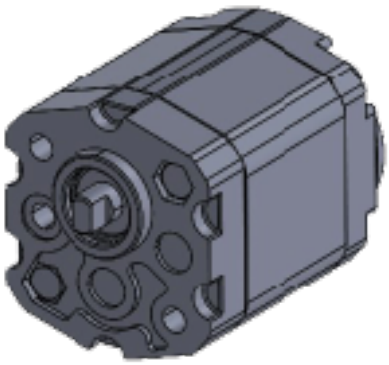
0.5CGP SERIES

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.

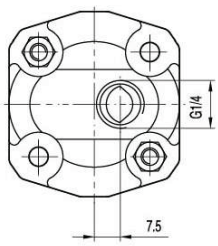
Hydraulic Symbol

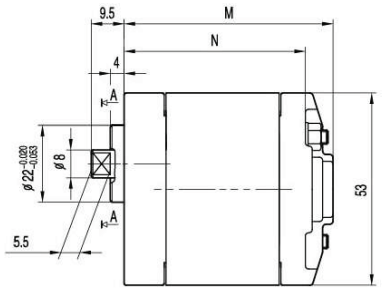
Technical Data

Type	Displacement (cm3/rev)	Max Pressure			Max Speed (r/min)	Min Speed (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

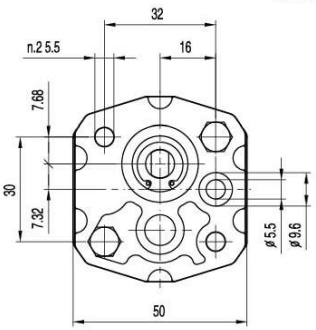
Dimensional Drawing

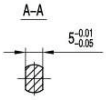
INLET



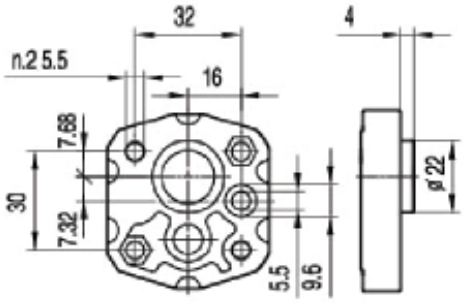


OUTLET

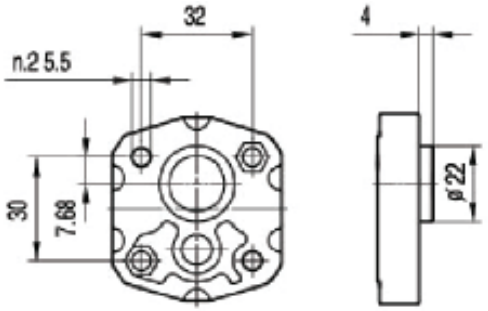




