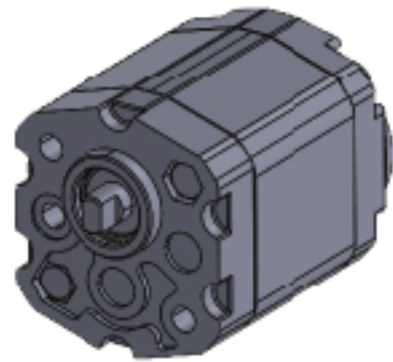


1 CGP SERIES

Displacement 0.8 to 8.0CC
Maximum Pressure up to 250 Bar.



Hydraulic Symbol

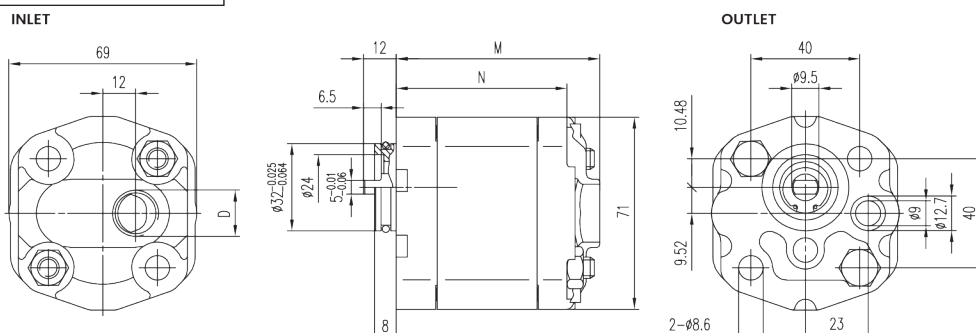
Description & Operation

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.

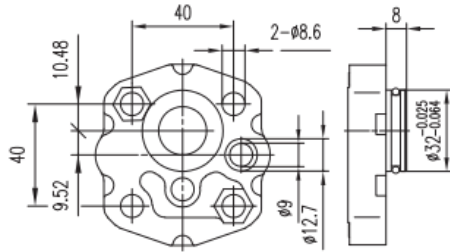
Technical Data

Type	Displacement (cm ³ /rev)	Max Pressure			Max Speed (r/min)	Min Speed (r/min)	Dimension	
		P1(BAR)	P2(BAR)	P3(BAR)			(m/m)	mm
1CGP-0.8	0.8	230	250	270	6000	1000	73.5	61.5
1CGP-1.1	1.1	230	250	270	6000	1000	74	62
1CGP-1.3	1.3	230	250	270	6000	1000	75	63
1CGP-1.6	1.6	230	250	270	6000	1000	76	64
1CGP-1.8	1.8	230	250	270	6000	1000	77	65
1CGP-2.1	2.1	230	250	270	6000	1000	78	66
1CGP-2.7	2.7	230	250	270	6000	800	80	68
1CGP-3.2	3.2	210	230	250	5000	800	82	70
1CGP-3.7	3.7	210	230	250	4500	800	84	72
1CGP-4.2	4.2	210	230	250	4000	600	86	74
1CGP-4.8	4.8	190	210	230	3500	600	88	76
1CGP-5.8	5.8	190	210	230	3000	600	92	80
1CGP-7.0	7.0	160	180	200	2500	600	96	84
1CGP-8.0	8.0	160	180	200	2500	600	100	88

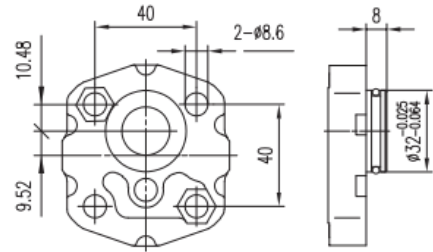
Dimensional Drawing



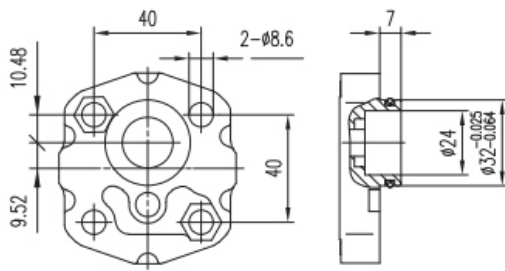
FRONT COVER



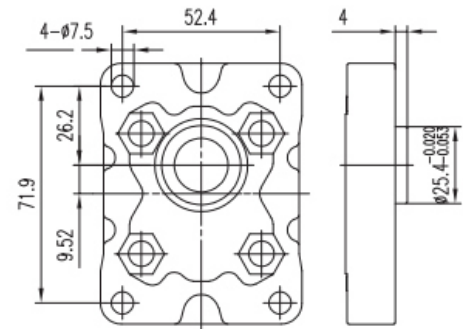
I0



I1

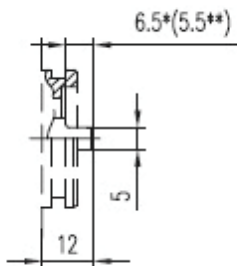


I2

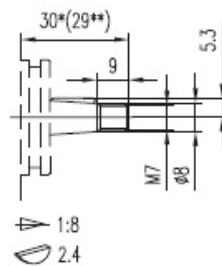


R0

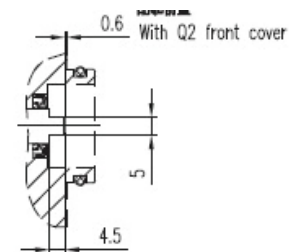
SHAFTS



D0

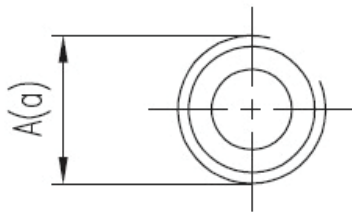


T0

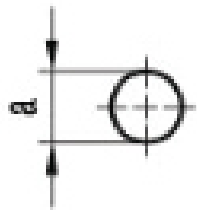


O0

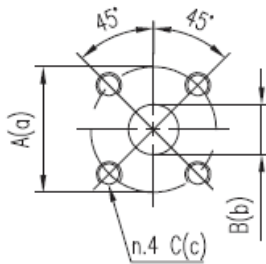
Inlet & Outlet Ports



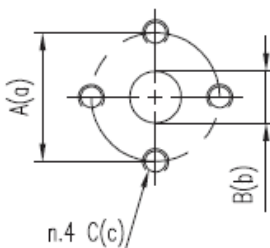
Port Code Description	Displacement	Location	
		Inlet Port	Outlet Port
B2 - BSP 1/4"	0.8 To 8.0	B,S	B,S
B3 - BSP 3/8"		S	S
B4 - BSP 1/2"		S	S
N2 - NPT 1/4"	0.8 To 8.0	B,S	B,S
N3 - NPT 3/8"		S	S
N4 - NPT 1/2"		S	S



