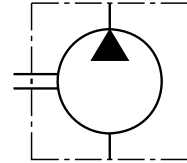


$P_{\max}$  2300 to 4350 PSI •  $Q_{\max}$  1.0 to 5.6 GPM


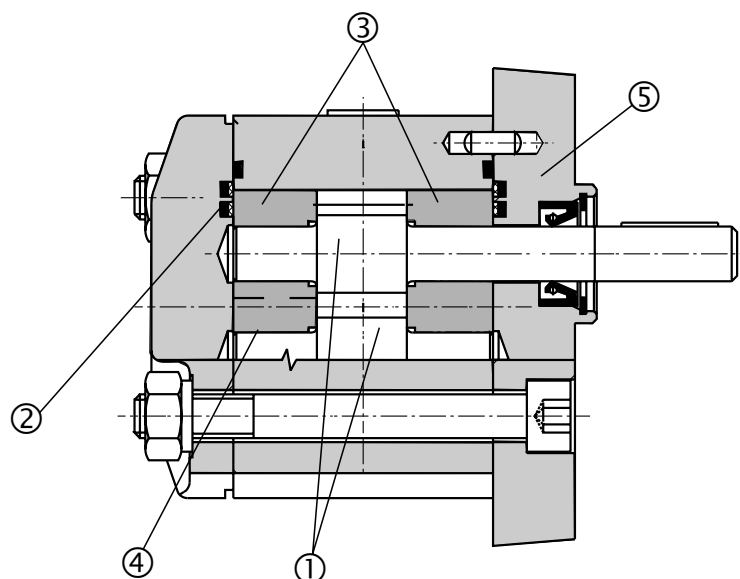
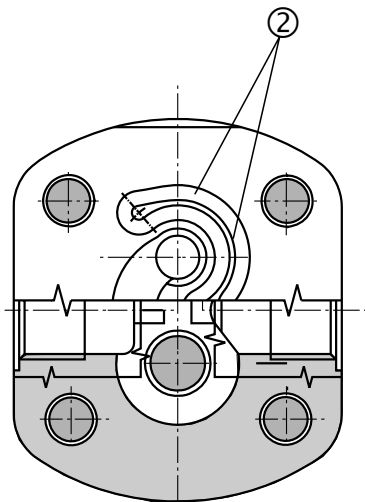
- High reliability
- High dimensional and general effect
- Low noise level in whole operating range
- High volumetric efficiency



## Functional Description

The gear Pumps Sieries GP1-P consists of 2 intermeshing gears (1), one of them connected to the drive shaft. Right or Left hand rotation on the drive shaft generates pressure and flow as given in the technical data section on page 2. The pumps have optimized efficiency through pressurized internal sealing technology (2). The floating bushings (3) with special

bearings (4) are pressure dependent pushed against the gears which guarantee minimum gap clearance between bushing and gears thereby sealing the gears axially. The radial sealing is done by forcing the gears against the body. The gear pumps have 2-Bolt SAE mounting flange (5) and keyed shaft. Pressure and Suction ports are SAE p-Ring Ports.





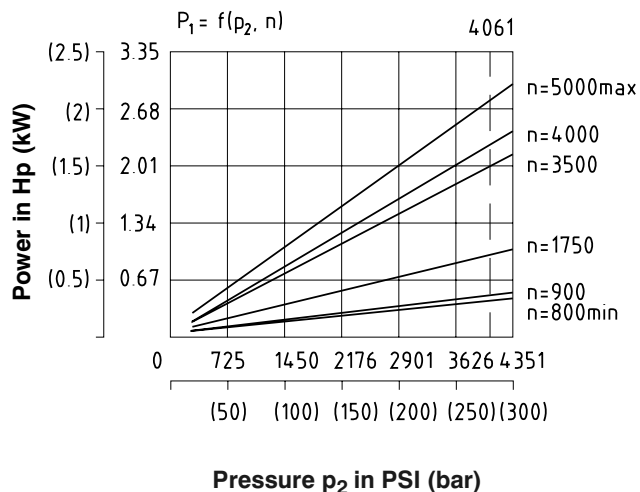
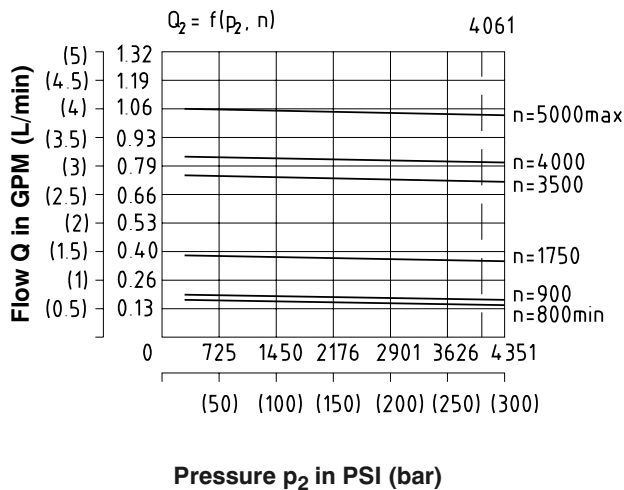
# Performance Data

measured at  $v = 166 \text{ SUS } (35 \text{ mm}^2 \cdot \text{s}^{-1})$  and  $t = 122^\circ\text{F } (50^\circ\text{C})$

