

ORBIT HYDRAULIC SYSTEM

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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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OHP SERIES

INTRODUCTION

This series of motor are small volume, economical type, which is designed with Spool Valve, which adapt the gerotor gear set design and provide compact volume, high power and low weight.

CHARACTERISTICS

1. Advanced manufacturing devices for the Gerotor gear set, which provide small volume, high efficiency and long life.
2. Shaft seal can bear high pressure of motor of which can be used in parallel or in series.
3. Advanced construction design, high power and low weight.



APPLICATION

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

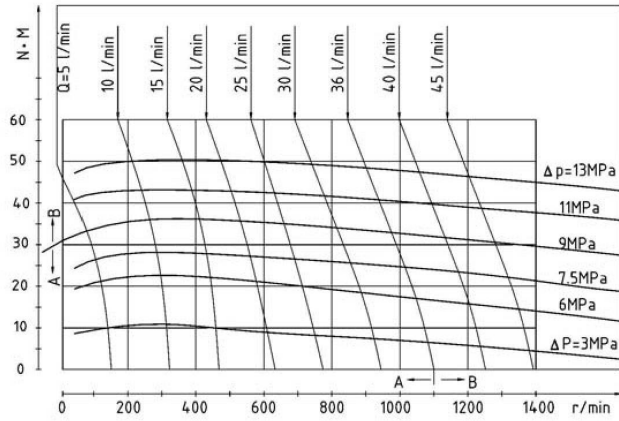
OHP SPECIFICATION DATA

TYPE	OHP-32	OHP-50	OHP-80	OHP-100	OHP-125	OHP-160	OHP-200	OHP-250	OHP-315	OHP-400
Displacement (ml/r)	32.1	52.9	79.3	98.2	120.9	158.7	196.4	241.8	317.3	392.9
Max.Pressure.Drop (Mpa)	cont.	9	14	14	14	14	14	11	9	7
	int.	14	17.5	17.5	17.5	17.5	17.5	14	11	9
	peak.	17	20	20	20	20	20	16	13	11
Max torque (Nim)	cont.	35	89	150	191	235	307	365	378	378
	int.	50	110	185	231	292	376	440	465	465
	peak	60	130	215	268	336	430	506	537	537
Speed.Range(cont.)(r/min)	15-1560	10-800	10-770	9-615	9-480	8-385	7-310	5-250	5-195	5-155
Max.Flow(cont.)(L/min)	40	40	60	60	60	60	60	60	60	60
Max.Output.Power(cont.)(Kw)	4.5	7	10	10	10	10	8	6	5	4
Weight (kg.)	5.6	5.6	5.7	5.9	6.0	6.2	6.4	6.6	6.9	7.4

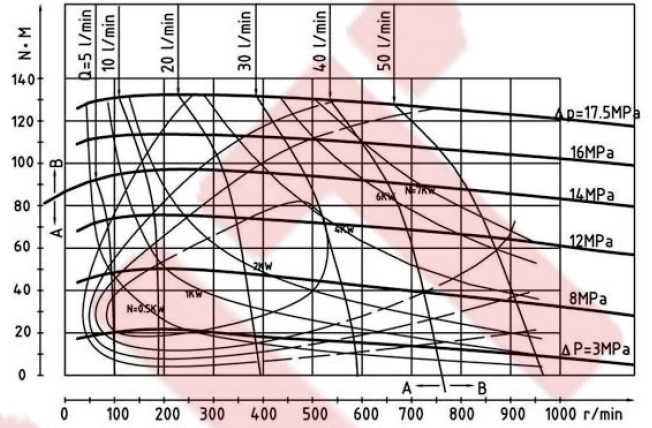
Intermittent operation the permissible values may occur for max. 10% of every minute
 Peak, load: the permissible values may occur for max. 1% of every minute.