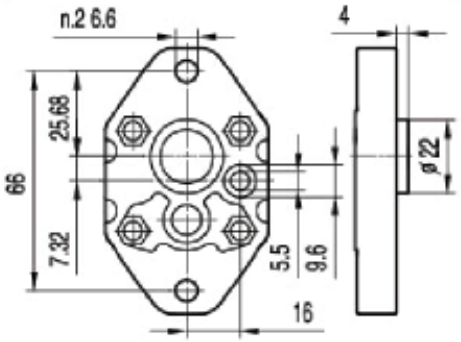
FRONT COVER



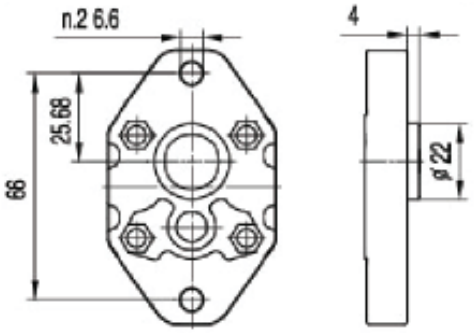
I0



I1

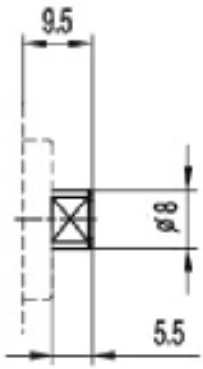


A0

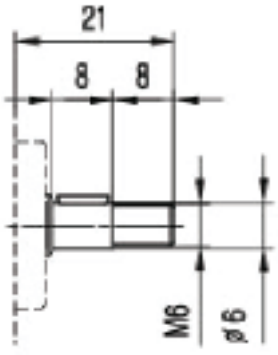


A1

SHAFTS



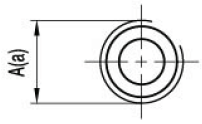
D0



P0

Ports

Inlet & Outlet Ports



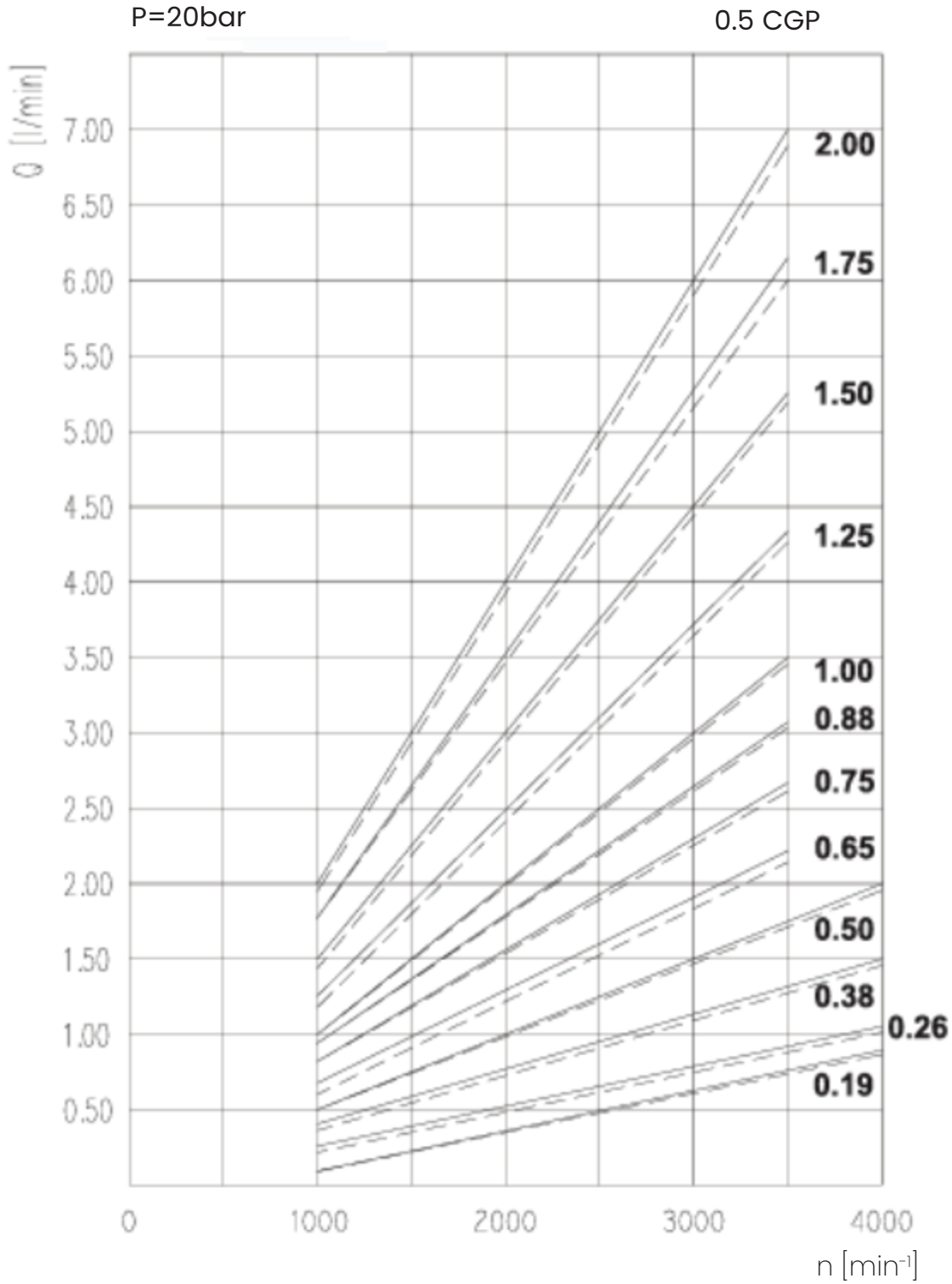
Port Code Description	Displacement	Location	
		Inlet Port	Outlet Port
B2 - BSP 1/8"	0.19 To 2.00	B,S	B,S
B4 - BSP 1/4"	0.19 To 2.00	B,S	B,S
B6 - BSP 3/8"	0.19 To 2.00	B,S	B,S
M0 - M10X1	0.19 To 2.00	B,S	B,S

