



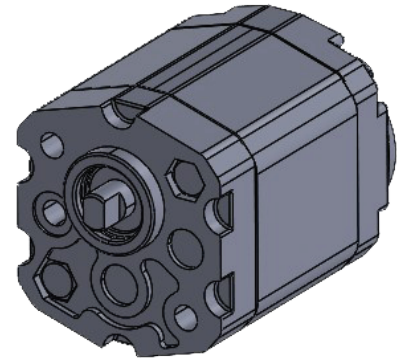
## 0.5CGP SERIES

**Displacement 0.19 to 2 CC**  
**Maximum Pressure up to 250 Bar.**



### Description & Operation

A hydraulic compact gear pump is a type of positive displacement pump designed to be small in size and light weight while providing hydraulic fluid flow and pressure. These pumps are often used in applications where space is limited, and a compact design is essential.



Hydraulic Symbol

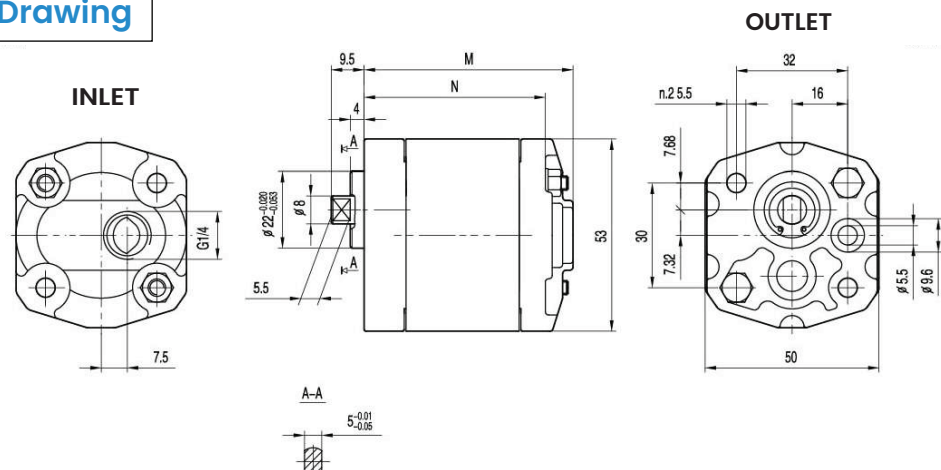


### Technical Data

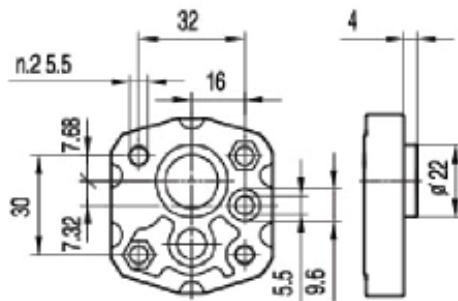
| Type        | Displacement<br>(cm <sup>3</sup> /rev) | Max Pressure |         |         | Max Speed<br>(r/min) | Min Speed<br>(r/min) | Dimension(mm) |      |
|-------------|----------------------------------------|--------------|---------|---------|----------------------|----------------------|---------------|------|
|             |                                        | P1(BAR)      | P2(BAR) | P3(BAR) |                      |                      | M             | N    |
| 0.5CGP-0.19 | 0.19                                   | 200          | 230     | 250     | 7000                 | 1000                 | 60            | 51   |
| 0.5CGP-0.26 | 0.26                                   | 200          | 230     | 250     | 7000                 | 1000                 | 60.5          | 51.5 |
| 0.5CGP-0.38 | 0.38                                   | 200          | 230     | 250     | 7000                 | 1000                 | 61.5          | 52.5 |
| 0.5CGP-0.50 | 0.50                                   | 200          | 230     | 250     | 7000                 | 1000                 | 62.5          | 53.5 |
| 0.5CGP-0.65 | 0.65                                   | 200          | 230     | 250     | 7000                 | 1000                 | 63.5          | 54.5 |
| 0.5CGP-0.75 | 0.75                                   | 200          | 230     | 250     | 7000                 | 1000                 | 64.5          | 55.5 |
| 0.5CGP-0.88 | 0.88                                   | 200          | 230     | 250     | 7000                 | 1000                 | 65.5          | 56.5 |
| 0.5CGP-1.00 | 1.00                                   | 200          | 230     | 250     | 6000                 | 850                  | 66.5          | 57.5 |
| 0.5CGP-1.25 | 1.25                                   | 200          | 230     | 250     | 5000                 | 700                  | 68.5          | 59.5 |
| 0.5CGP-1.50 | 1.50                                   | 200          | 230     | 250     | 4000                 | 600                  | 70.5          | 61.5 |
| 0.5CGP-1.75 | 1.75                                   | 180          | 210     | 230     | 4000                 | 600                  | 72.5          | 63.5 |
| 0.5CGP-2.00 | 2.00                                   | 160          | 190     | 210     | 3000                 | 600                  | 74.5          | 65.5 |



