Ordering Code Rules

B	K	P	1	Q0	D	0.8	GO	X	LJ1	/omit	/omit
Boden	Material	Function	Group	Front cover	Rotation	Displacement	Shaft	Ports	Special structure	Options	Other

K	Front and end cover material aluminium

P	Pump

1	Group 1
1E	Group 1 helical tooth

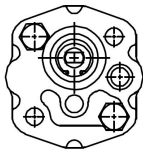
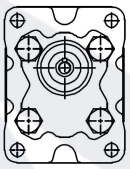
D	Clockwise
S	Counter clockwise

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

Options	
	Omit-Range between -10°C and +80°C, inlet pressure up to max. 3 bar absolute.
V	Version suitable for fluid at hi-temperatures, range between -10°C and +120°C.
H	Version suitable for fluid at low-temperatures, range between -40°C and +80°C.
N	Version suitable for inlet pressure up to max. 3 and 10 bar absolute.
For other special options, please contact our engineers.	

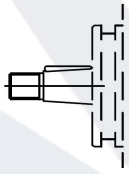
Other
Special designing

Front cover

Q0	**ø32mm** Square front cover with oil port (centering ø32mm)	
Q1	**ø32mm** Square front cover with oil port (centering ø32mm)	
B0	**ø32mm** Square front cover with oil port (centering ø32mm)	

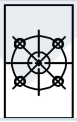
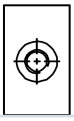
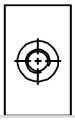
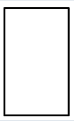
32 See page 32 for details

Shaft

T0	**1:8** Taper shaft 1:8	
G0	Tang shaft	
G1	Tang shaft	

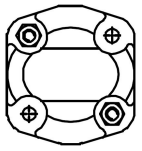
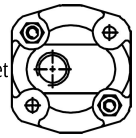
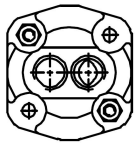
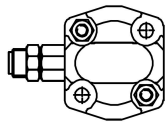
32 See page 32 for details

Ports

E_	Rectangle flange	
F_	Rectangle flange	
Z_	**(M)** Metric thread	
L_	**(G)** Gas thread	
U_	**(UNF-2B)** UNF thread	
R_	**(PT)** PT thread	
N_	**(NPT)** NPT thread	
X_	Body without ports	

33-34 See page 33-34 for details

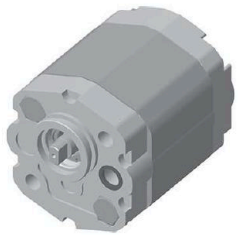
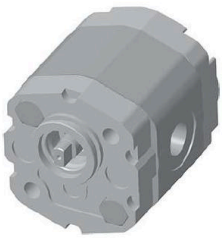
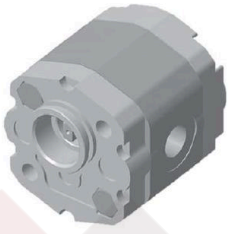
Special structure

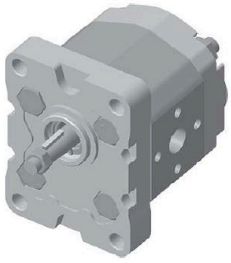
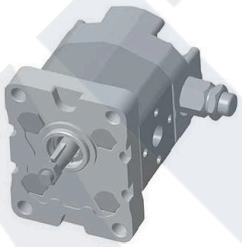
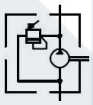
	omit-regular	
_J_	Back cover with inlet	
_C_	Back cover with outlet	
L_	Back cover with inlet and outlet	
YF1	Back cover with relief valve	

35 See page 35 for details

If you need other models, please see the details page or contact our engineers.

Standart Product Overview

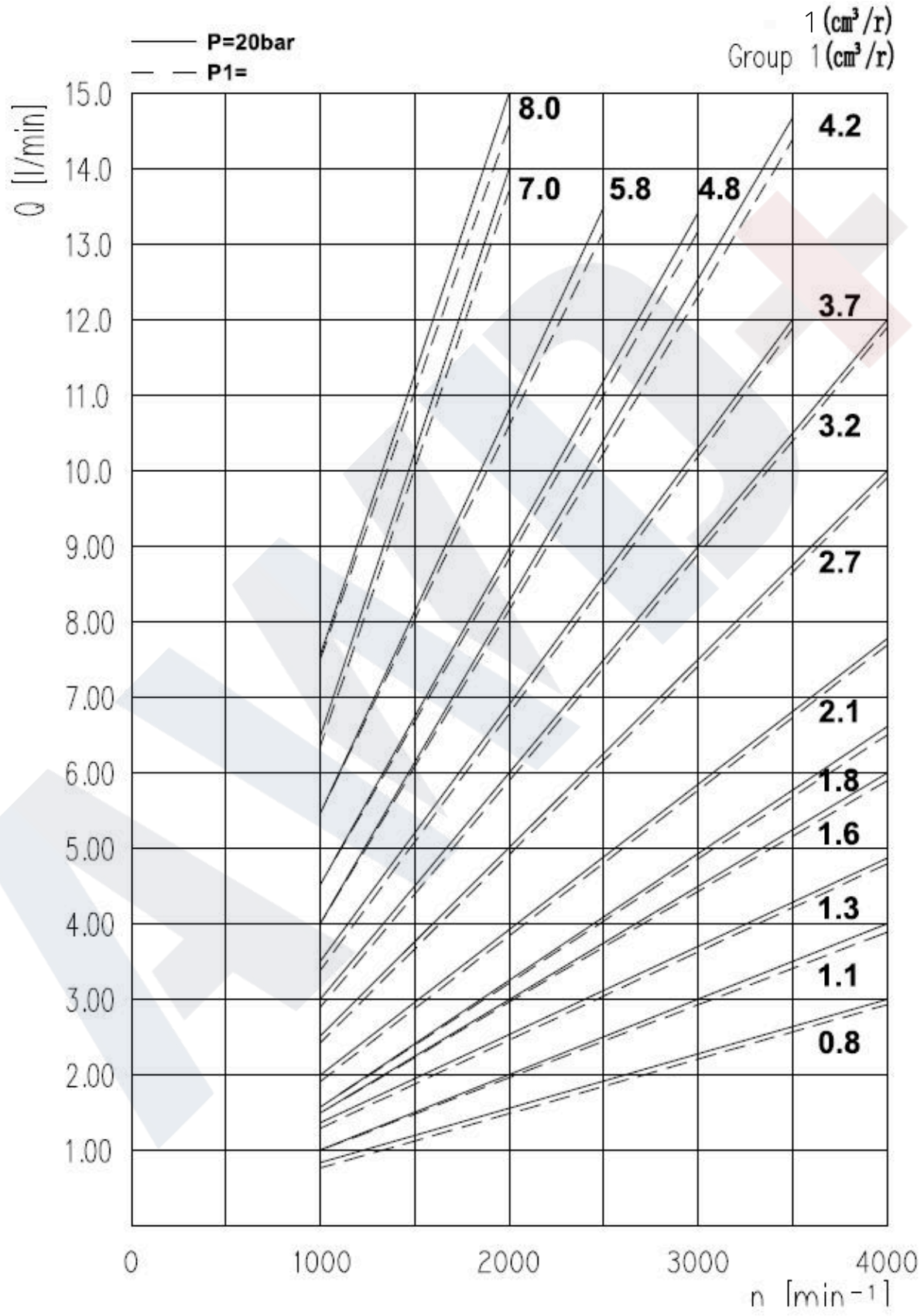
type			
	 	 	 
page	36	37	38

type		
	 	 
page	39	40

Displacement parameter table

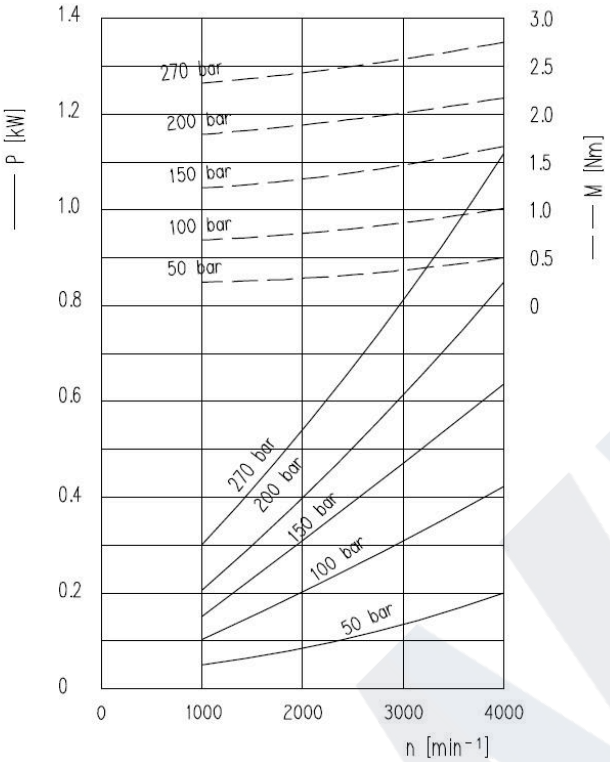
Displacement	V	cm³/rev	0.8	1.1	1.3	1.6	1.8	2.1	2.7	3.2	3.7	4.2	4.8	5.8	7.0	8.0
Suction absolute pressure	Pe	bar	0.7...3													
Max. continuous pressure	P1		230							210			190		160	
Max. intermittent pressure	P2		250							230			210		180	
Max. peak pressure	P3		170							250			230		200	
Min. speed	n_{Min}	r/min	1000						800				600			
Max.speed	n_{Max}		6000							5000	4500		3500	3000	2500	2100
Volumetric efficiency	η_v	%	>90		>91			>92					>93			