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

Performance Curves

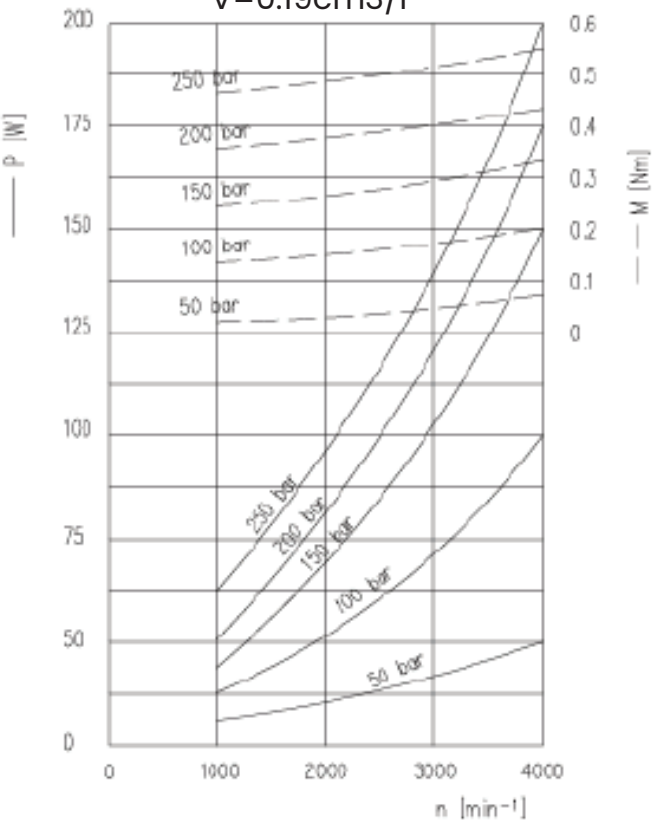
Flow Performance of 0.5 CGP



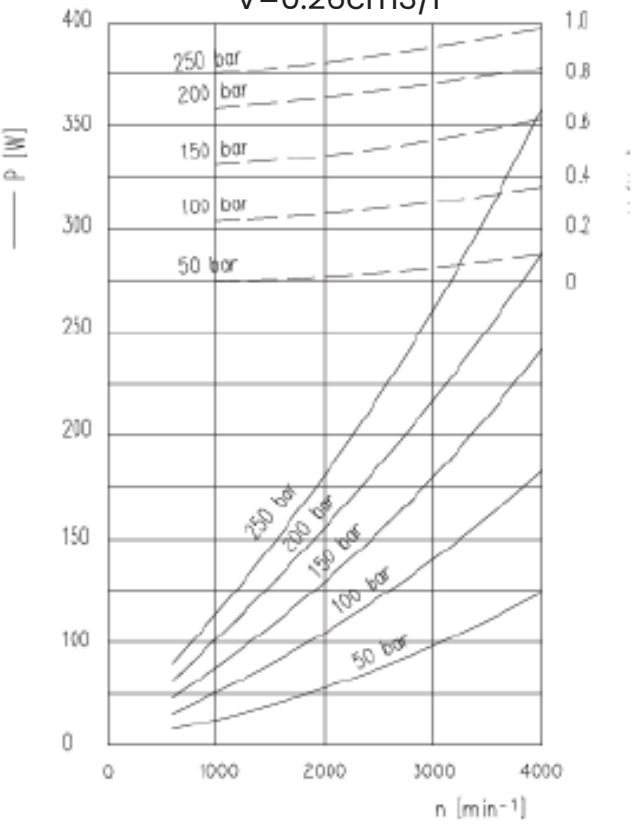
Performance Curves

Power Performance Curve Of 0.5CGP

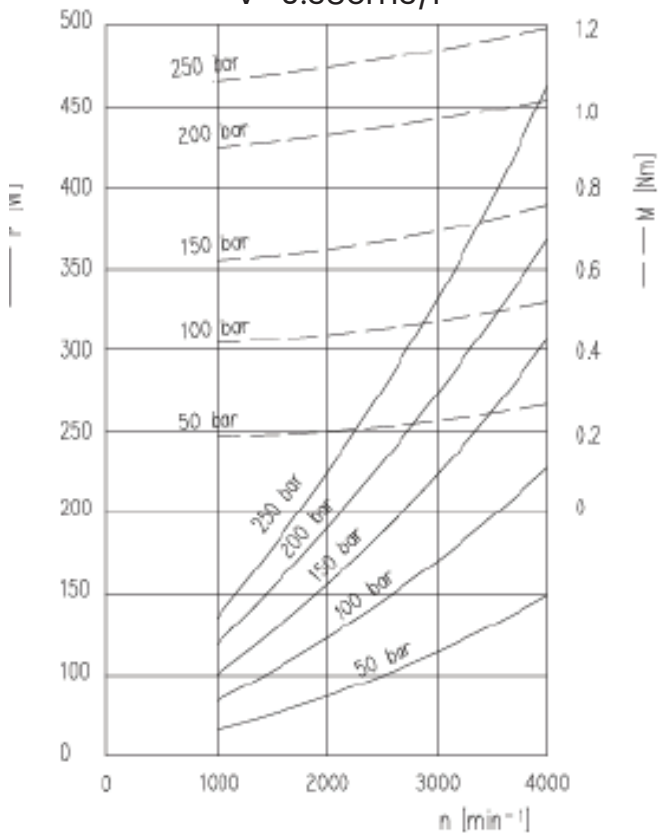
V=0.19cm3/r



