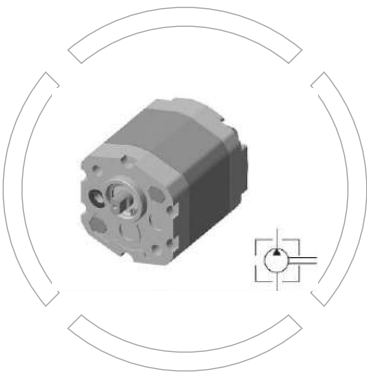


CG Series

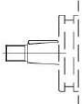
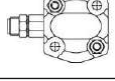
Gear Pump
Group 1
Displacement: 0.8~8.0 cc/rev
Maximum Pressure up to 270 Bar



Index	Page No
• Ordering Code	02
• Parameter Table	03
• Flow Performance Curve Table	03
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• Front Cover	11
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Ordering Code

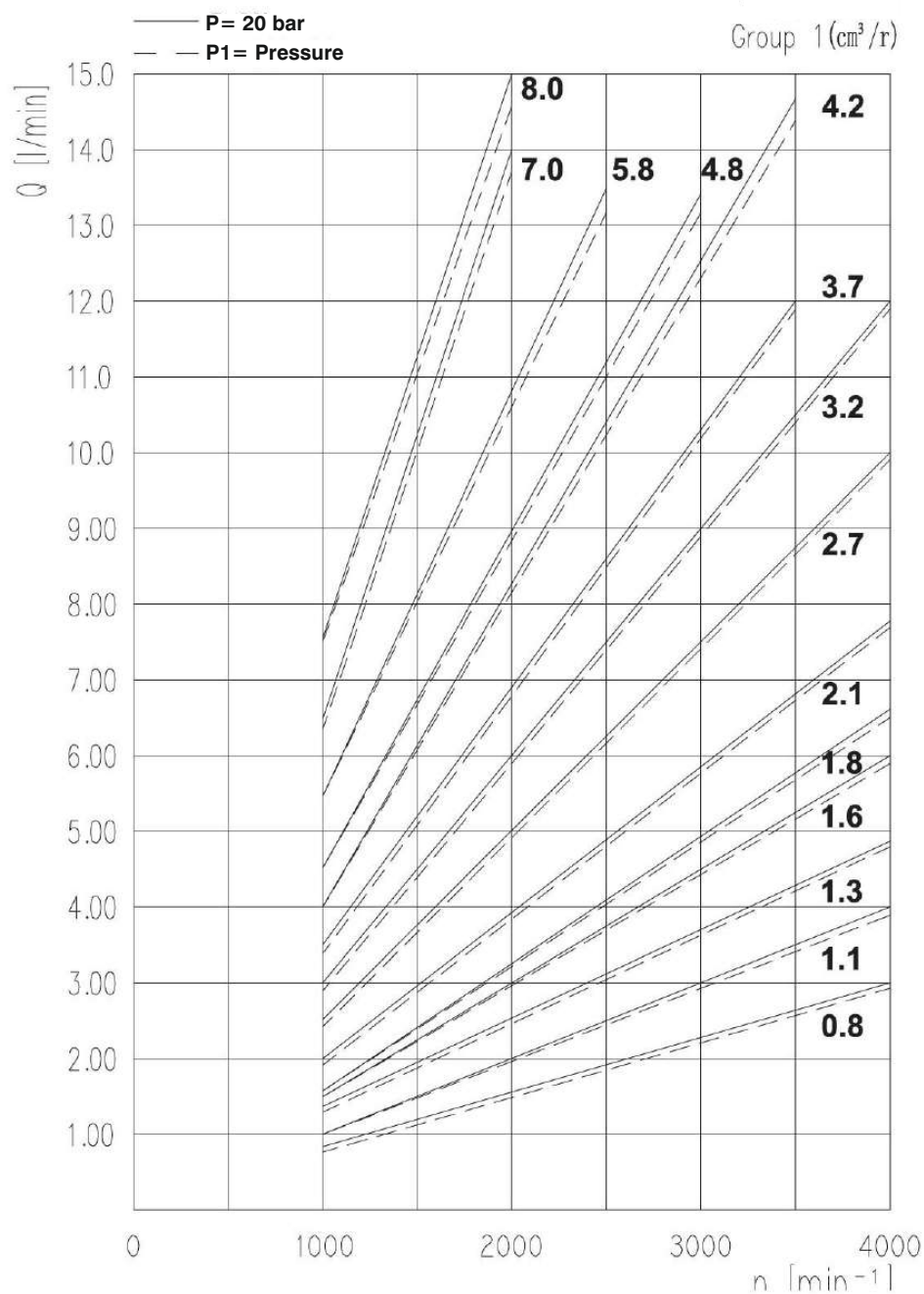
CG										*
Group	= 1									
Group 1	= 1E									
Group 1 helical tooth										
Front Cover										
Square front cover with oil port (centering Ø32mm)	 = Q0									
Square front cover without oil port (centering Ø32mm)	 = Q1									
Square front cover without oil port (centering Ø25.4mm)	 = B0									
Rotation										
Clockwise	= D									
Counter-Clockwise	= S									
Displacement (cc/rev)										
0.8, 1.1, 1.3, 1.6, 1.8, 2.1, 2.7, 3.2, 3.7, 4.2, 4.8, 5.8, 7.0, 8.0										
Shaft Options										
Taper Shaft 1:8	 = T0									
Tang Shaft	 = G0									
Tang Shaft	 = G1									
*Any other Special Requirements Options: Range between -10°C and +80°C, No code = inlet pressure up to max. 3 bar absolute. Version suitable for fluid at high temperatures, range between -10°C and +120°C. V = Version suitable for fluid at low temperatures, range between -40°C and +80°C. H = Version suitable for inlet pressure up to max. 3 and 10 bar absolute. N = Special Structure No code = Regular  _J_ = Back cover with inlet  _C_ = Back cover with outlet  L_ = Back cover with inlet and outlet  YF1 = Back cover with relief valve  Ports UNF  U_ = thread PT  R_ = thread NPT  N_ = thread Body  X = without ports E_ = Rectangular Flange  F_ = Rectangular Flange  Z_ = Metric thread  L_ = Gas thread 										



