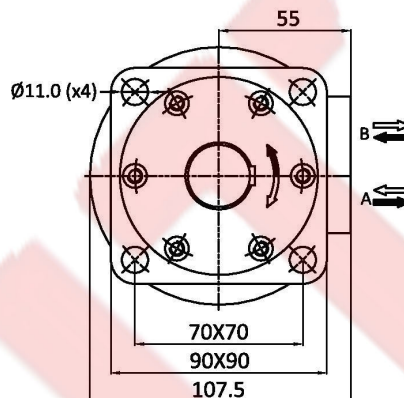
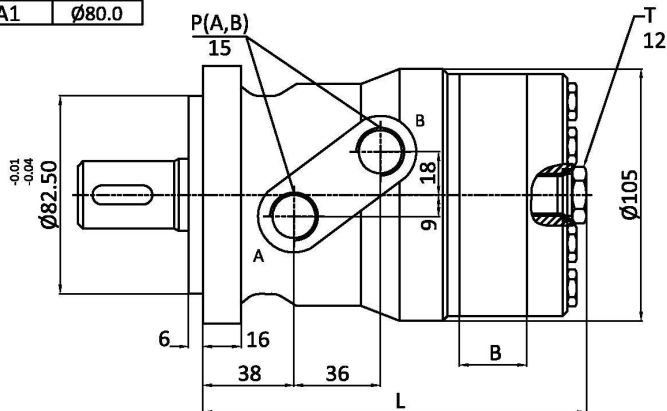
OHR - MOTORS

- A: n = 50 r/min
- B: n = 200 r/min
- C: n = 800 r/min



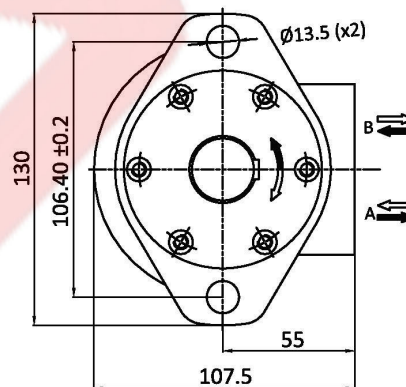
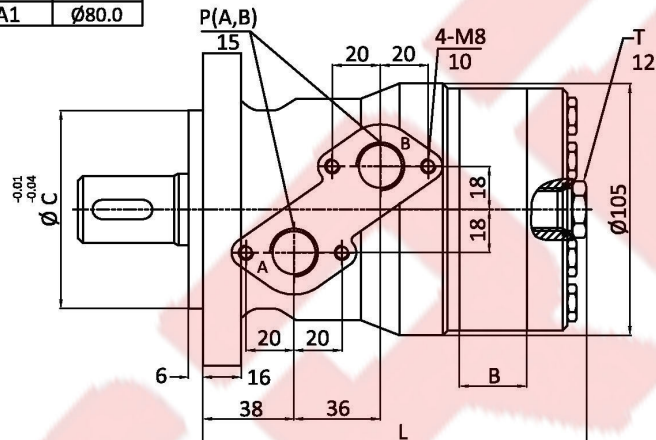
Version Square flange

Flange	∅ C
A	∅82.5
A1	∅80.0

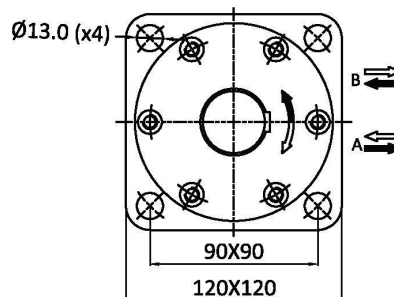
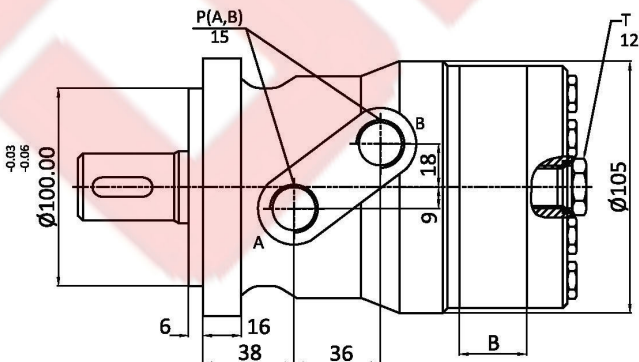