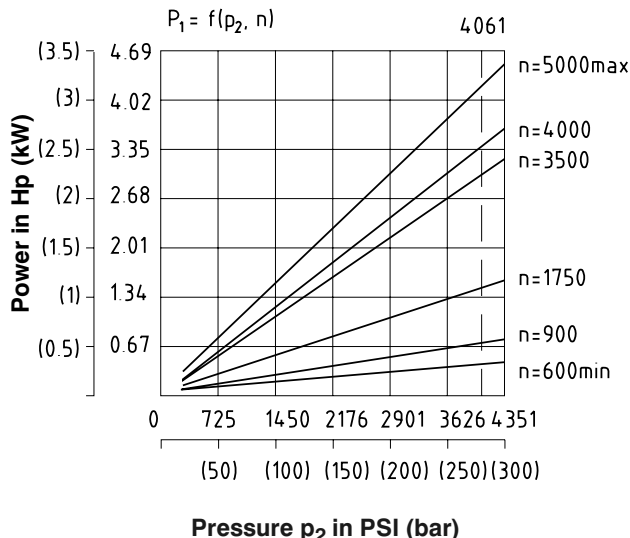
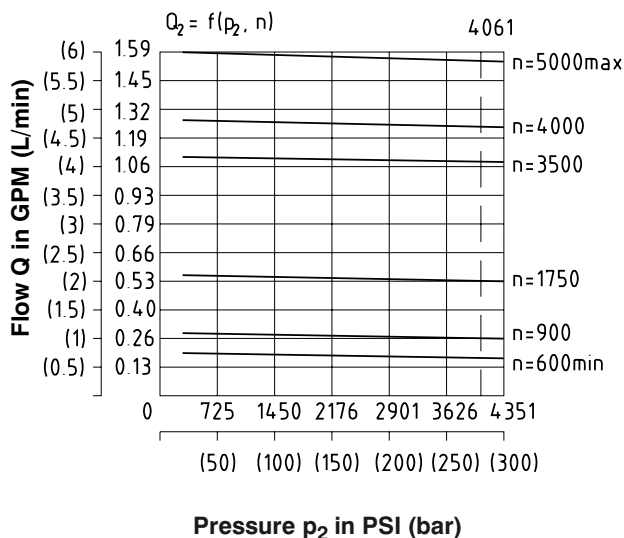
1

## Outlet flow in relation to power demand and outlet pressure

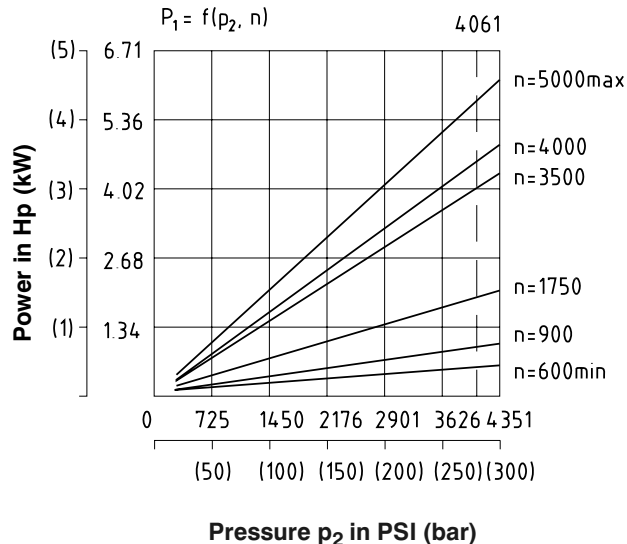
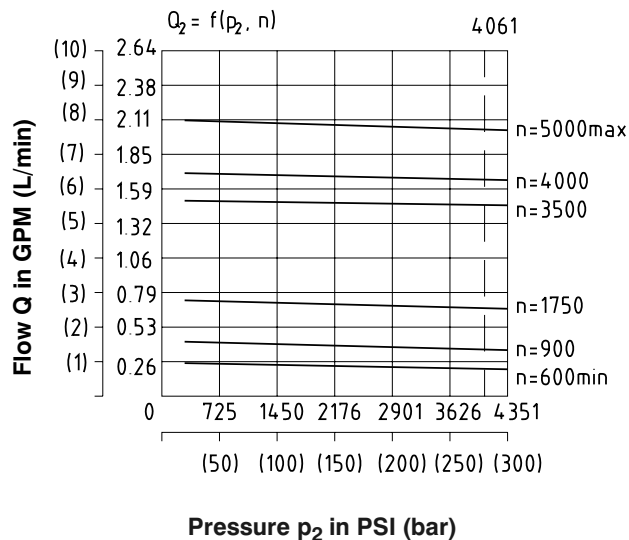
### Nominal Size 0,8