Flow Performance Curve Table

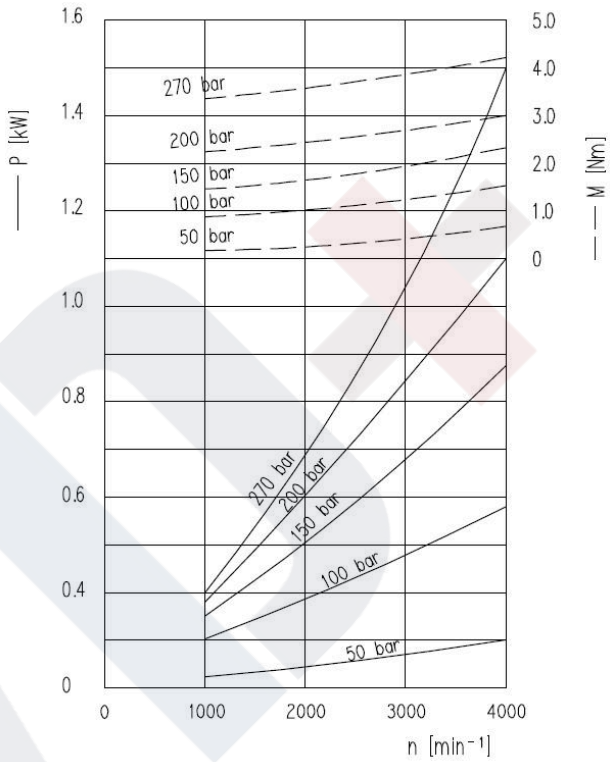


Power Perfomance Curve Table

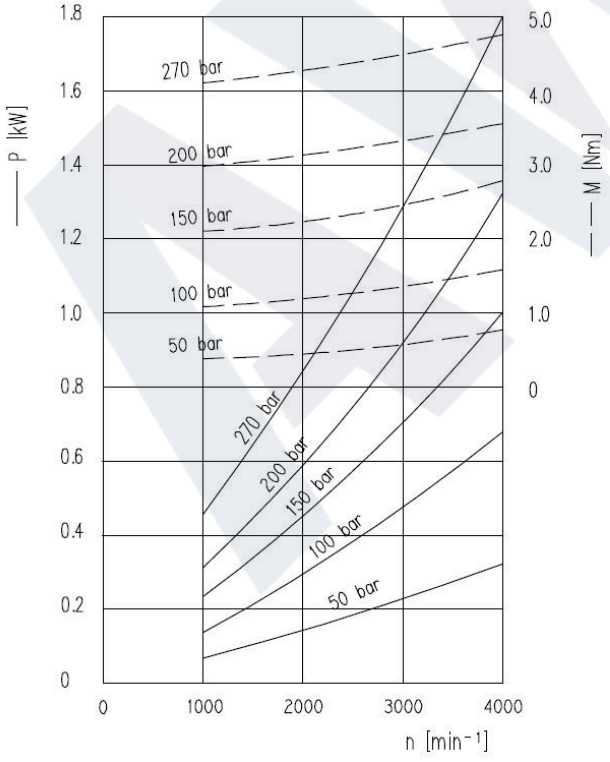
V=0.80cm³/r



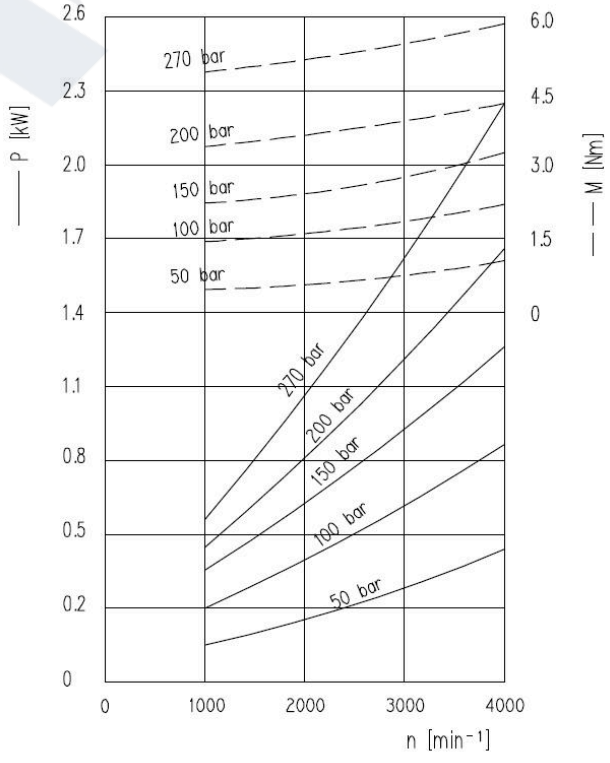
V=1.10cm³/r



V=1.30cm³/r

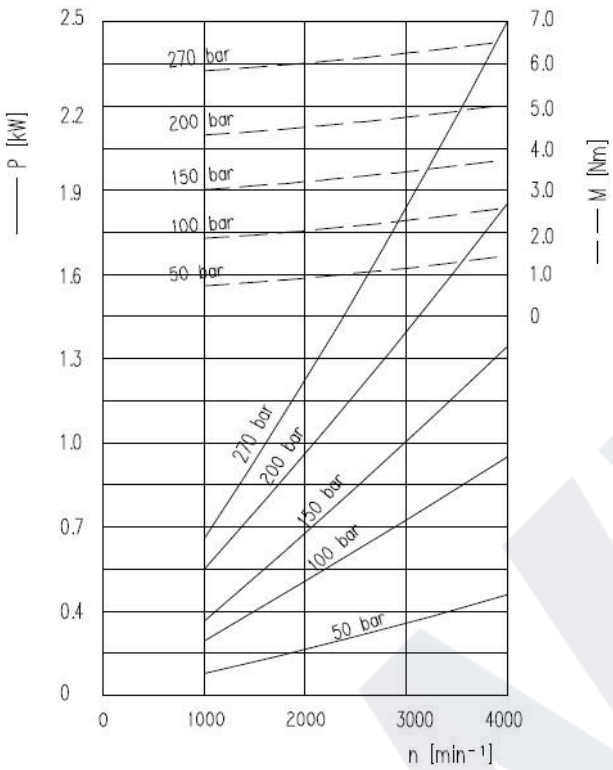


V=1.60cm³/r

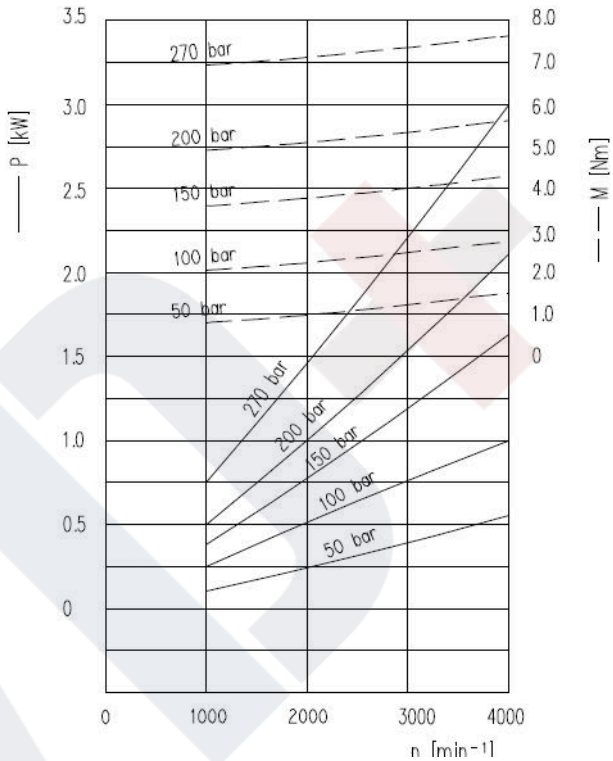


Power Perfomance Curve Table

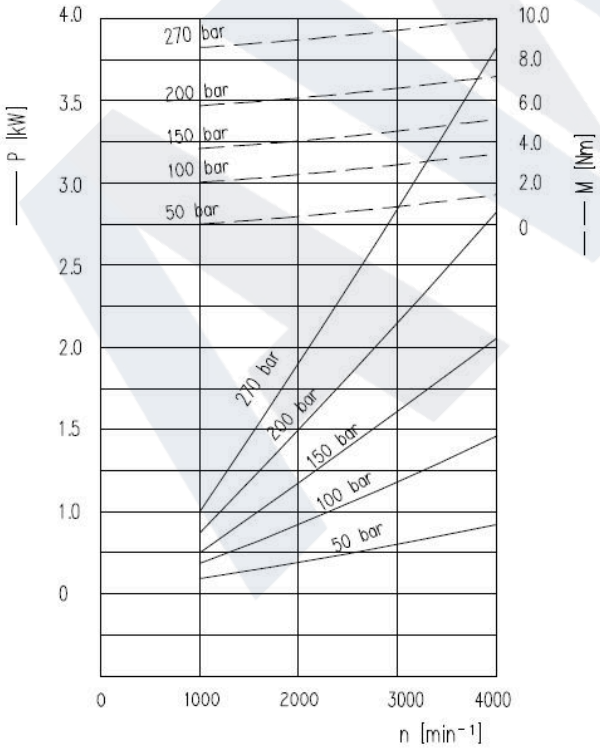
V=1.80cm³/r



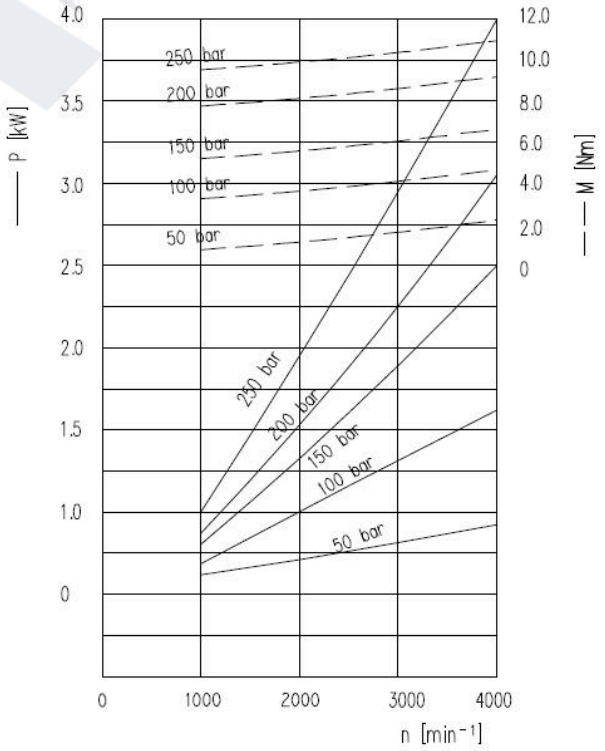
V=2.1cm³/r



V=2.70cm³/r