A II, A1 II Version 2-hole oval flange

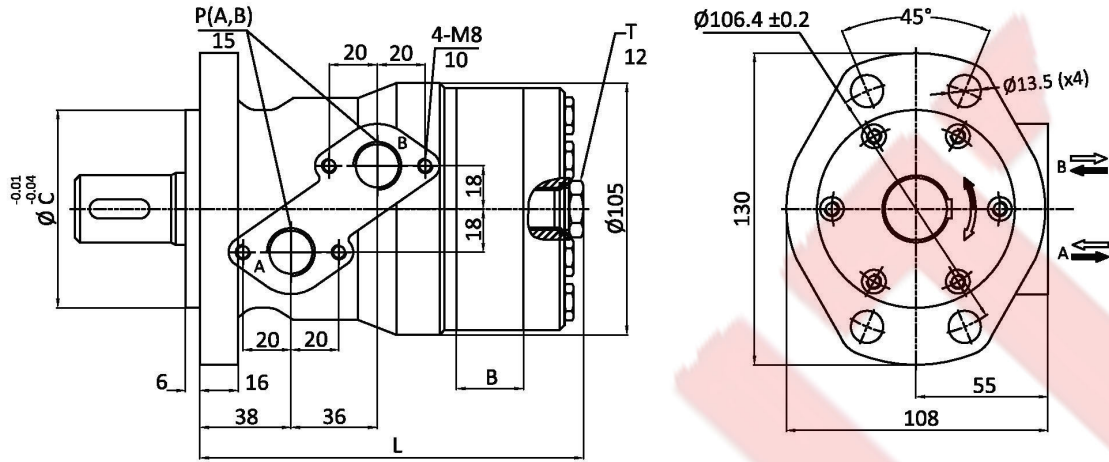
Flange	∅ C
A	∅82.5
A1	∅80.0



A2 III Version Square flange



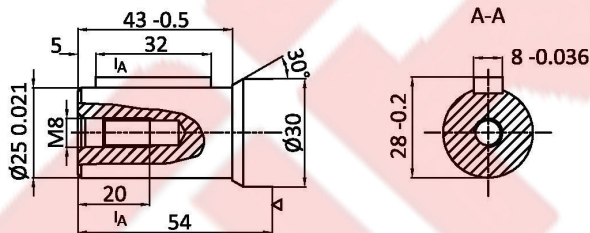
Version 4-hole oval flange



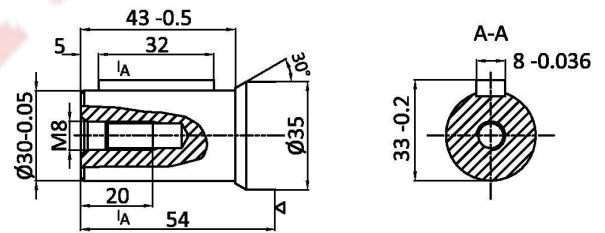
TYPE	OHR-50	OHR-80	OHR-100	OHR-125	OHR-160	OHR-200	OHR-250	OHR-315	OHR-400
L	141	146	150	154	160	167	176	188	202
B	9	14	17.5	22	28	35	44	56	70

SHAFT VERSION

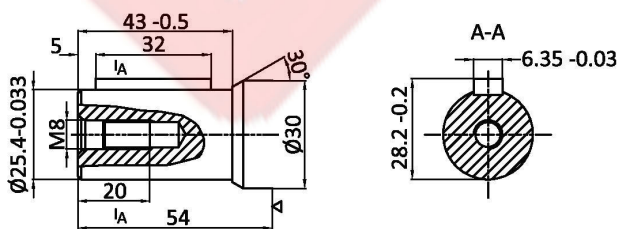
P1: $\varnothing 25, 8 \times 7 \times 32$
 $\varnothing 25$ Cylindrical shaft, parallel key $8 \times 7 \times 32$



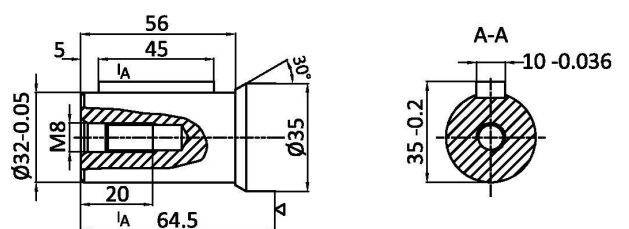
P2: $\varnothing 30, 8 \times 7 \times 32$
 $\varnothing 30$ Cylindrical shaft, parallel key $8 \times 7 \times 32$



P3: $\varnothing 25.4, 6.35 \times 6.35 \times 32$
 $\varnothing 25.4$ Cylindrical shaft, parallel key $6.35 \times 6.35 \times 32$

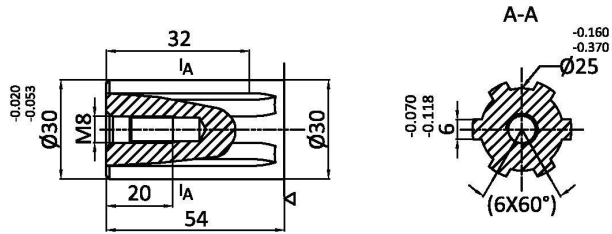


P5: $\varnothing 32, 10 \times 8 \times 45$
 $\varnothing 32$ Cylindrical shaft, parallel key $10 \times 8 \times 45$