### Nominal Size 1,2



### Nominal Size 1,6

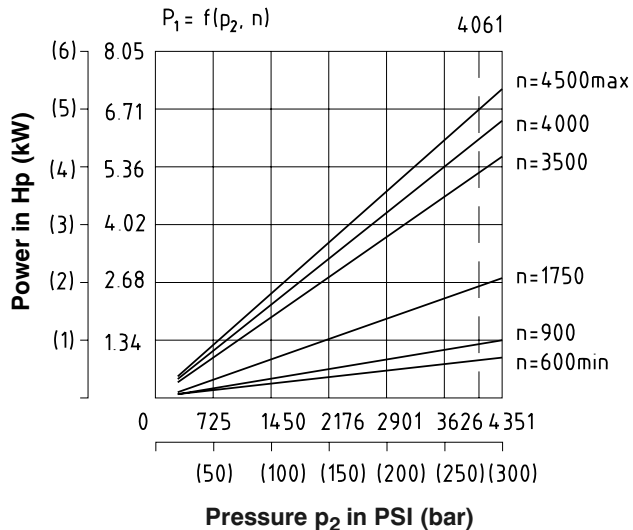
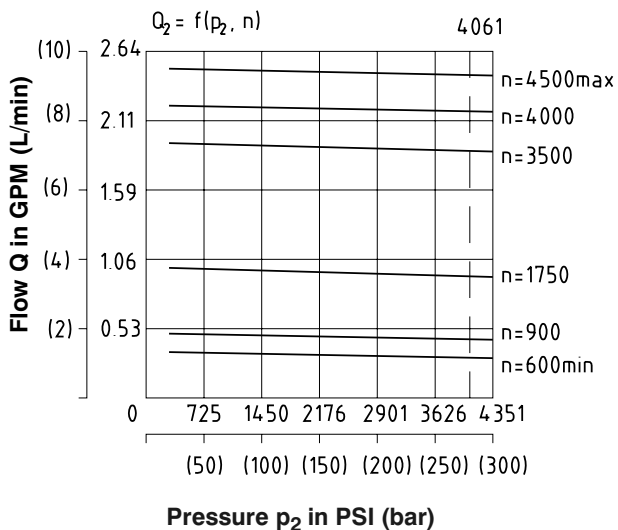


# Performance Data

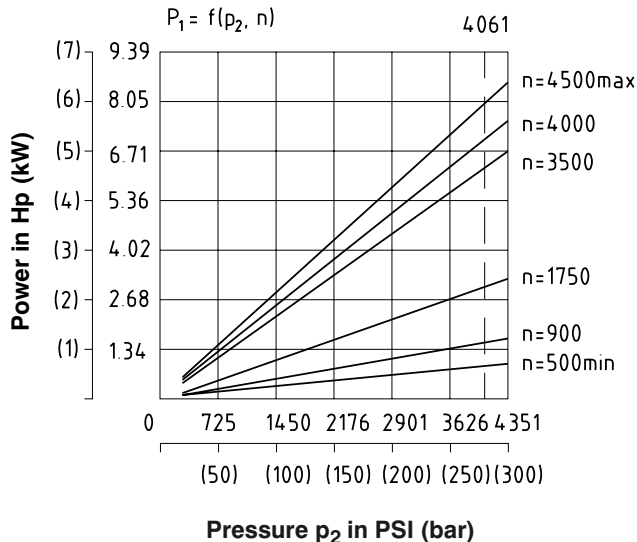
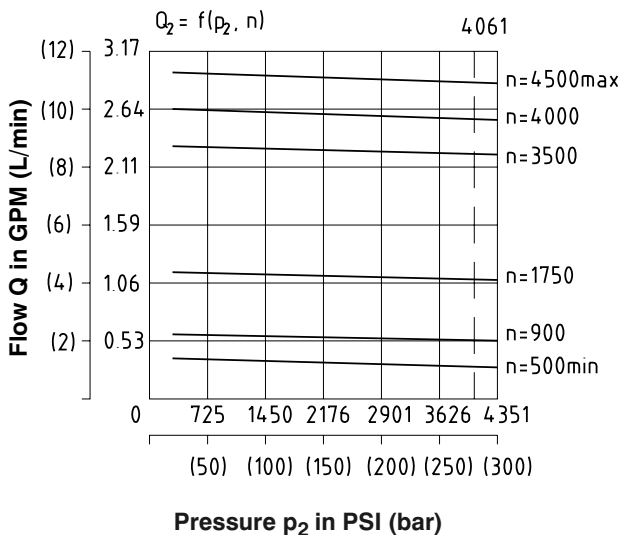
measured at  $v = 166 \text{ SUS } (35 \text{ mm}^2 \cdot \text{s}^{-1})$  and  $t = 122^\circ\text{F } (50^\circ\text{C})$