Port Code Description	Displacement	Location	
		Inlet Port	Outlet Port
O0 - O Ring 9 mm	0.8 To 8.0	-	F

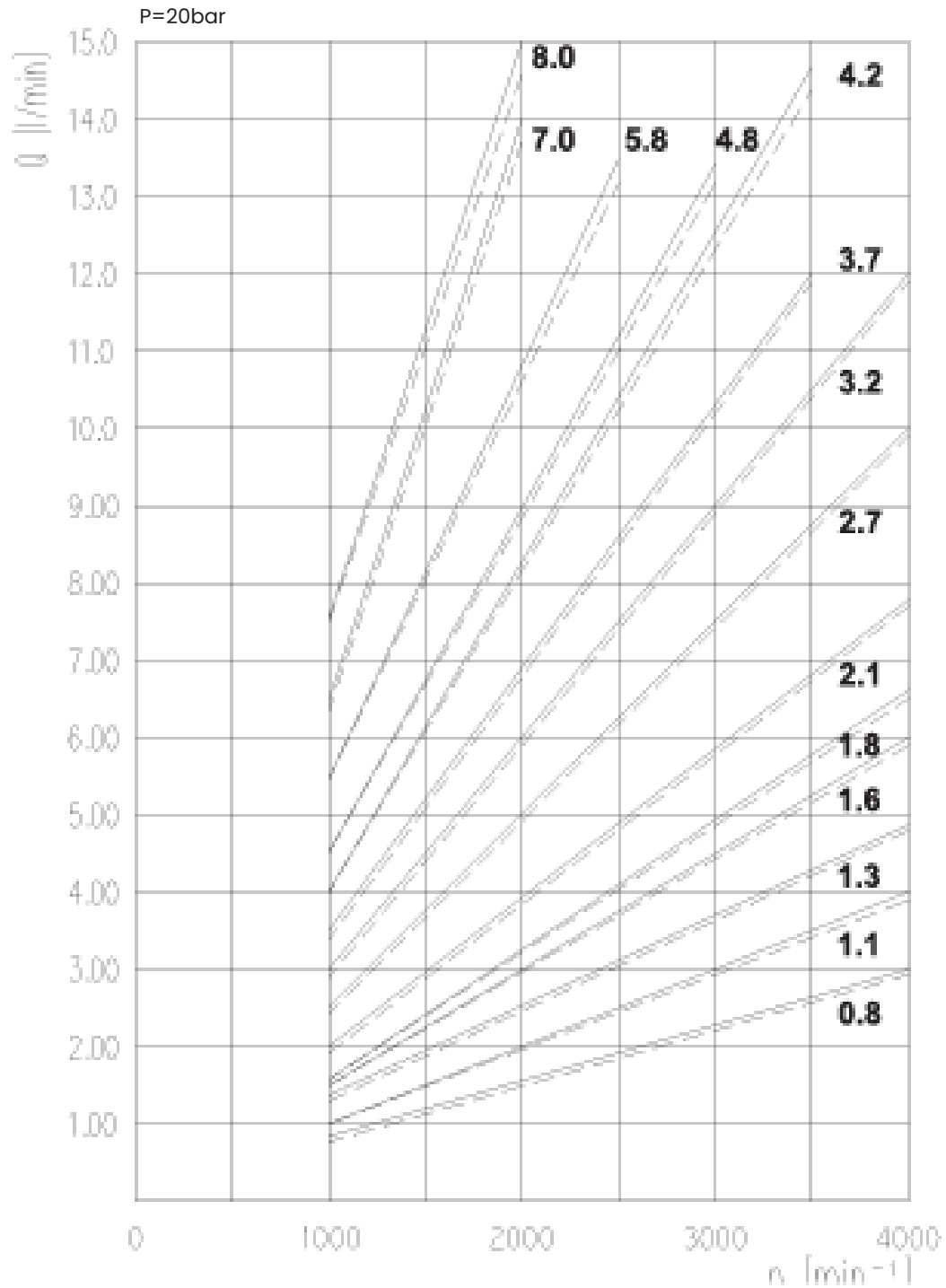


Port Code Description	Displacement	Location					
		Inlet Port			Outlet Port		
	(cm ³ /rev)	A	B	C	a	b	c
R0	0.8 To 8.0	30	12	M6	30	12	M6



Port Code Description	Displacement	Location					
		Inlet Port			Outlet Port		
	(cm ³ /rev)	A	B	C	a	b	c
F0	0.8 To 8.0	30	12	M6	30	12	M6