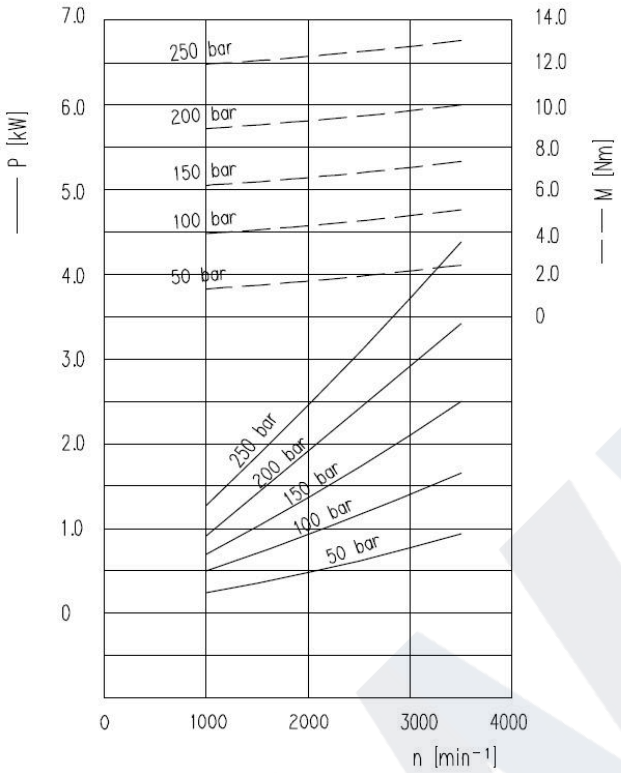


V=3.20cm³/r

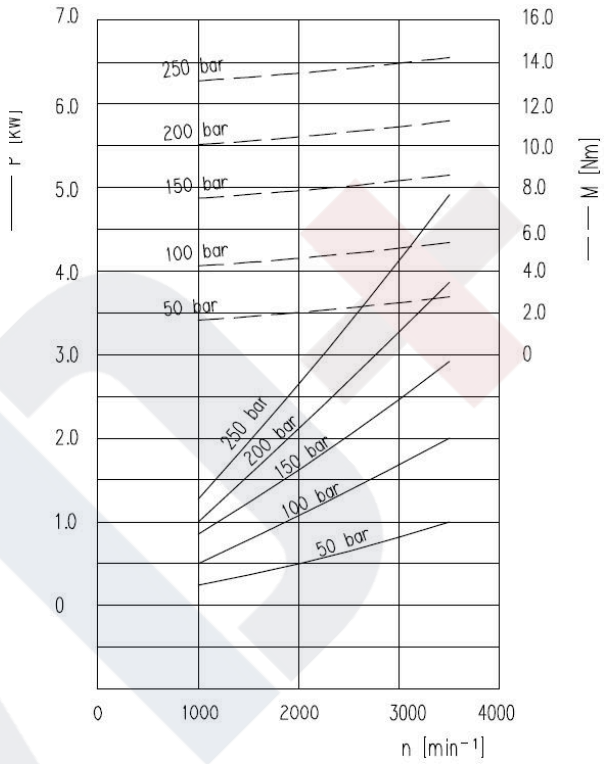


Power Perfomance Curve Table

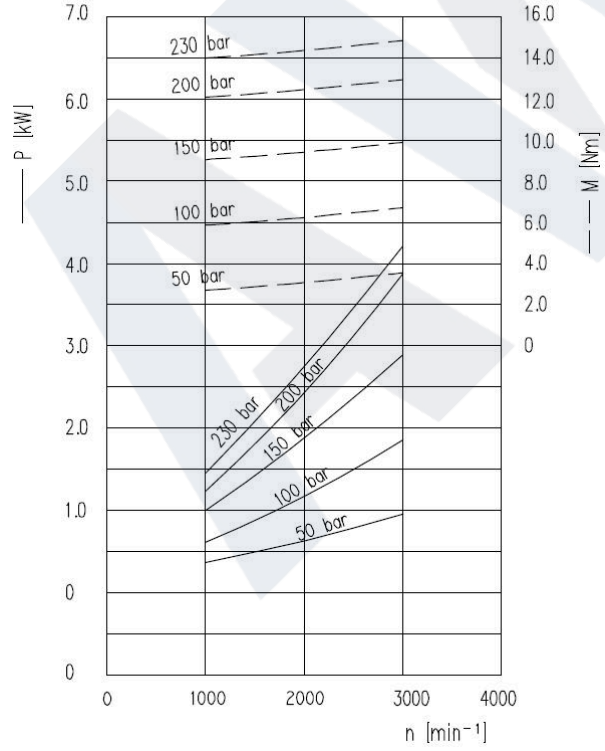
V=3.70cm³/r



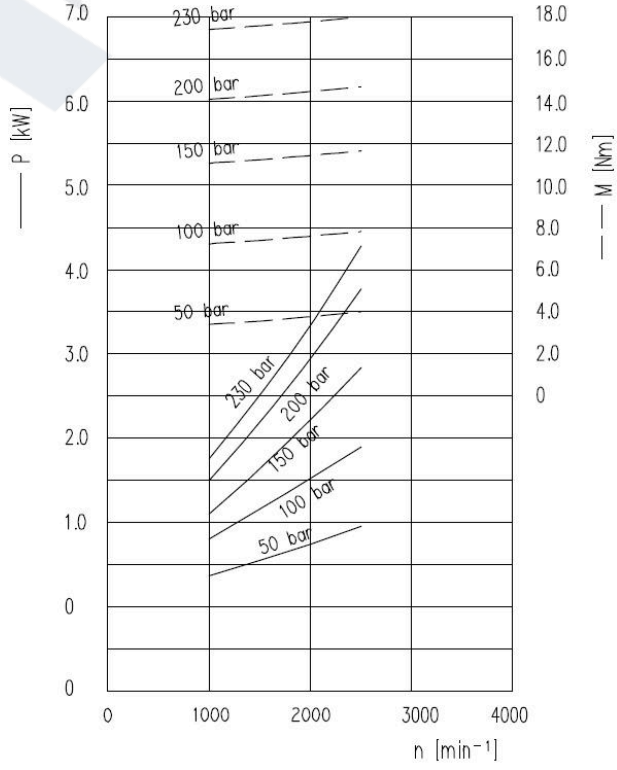
V=4.20cm³/r



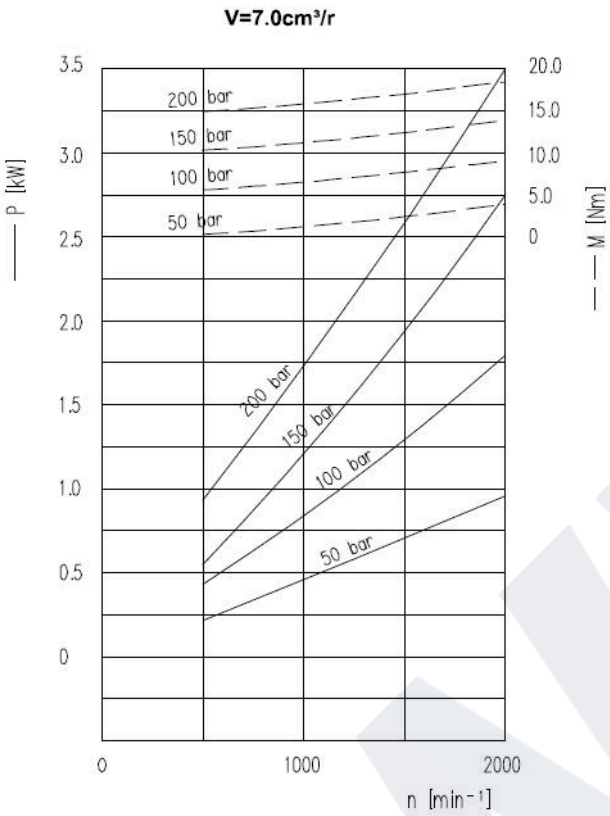
V=4.8cm³/r

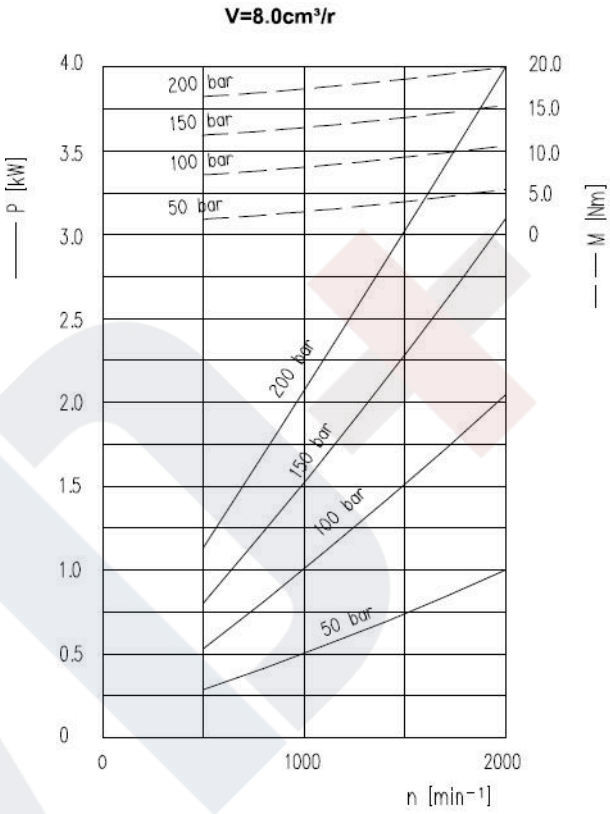


V=5.8cm³/r



Power Perfomance Curve Table





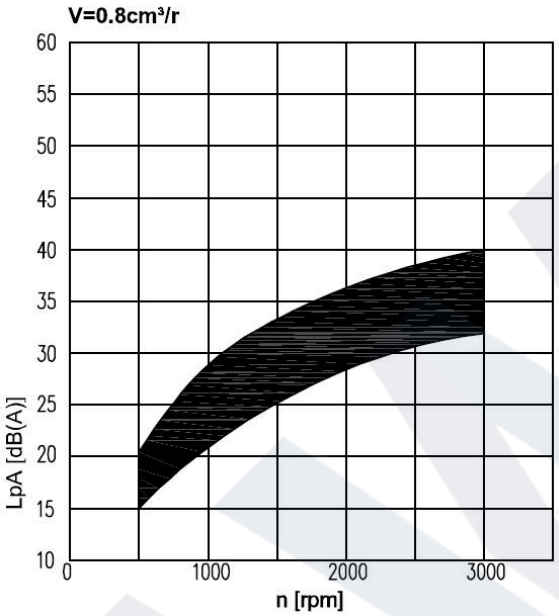
Noise Curve Table

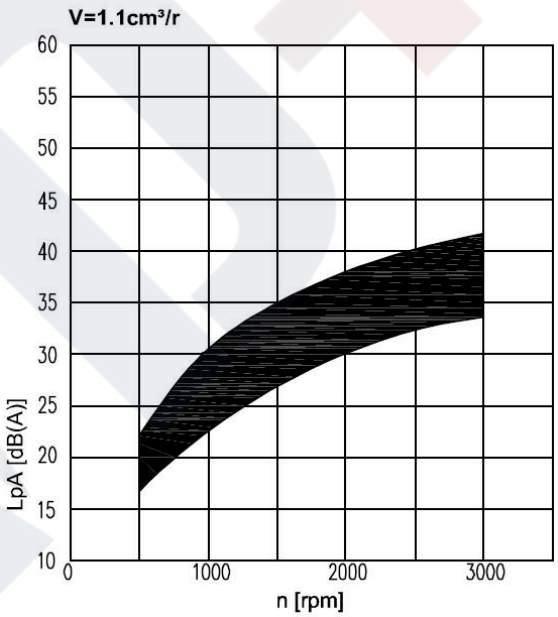