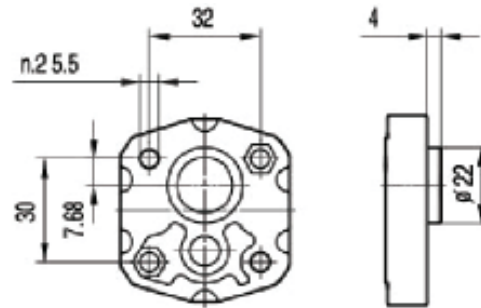
### Dimensional Drawing



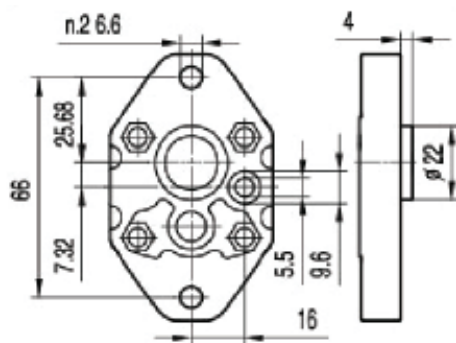
## FRONT COVER



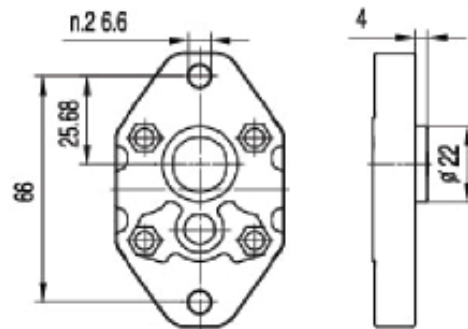
I0



I1

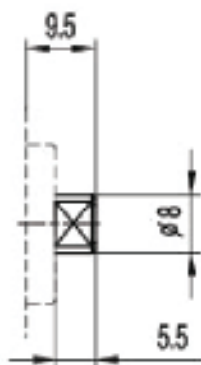


A0



A1

## SHAFTS



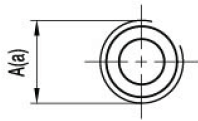
D0



P0



## Inlet & Outlet Ports



| Port Code<br>Description | Displacement | Location   |             |
|--------------------------|--------------|------------|-------------|
|                          |              | Inlet Port | Outlet Port |
| B1 - BSP 1/8"            | 0.19 To 2.00 | B,S        | B,S         |
| B2 - BSP 1/4"            | 0.19 To 2.00 | B,S        | B,S         |
| B3 - BSP 3/8"            | 0.19 To 2.00 | B,S        | B,S         |
| M0 - M10X1               | 0.19 To 2.00 | B,S        | B,S         |



| Port Code         | Displacement | Location   |             |
|-------------------|--------------|------------|-------------|
|                   |              | Inlet Port | Outlet Port |
| O0 - O Ring 5.5mm | 0.19 To 2.00 | -          | F           |