1

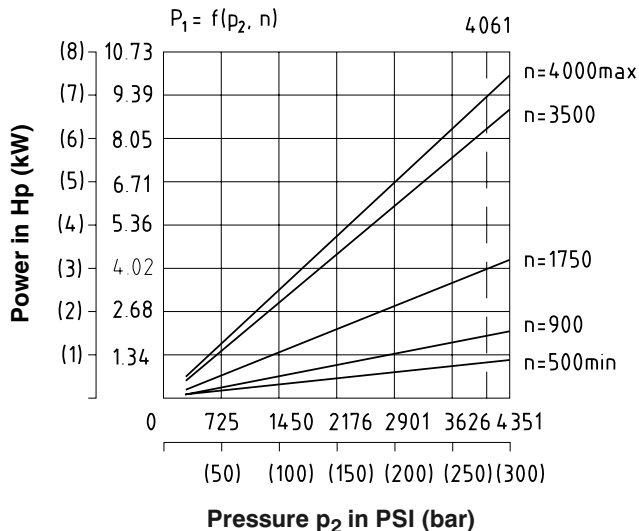
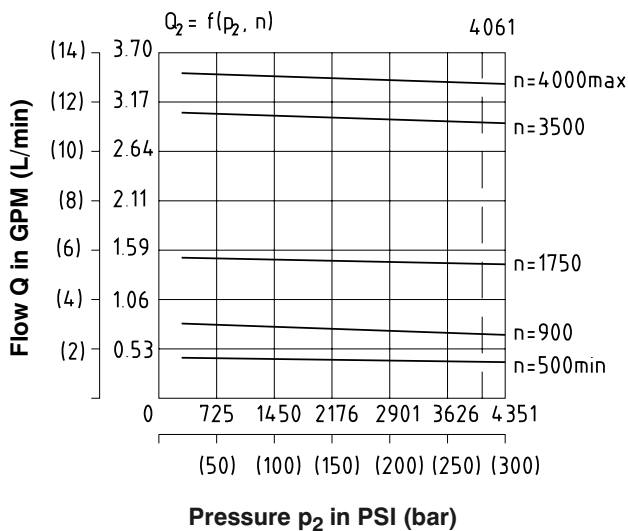
## Nominal Size 2,1



## Nominal Size 2,5



## Nominal Size 3,3

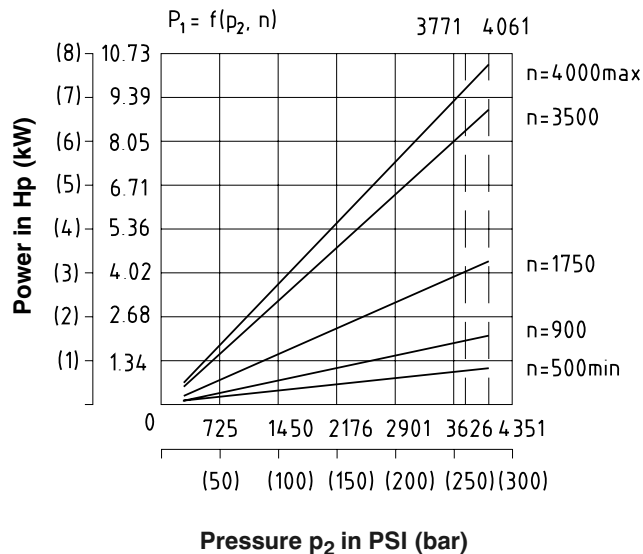
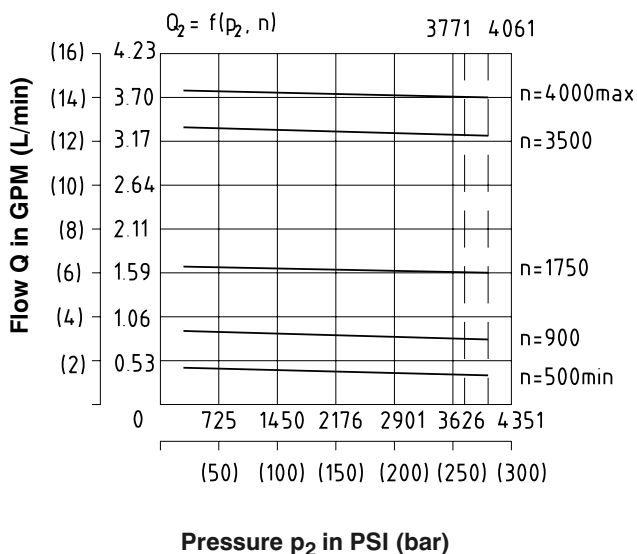