Flow Performance Curve Of ICGP

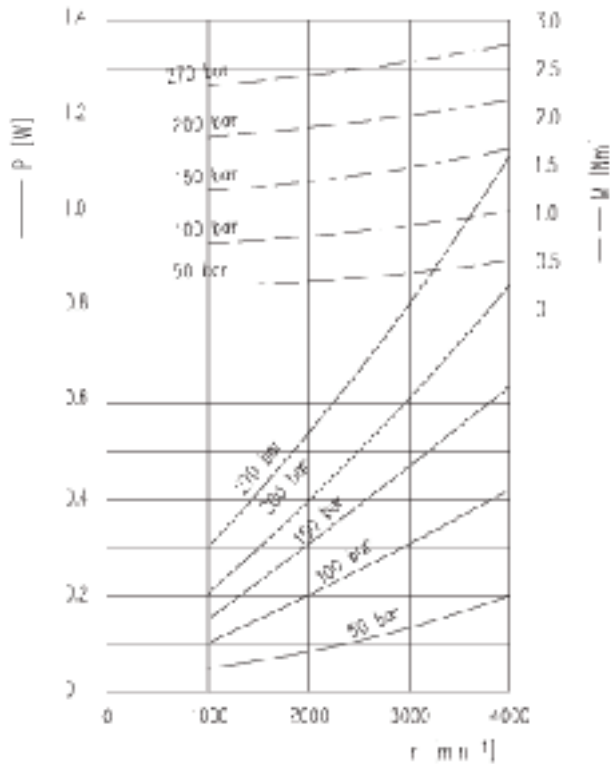




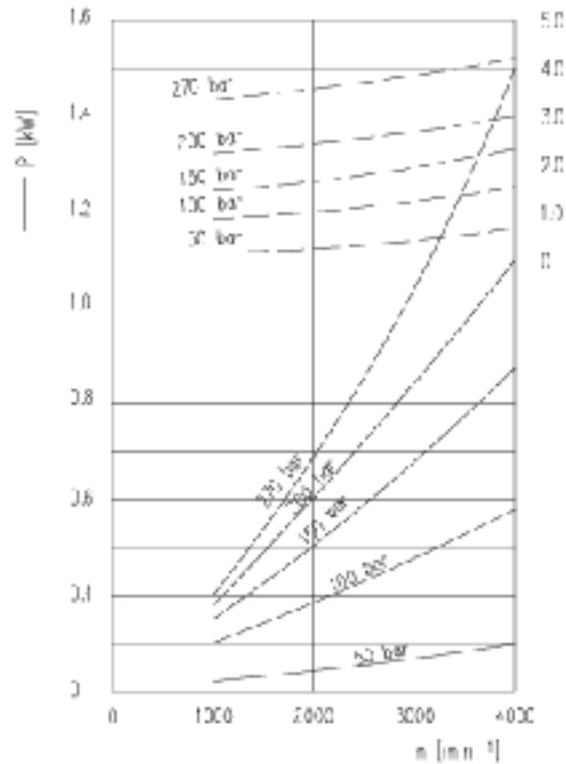
Performance Curves

ICGP GEAR PUMPS

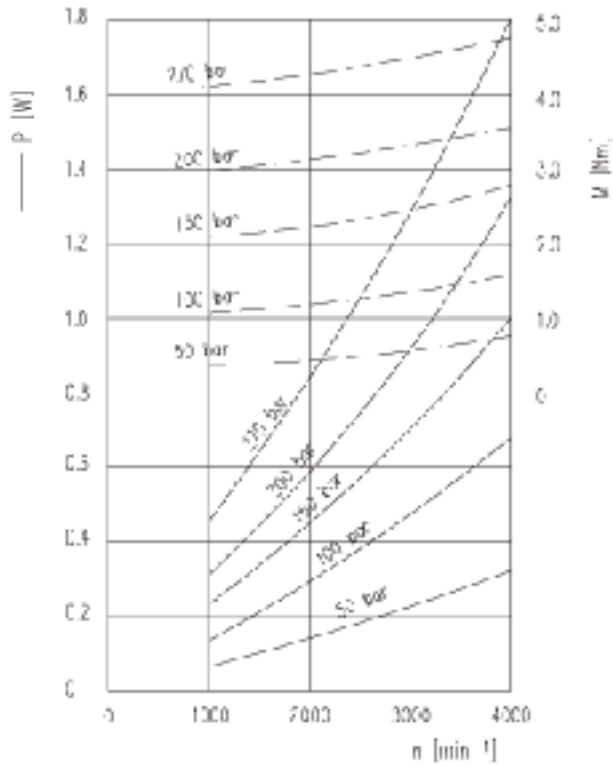
V=0.80CM3/Rev