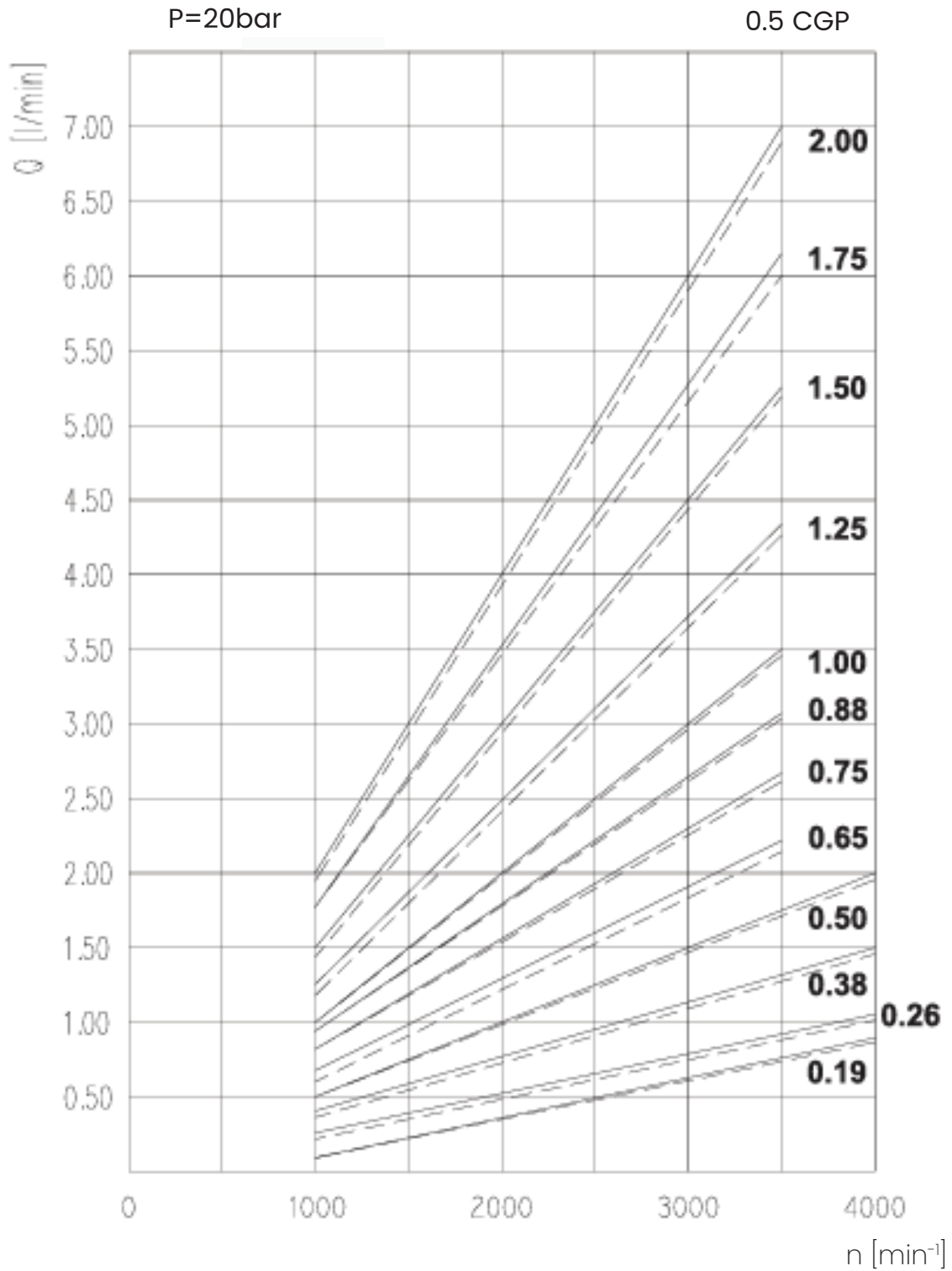
### Note-

B In The Above Table Stands For Back Flange

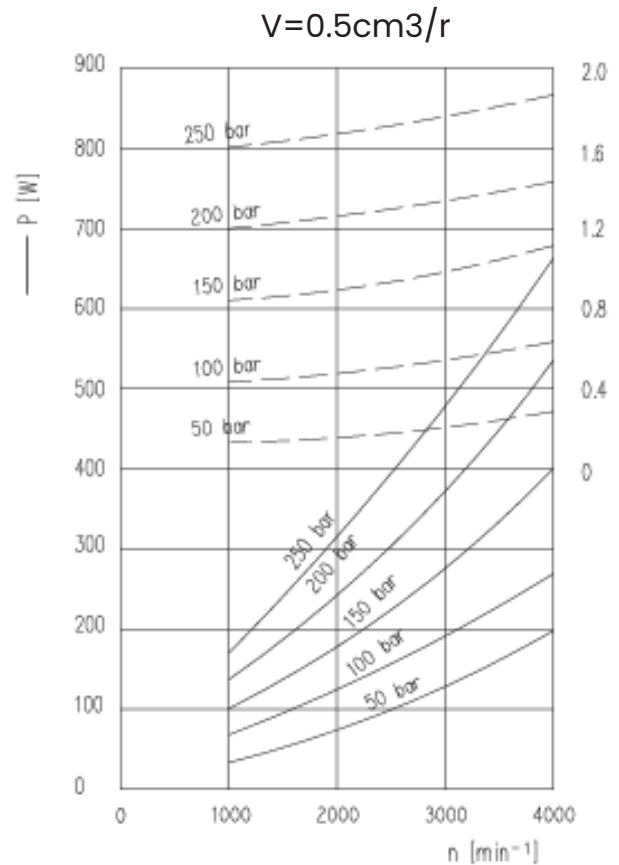
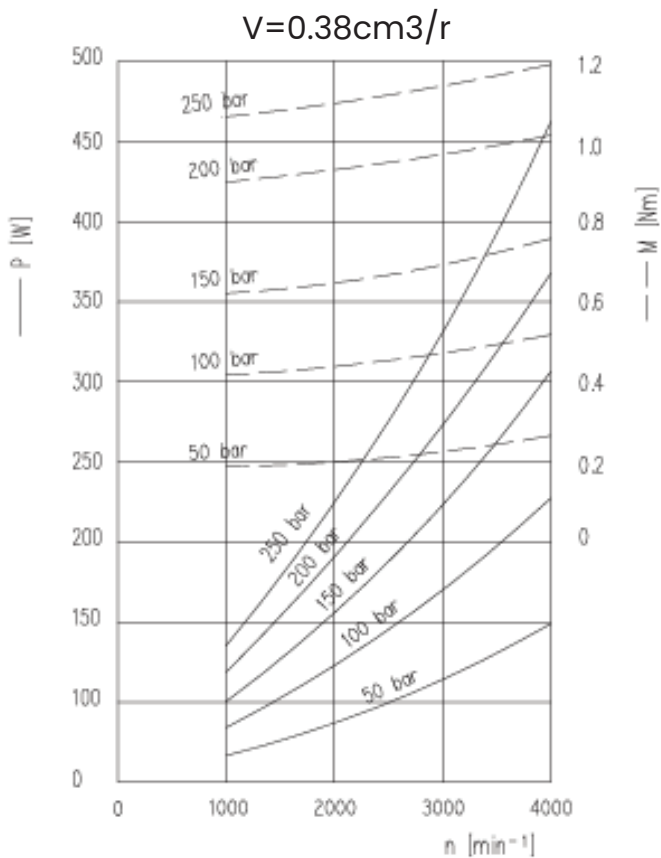
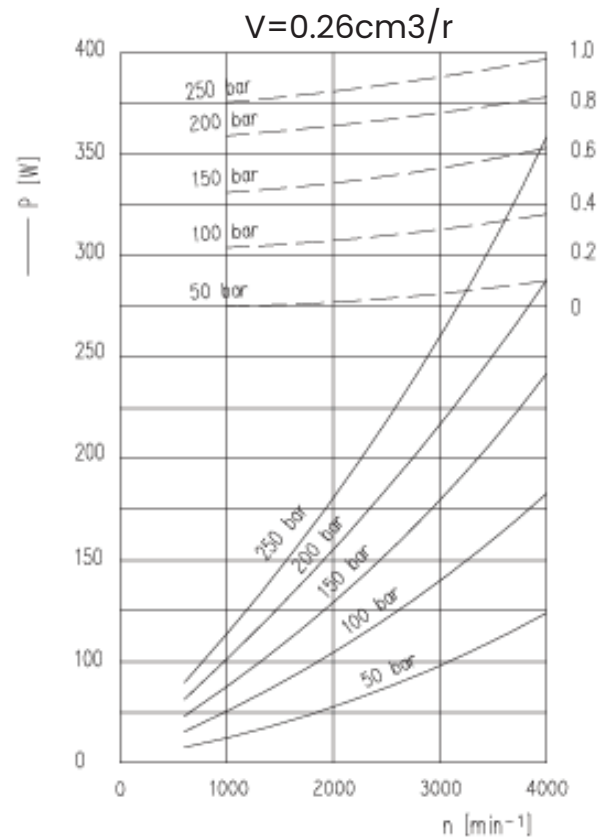
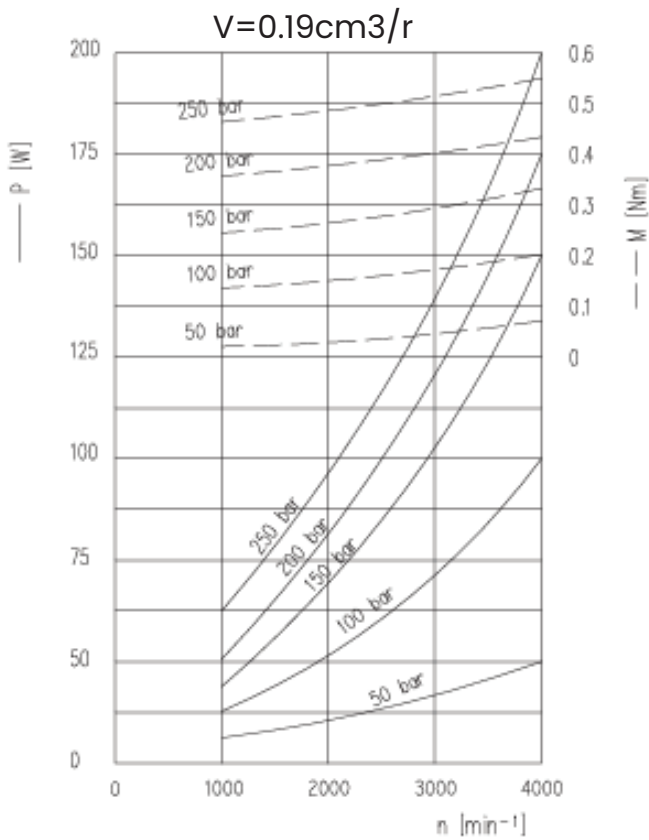
S In The Above Table Stands For Side Port

