

1系列/Group 1

1系列选型规则/Group 1 Ordering Code Rules

B	K	P	1	Q0	D	0.8	G0	X	LJ1	省略/omit	省略/omit
博顿 Boden	材质 Material	功能 Function	系列 Group	前盖 Front cover	旋向 Rotation	排量 Displacement	轴伸 Shaft	泵体油口 Ports	特殊结构 Special structure	可选项 Options	其他 Other
	前、后盖 材料为铝合金 Front and end cover material aluminum	泵 Pump	1 1系列 Group 1 1E 1系列斜齿 Group 1 helical tooth		D 顺时针转 Clockwise S 逆时针转 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					特殊设计 special designing
<p>可选项 Options</p> <p>省略-温度范围在-10℃~+80℃, 进出口最高绝对压力为5bar. Omit-Range between -10℃ and +80℃, inlet pressure up to max. 3 bar absolute.</p> <p>V 适用于高温介质, 温度范围在-10℃~+120℃. Version suitable for fluid at hi-temperatures, range between -10℃ and +120℃.</p> <p>H 适用于低温介质, 温度范围在-40℃~+80℃. Version suitable for fluid at low-temperatures, range between -40℃ and +80℃.</p> <p>N 适用于进出口最大绝对压力3~10bar. Version suitable for inlet pressure up to max. 3 and 10 bar absolute.</p> <p>如需其它特殊选项请联系本公司工程师 For other special options, please contact our engineers.</p>											

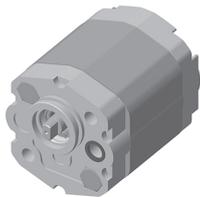
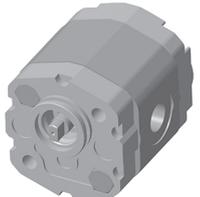
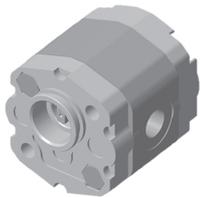
前盖 Front cover	轴伸 Shaft	泵体油口 Ports	特殊结构 Special structure
Q0 带油口方形前盖 (止口 $\phi 32\text{mm}$) Square front cover with oil port (centering $\phi 32\text{mm}$) 	T0 锥形键槽轴 1:8 Taper shaft 1:8 	E 矩形法兰 Rectangular flange 	省略-默认普通 omit-regular
Q1 不带油口方形前盖 (止口 $\phi 32\text{mm}$) Square front cover without oil port (centering $\phi 32\text{mm}$) 	G0 扁平轴 Tang shaft 	F 矩形法兰 Rectangular flange 	J 后盖带进油口 Back cover with inlet
B0 不带油口方形前盖 (止口 $\phi 32\text{mm}$) Square front cover without oil port (centering $\phi 25.4\text{mm}$) 	G1 扁平轴 Tang shaft 	Z 公制螺纹 (M) Metric thread 	C 后盖带出油口 Back cover with outlet
详见 32 页 See page 32 for details	详见 32 页 See page 32 for details	L 英制管螺纹 (G) Gas thread 	L 后盖带进出油口 Back cover with inlet and outlet
		U 美制管螺纹 (UNF-2B) UNF thread 	YF1 后盖带溢流阀 Back cover with relief valve
		R 英制锥螺纹 (PT) PT thread 	
		N 美制锥螺纹 (NPT) NPT thread 	
		X 泵体无油口 Body without ports 	
详见 32 页 See page 32 for details	详见 32 页 See page 32 for details	详见 33-34 页 See page 33-34 for details	详见 35 页 See page 35 for details

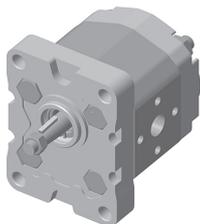
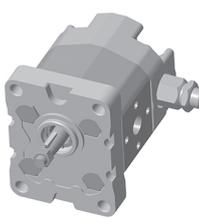
如需其它型号请见详情页或联系本公司工程师