Parameter Table

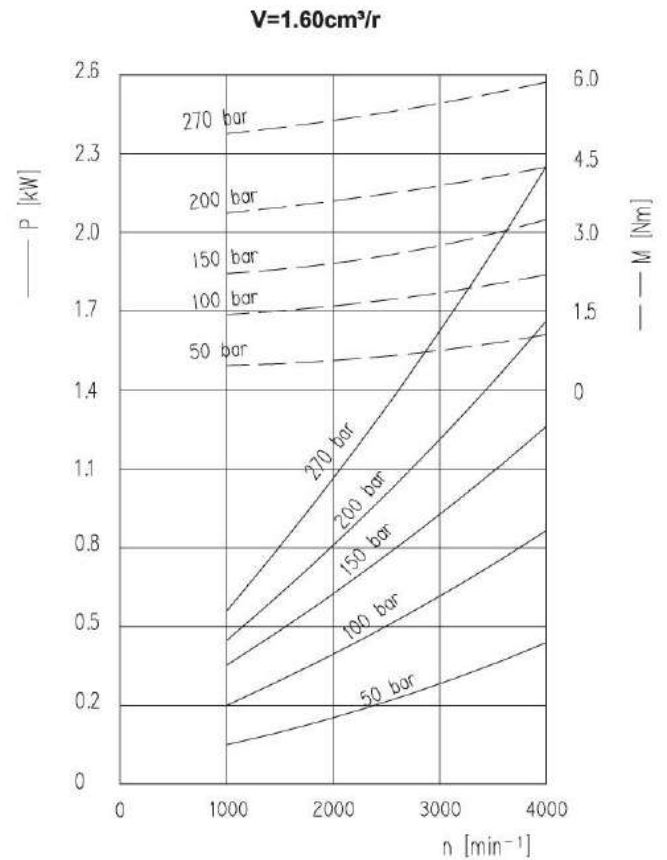
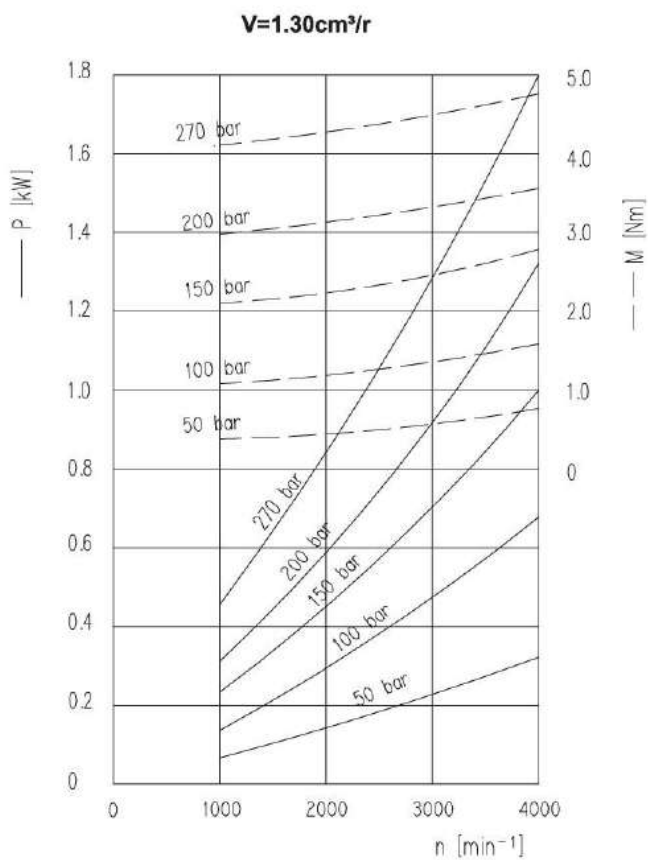
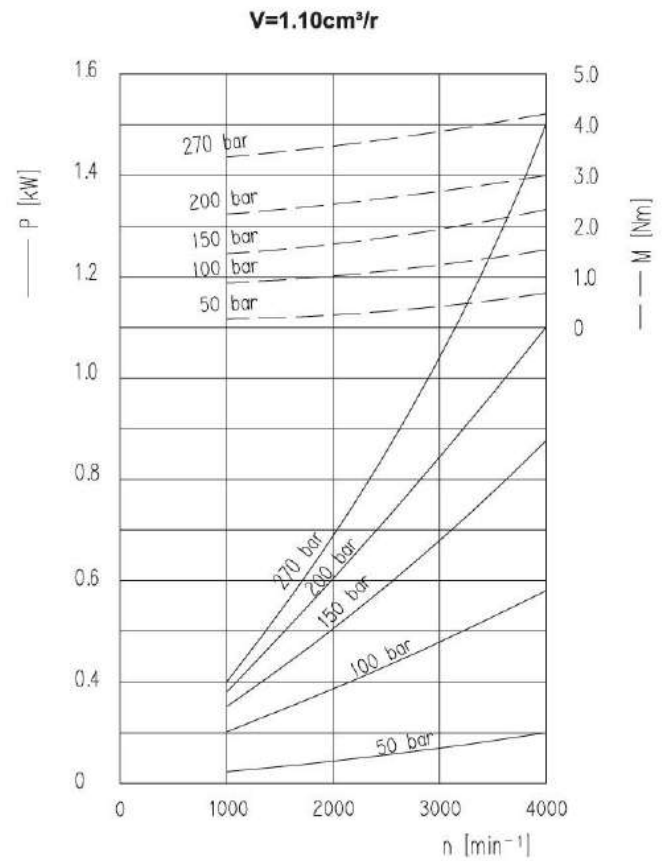
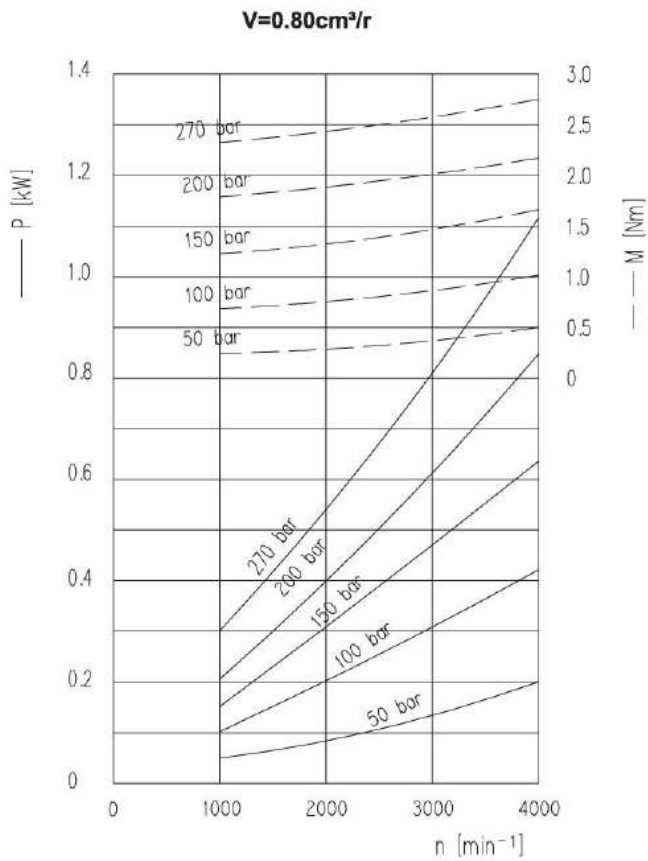
Displacement	V	cc/rev	0.8	1.1	1.3	1.6	1.8	2.1	2.7	3.2	3.7	4.2	4.8	5.8	7.0	8.0
Suction absolute pressure	Pe	bar	0.7...3													
Max. Cont. Pressure	P1		230							210			190		160	
Max. Int. Pressure	P2		250							230			210		180	
Max. Peak Pressure	P3		270							250			230		200	
Min. Speed	n min	r/min	1000						800				600			
Max. Speed	n max		6000						5000		4500		3500	3000	2500	2100
Volumetric Efficiency	nv	%	≥90		≥91				≥92				≥93			