The noise level depends on the speed and pressure range;
This pressure range is between10 bar and pressure value P1.

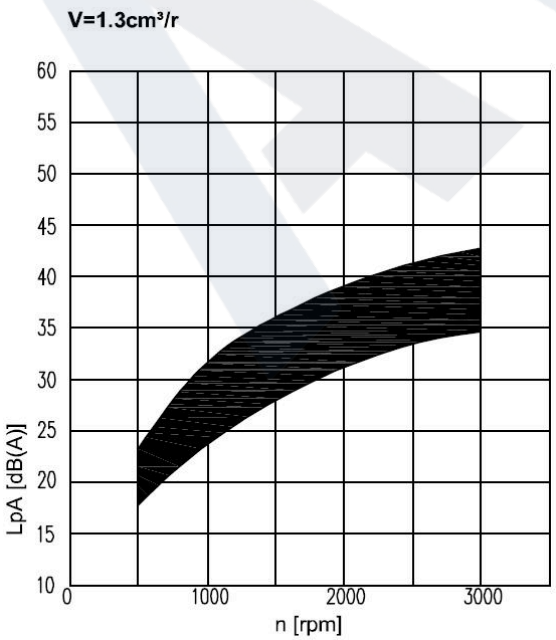
Oil data: v=32 mm^2/s, θ=50°C.

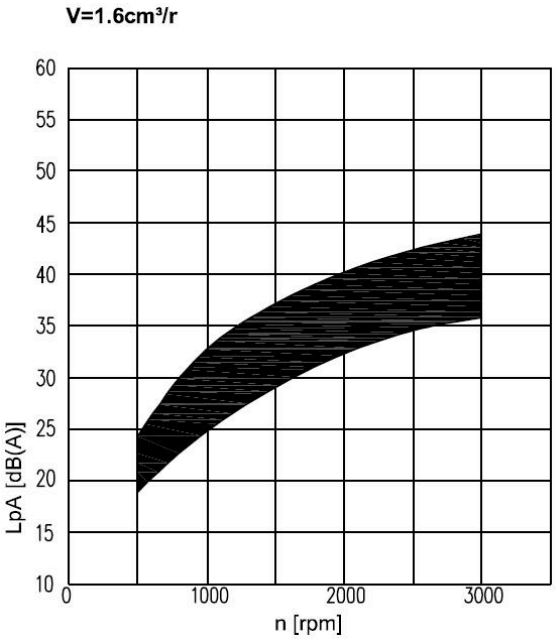
The sound pressure level obtained by calculating the noise value measured from the sound absorption measuring room meets the requiements of Chapter 26 of DIN 45635.

Distance between measuring sensor and hydraulic pump: 1m.