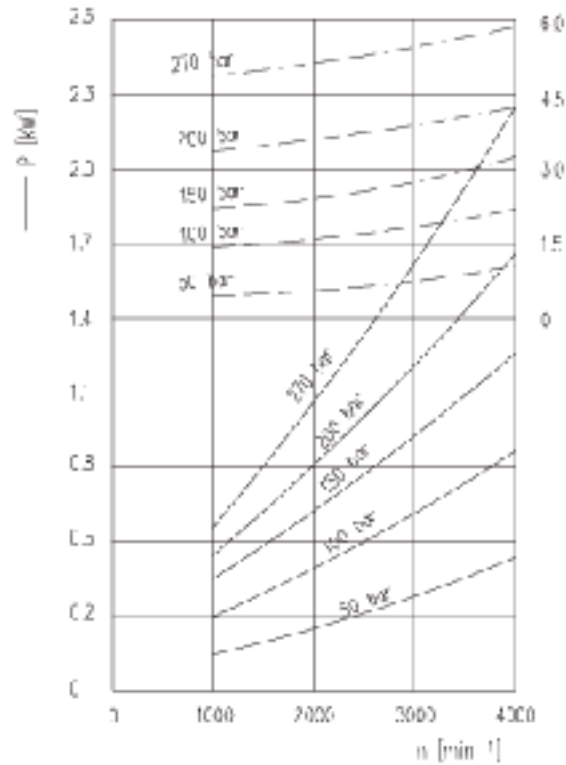
V=1.10CM3/r



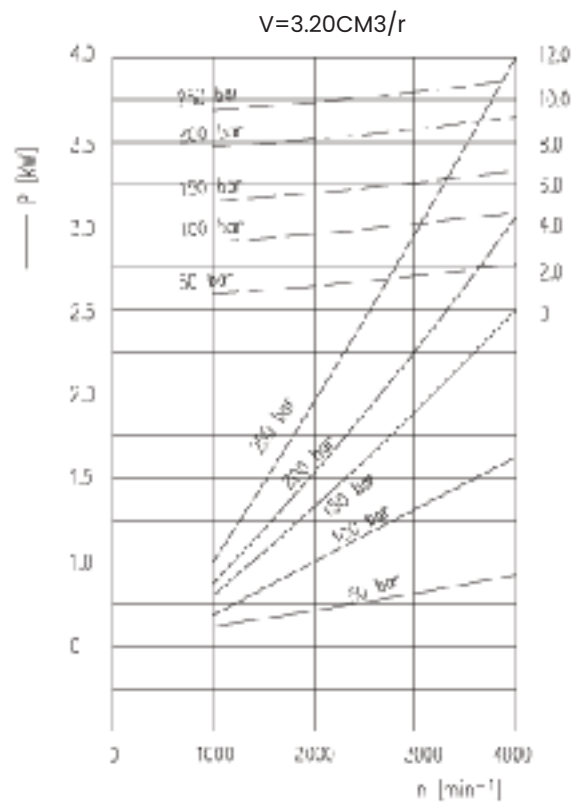
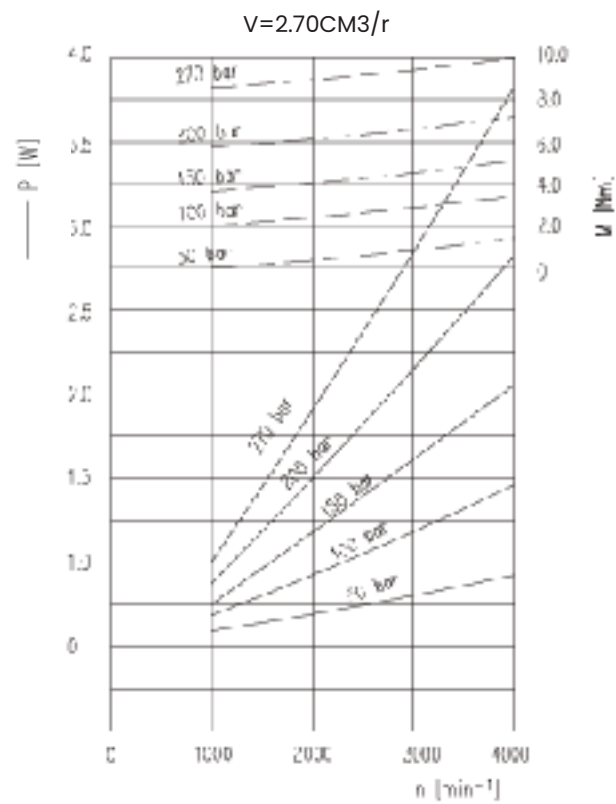
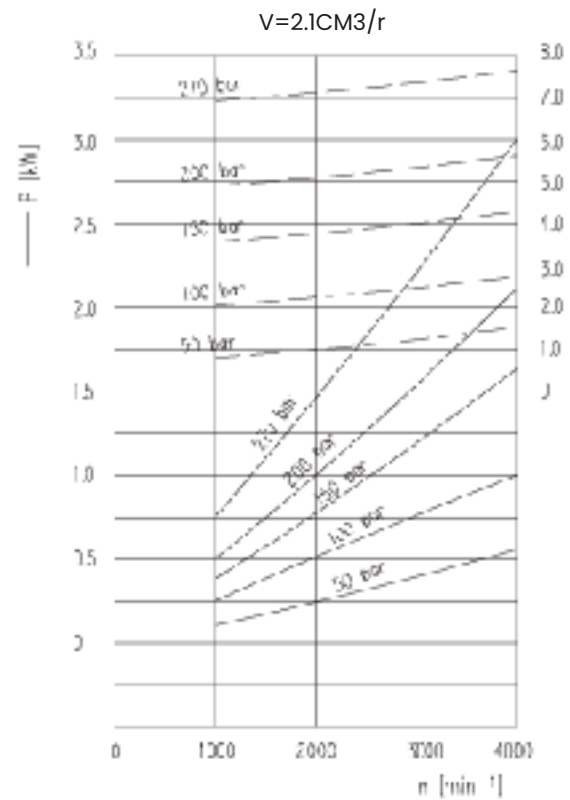
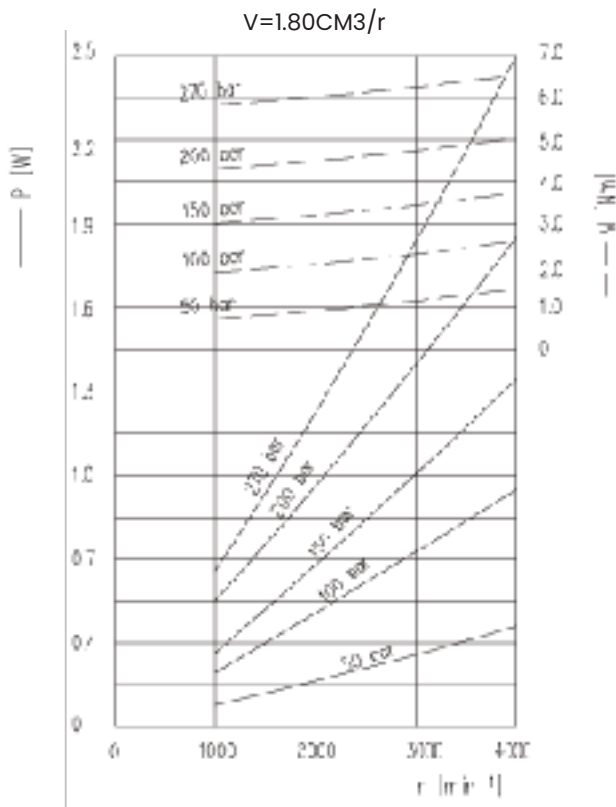
V=1.30CM3/r