Flow Performance Curve Table



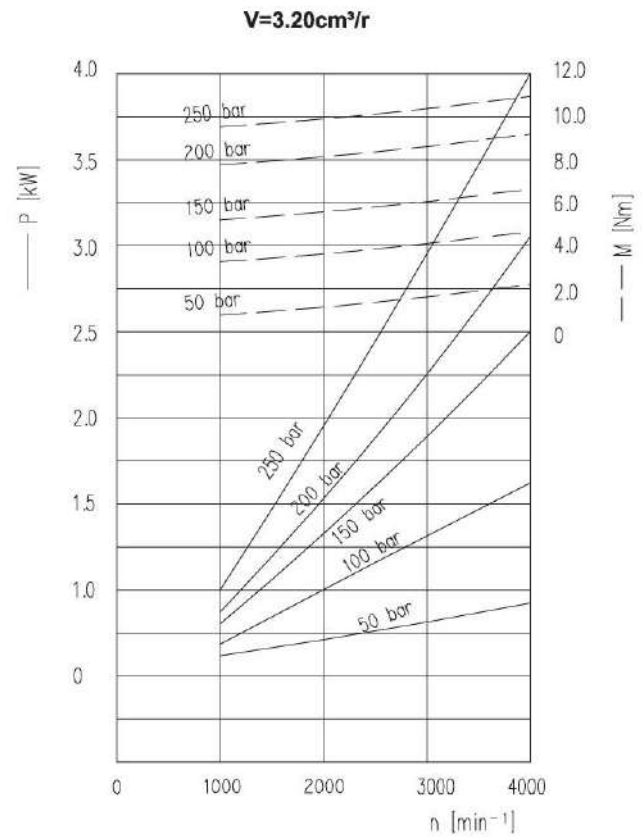
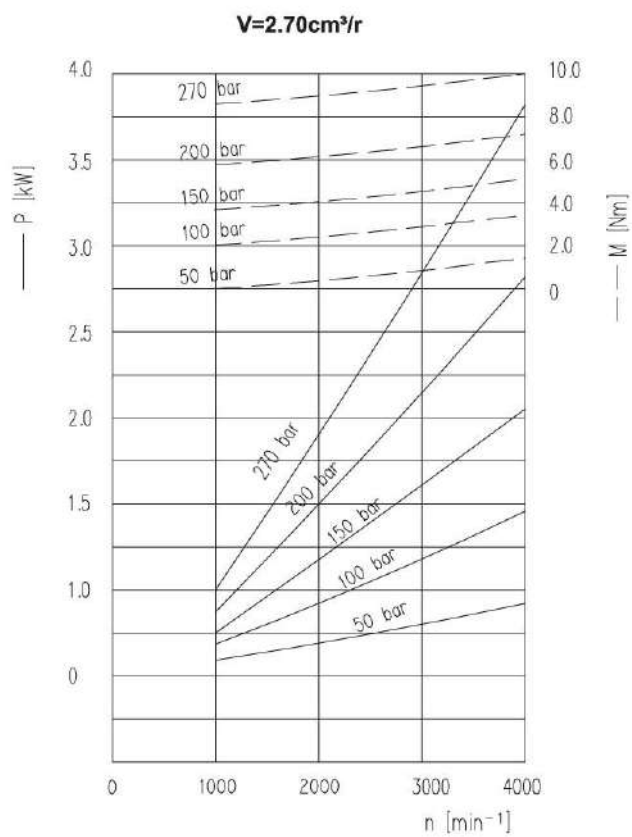
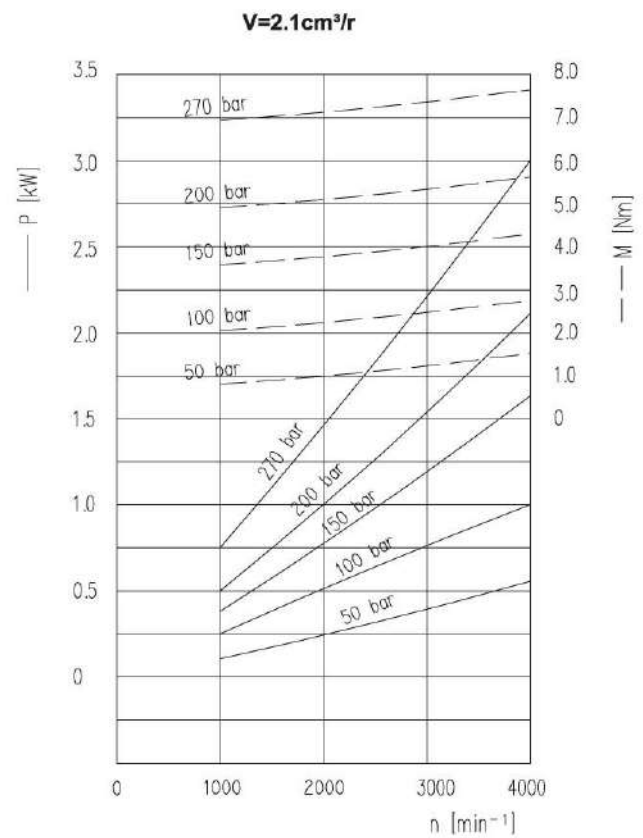
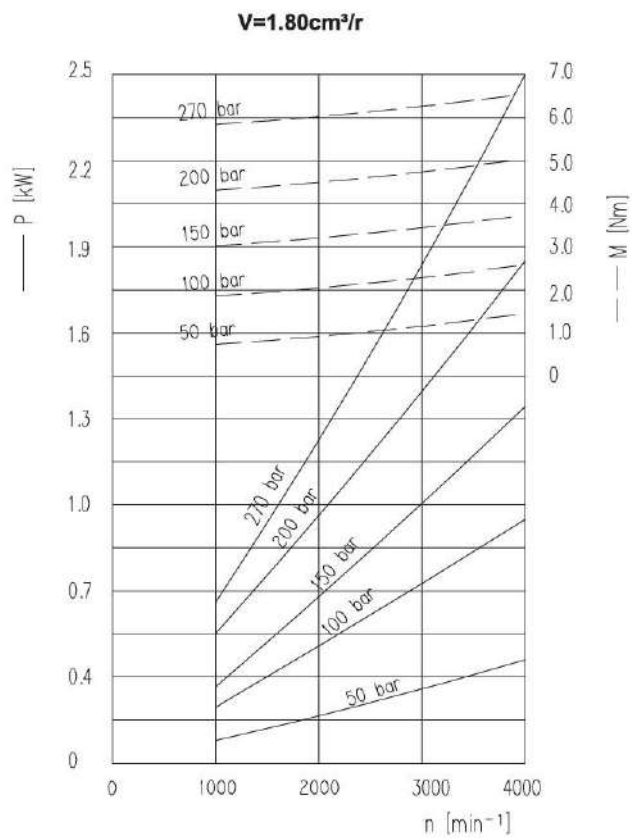


Power Performance Curve



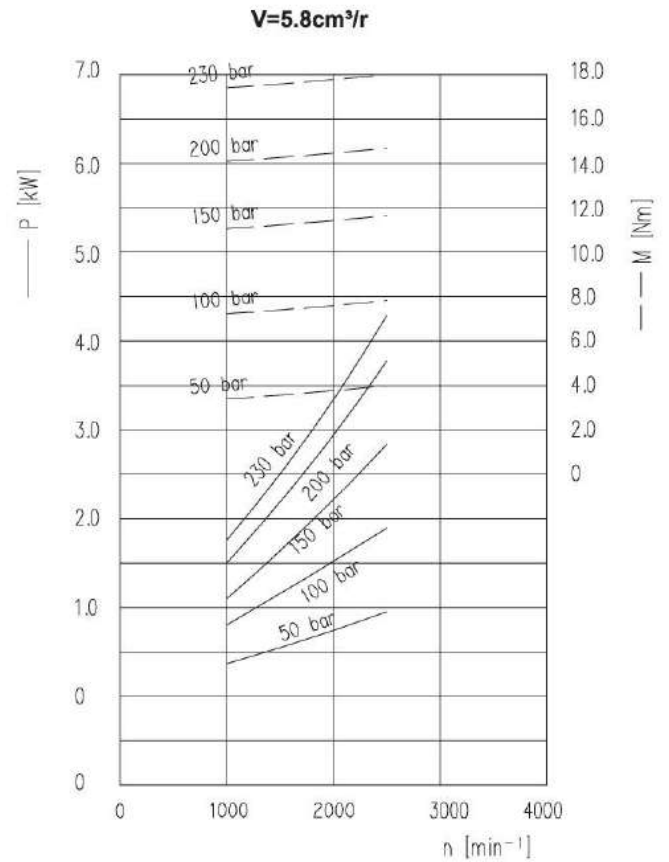
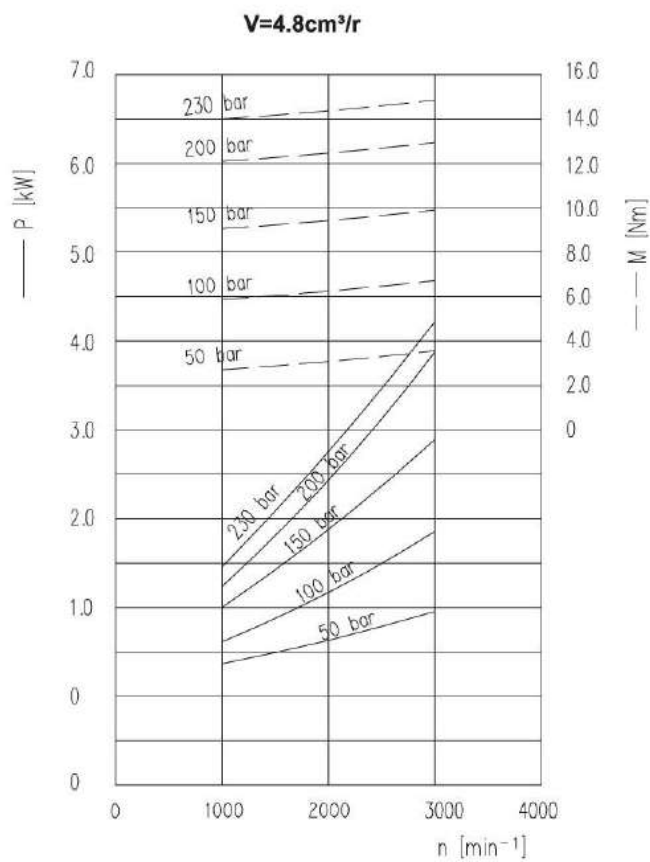
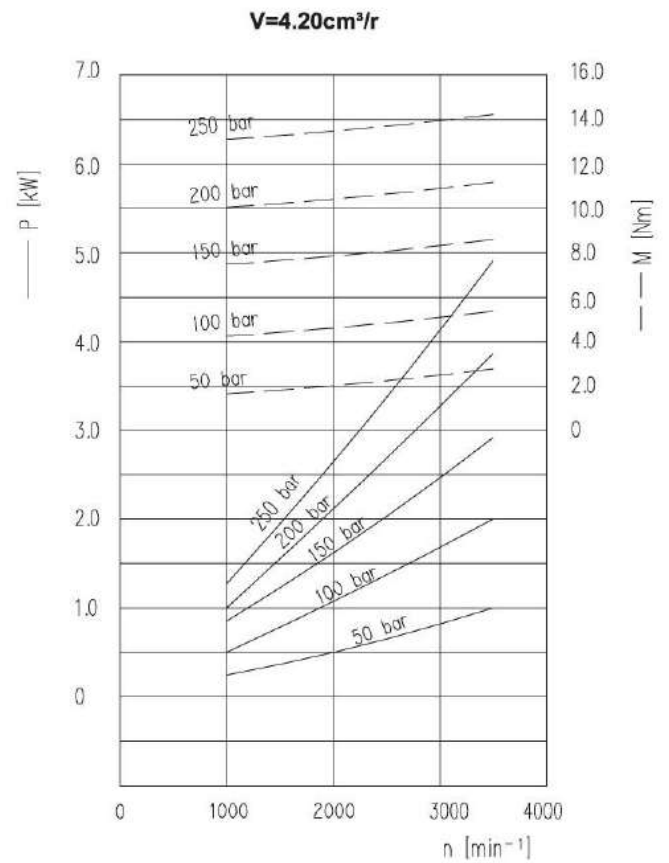
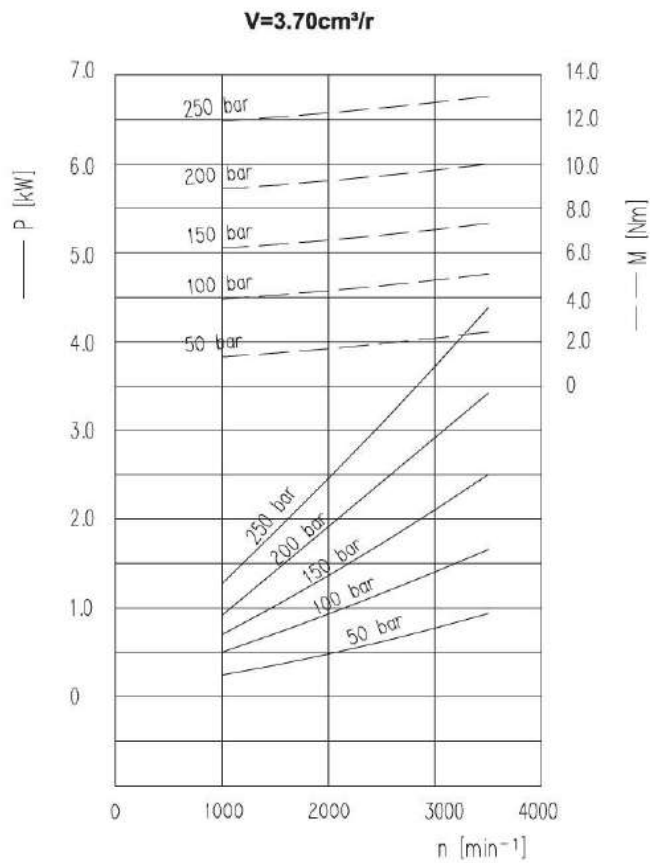