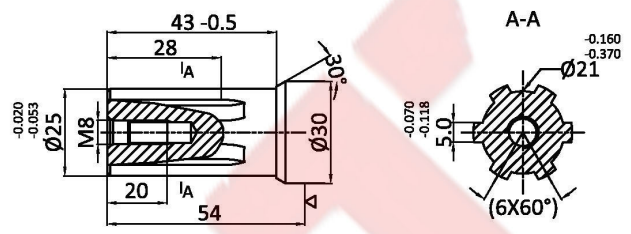


SHAFT VERSION

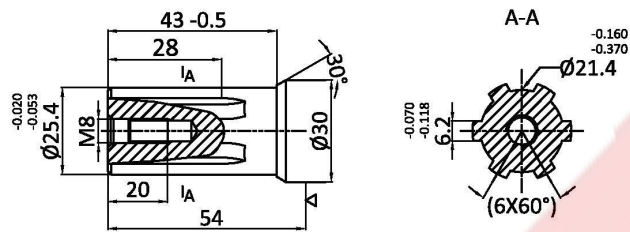
H1: $\varnothing 30$, 6-30X25X6
 $\varnothing 30$ Splined shaft, 6-30X25X6



H2: $\varnothing 25$, 6-25X21X5
 $\varnothing 25$ Splined shaft, 6-25X21X5



H3: $\varnothing 25.4$, 6-25.4X21.4X6.2
 $\varnothing 25.4$ Splined shaft, 6-25.4X21.4X6.2



ORDERING CODE

	1	2	3	4
OHR	-			

1 Displacement

50, 80, 100, 125, 160, 200, 250, 315, 400

2 Shaft

P1	$\varnothing 25$, 8X7X32
P2	$\varnothing 30$, 8X7X32
P3	$\varnothing 25.4$, 6.35X6.35X32
P5	$\varnothing 32$, 10X8X45
H1	$\varnothing 30$, 6-30X25X6
H2	$\varnothing 25$, 6-25X21X5
H3	$\varnothing 25.4$, 6-25.4X21.4X6.2

3 Mounting Flange

A	4- $\varnothing 11$, $\varnothing 82.5$
A1	4- $\varnothing 11$, $\varnothing 80$
All	2- $\varnothing 13.5$, $\varnothing 82.5$
A1II	2- $\varnothing 13.5$, $\varnothing 80$
A2III	4- $\varnothing 13$, $\varnothing 100$
A IV	4- $\varnothing 13.5$, $\varnothing 82.5$

4 Ports

	P (A,B)	T
Y	G1/2	M14X1.5
Y1	M18X1.5	M14X1.5
Y2	M22X1.5	M14X1.5
Y5	7/8-14 UNF	M14X1.5
Y8	NPT 1/2	M14X1.5

Calculation

$$\text{Flow lpm} = \frac{\text{Displ (cc/rev)} \times \text{speed (rpm)}}{1000}$$

$$\text{Torque [Nm]} = \frac{\text{Displ (cc/rev)} \times \text{Pr. (Bar or Kg/cm}^2\text{)}}{62.8}$$

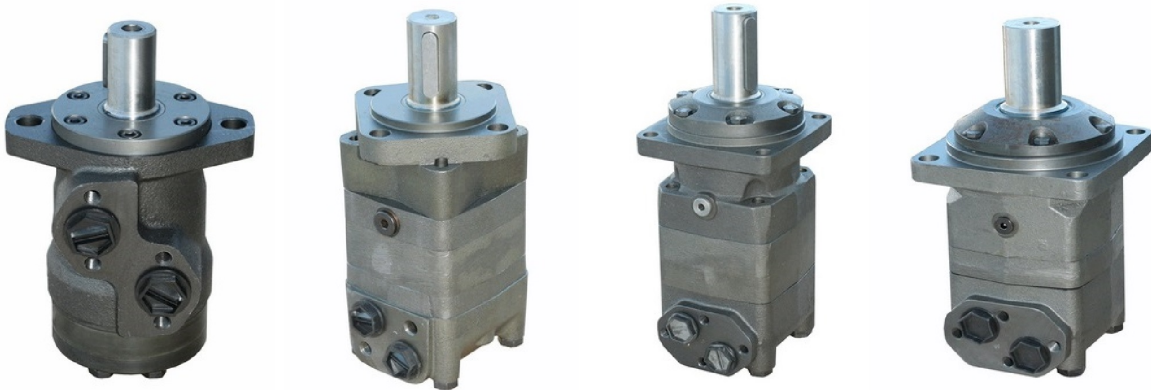
Newton meter - Nm

1daNm = 10 Nm

$$\text{Power (kW)} = \frac{\text{Torque Nm} \times \text{rpm}}{9549}$$

(Fluid motor)

Flow versus - rpm
Pressure versus - torque



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