V=1.60CM3/r

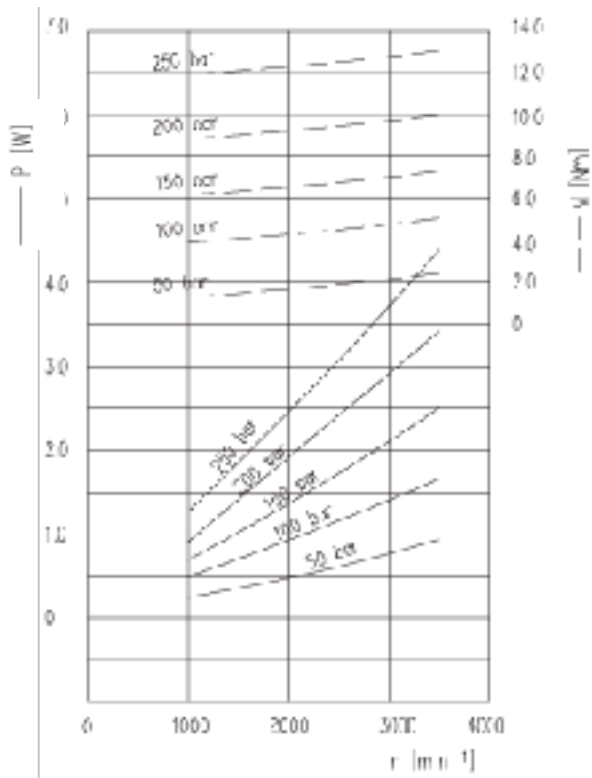


Performance Curves

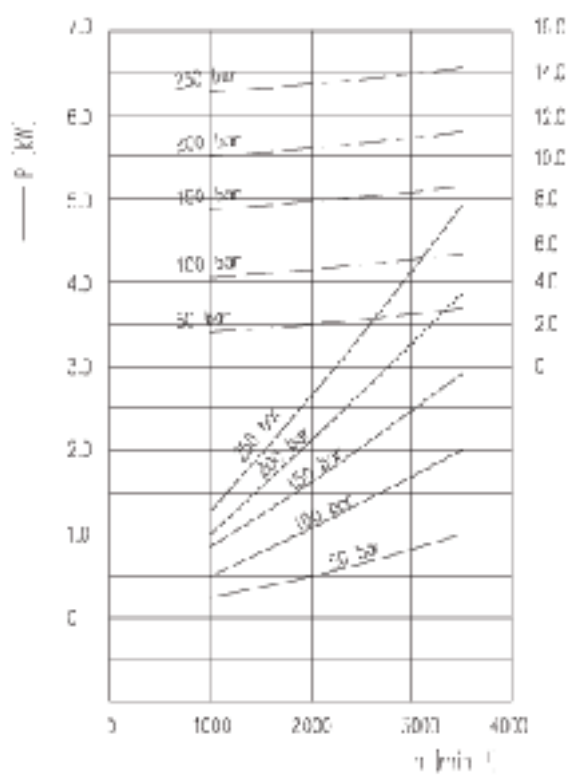




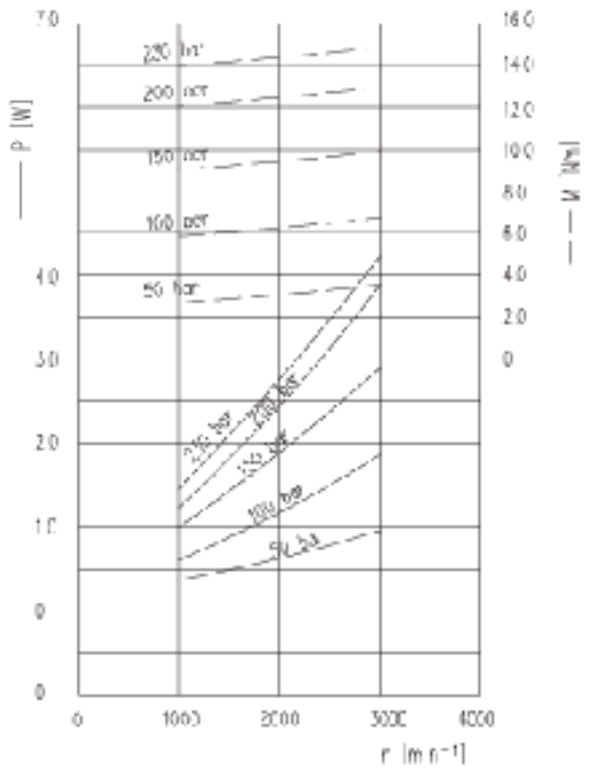
$V=3.70\text{CM}^3/\text{r}$



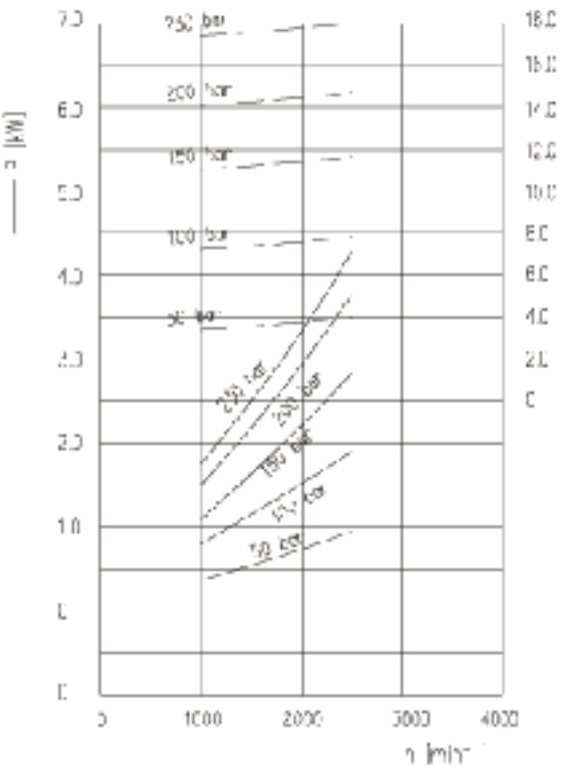
$V=4.20\text{CM}^3/\text{r}$

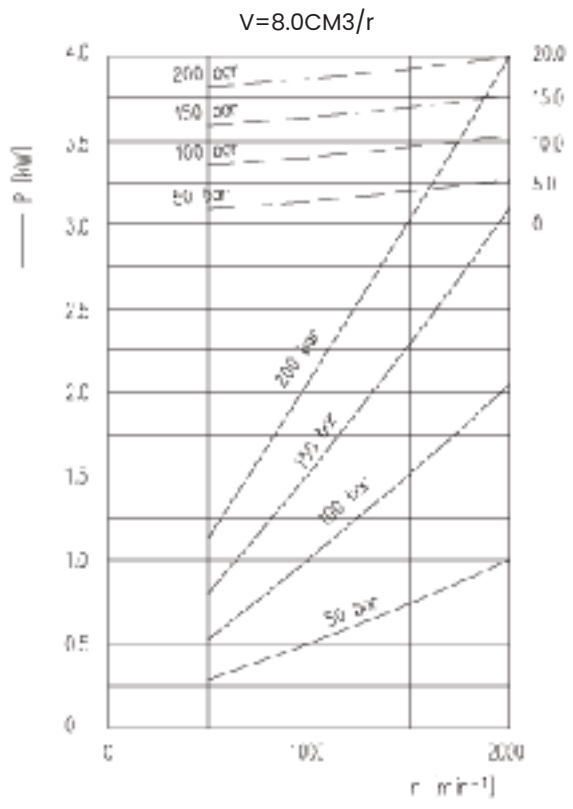
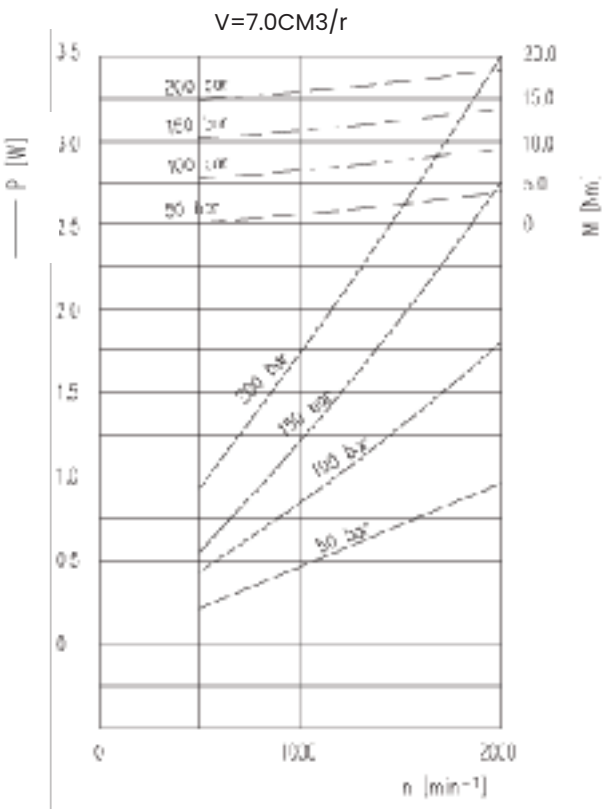