Power Performance Curve



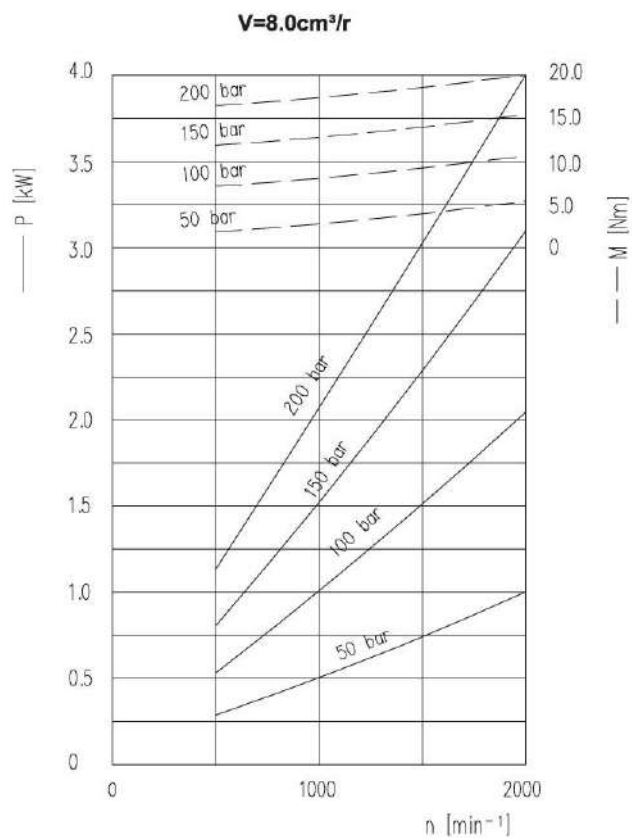
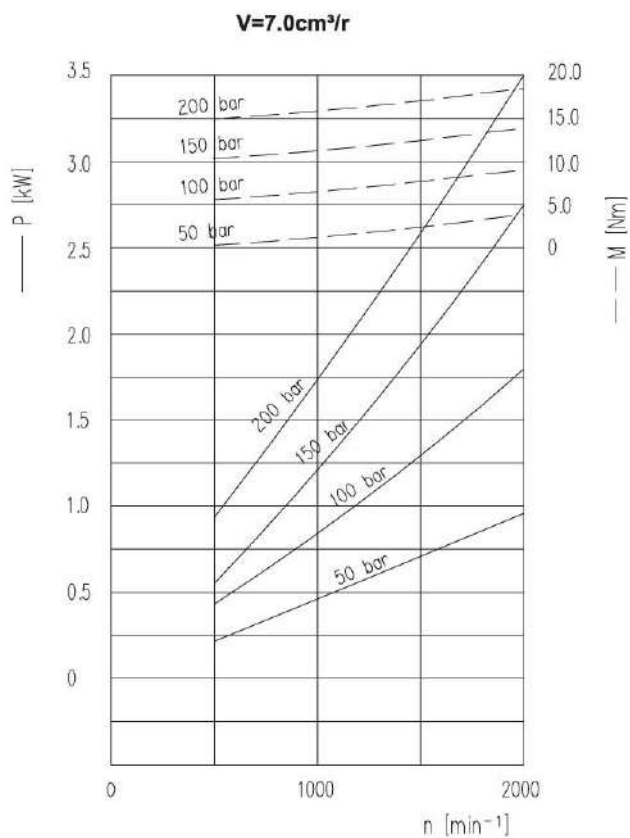


Power Performance Curve





Power Performance Curve





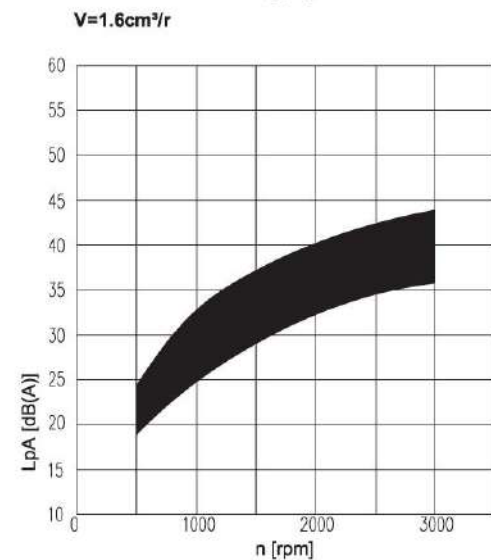
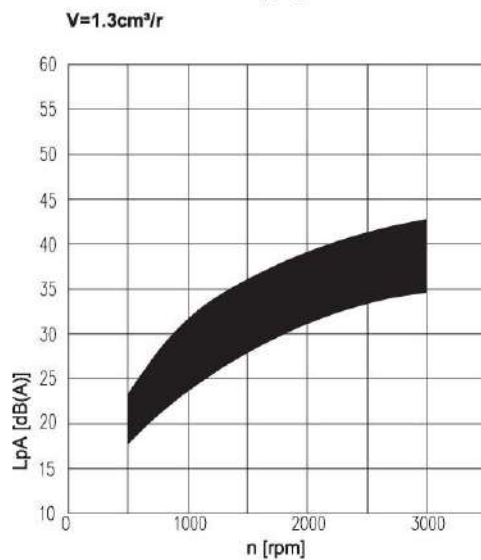
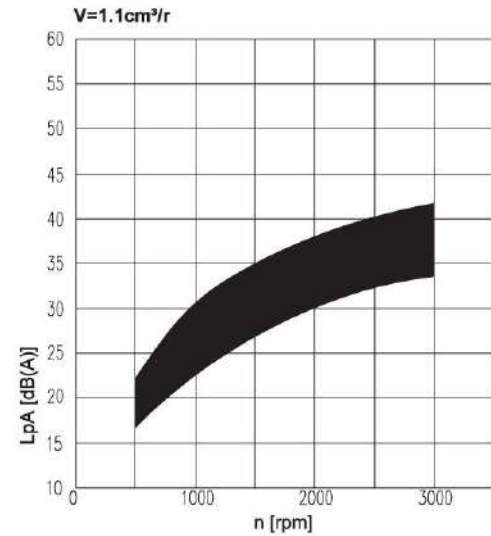
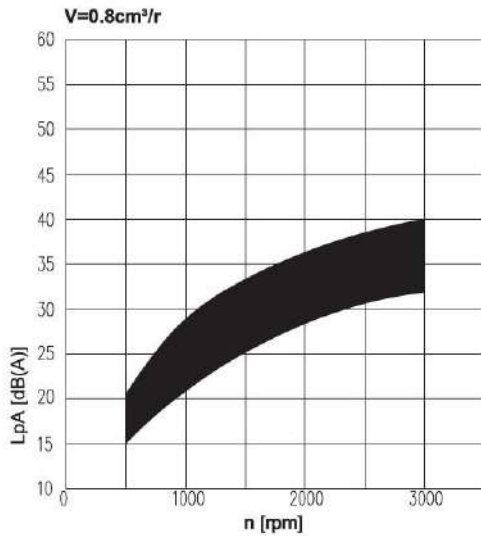
Noise Curve Table