FUNCTION DIAGRAMS

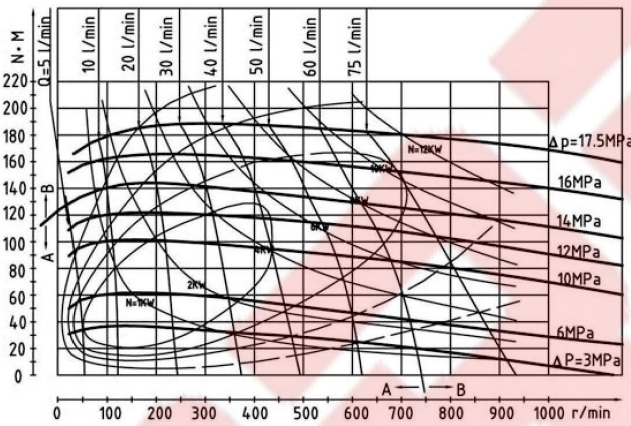
OHP - 32



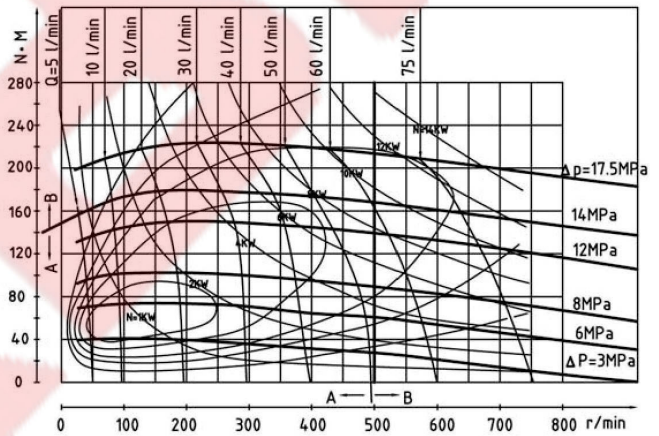
OHP - 50



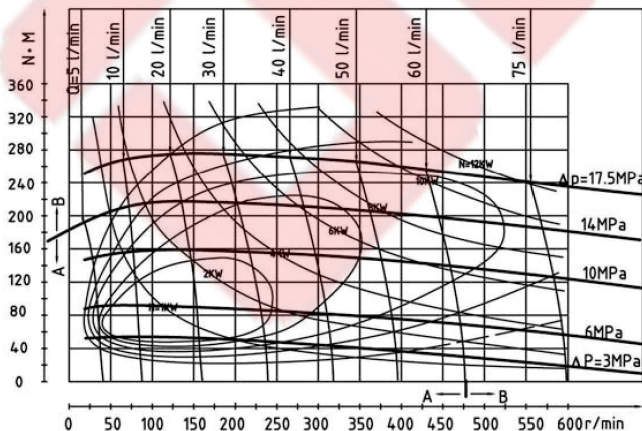
OHP - 80



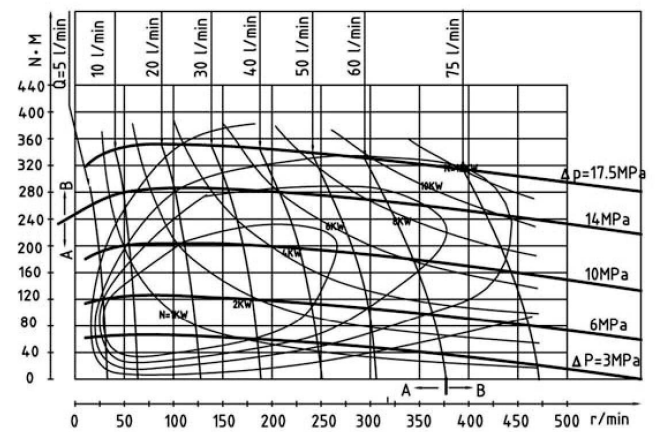