# Performance Data

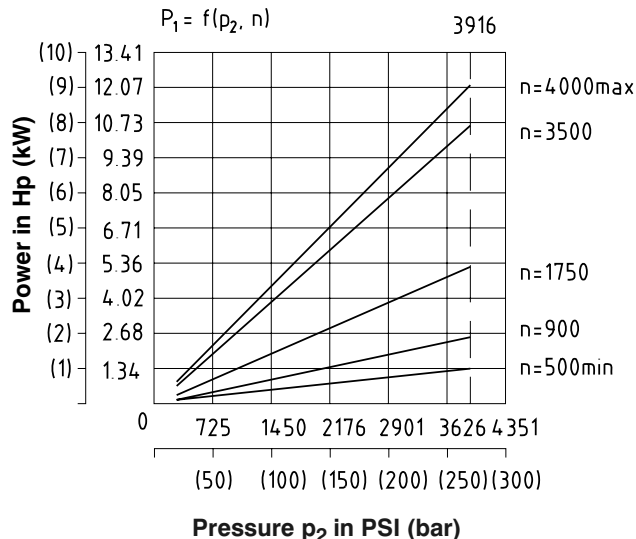
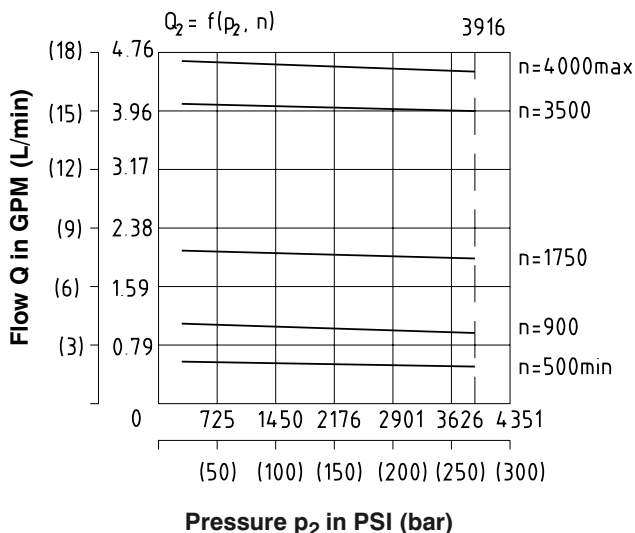
measured at  $v = 166 \text{ SUS } (35 \text{ mm}^2 \cdot \text{s}^{-1})$  and  $t = 122^\circ\text{F } (50^\circ\text{C})$

1

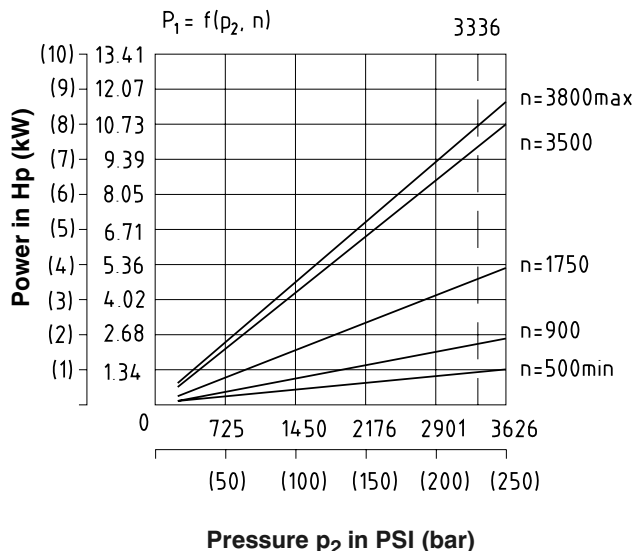
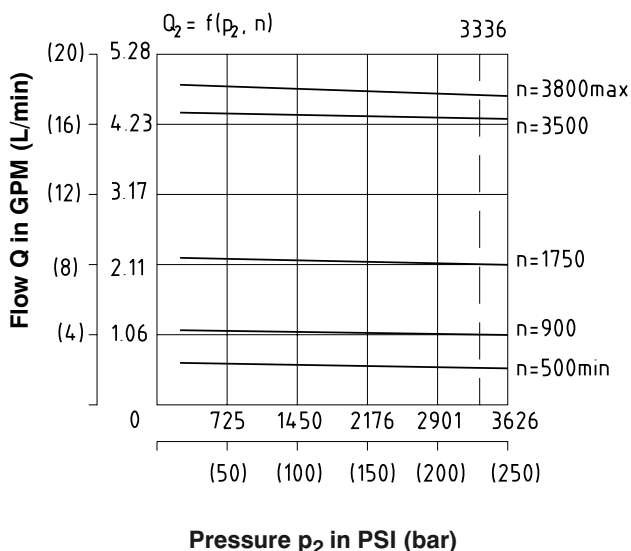
## Nominal Size 3,6