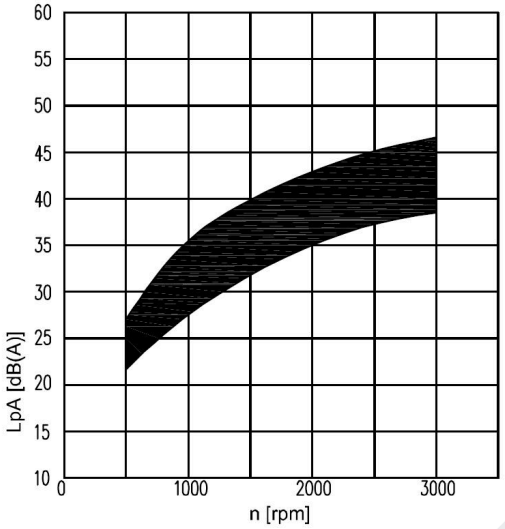




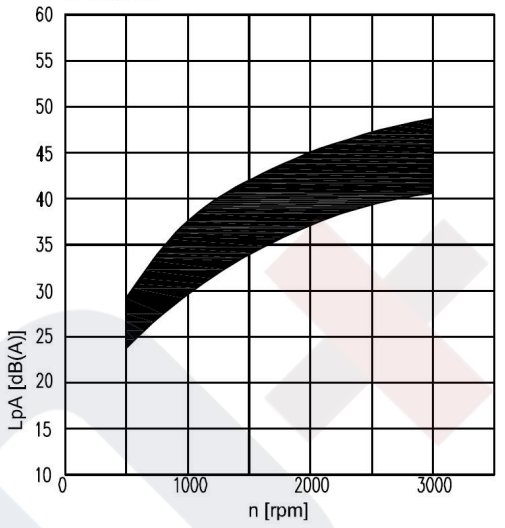


Noise Curve Table

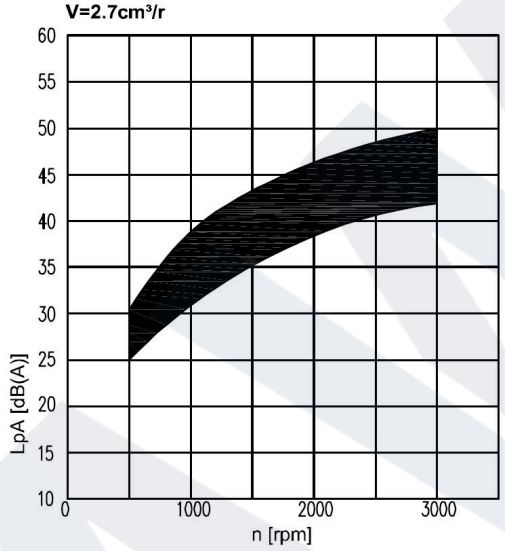
V=1.8cm³/r



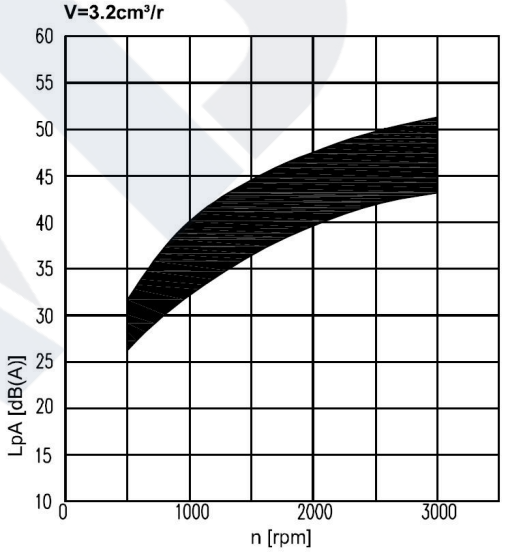
V=2.1cm³/r



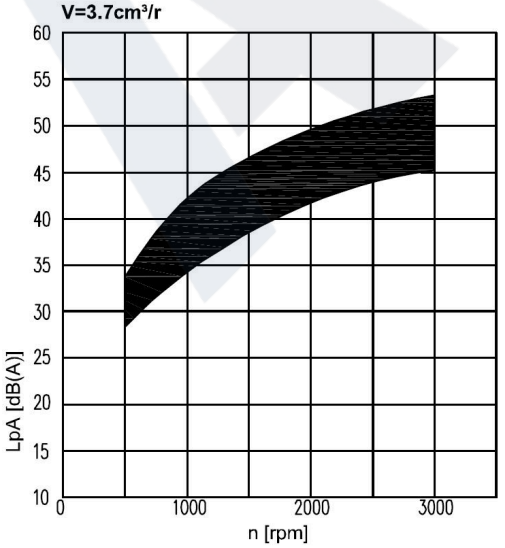
V=2.7cm³/r



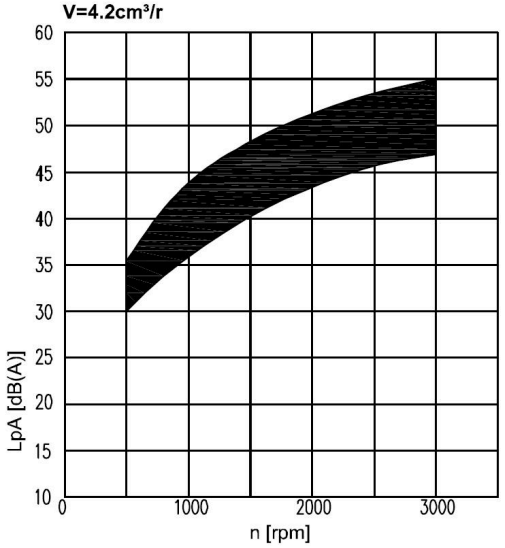
V=3.2cm³/r



V=3.7cm³/r

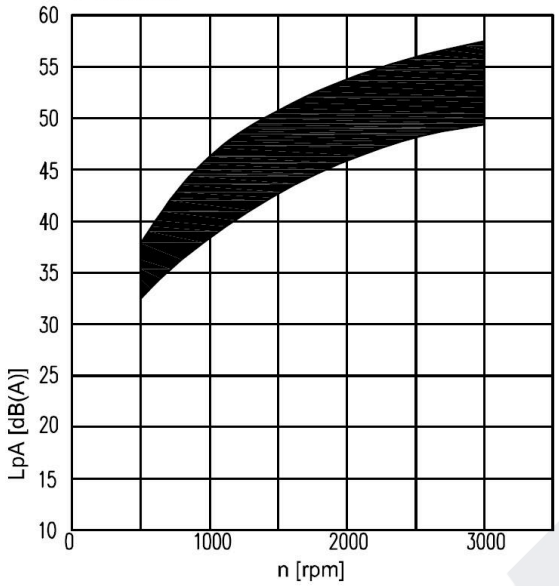


V=4.2cm³/r

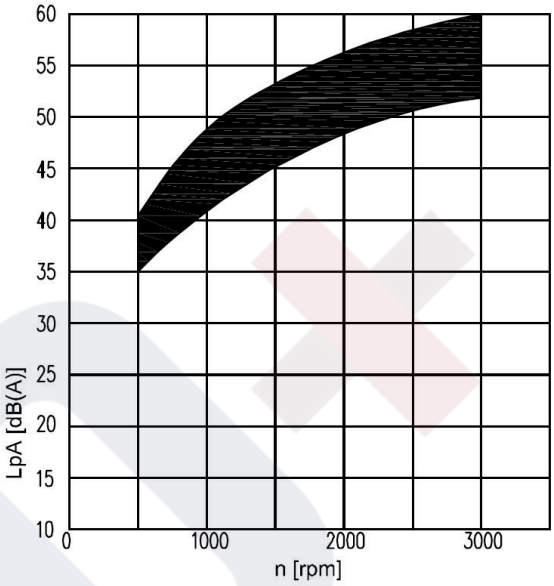


Noise Curve Table

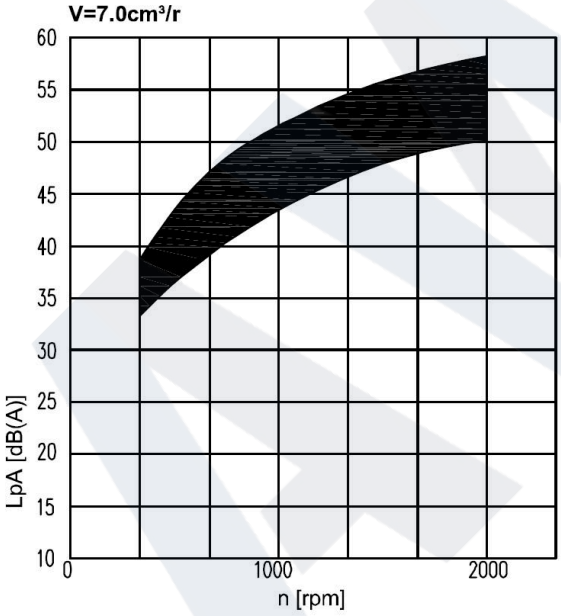
V=4.8cm³/r



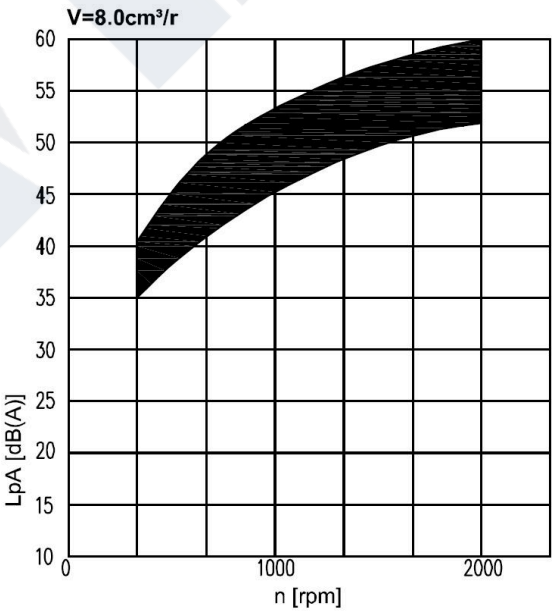
V=5.8cm³/r



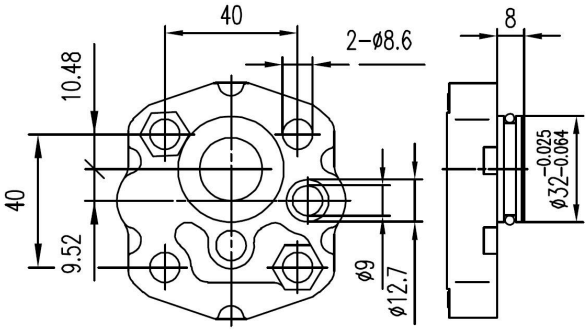
V=7.0cm³/r



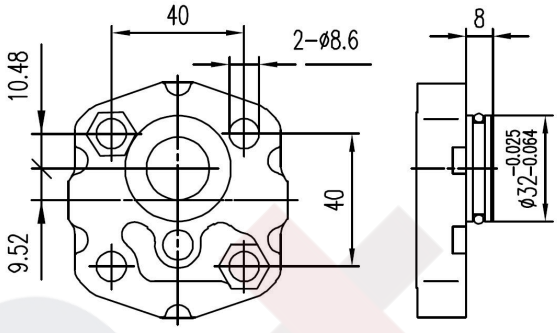
V=8.0cm³/r



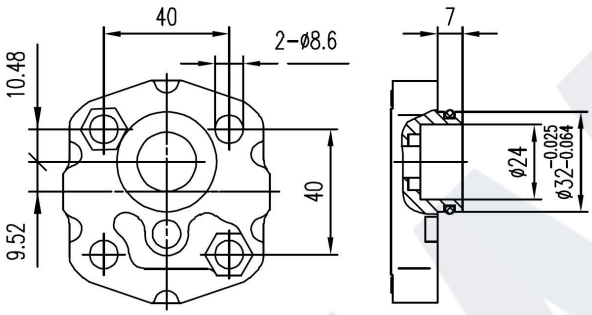
Front cover



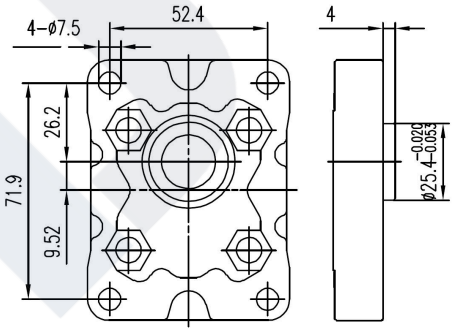
Q0



Q1

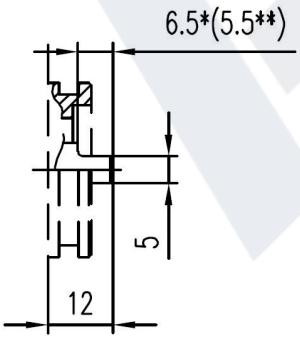


Q2

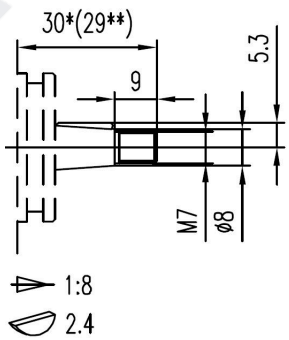


B0

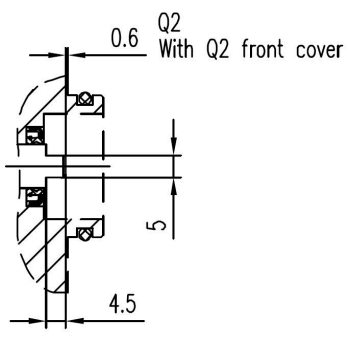
Shafts



	G0
Max. Torque	20 Nm

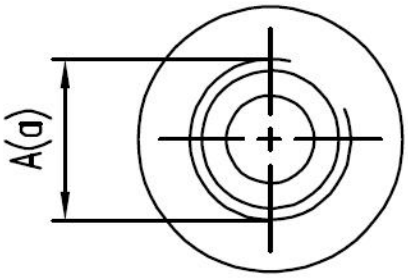


	T0
Max. Torque	25 Nm



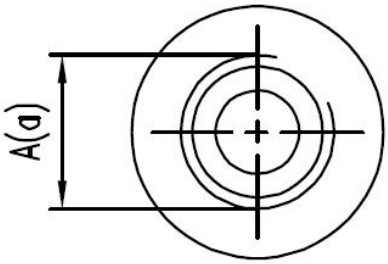
	G1
Max. Torque	20 Nm

Ports



L2/L3