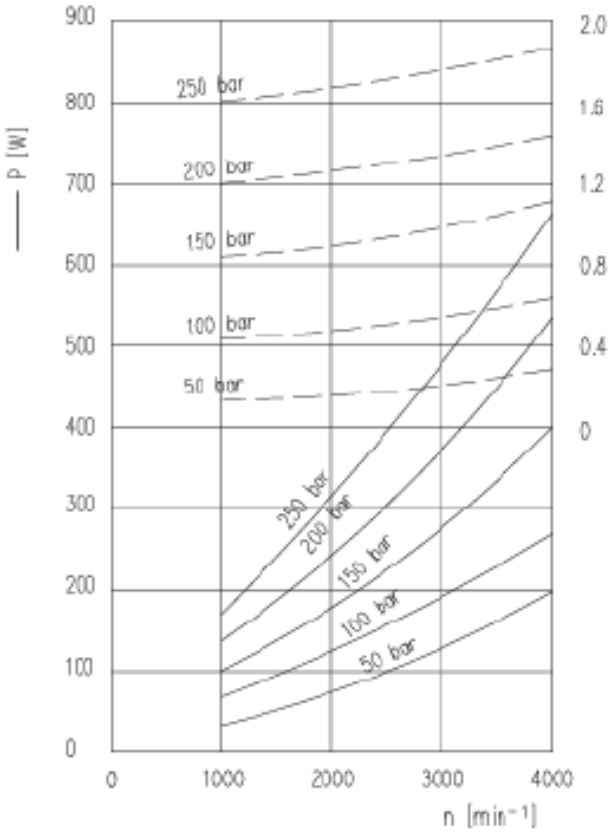
V=0.26cm3/r



V=0.38cm3/r

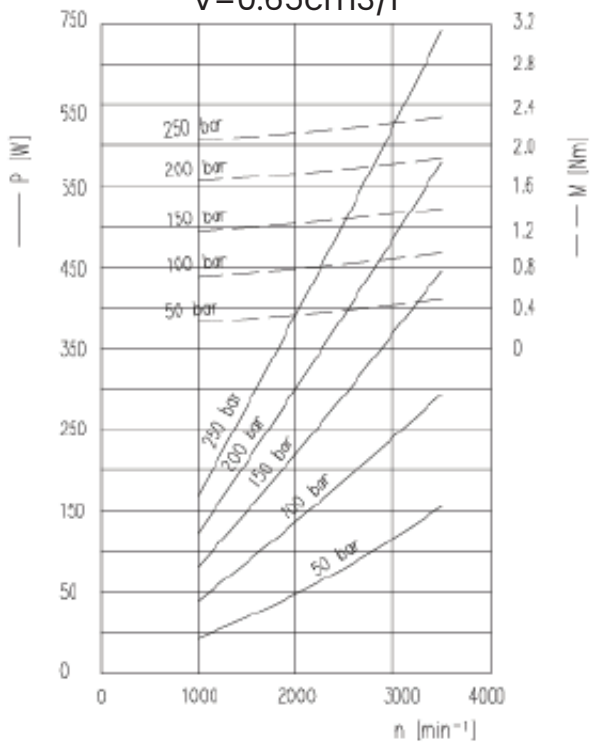


V=0.5cm3/r

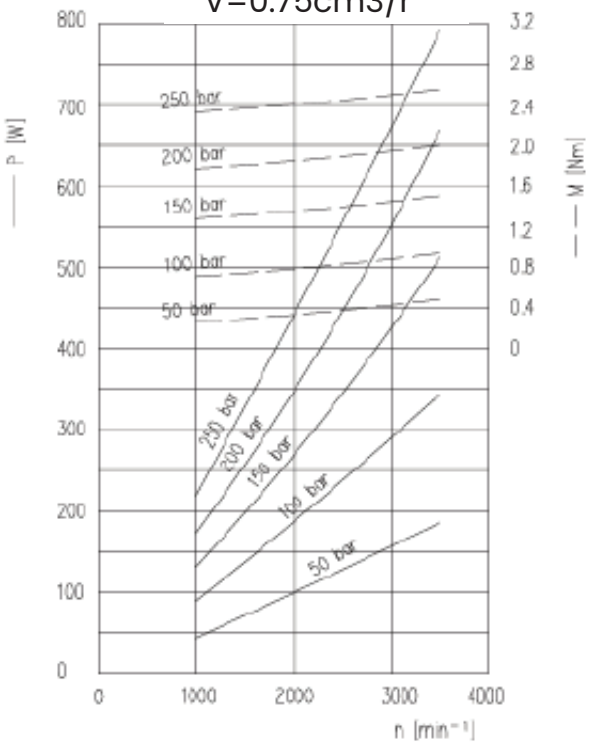


Performance Curves

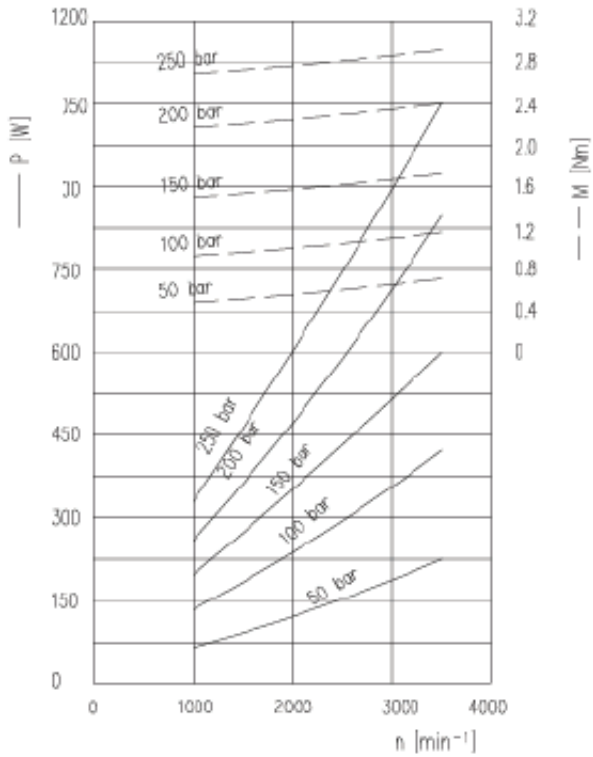
V=0.65cm3/r



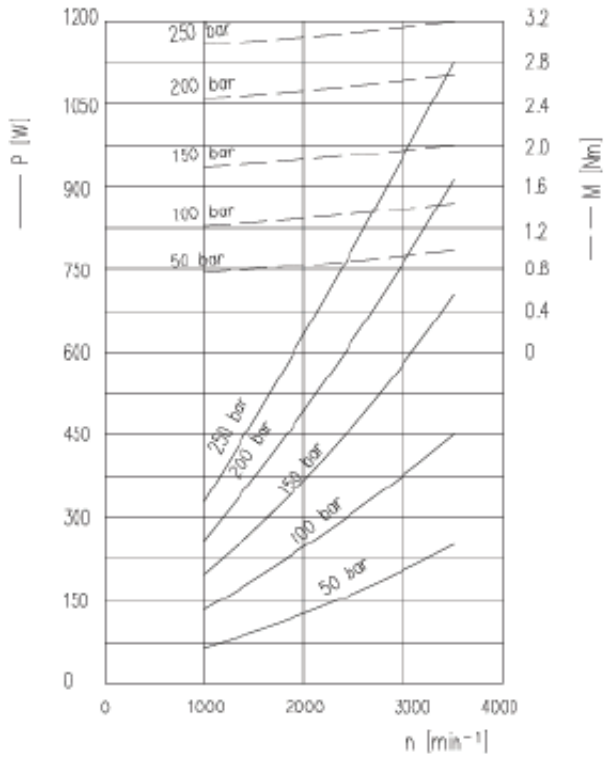
V=0.75cm3/r



V=0.88cm3/r