F In The Above Table Stands For Front Flange

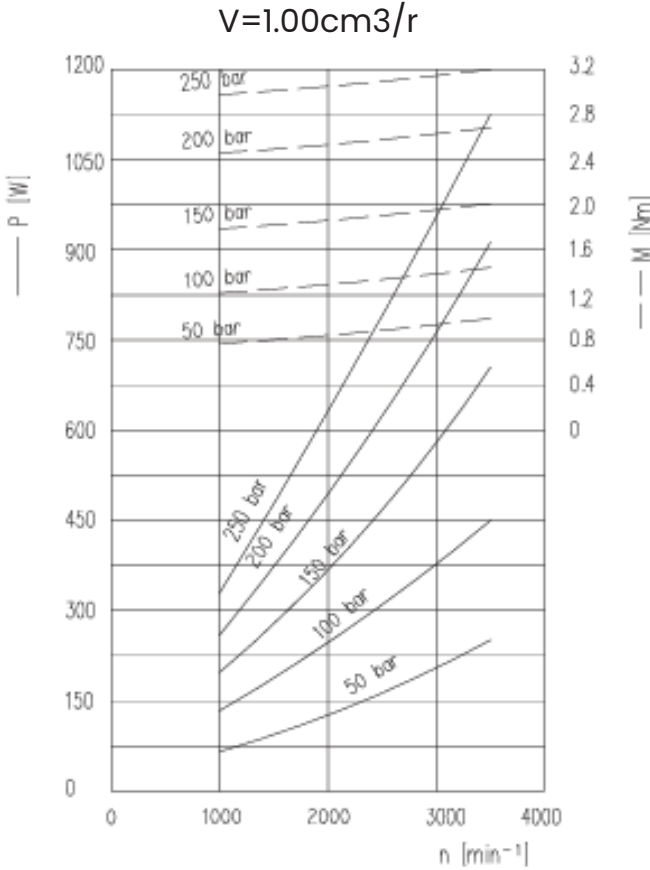
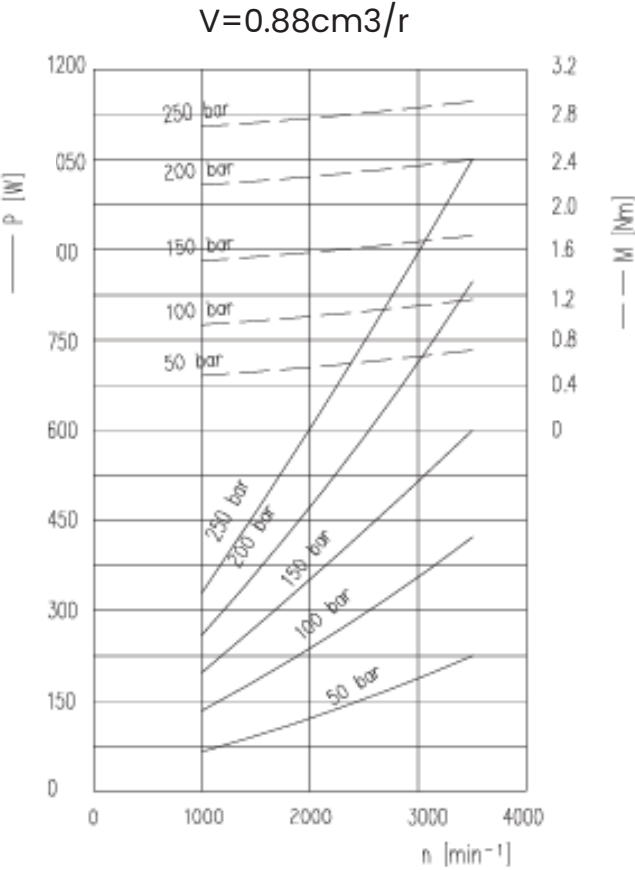
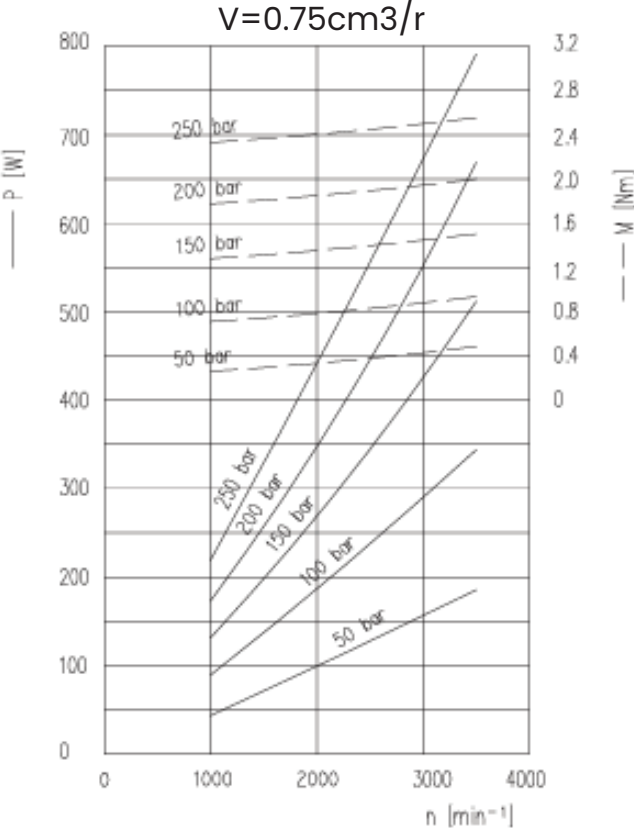
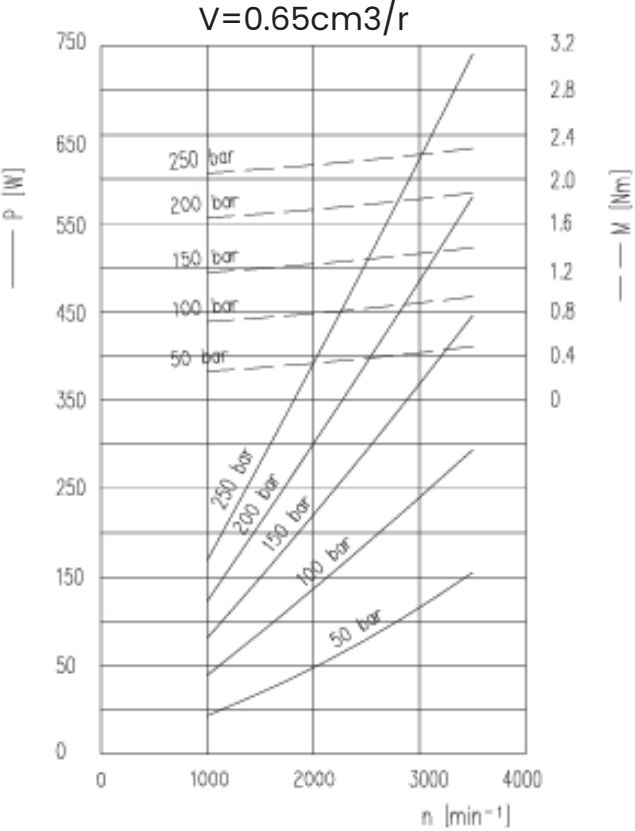
## Flow Performance of 0.5 CGP