OHP - 100



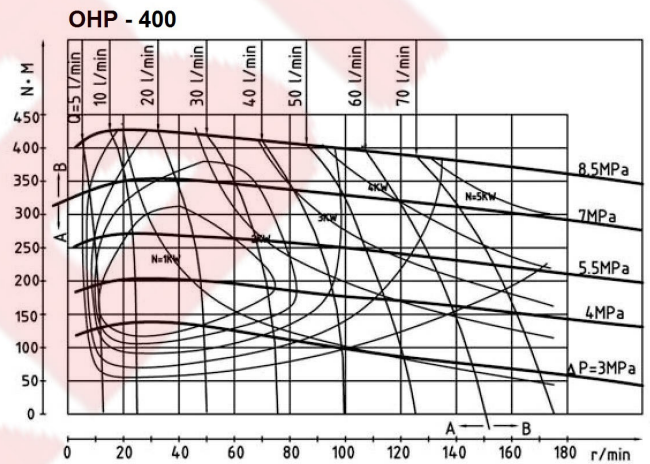
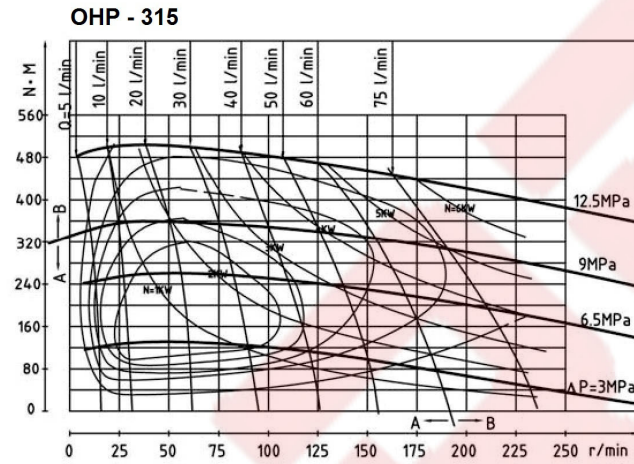
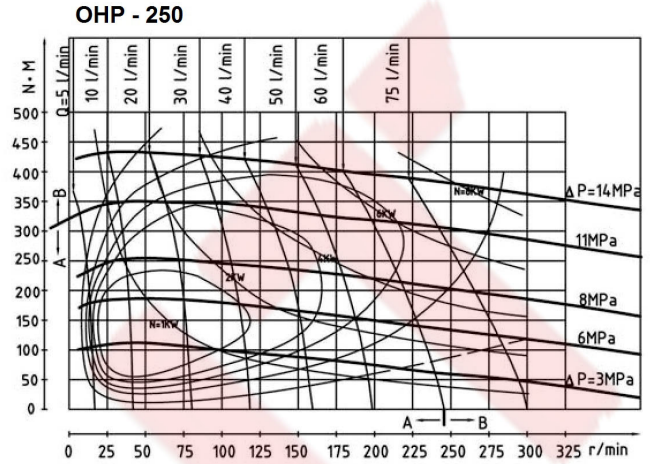
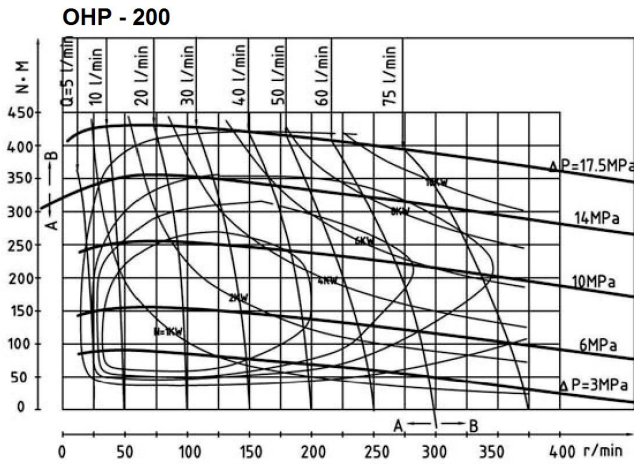
OHP - 125