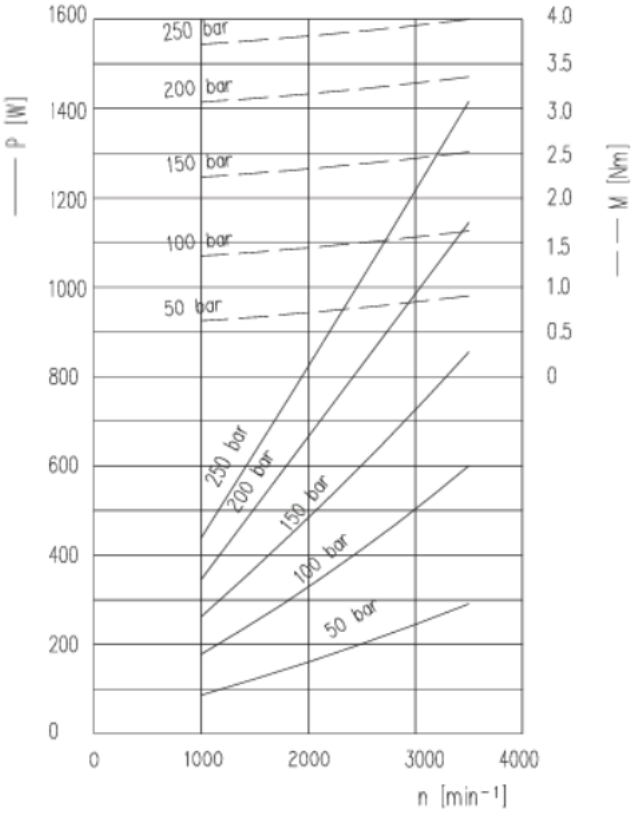


V=1.00cm3/r

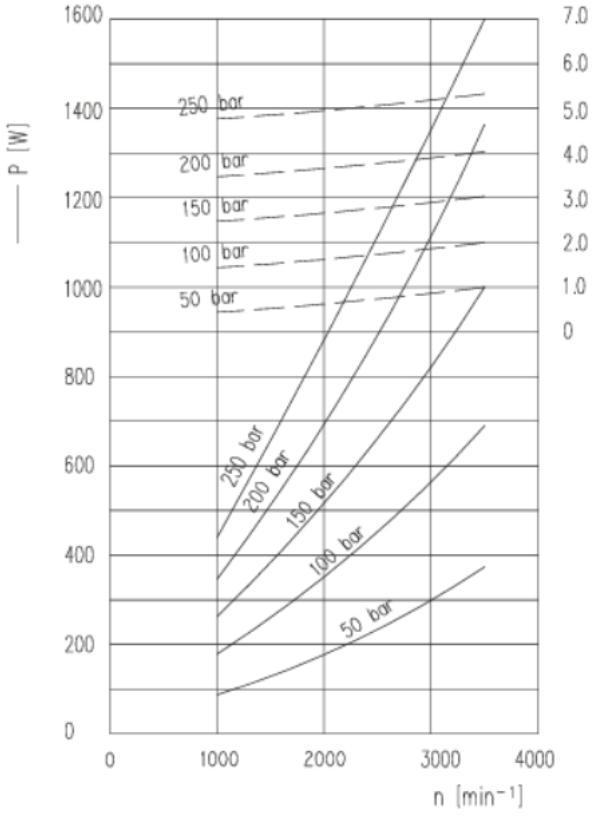


Performance Curves

V=0.65cm3/r



V=0.75cm3/r



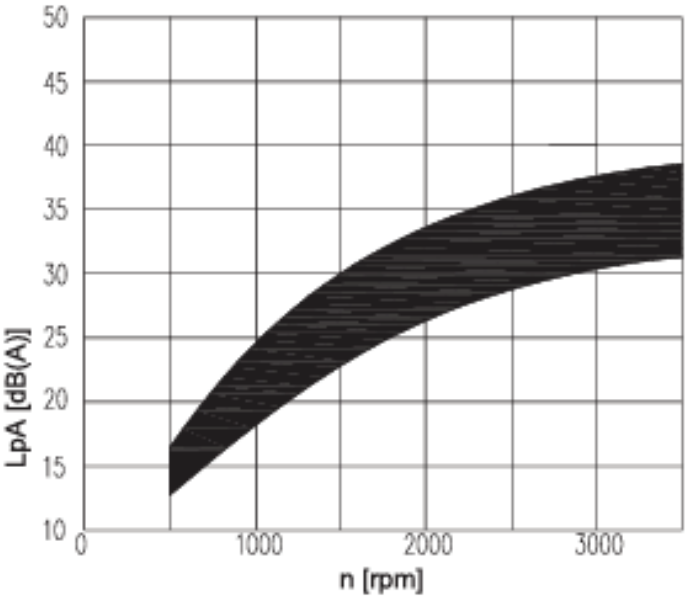
Noise Curve Table Of 0.5CGP

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

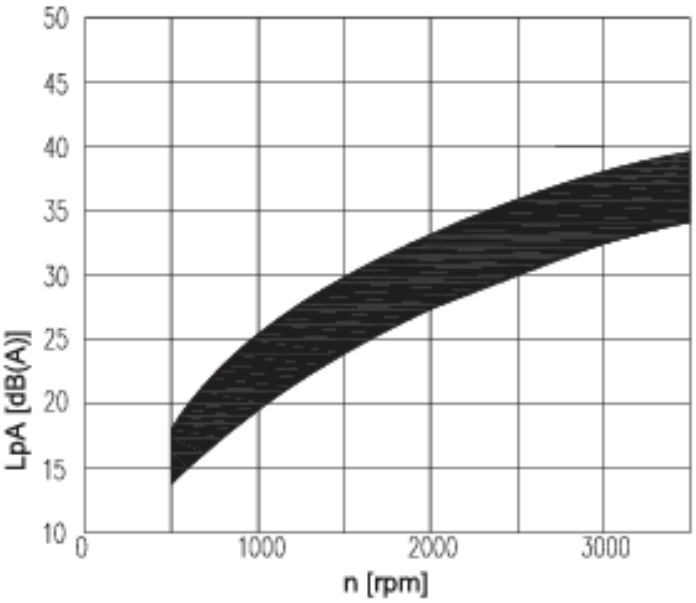