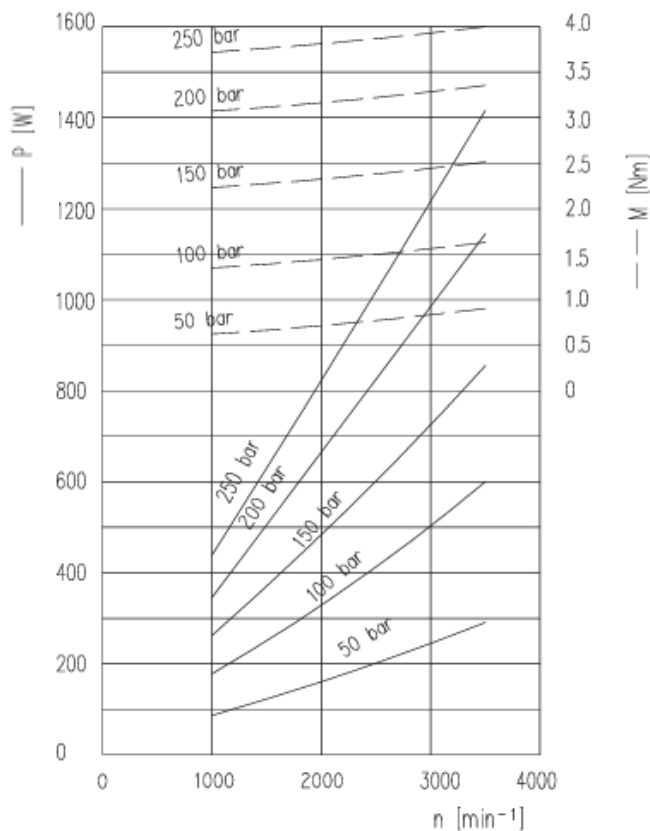
## Power Performance Curve Of 0.5CGP



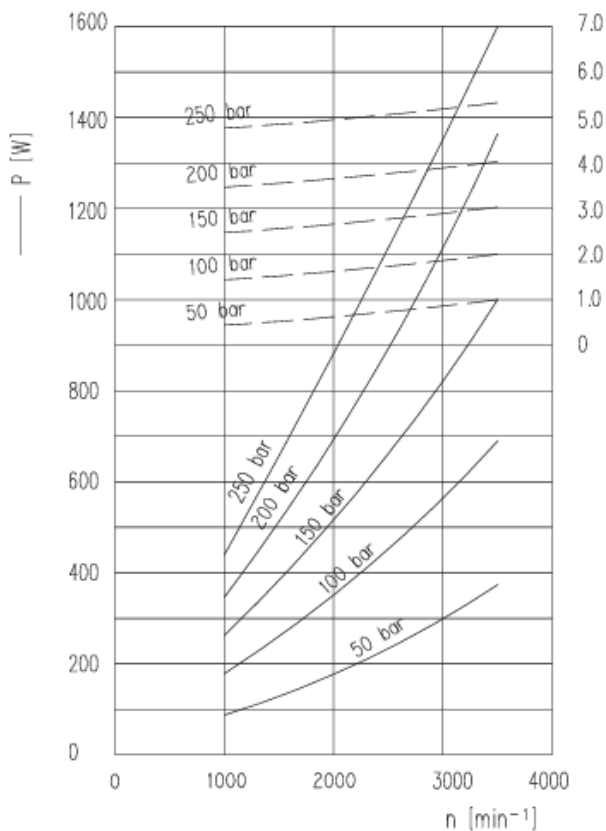
 Performance Curves



$V=0.65\text{cm}^3/\text{r}$



$V=0.75\text{cm}^3/\text{r}$



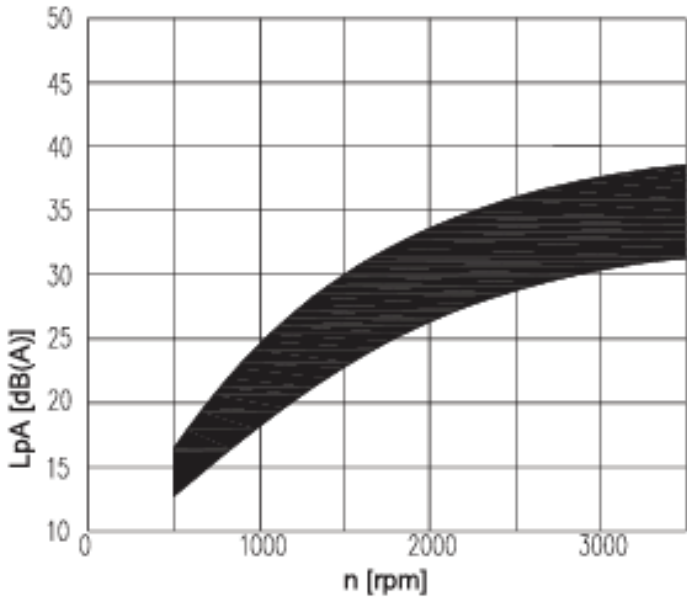
### Noise Curve Table Of 0.5CGP

The noise level depends on the speed and the pressure range. This pressure range is between 10 bar and pressure value P1.