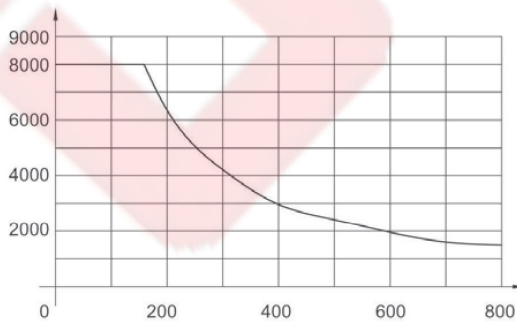
OHP - 160



FUNCTION DIAGRAMS



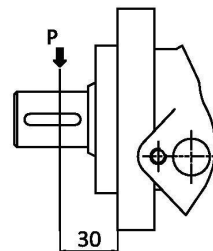
PERMISSIBLE SHAFT LOADS



OHP Series HYDRAULIC MOTORS

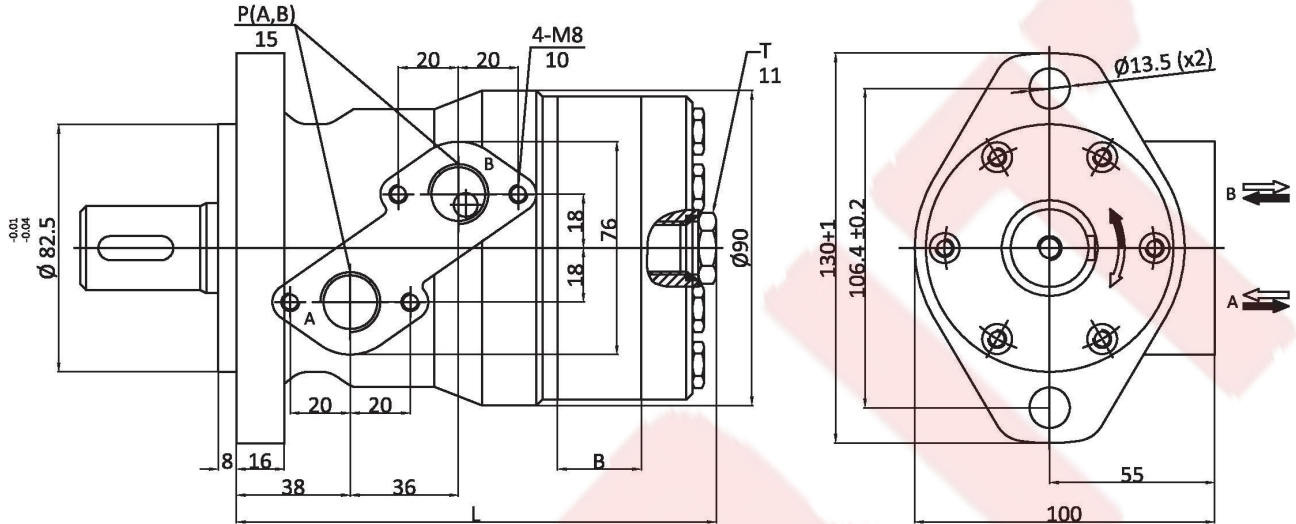
OHP
OHPW
OHPS

2000N.
← P
P →
2000N

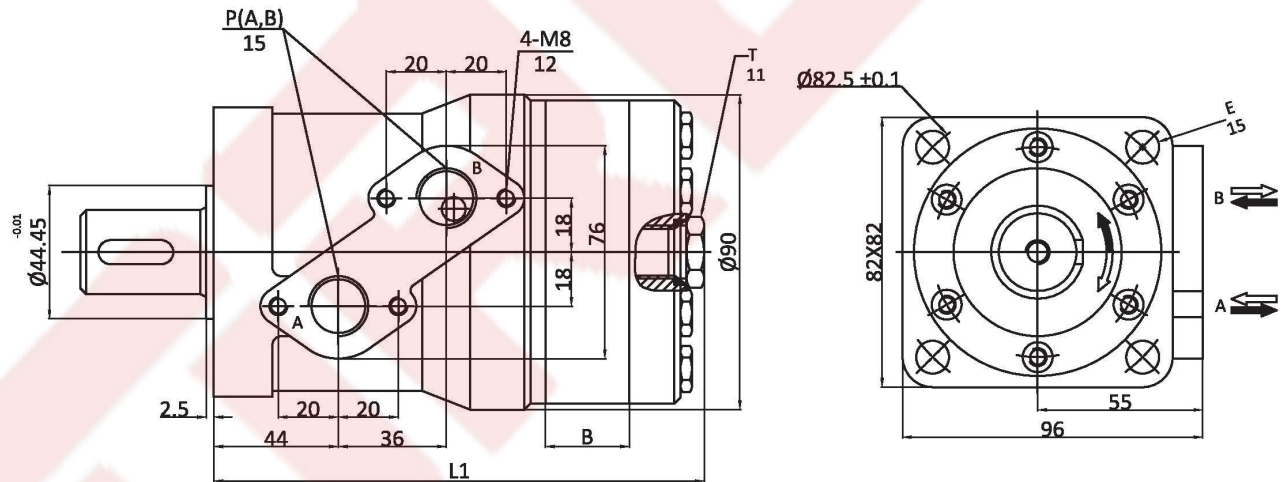


OHP Installation

A II Version 2-hole oval flange



C, C1 Version Square flange



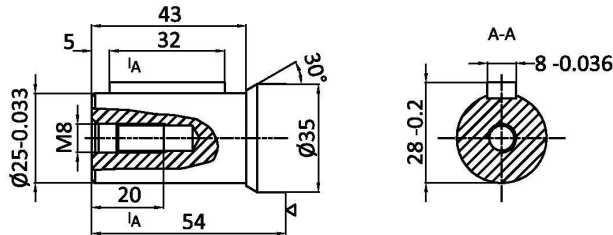
Flange	E
C	4-M10
C1	4-3/8-16 UNC

TYPE	OHP - 32	OHP - 50	OHP - 80	OHP - 100	OHP - 125	OHP - 160	OHP - 200	OHP - 250	OHP - 315	OHP - 400
L	138	141	145	147	150	155	160	166	176	186
L1	145	147	151	153	156	161	166	172	182	192
B	4.5	7	11	13	16	21	26	32	42	52

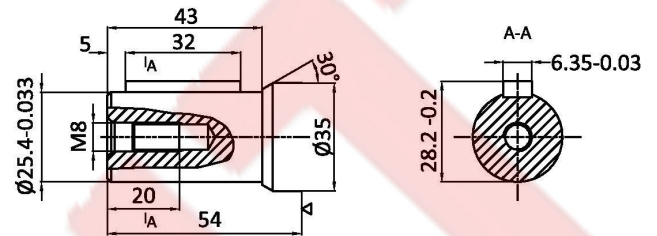
SHAFT VERSION

Match with A II flange

P1: $\varnothing 25, 8X7X32$
 $\varnothing 25$ Cylindrical shaft, parallel key 8X7X32

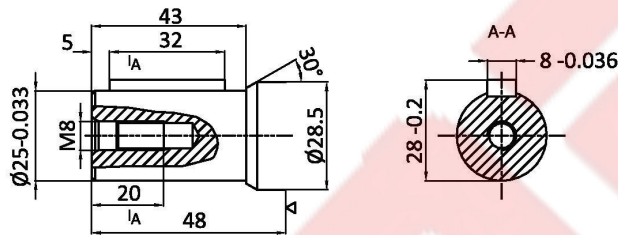


P3: $\varnothing 25.4, 6.35X6.35X32$
 $\varnothing 25.4$ Cylindrical shaft, parallel key 6.35X6.35X32