## Nominal Size 4,4



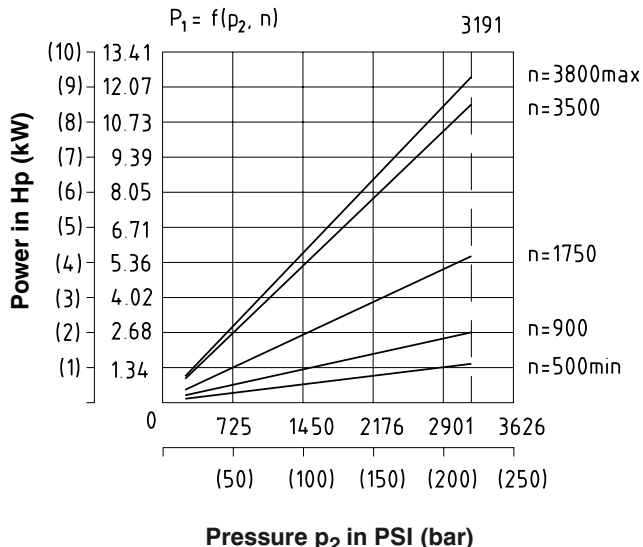
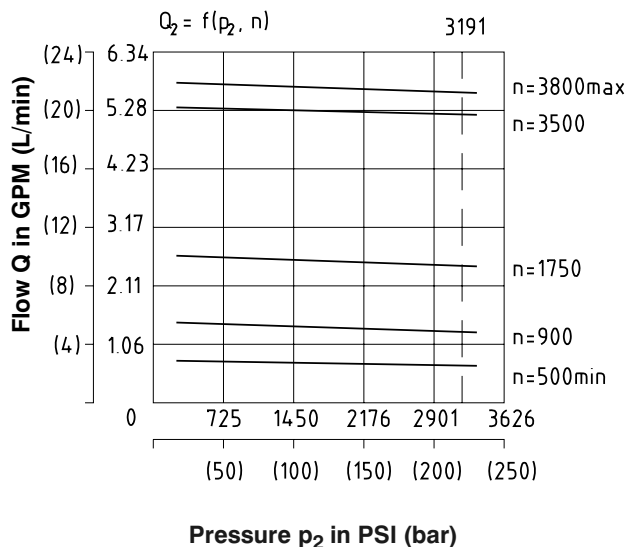
## Nominal Size 4,8



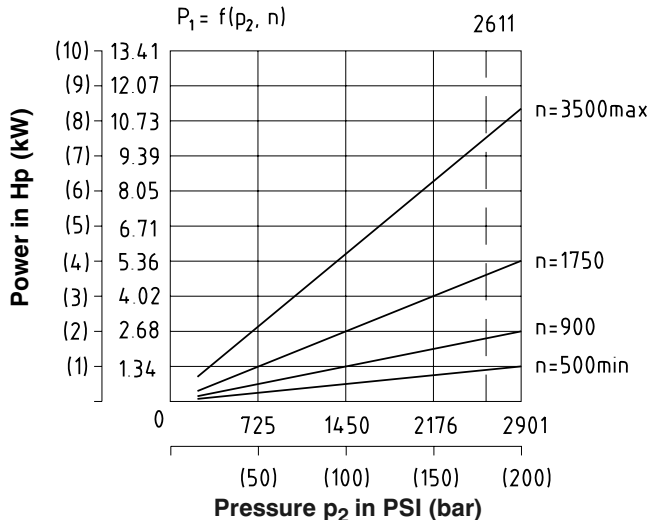
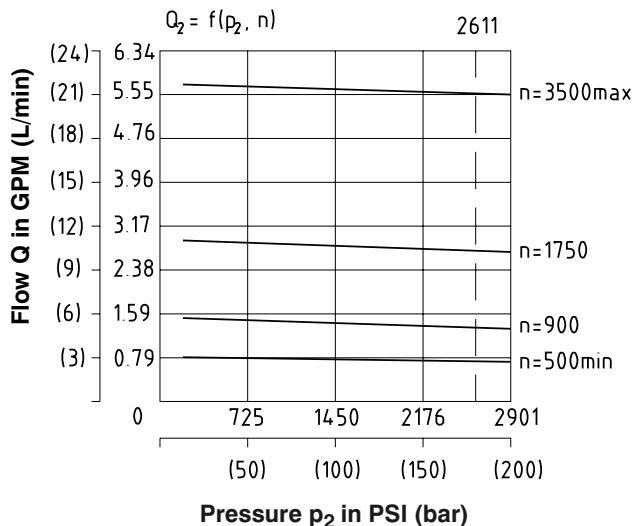
# Performance Data

measured at  $v = 166 \text{ SUS } (35 \text{ mm}^2 \cdot \text{s}^{-1})$  and  $t = 122^\circ\text{F } (50^\circ\text{C})$