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

Oil data: $V = 32 \text{ mm}^2/\text{s}$, $\theta = 50^\circ\text{C}$

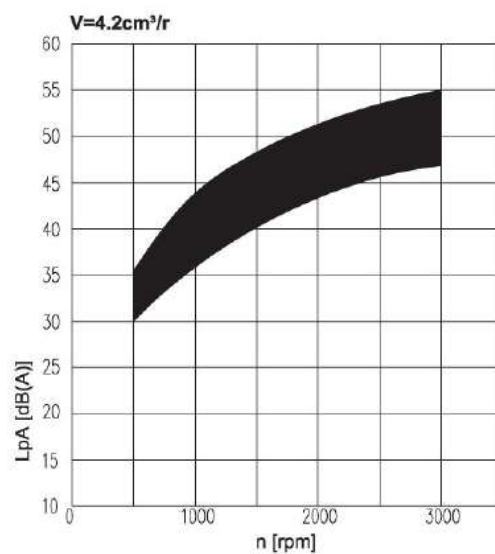
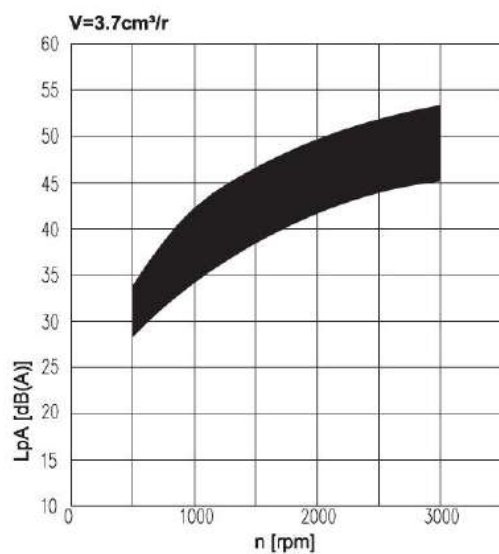
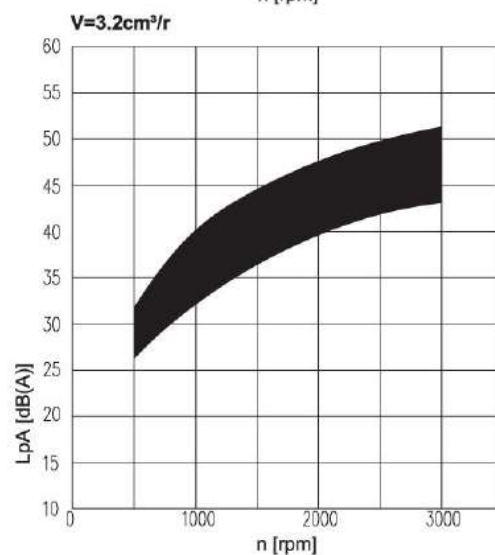
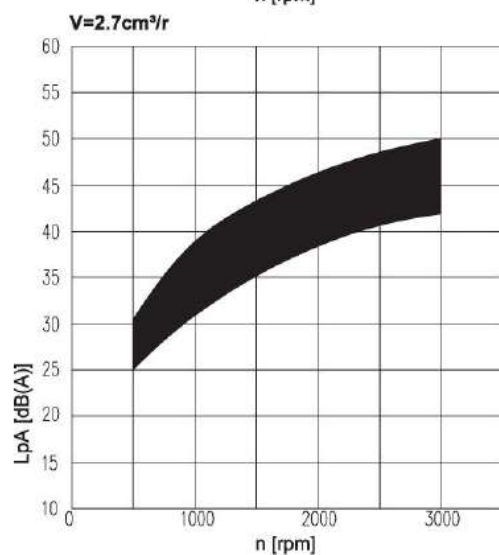
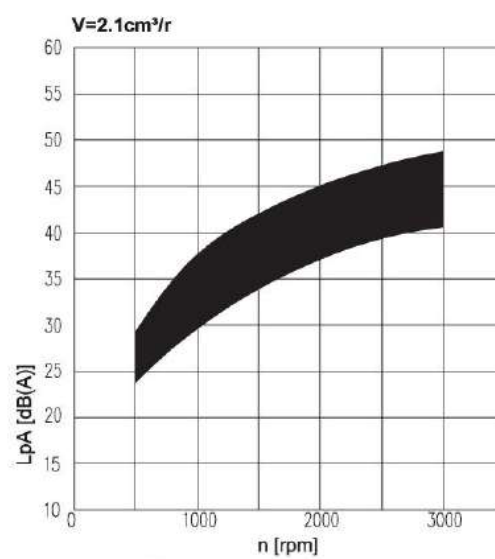
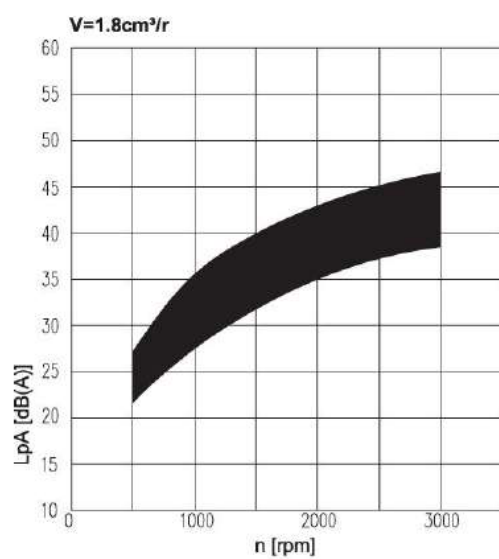
The sound pressure level obtained by calculating the noise value measured from the sound absorption measuring room meets the requirements of chapter 26 of DIN 45635.

Distance between measuring sensor and hydraulic pump: 1m.



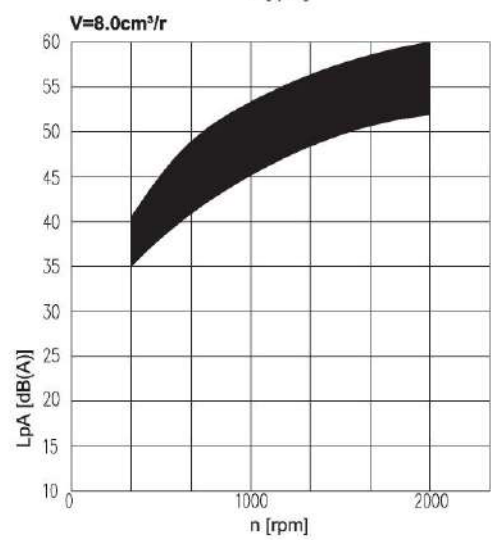
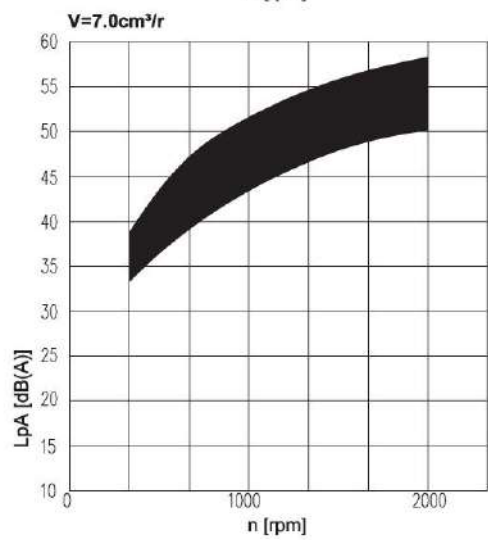
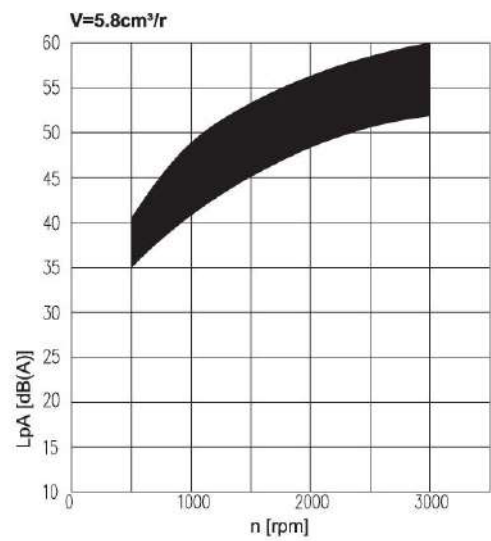
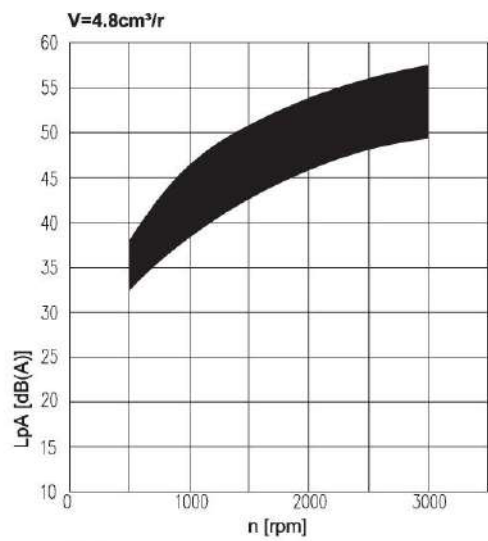