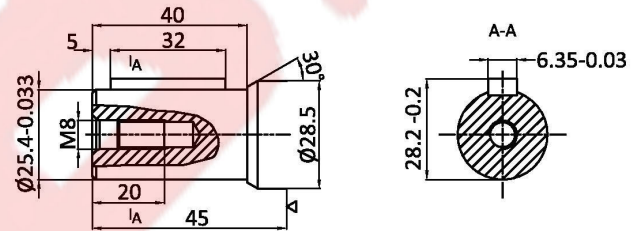


Match with C, C1 flange

P1: $\varnothing 25, 8X7X32$
 $\varnothing 25$ Cylindrical shaft, parallel key 8X7X32



P3: $\varnothing 25.4, 6.35X6.35X32$
 $\varnothing 25.4$ Cylindrical shaft, parallel key 6.35X6.35X32



ORDERING CODE

OHP	-				
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1	Displacement
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50, 80, 100, 125, 160, 200, 250, 315, 400

2	Shaft
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P1 $\varnothing 25, 8X7X32$
 P3 $\varnothing 25.4, 6.35X6.35X32$

3	Mounting Flange
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All 2- $\varnothing 13.5, \varnothing 82.5$
 C 4-M10, $\varnothing 44.45$
 C1 4-3/8-16 UNC, $\varnothing 44.45$

4	Ports
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	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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