$V=4.80\text{CM}^3/\text{r}$



$V=5.80\text{CM}^3/\text{r}$



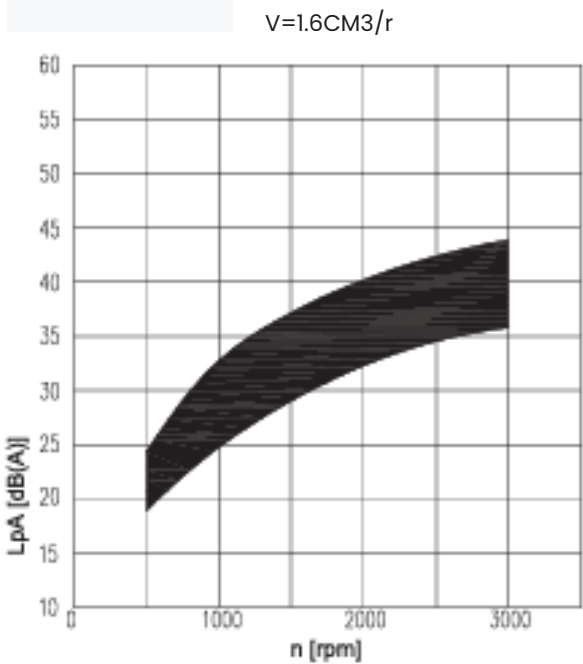
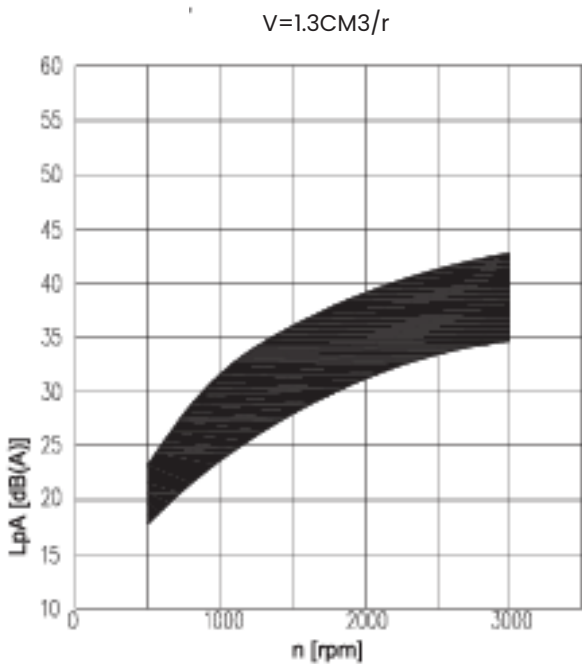
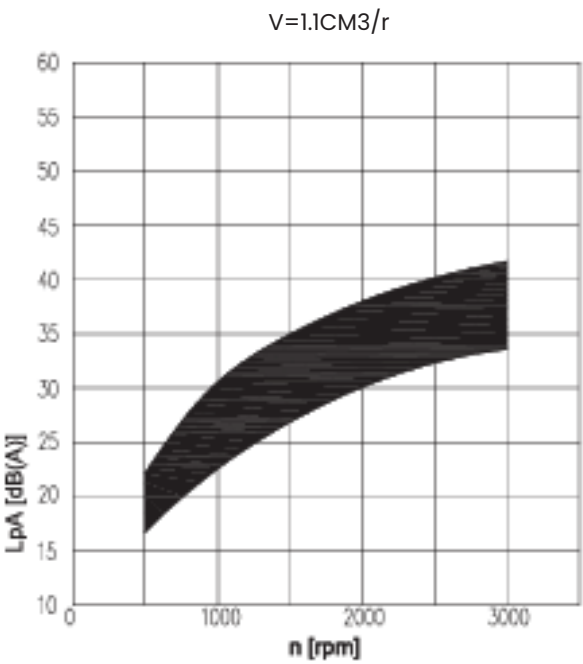
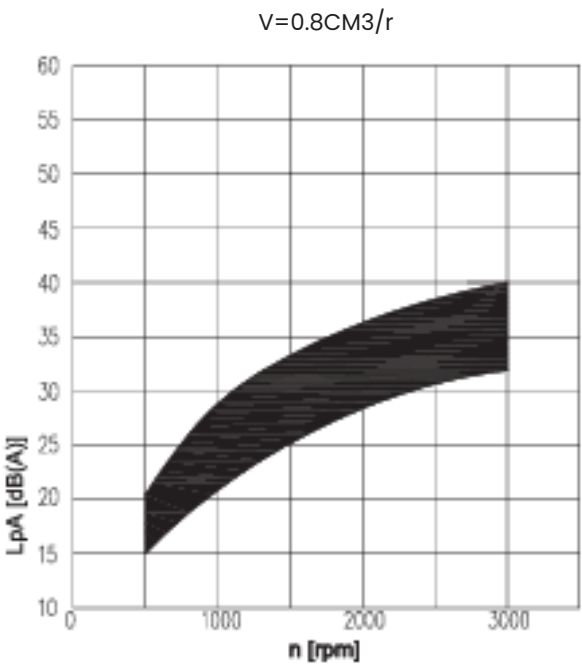