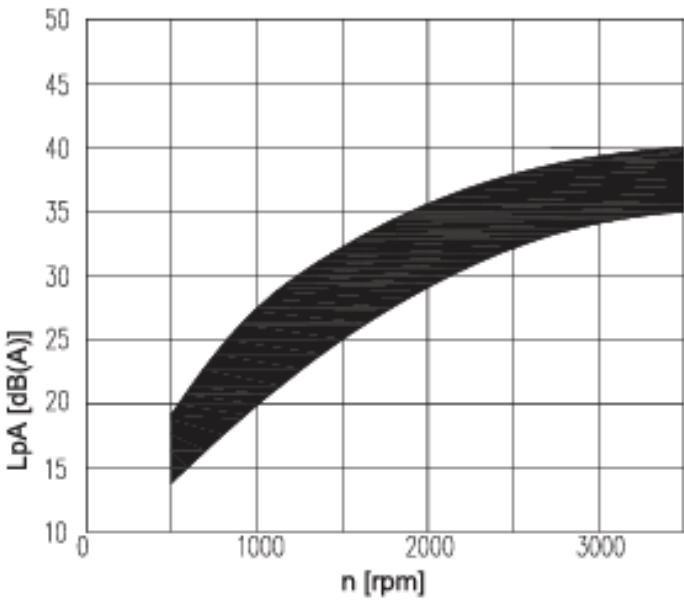
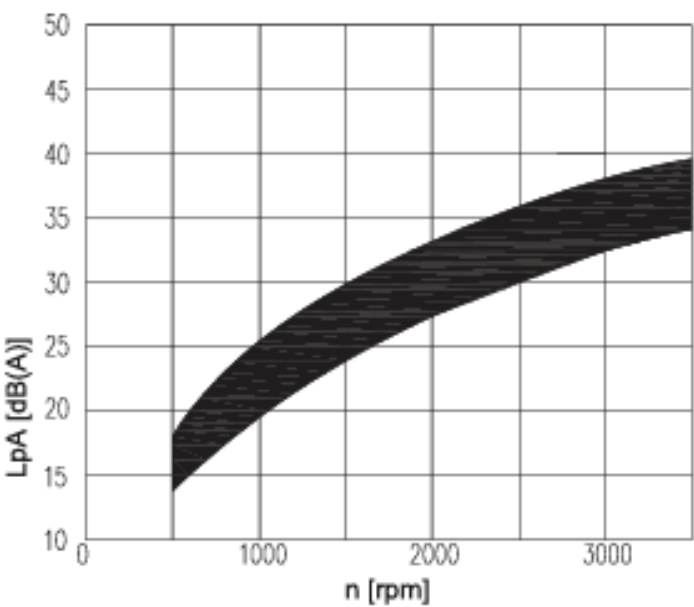
Oil data:  $V = 32 \text{ mm}^2/\text{s}$  at  $50^\circ\text{C}$ . The sound pressure level, obtained by calculating the noise value measured in the sound absorption measuring room, meets the requirements.

The distance between the measuring sensor and the hydraulic pump is 1 meter.