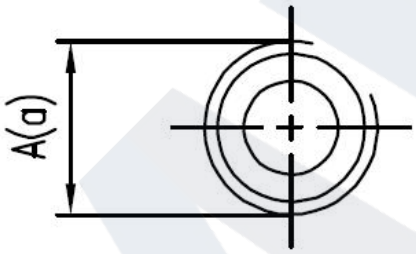
PORTS CODE	Displacement	INLET	OUTLET
	(cm³/rev)	A	a
L2	0.8...8.0	G3/8	G1/4
L3	0.8...8.0	G3/8	G3/8



O-ring

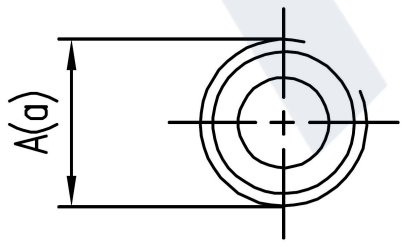
U0

PORTS CODE	Displacement	INLET	OUTLET
	(cm³/rev)	A	a
U0	0.8...8.0	3/4-16UNF	9/16-18UNF



Z0

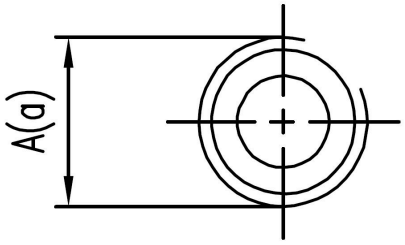
PORTS CODE	Displacement	INLET	OUTLET
	(cm³/rev)	A	a
Z0	0.8...8.0	M18x1.5	M14x1.5



N1

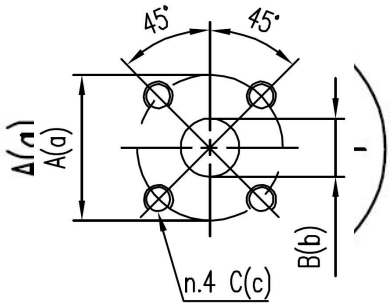
PORTS CODE	Displacement	INLET	OUTLET
	(cm³/rev)	A	a
N1	0.8...8.0	3/8NPT	3/8NPT

Ports



R0/R1

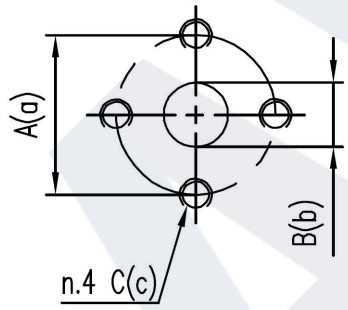
PORTS CODE	Displacement	INLET	OUTLET
	(cm³/rev)	A	a
R0	0.8...8.0	PT1/2	PT1/2
R1	0.8...8.0	PT3/8	PT3/8



O-ring

F0

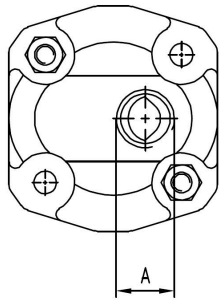
PORTS CODE	Displacement	INLET			OUTLET		
	(cm³/rev)	A	B	C	a	b	c
F0	0.8...8.0	30	12	M6	30	12	M6



E0

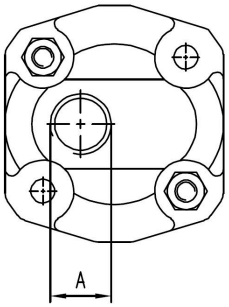
PORTS CODE	Displacement	INLET			OUTLET		
	(cm³/rev)	A	B	C	a	b	c
E0	0.8...8.0	30	12	M6	30	12	M6

Special structure



_J_

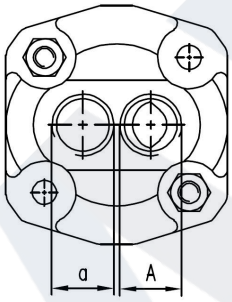
CODE	INLET
	A
LJ1	G3/8
MJ1	M18x1.5
UJ1	9/16-18UNF