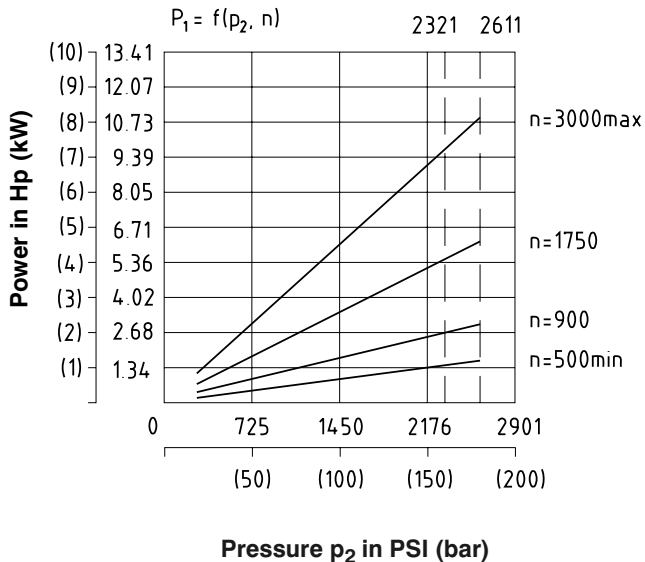
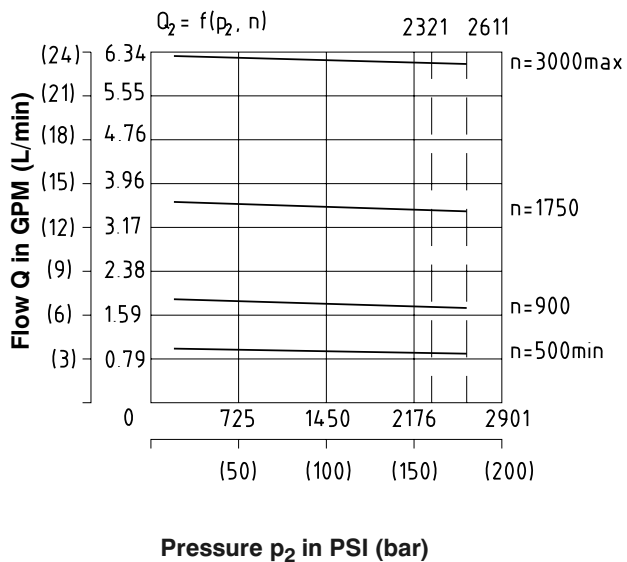
## Nominal Size 5,8