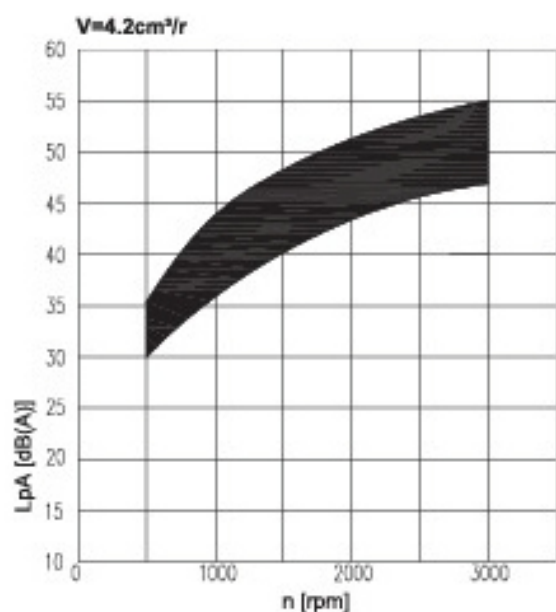
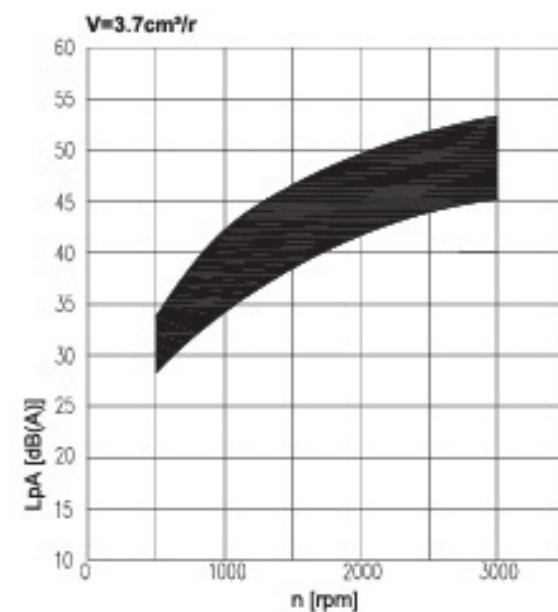
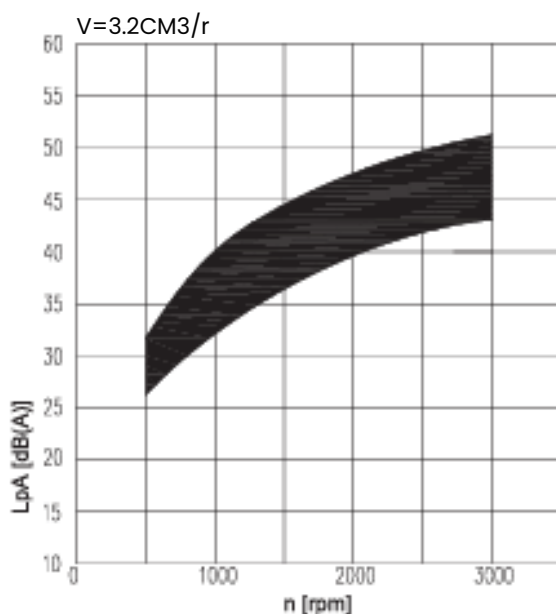
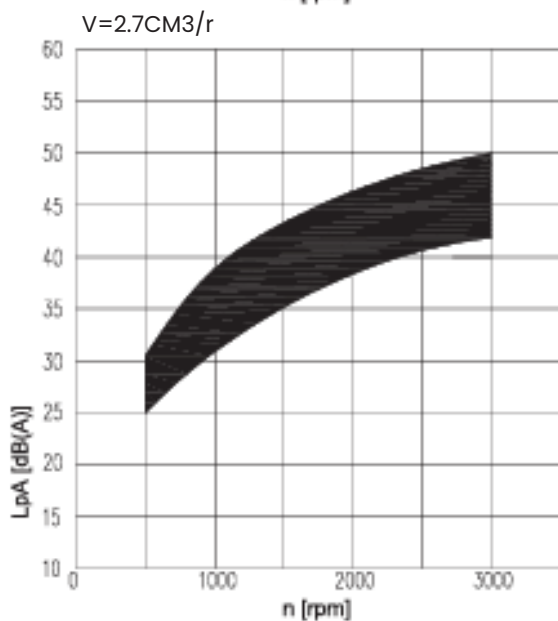
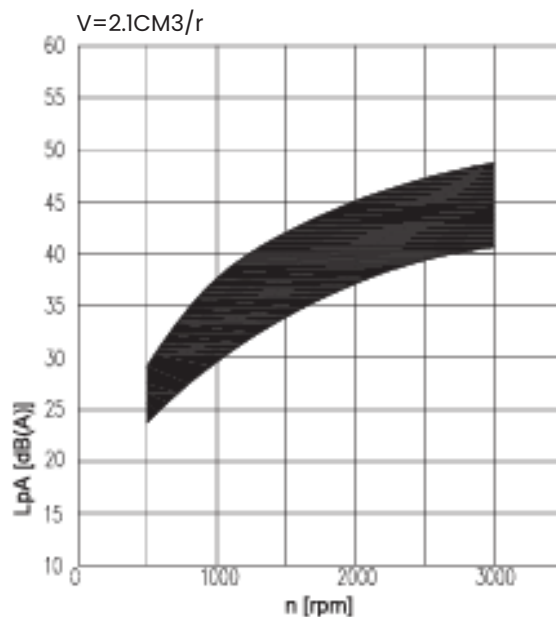
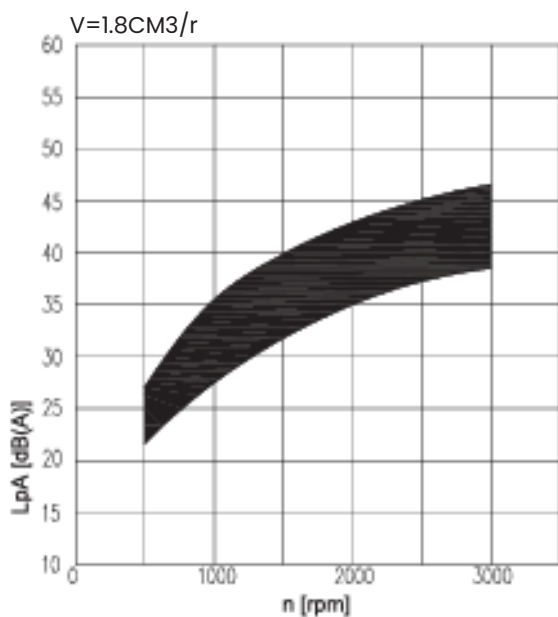
Noise Curve Table Of 1 CGP

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°C . The sound pressure level, obtained by calculating the noise value measured in the sound absorption measuring room, meets the requirements.