O-ring

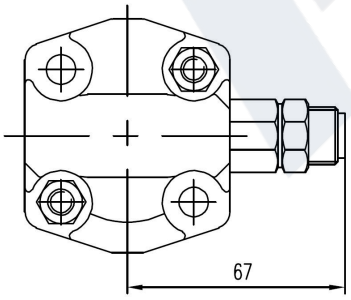
_C_

CODE	OUTLET
	a
LC0	G1/4
MC0	M14x1.5
UC1	9/16-18UNF



L2/U0/Z0

CODE	INLET	OUTLET
	A	a
L2	G3/8	G1/4
U0	3/4-16UNF	9/16-18UNF
Z0	M18x1.5	M14x1.5

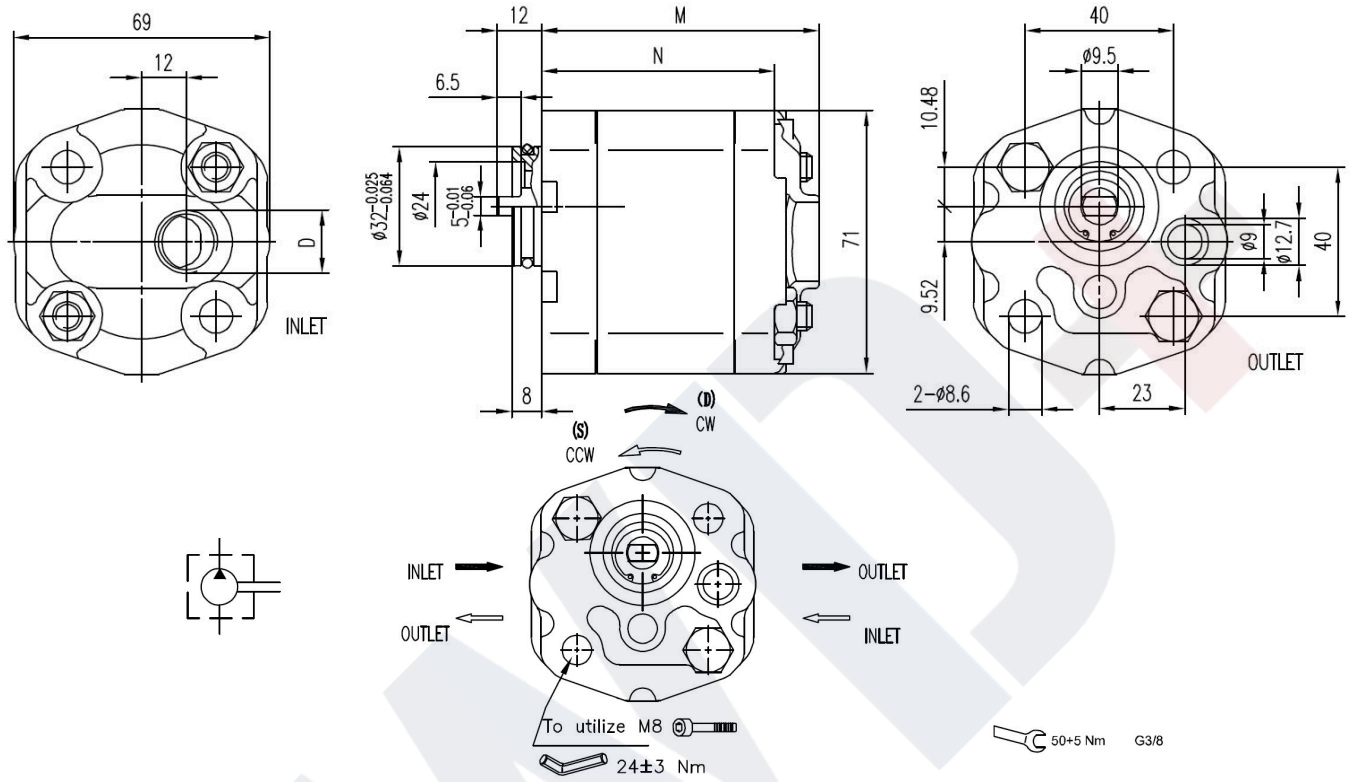


YF1

CODE	Pressure
	bar
YF1	25...180

Standard Product Dimensions

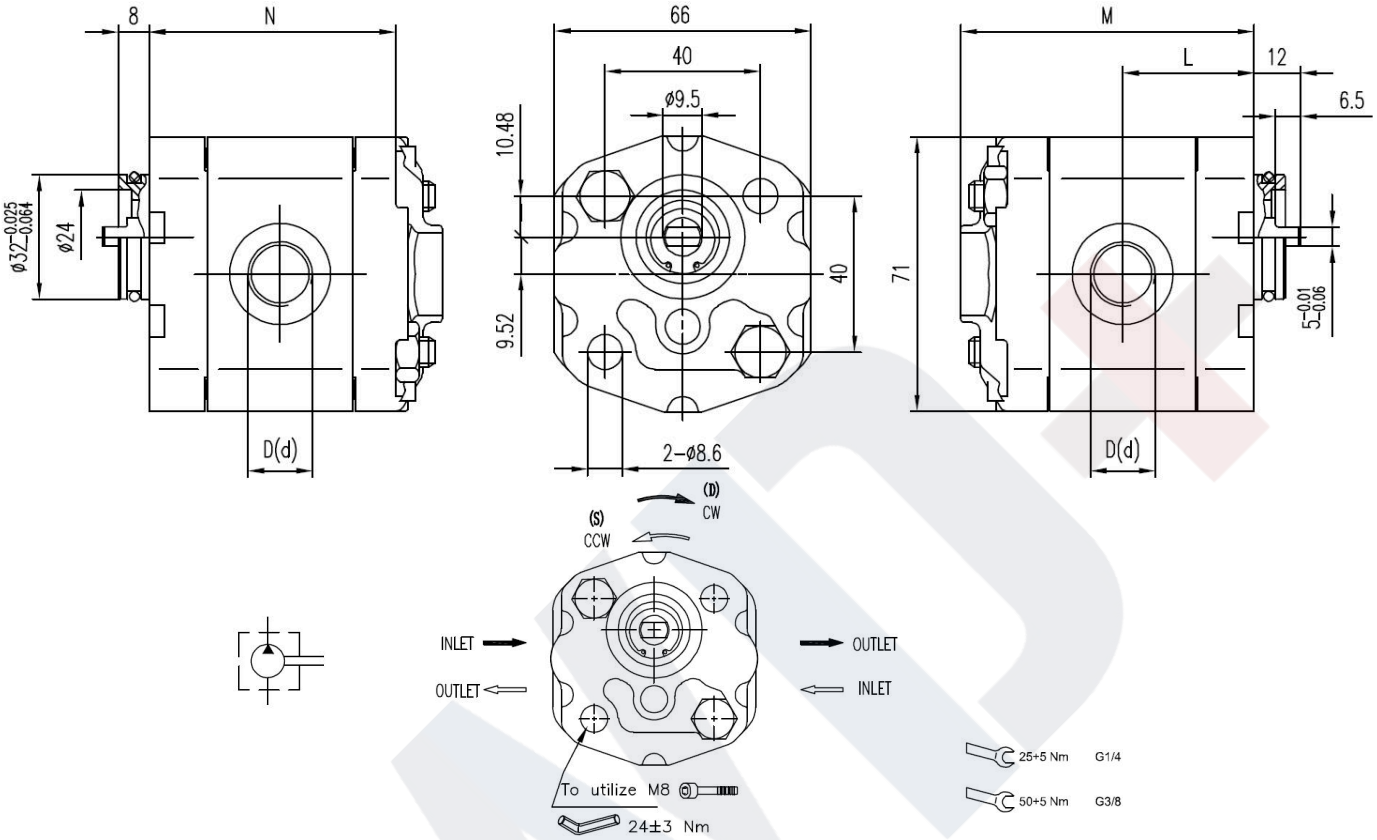
BKP1-Q0-D-0.8-G0-X-LJ1



Displace-ment	Max. pressure			Max. speed	Min. speed	Weight	Dimensions		Oil port code	INLET
	P1	P2	P3				M	N		D
(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	Kg	mm	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

Standard Product Dimensions

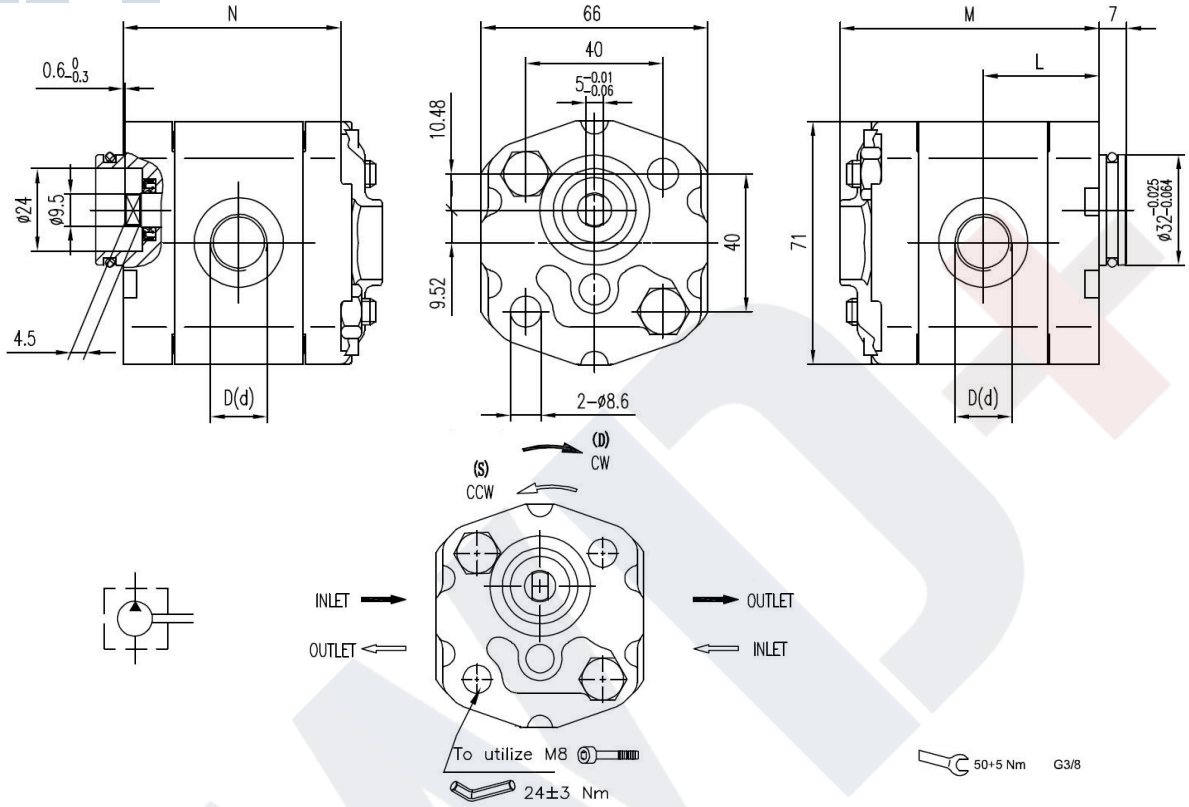
BKP1-Q1-D-0.8-G0-L2



Displace-ment	Max. pressure			Max. speed	Min. speed	Weight	Dimensions			Oil port code	INLET	OUTLET
	P1	P2	P3				M	N	L		D	d
(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	Kg	mm	mm	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