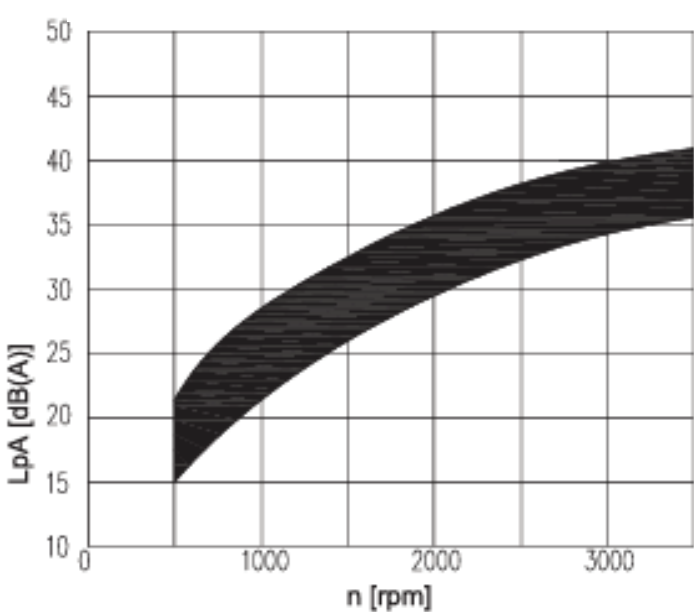
$V=0.19\text{cm}^3/\text{r}$



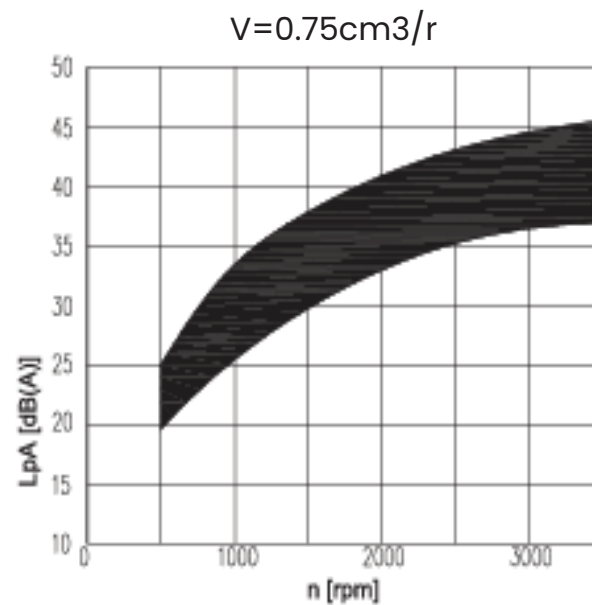
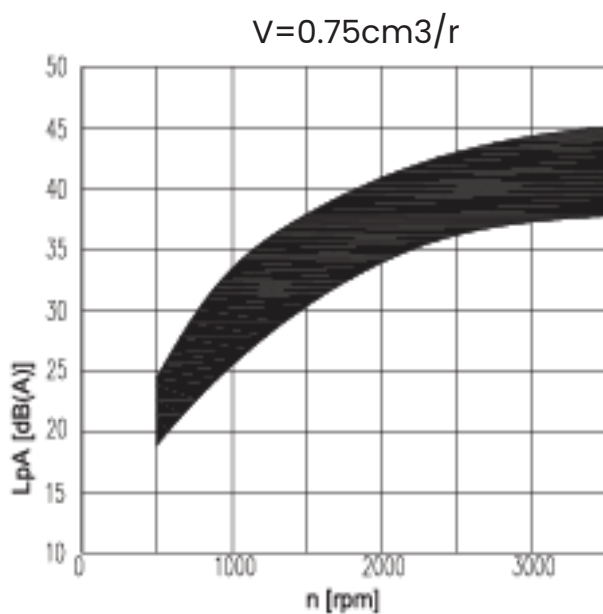
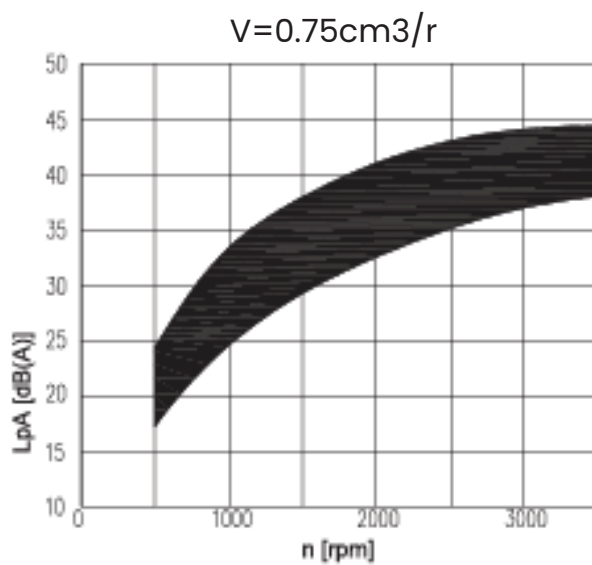
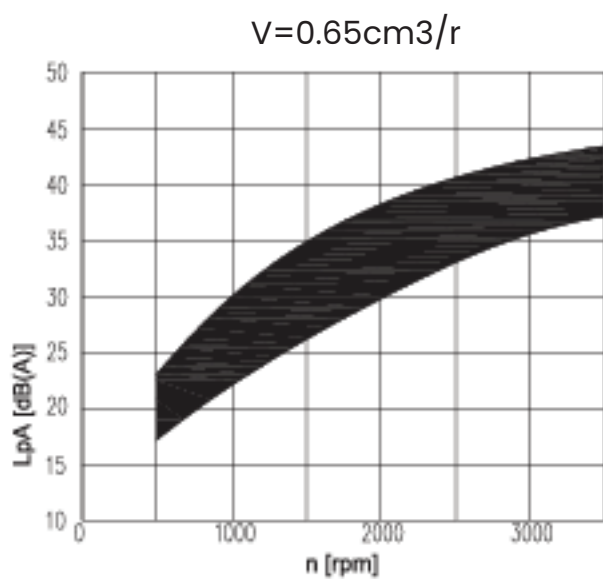
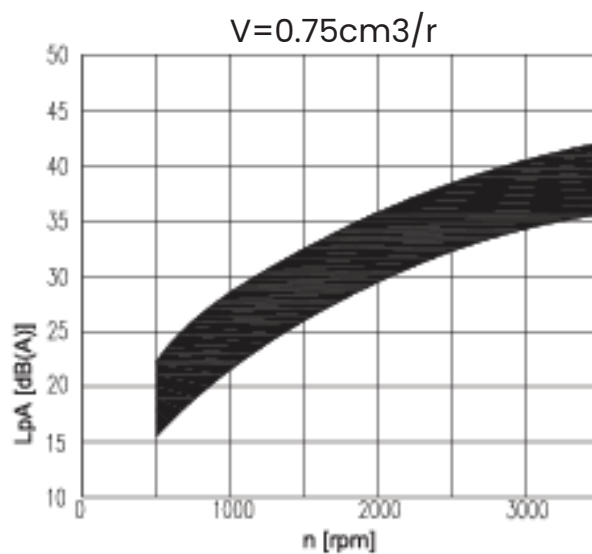
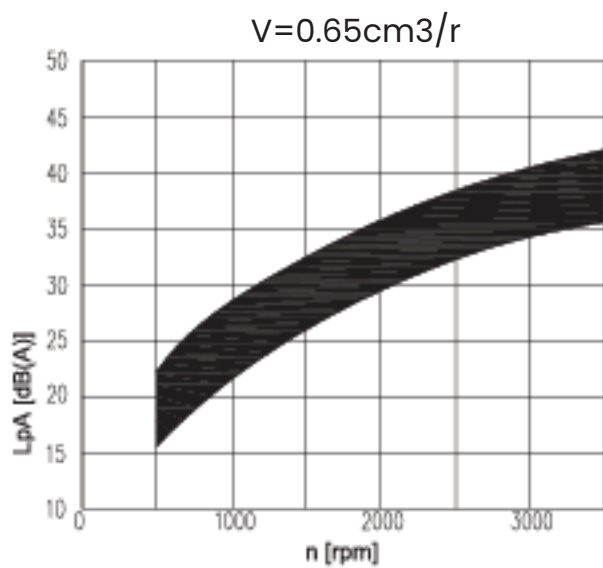
$V=0.26\text{cm}^3/\text{r}$