Oil data: V = 32 mm²/s at 50°C. The sound pressure level, obtained by calculating the noise value measured in the sound absorption measuring room, meets the requirements.

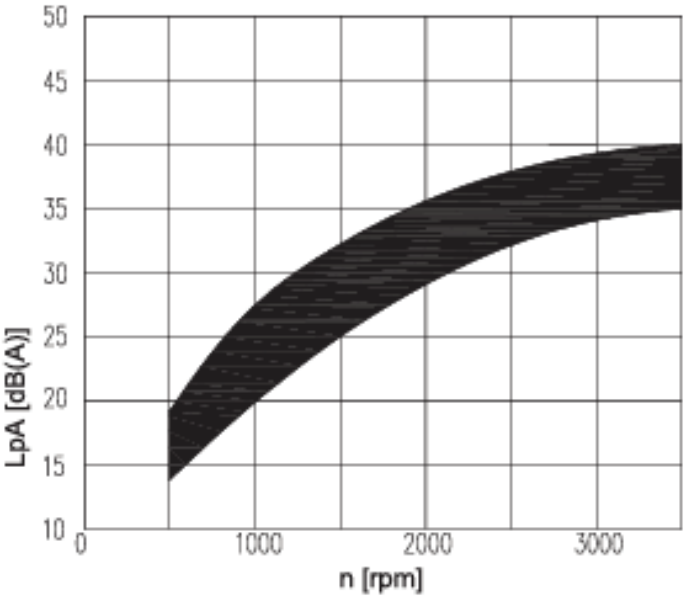
The distance between the measuring sensor and the hydraulic pump is 1 meter.

