

GROUP3 MOTORS

OT300 SINGLE ROTATION MOTORS GENERAL DATA

<i>MOTOR TYPE</i>	<i>DISPLACEMENT</i>	<i>MAX. PRESSURE</i>			<i>MAX. SPEED</i>	<i>MIN. SPEED</i>
		<i>P1</i>	<i>P2</i>	<i>P3</i>		
	<i>cc / rev</i>	<i>bar</i>			<i>rev⁻¹</i>	<i>rev⁻¹</i>
<i>OT300 M22</i>	22	250	280	300	4000	600
<i>OT300 M28</i>	28					
<i>OT300 M32</i>	32					
<i>OT300 M38</i>	38	240	260	280	3500	500
<i>OT300 M42</i>	42					
<i>OT300 M48</i>	48					
<i>OT300 M53</i>	53	190	210	250	3000	500
<i>OT300 M63</i>	63	190	210	240	2500	
<i>OT300 M73</i>	73					
<i>OT300 M82</i>	82	150	170	200	2000	
<i>OT300 M90</i>	90	130	150	180		

P1= Max. continuous pressure

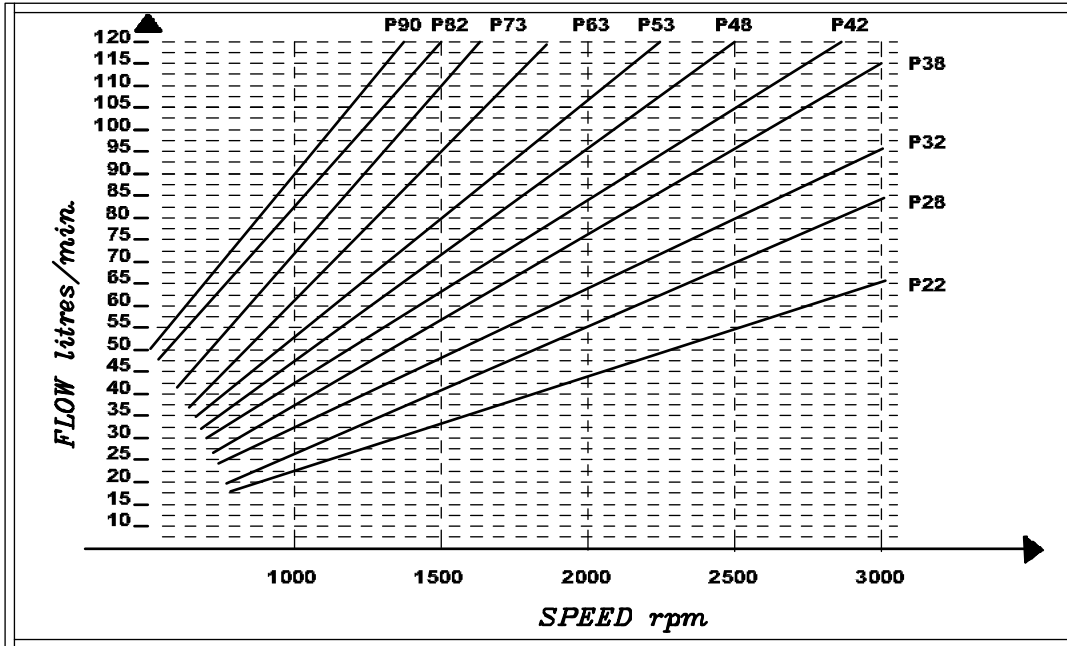
P2= Max. intermittent pressure

P3= Max. peak pressure

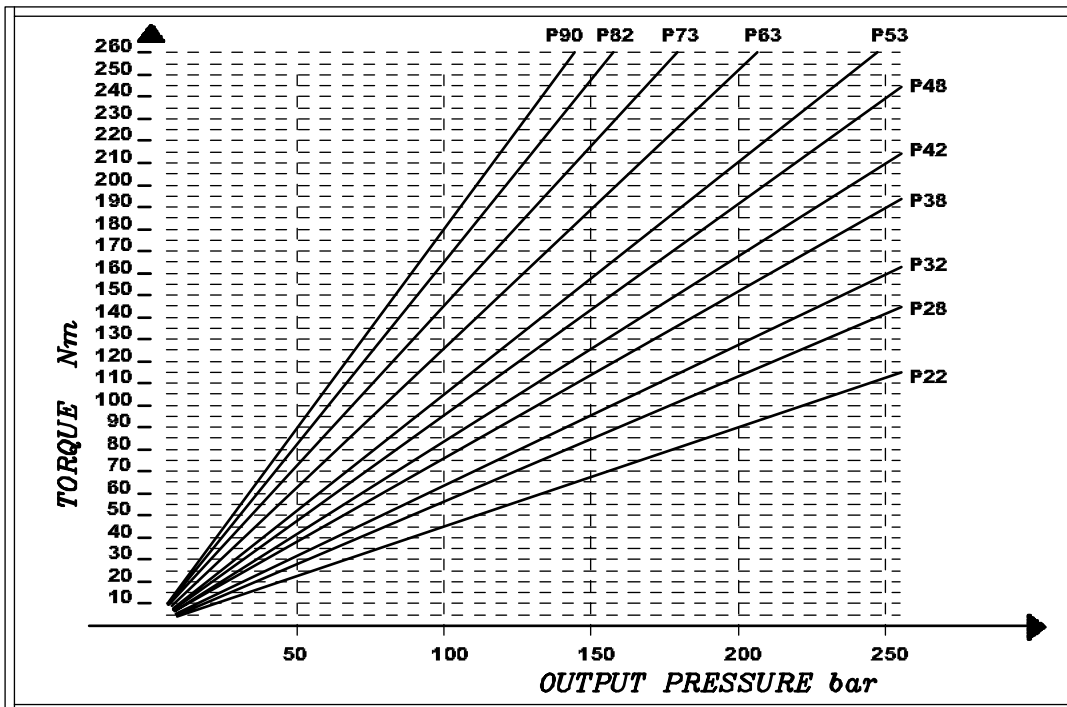
**FOR DIMENSION PLEASE CHECK
RELATIVE SINGLE PUMP TABLES**

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FLOW CHARACTERISTICS CURVES



ABSORBED TORQUE



NOTE

The flow characteristics curves have been made at P1 pressure.

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MOTOR CALCULATION

V	Displacement	CC / REV
Q	Flow	l/min
P	Power	kW
C	Torque	N · m
N	Speed	-15°C / +80°C
ΔP	Pressure	bar
n_v	Volumetric efficiency	0.95
n_m	Mechanical efficiency	0.85
n_t	Total efficiency	0.81

$$Q = \frac{V \cdot N}{n_v} \cdot 10^{-3} \quad \text{l/min}$$

$$C = \frac{\Delta P \cdot V \cdot n_m}{62.8} \quad \text{N} \cdot \text{m}$$

$$P = \frac{\Delta P \cdot V \cdot N \cdot n_t}{612000} \quad \text{kW}$$