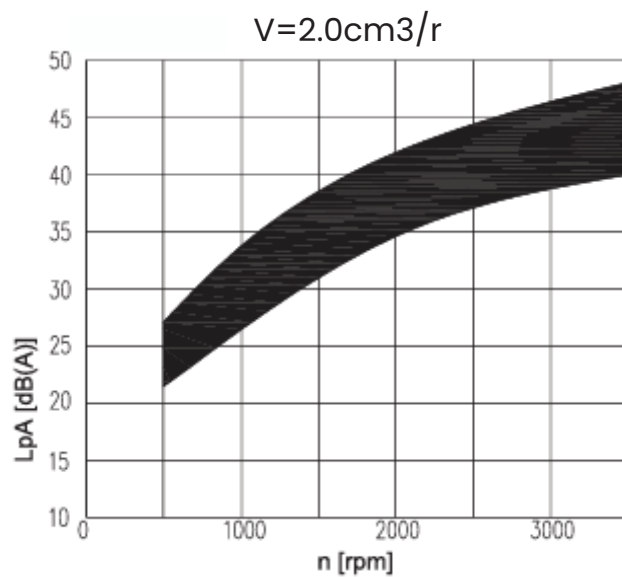
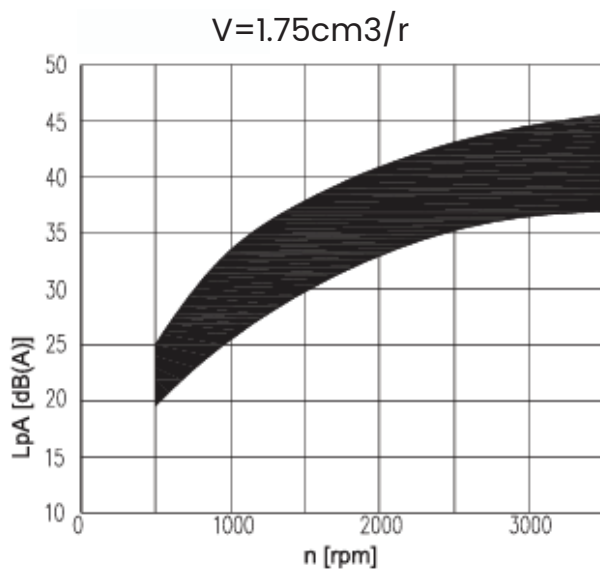


$V=0.19\text{cm}^3/\text{r}$



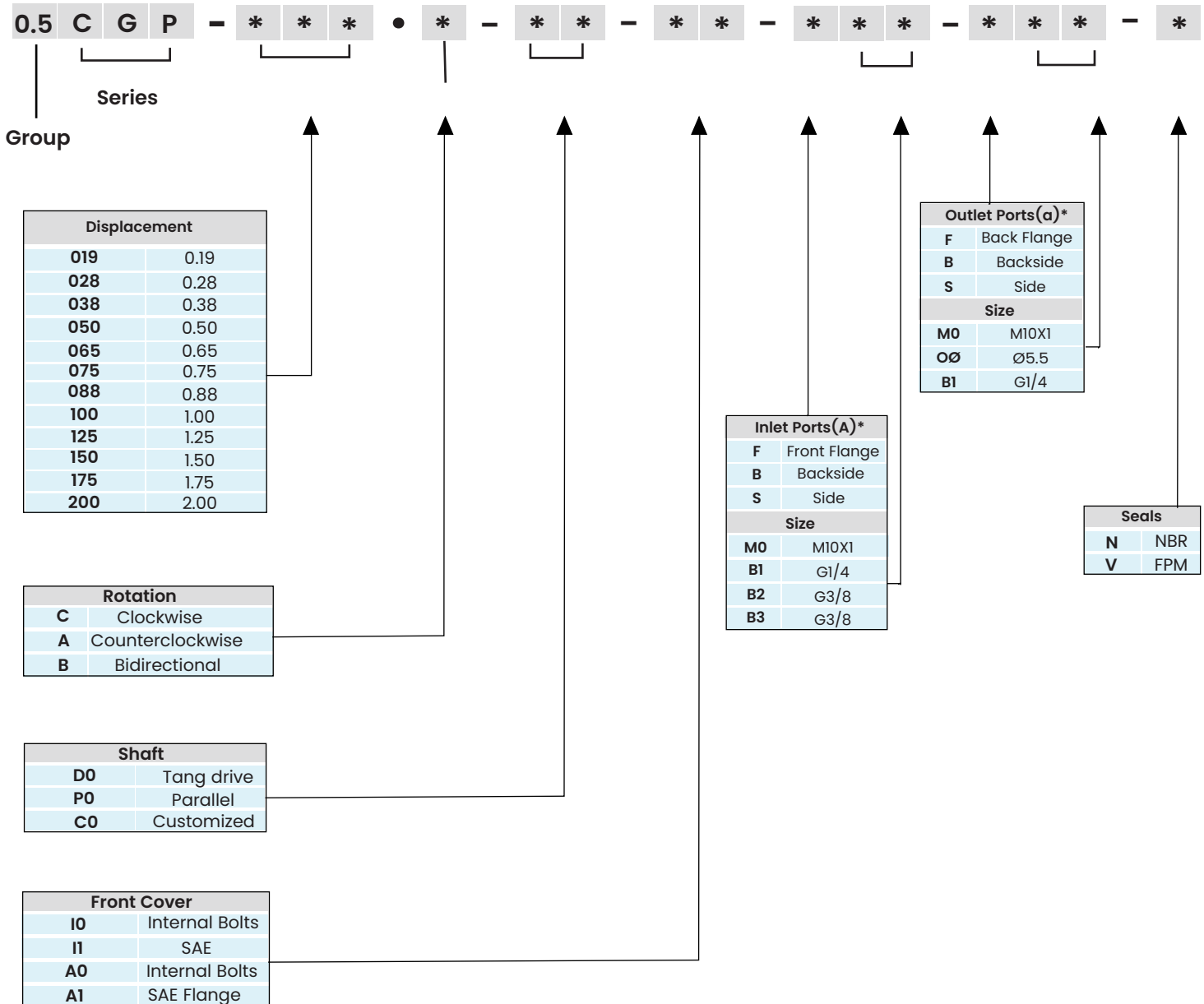
$V=0.38\text{cm}^3/\text{r}$

 Performance Curves



## Ordering Code

# 0.5CGP GEAR PUMPS



## On Requirement

- Inlet & Outlet Parts Of Variation size & Threadings
- Customized Drive Shafts

## Note

\*For Ports Please refer to Pg A3