Standard Product Dimensions

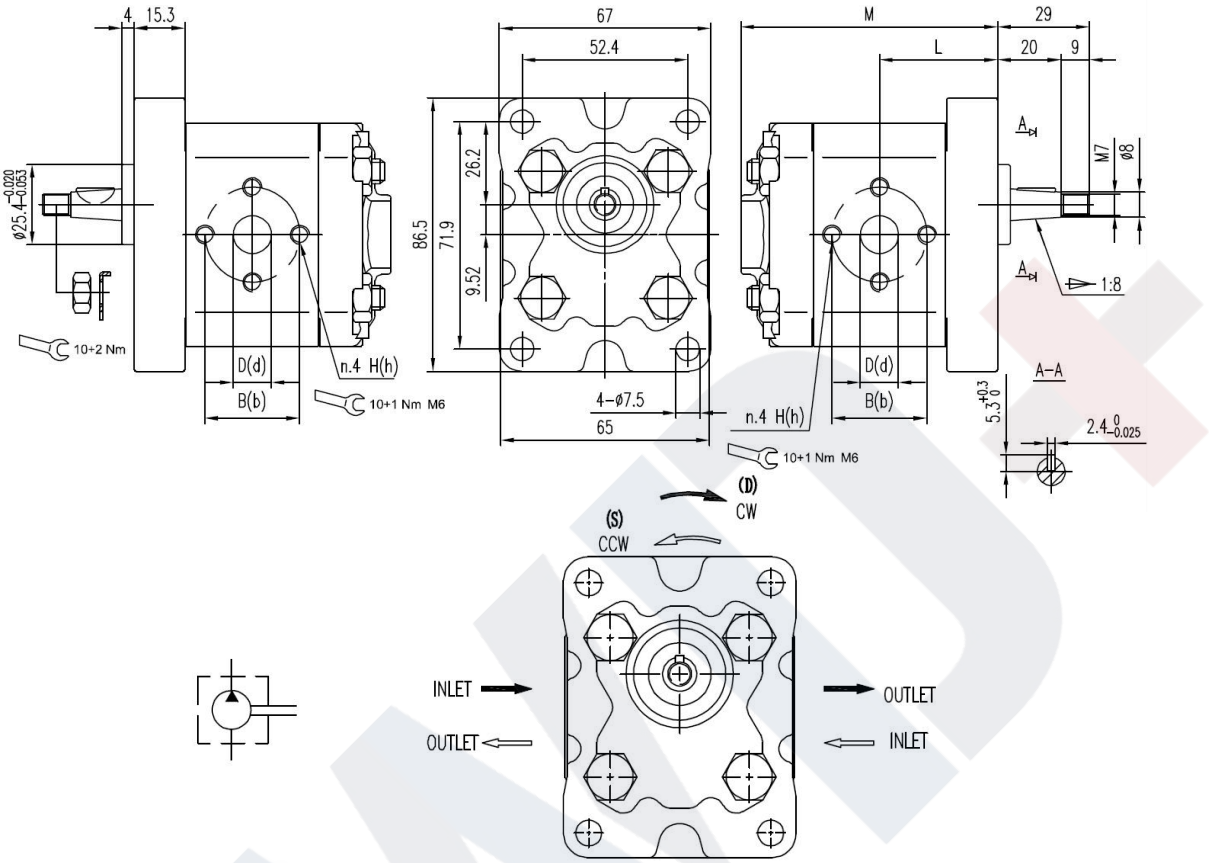
BKP1-Q2-D-0.8-G1-L3



Displace-ment	Max. pressure			Max. speed	Min. speed	Weight	Dimensions			Oil port code	INLET	OUTLET
	P1	P2	P3				M	N	L		D	d
(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	Kg	mm	mm	mm			
0.8	230	250	270	6000	1000	0.76	73.5	61.5	32.8	L3	G3/8	G3/8
1.1	230	250	270	6000	1000	0.77	74	62	33	L3	G3/8	G3/8
1.3	230	250	270	6000	1000	0.78	75	63	33.5	L3	G3/8	G3/8
1.6	230	250	270	6000	1000	0.79	76	64	34	L3	G3/8	G3/8
1.8	230	250	270	6000	1000	0.81	77	65	34.5	L3	G3/8	G3/8
2.1	230	250	270	6000	1000	0.82	78	66	35	L3	G3/8	G3/8
2.7	230	250	270	6000	800	0.85	80	68	36	L3	G3/8	G3/8
3.2	210	230	250	5000	800	0.87	82	70	37	L3	G3/8	G3/8
3.7	210	230	250	4500	800	0.90	84	72	38	L3	G3/8	G3/8
4.2	210	230	250	4000	800	0.93	86	74	39	L3	G3/8	G3/8
4.8	190	210	230	3500	600	0.95	88	76	40	L3	G3/8	G3/8
5.8	190	210	230	3000	600	1.02	92	80	42	L3	G3/8	G3/8
7.0	160	180	200	2500	600	1.07	96	84	44	L3	G3/8	G3/8
8.0	160	180	200	2100	600	1.13	100	88	46	L3	G3/8	G3/8

Standard Product Dimensions

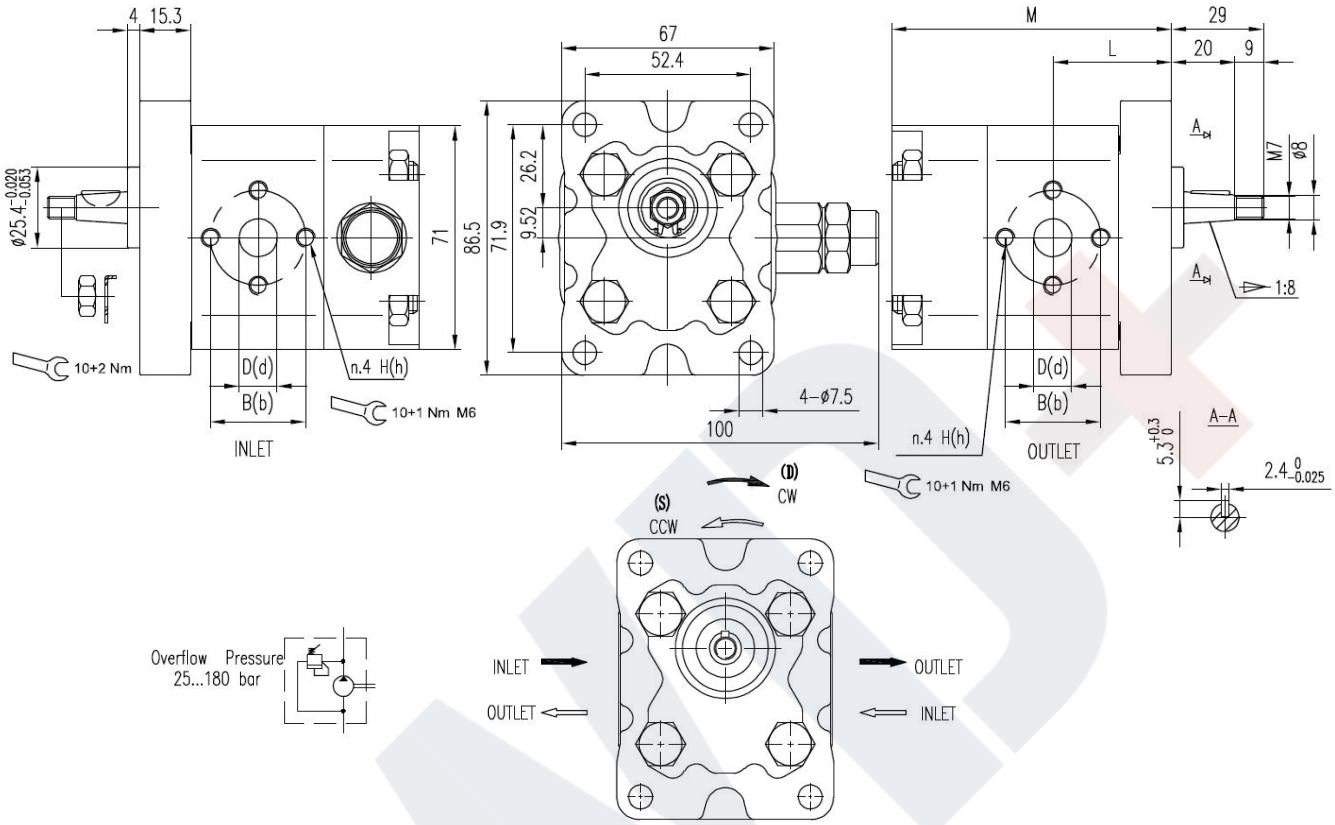
BKP1-B0-D-0.8-T0-E0



Displace-ment	Max. pressure			Max. speed	Min. speed	Weight	Dimensions		Oil port code	INLET			OUTLET		
	P1	P2	P3				M	L		B	D	H	b	d	h
(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	Kg	mm	mm							
0.8	230	250	270	6000	1000	0.86	74.5	33.8	E0	30	12	M6	30	12	M6
1.1	230	250	270	6000	1000	0.88	75	34	E0	30	12	M6	30	12	M6
1.3	230	250	270	6000	1000	0.90	76	34.5	E0	30	12	M6	30	12	M6
1.6	230	250	270	6000	1000	0.92	77	35	E0	30	12	M6	30	12	M6
1.8	230	250	270	6000	1000	0.94	78	35.5	E0	30	12	M6	30	12	M6
2.1	230	250	270	6000	1000	0.96	79	36	E0	30	12	M6	30	12	M6
2.7	230	250	270	6000	800	0.988	81	37	E0	30	12	M6	30	12	M6
3.2	210	230	250	5000	800	1.016	83	38	E0	30	12	M6	30	12	M6
3.7	210	230	250	4500	800	1.044	85	39	E0	30	12	M6	30	12	M6
4.2	210	230	250	4000	800	1.072	87	40	E0	30	12	M6	30	12	M6
4.8	190	210	230	3500	600	1.1	89	41	E0	30	12	M6	30	12	M6
5.8	190	210	230	3000	600	1.156	93	43	E0	30	12	M6	30	12	M6
7.0	160	180	200	2500	600	1.212	97	45	E0	30	12	M6	30	12	M6
8.0	160	180	200	2100	600	1.268	101	47	E0	30	12	M6	30	12	M6

Standard Product Dimensions

BKP1-B0-S-0.8-T0-E0-YF1-P180



Displace-ment	Max. pressure			Max. speed	Min. speed	Weight	Dimensions		Oil port code	INLET			OUTLET		
	P1	P2	P3				M	L		B	D	H	b	d	h
(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	Kg	mm	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