Noise Curve Table



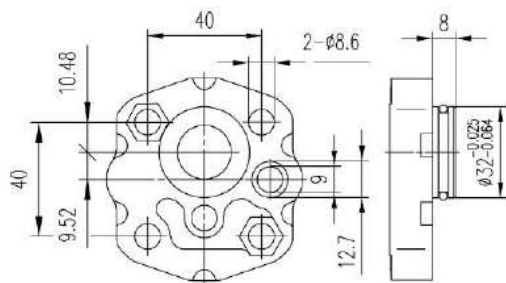


Noise Curve Table

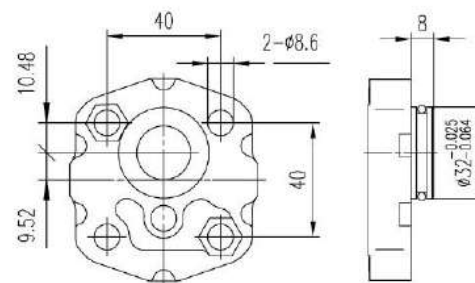




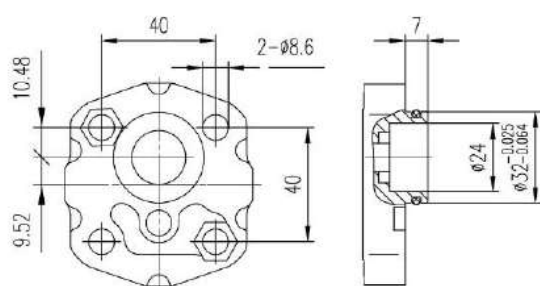
Front Cover



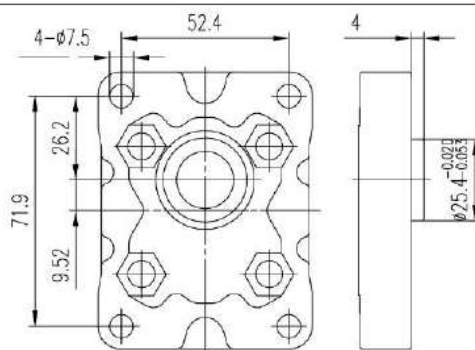
Q0



Q1

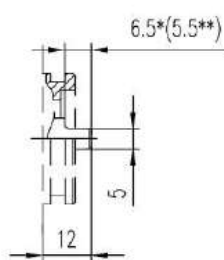


Q2



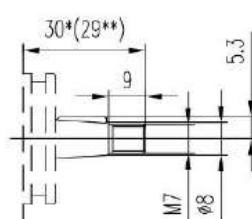
B0

Shaft Options



G0

Max. Torque: 20 Nm

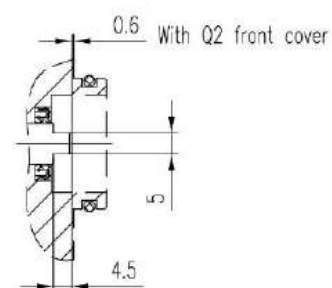


1:8

2.4

T0

Max. Torque: 25 Nm



G1

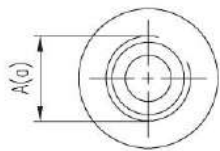
Max. Torque: 20 Nm

* Dimension with front cover Q_

** Dimension with front cover B_

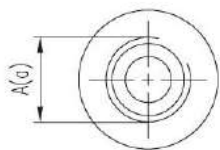


Ports



L2/L3

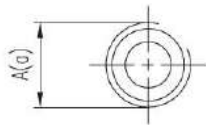
Ports Code	Displacement (cm ³ /rev)	Inlet (A)	Outlet (a)
L2	0.8 ~ 8.0	G3/8	G1/4
L3	0.8 ~ 8.0	G3/8	G3/8



O-ring

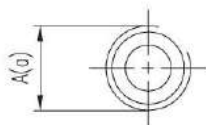
U0

Ports Code	Displacement (cm ³ /rev)	Inlet (A)	Outlet (a)
U0	0.8 ~ 8.0	3/4-16UNF	9/16-18UNF



Z0

Ports Code	Displacement (cm ³ /rev)	Inlet (A)	Outlet (a)
Z0	0.8 ~ 8.0	M18x1.5	M14x1.5

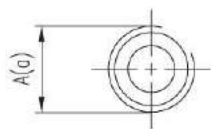


N1

Ports Code	Displacement (cm ³ /rev)	Inlet (A)	Outlet (a)
N1	0.8 ~ 8.0	3/8 NPT	3/8 NPT

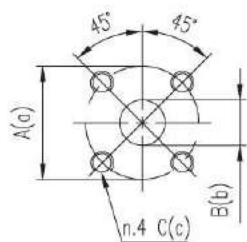


Ports



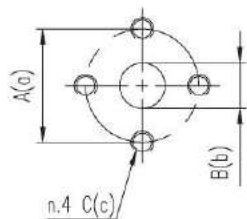
R0/R1

Ports Code	Displacement (cm³/rev)	Inlet (A)	Outlet (a)
R0	0.8 ~ 8.0	PT1/2	PT1/2
R1	0.8 ~ 8.0	PT3/8	PT3/8



F0

Ports Code	Displacement (cm³/rev)	Inlet			Outlet		
		A	B	C	a	b	c
F0	0.8 ~ 8.0	30	12	M6	30	12	M6

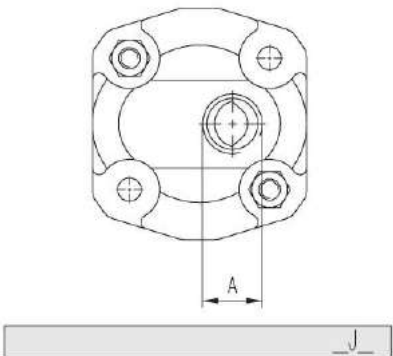


E0

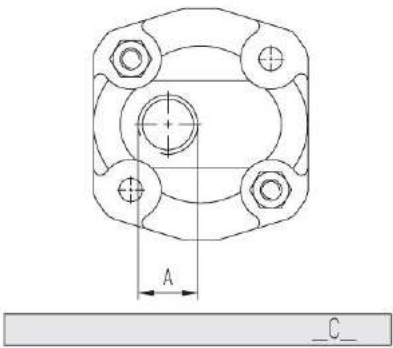
Ports Code	Displacement (cm³/rev)	Inlet			Outlet		
		A	B	C	a	b	c
E0	0.8 ~ 8.0	30	12	M6	30	12	M6



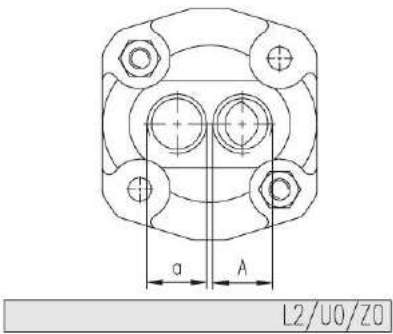
Special Structure



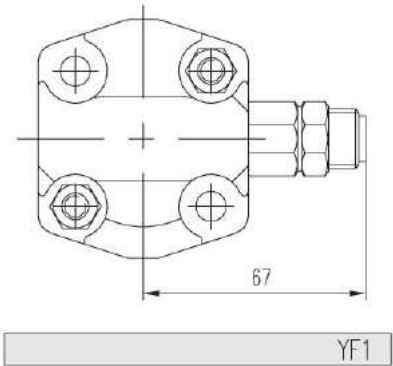
Code	Inlet A
LJ1	G3/8
MJ1	M18x1.5
UJ1	9/16-18UNF