## Nominal Size 6,2

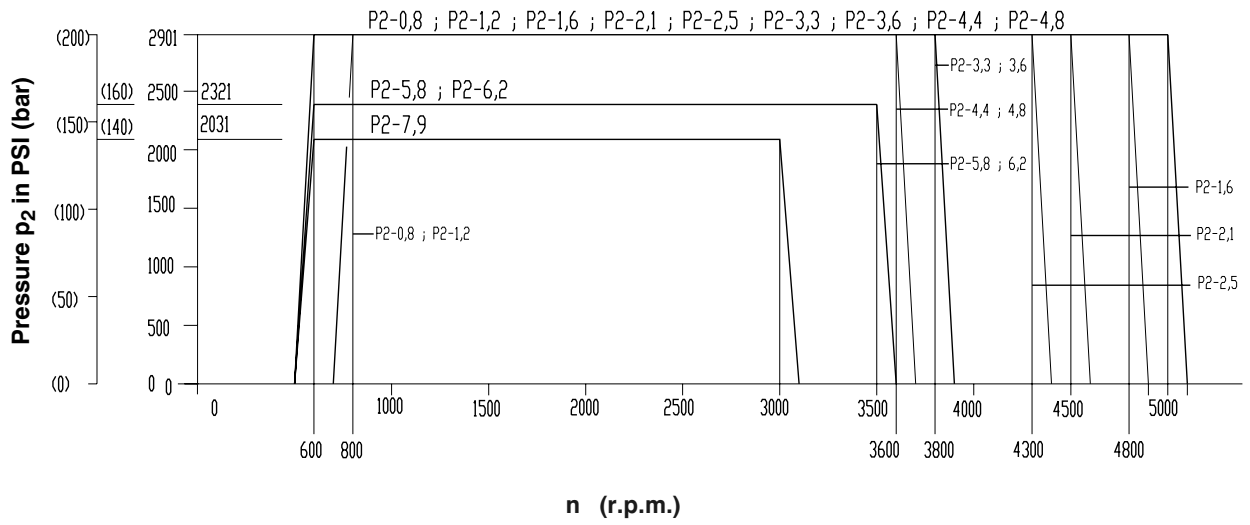


## Nominal Size 7,9



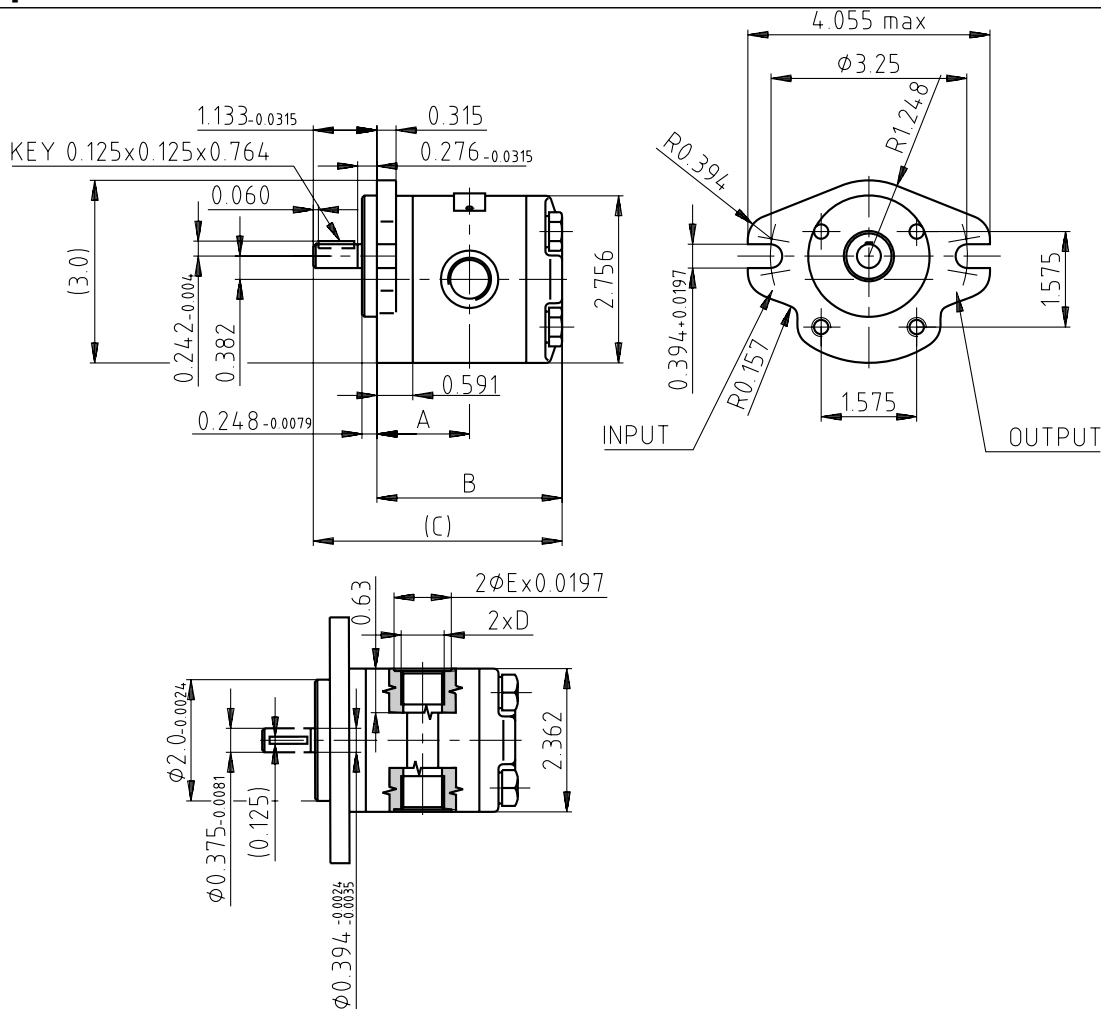
Pressure rating on the P - series gear pumps in relationship to revolutions

1



# Pump Dimensions

Dimensions in inches



**Note:** The right hand rotation pump is drawn, the inlet and outlet ports of the left hand rotation pump are interchanged.

## Table of Dimensions

CODE	Displacement in <sup>3</sup> /1 (cm <sup>3</sup> /1)	Nom. Press. PSI (bar)	Dimension ( " )				
			A	B	C	D	E
P - 7.9	0.482 (7,9)	2319 (160)	1.764	3.583	4.677	7/8 -14 UNF- 2B	1.346
P - 6.2	0.378 (6,2)	2609 (180)	1.638	3.327	4.421	7/8 -14 UNF- 2B	1.346
P - 5.8	0.354 (5,8)	2899 (200)	1.610	3.268	4.362	7/8 -14 UNF- 2B	1.346
P - 4.8	0.293 (4,8)	3334 (230)	1.535	3.110	4.205	7/8 -14 UNF- 2B	1.346
P - 4.4	0.269 (20,0)	3624 (250)	1.504	3.051	4.146	7/8 -14 UNF- 2B	1.346
P - 3.6	0.220 (3,6)	3769 (260)	1.449	2.933	4.027	7/8 -14 UNF- 2B	1.346
P - 3.3	0.201 (3,3)	4058 (280)	1.425	2.894	3.988	7/8 -14 UNF- 2B	1.346
P - 2.5	0.153 (2,5)	4058 (280)	1.366	2.775	3.870	3/4 -16 UNF- 2B	1.189
P - 2.1	0.128 (2,1)	4058 (280)	1.335	2.716	3.811	3/4 -16 UNF- 2B	1.189
P - 1.6	0.098 (1,6)	4058 (280)	1.303	2.657	3.752	3/4 -16 UNF- 2B	1.189
P - 1.2	0.073 (1,2)	4058 (280)	1.275	2.598	3.693	3/4 -16 UNF- 2B	1.189
P - 0.8	0.049 (0,8)	4058 (280)	1.244	2.539	3.634	3/4 -16 UNF- 2B	1.189

## Caution!

- The packing foil is recyclable.
- Certified documentation is available per request.

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