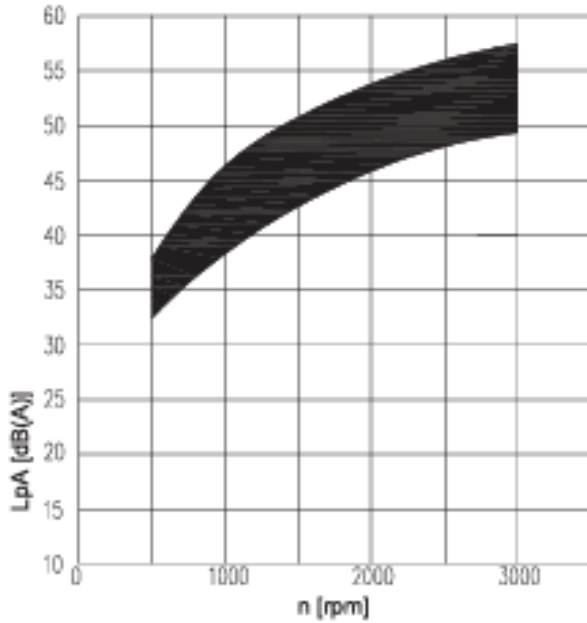
The distance between the measuring sensor and the hydraulic pump is 1 meter.



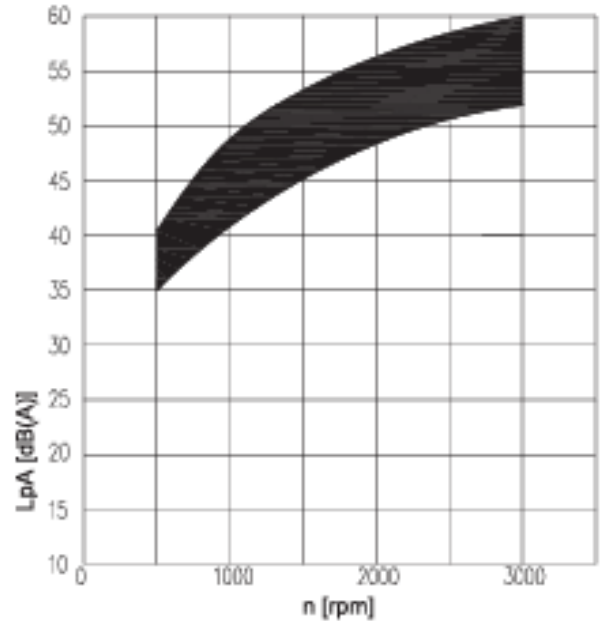




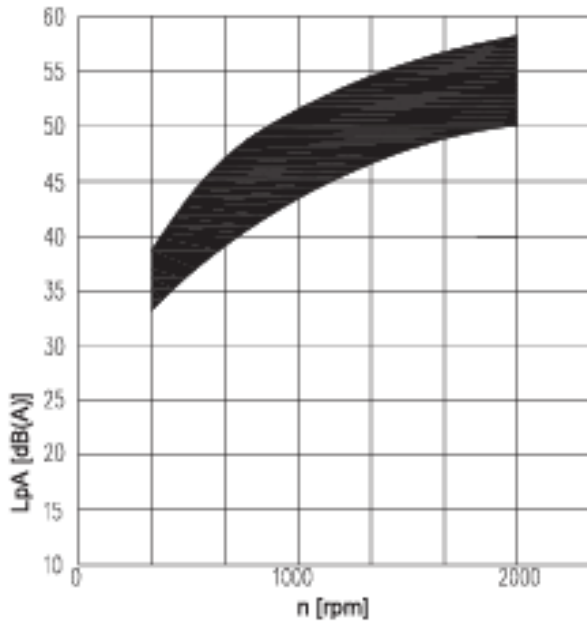
$V=4.8\text{CM}^3/\text{r}$



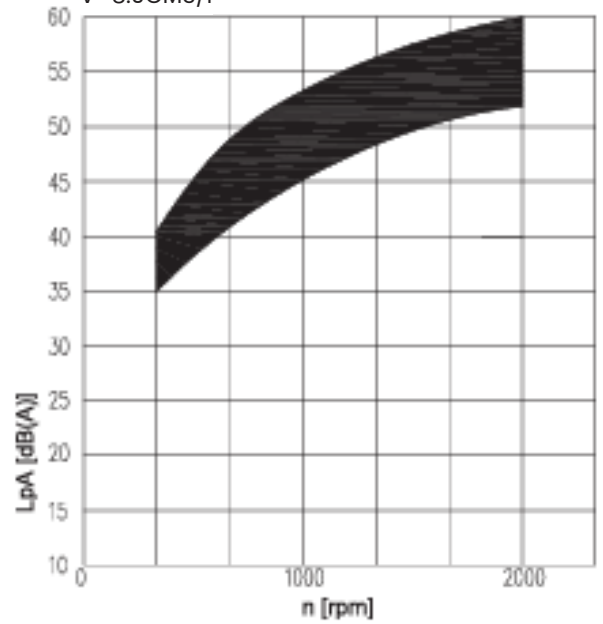
$V=5.8\text{CM}^3/\text{r}$



$V=7.0\text{CM}^3/\text{r}$



$V=8.0\text{CM}^3/\text{r}$



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Group

Series

Displacement

0.8	080
1.1	110
1.3	130
1.6	160
1.8	180
2.1	210
2.7	270
3.2	320
3.7	370
4.2	420
4.8	480
5.8	580
7.0	780
8.0	880

Rotation

C	Clockwise
A	Counterclockwise

Shaft

D0	Tang drive
T0	Taper
O0	O ring
C0	Customized

Front Cover

I0	Internal Bolts
I1	SAE
I2	Internal Bolts
R0	SAE Flange

Inlet Ports (A)*

B	Backside
S	Side
Size	
B2	G1/4
B3	G3/8
B4	G1/2
N2	1/4
N3	G3/8
N4	G1/2
R0	-
F0	-

Outlet Ports (a)

F	Front Flange
B	Backside
S	Side
Size	
R0	-
F0	-
O0	Ø9
B2	G1/4
B3	G3/8
B4	G1/4
N2	1/4
N3	G3/8
N4	G1/2

Seals

N	NBR
V	FPM

On Requirement

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

Note

*For Ports Please refer to Pg B3