Code	Outlet A
LC0	G1/4
MC0	M14x1.5
UC1	9/16-18UNF



Code	Inlet A	Outlet a
L2	G3/8	G1/4
U0	3/4-16UNF	9/16-18UNF
Z0	M18x1.5	M14x1.5

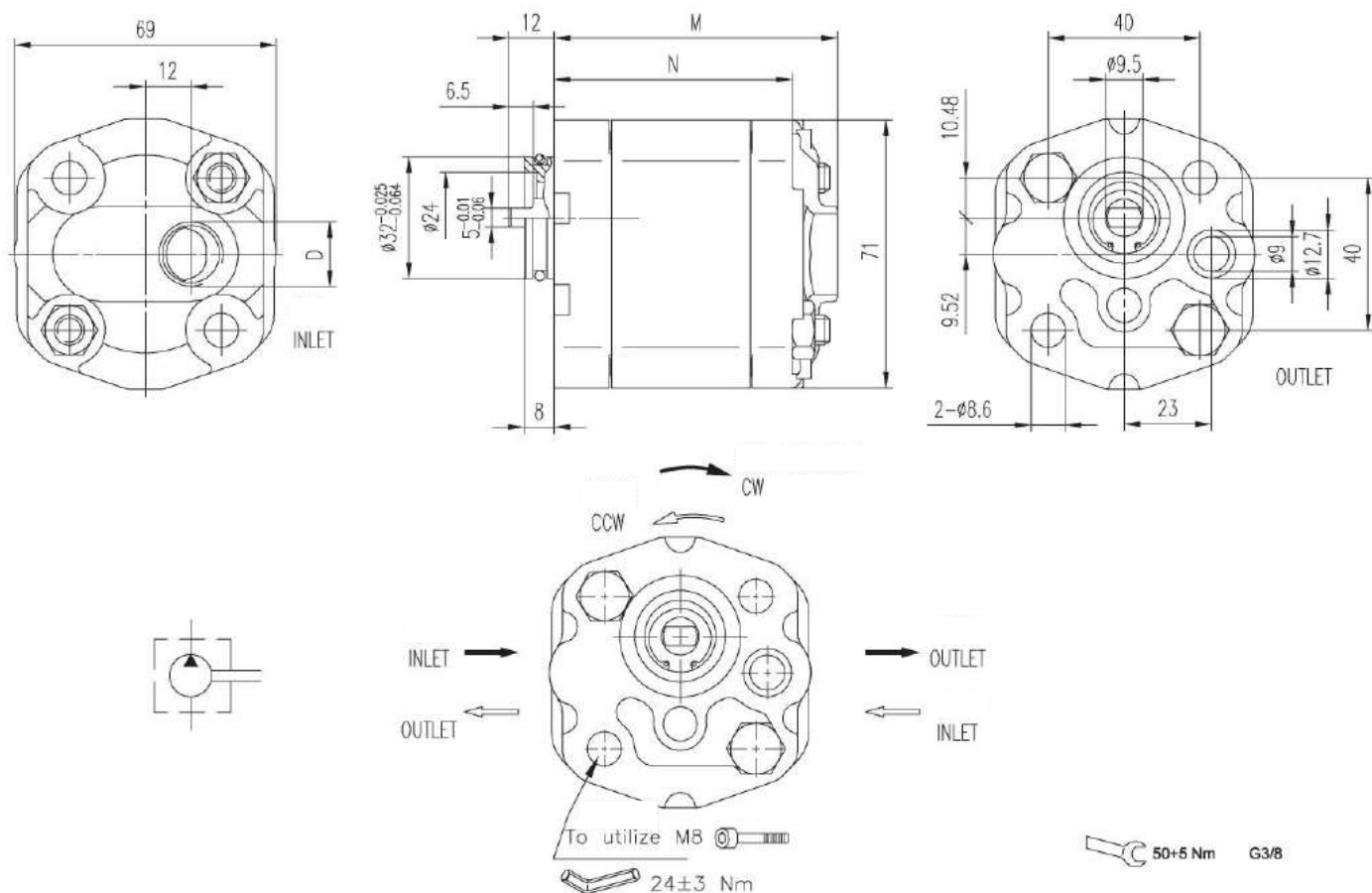


Code	Pressure Bar
YF1	25...180



Unit Dimensions

CG1-Q0-D-0.8-G0-X-LJ1

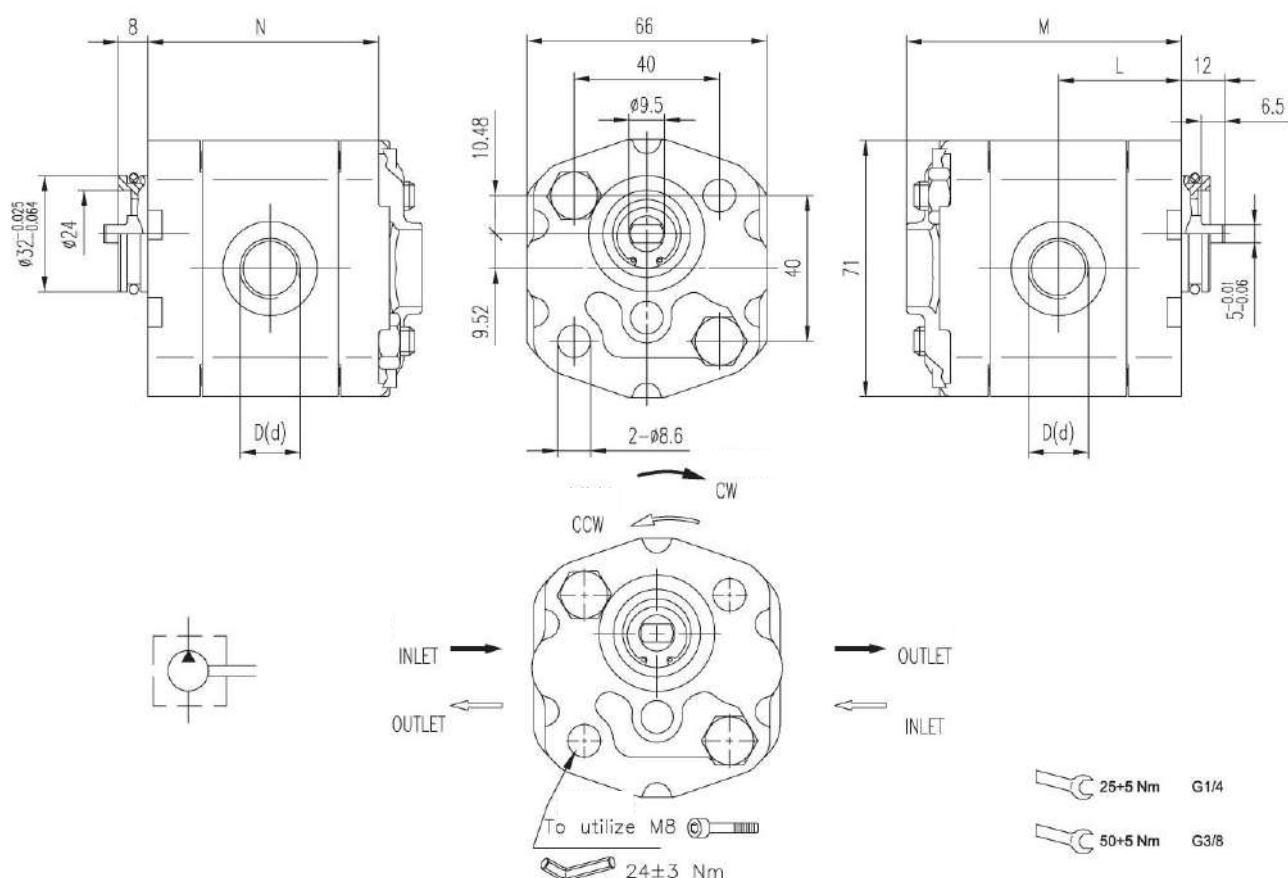


Displacement (cm ³ /rev)	Max. Pressure			Max. Speed r/min	Min. Speed (r/min)	Weight (Kg)	Dimensions		Oil port code	Inlet (D)
	P1 (Bar)	P2 (Bar)	P3 (Bar)				M (mm)	N (mm)		
0.8	230	250	270	6000	1000	0.76	73.5	61.5	LJ1	G3/8
1.1	230	250	270	6000	1000	0.77	74	62	LJ1	G3/8
1.3	230	250	270	6000	1000	0.78	75	63	LJ1	G3/8
1.6	230	250	270	6000	1000	0.79	76	64	LJ1	G3/8
1.8	230	250	270	6000	1000	0.81	77	65	LJ1	G3/8
2.1	230	250	270	6000	1000	0.82	78	66	LJ1	G3/8
2.7	230	250	270	6000	800	0.85	80	68	LJ1	G3/8
3.2	210	230	250	5000	800	0.87	82	70	LJ1	G3/8
3.7	210	230	250	4500	800	0.90	84	72	LJ1	G3/8
4.2	210	230	250	4000	800	0.93	86	74	LJ1	G3/8
4.8	190	210	230	3500	600	0.95	88	76	LJ1	G3/8
5.8	190	210	230	3000	600	1.02	92	80	LJ1	G3/8
7.0	160	180	200	2500	600	1.07	96	84	LJ1	G3/8
8.0	160	180	200	2100	600	1.13	100	88	LJ1	G3/8