V=0.19cm3/r

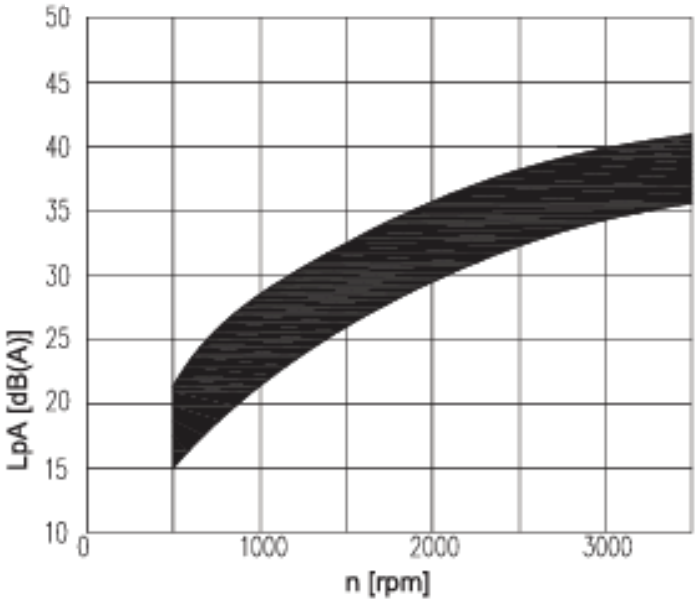


V=0.26cm3/r





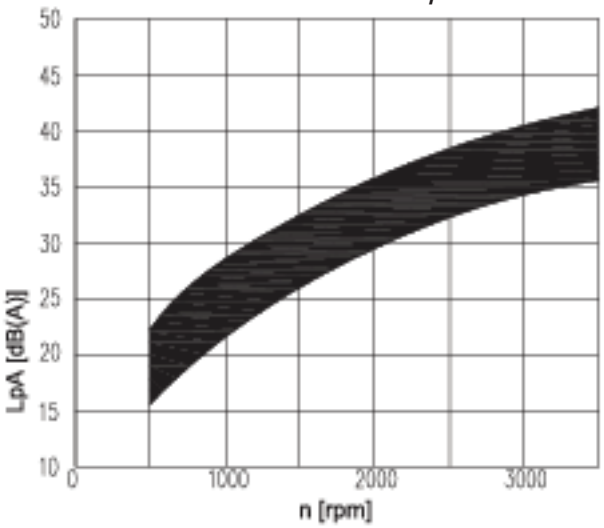
V=0.19cm3/r



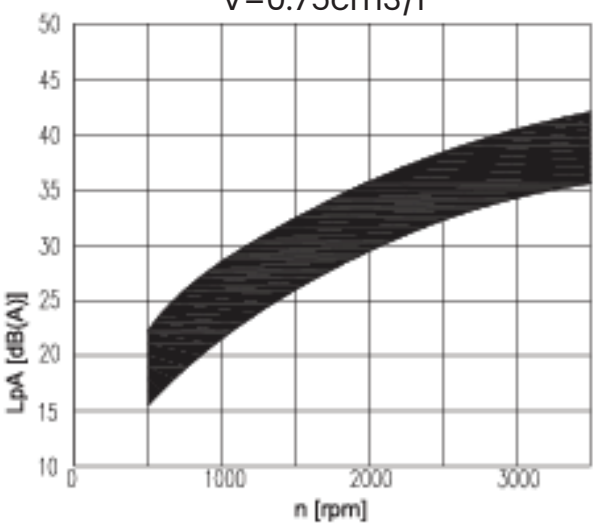
V=0.38cm3/r

Performance Curves

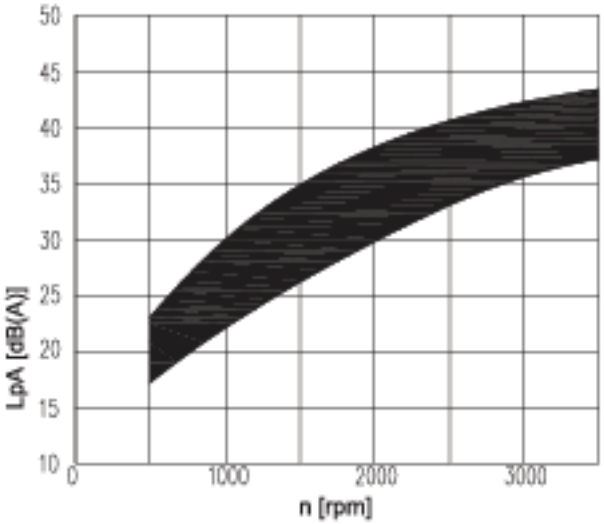
V=0.65cm3/r



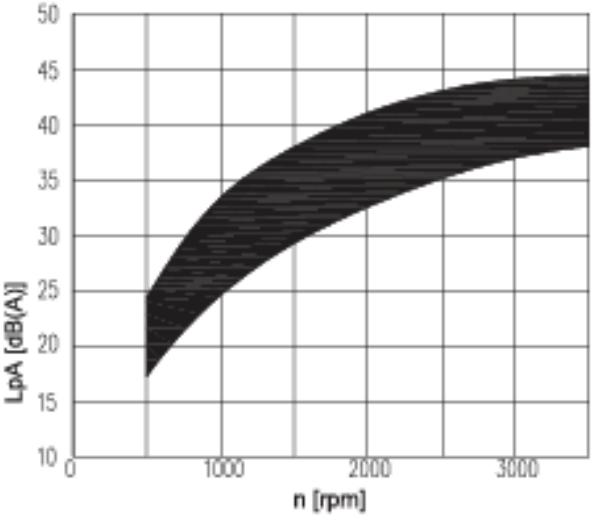
V=0.75cm3/r



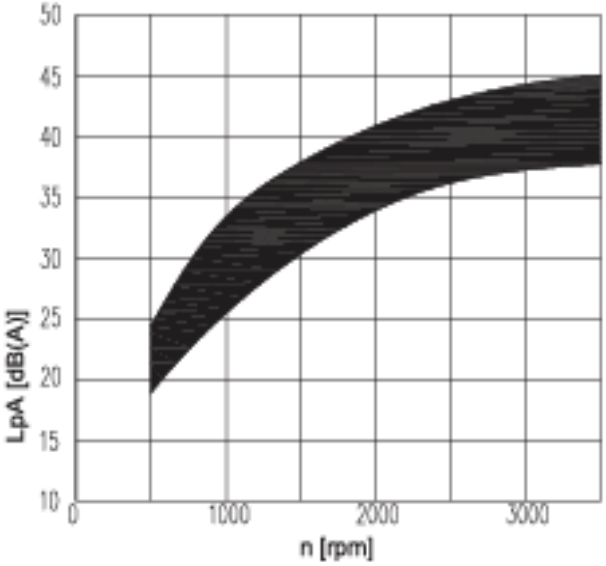
V=0.65cm3/r



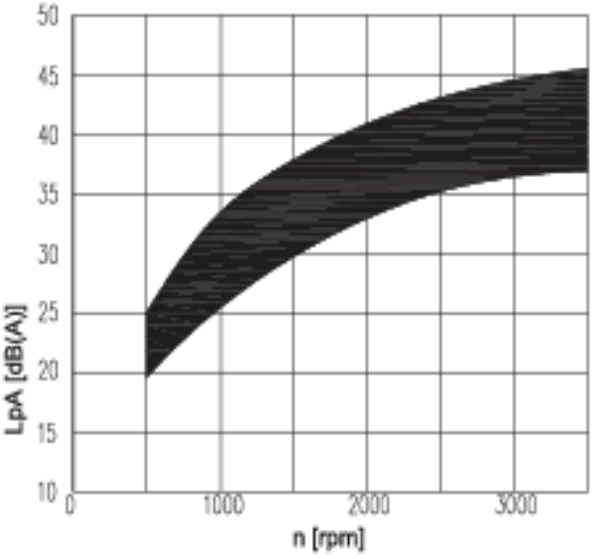
V=0.75cm3/r



V=0.75cm3/r

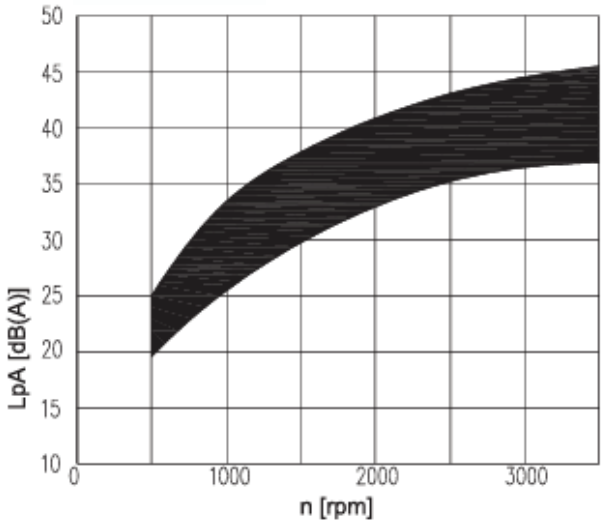


V=0.75cm3/r

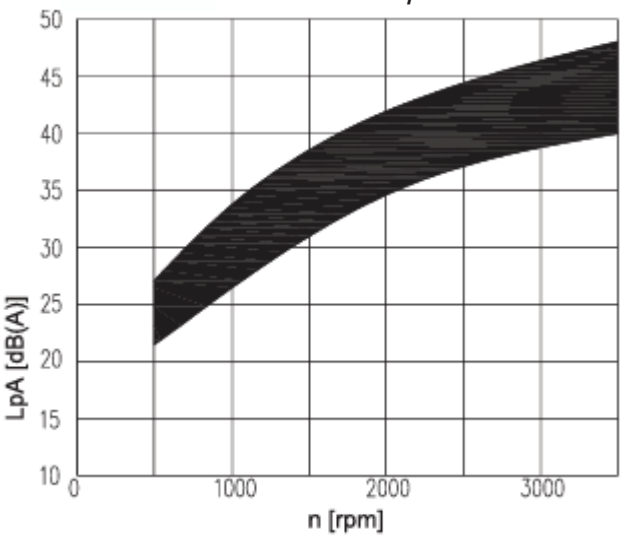


Performance Curves

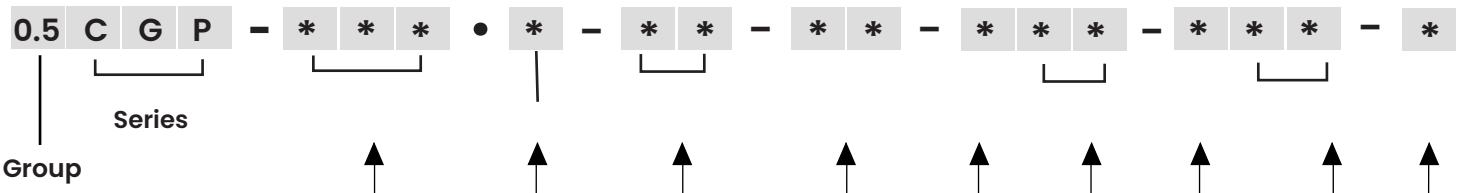
V=1.75cm3/r



V=2.0cm3/r



Ordering Code



Displacement	
019	0.19
028	0.28
038	0.38
050	0.50
065	0.65
075	0.75
088	0.88
100	1.00
125	1.25
150	1.50
175	1.75
200	2.00

Rotation	
C	Clockwise
A	Counterclockwise
B	Bidirectional

Shaft	
D0	Tang drive
P0	Parallel
C0	Customized

Front Cover	
I0	Internal Bolts
I1	Internal Bolts
A0	Flange
A1	Flange

Inlet Ports(A)*	
F	Front Flange
B	Backside
S	Side
Size	
M0	M10X1
B2	G1/8
B4	G1/4
B6	G3/8

Outlet Ports(a)*	
F	Back Flange
B	Backside
S	Side
Size	
M0	M10X1
OØ	Ø5.5
B1	G1/4

Seals	
N	NBR
V	FPM

On Requirement

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

Note

***For Ports Please refer to Pg A3**