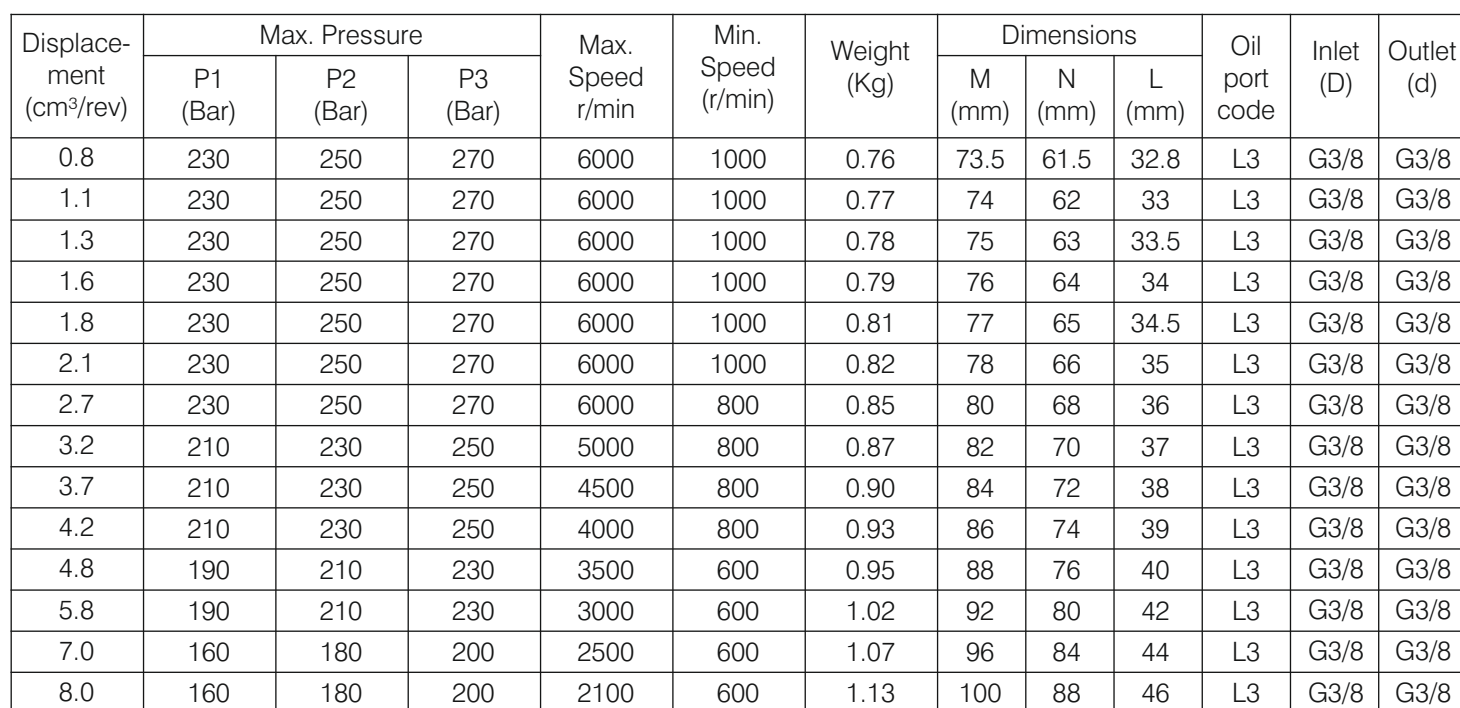
Unit Dimensions

CG1-Q1-D-0.8-G0-L2

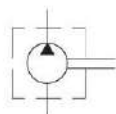


Displacement (cm ³ /rev)	Max. Pressure			Max. Speed r/min	Min. Speed (r/min)	Weight (Kg)	Dimensions			Oil port code	Inlet (D)	Outlet (d)
	P1 (Bar)	P2 (Bar)	P3 (Bar)				M (mm)	N (mm)	L (mm)			
0.8	230	250	270	6000	1000	0.76	73.5	61.5	32.8	L2	G3/8	G1/4
1.1	230	250	270	6000	1000	0.77	74	62	33	L2	G3/8	G1/4
1.3	230	250	270	6000	1000	0.78	75	63	33.5	L2	G3/8	G1/4
1.6	230	250	270	6000	1000	0.79	76	64	34	L2	G3/8	G1/4
1.8	230	250	270	6000	1000	0.81	77	65	34.5	L2	G3/8	G1/4
2.1	230	250	270	6000	1000	0.82	78	66	35	L2	G3/8	G1/4
2.7	230	250	270	6000	800	0.85	80	68	36	L2	G3/8	G1/4
3.2	210	230	250	5000	800	0.87	82	70	37	L2	G3/8	G1/4
3.7	210	230	250	4500	800	0.90	84	72	38	L2	G3/8	G1/4
4.2	210	230	250	4000	800	0.93	86	74	39	L2	G3/8	G1/4
4.8	190	210	230	3500	600	0.95	88	76	40	L2	G3/8	G1/4
5.8	190	210	230	3000	600	1.02	92	80	42	L2	G3/8	G1/4
7.0	160	180	200	2500	600	1.07	96	84	44	L2	G3/8	G1/4
8.0	160	180	200	2100	600	1.13	100	88	46	L2	G3/8	G1/4

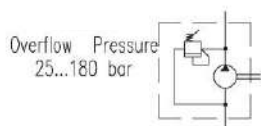
CG1-Q2-D-0.8-G1-L3



CG1-B1-D-0.8-T0-E0

18/19

CG1-B1-S-0.8-T0-E0-YF1-P180



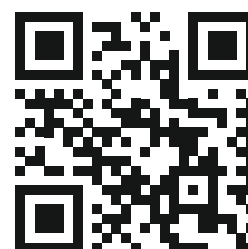
Displace- ment (cm³/rev)	Max. Pressure			Max. Speed r/min	Min. Speed (r/min)	Weight (Kg)	Dimensions		Oil port code	Inlet			Outlet		
	P1 (Bar)	P2 (Bar)	P3 (Bar)				M (mm)	L (mm)		B mm	D mm	H mm	b mm	d mm	h mm
0.8	230	250	270	6000	1000	0.86	83.5	33.8	E0	30	12	M6	30	12	M6
1.1	230	250	270	6000	1000	0.88	84	34	E0	30	12	M6	30	12	M6
1.3	230	250	270	6000	1000	0.90	85	34.5	E0	30	12	M6	30	12	M6
1.6	230	250	270	6000	1000	0.92	86	35	E0	30	12	M6	30	12	M6
1.8	230	250	270	6000	1000	0.94	87	35.5	E0	30	12	M6	30	12	M6
2.1	230	250	270	6000	1000	0.96	88	36	E0	30	12	M6	30	12	M6
2.7	230	250	270	6000	800	0.988	90	37	E0	30	12	M6	30	12	M6
3.2	210	230	250	5000	800	1.016	92	38	E0	30	12	M6	30	12	M6
3.7	210	230	250	4500	800	1.044	94	39	E0	30	12	M6	30	12	M6
4.2	210	230	250	4000	800	1.072	96	40	E0	30	12	M6	30	12	M6
4.8	190	210	230	3500	600	1.1	98	41	E0	30	12	M6	30	12	M6
5.8	190	210	230	3000	600	1.156	102	43	E0	30	12	M6	30	12	M6
7.0	160	180	200	2500	600	1.212	106	45	E0	30	12	M6	30	12	M6
8.0	160	180	200	2100	600	1.268	110	47	E0	30	12	M6	30	12	M6

The specified data is for product description purposes only and may not be deemed to be guaranteed unless expressly confirmed in the contract.



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