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

1系列/Group 1

1系列标准型产品概览/Group 1 Standard Product Overview

型式 type			
页码 page	36	37	38

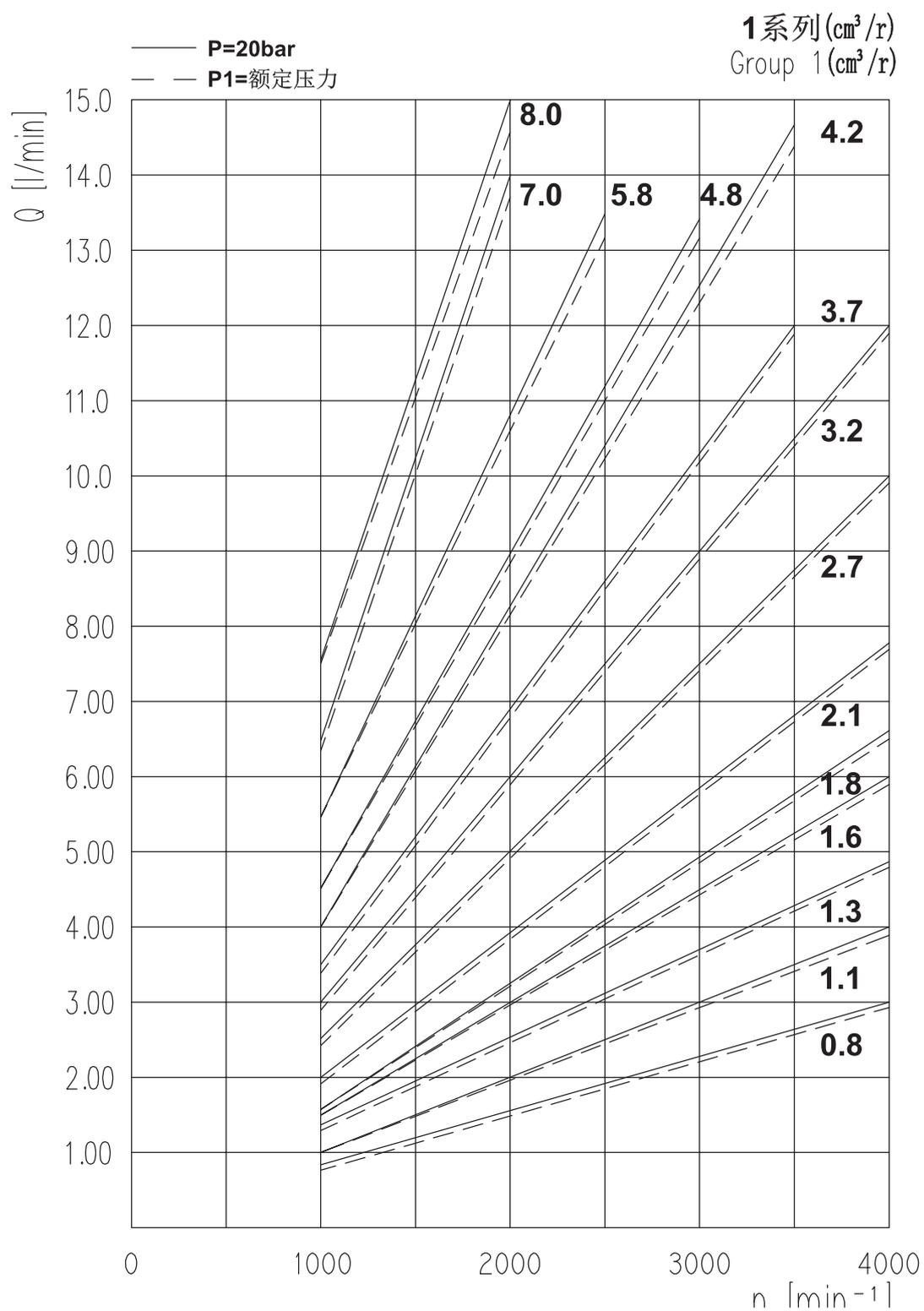
型式 type		
页码 page	39	40

1系列排量参数表/Group 1 Displacement parameter table

排量 Displacement	V	cm ³ /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					
吸油绝对压力 Suction absolute pressure	Pe	bar	0.7...3																		
最高连续压力 Max. continuous pressure	P1		230				210				190		160								
最高间隙压力 Max. intermittent pressure	P2		250				230				210		180								
最高峰值压力 Max. peak pressure	P3		270				250				230		200								
最低转速 Min. speed	n_{\min}	r/min	1000					800					600								
最高转速 Max. speed	n_{\max}		6000					5000					4500		3500		3000		2500		2100
容积效率 Volumetric efficiency	η_v	%	≥90		≥91			≥92					≥93								

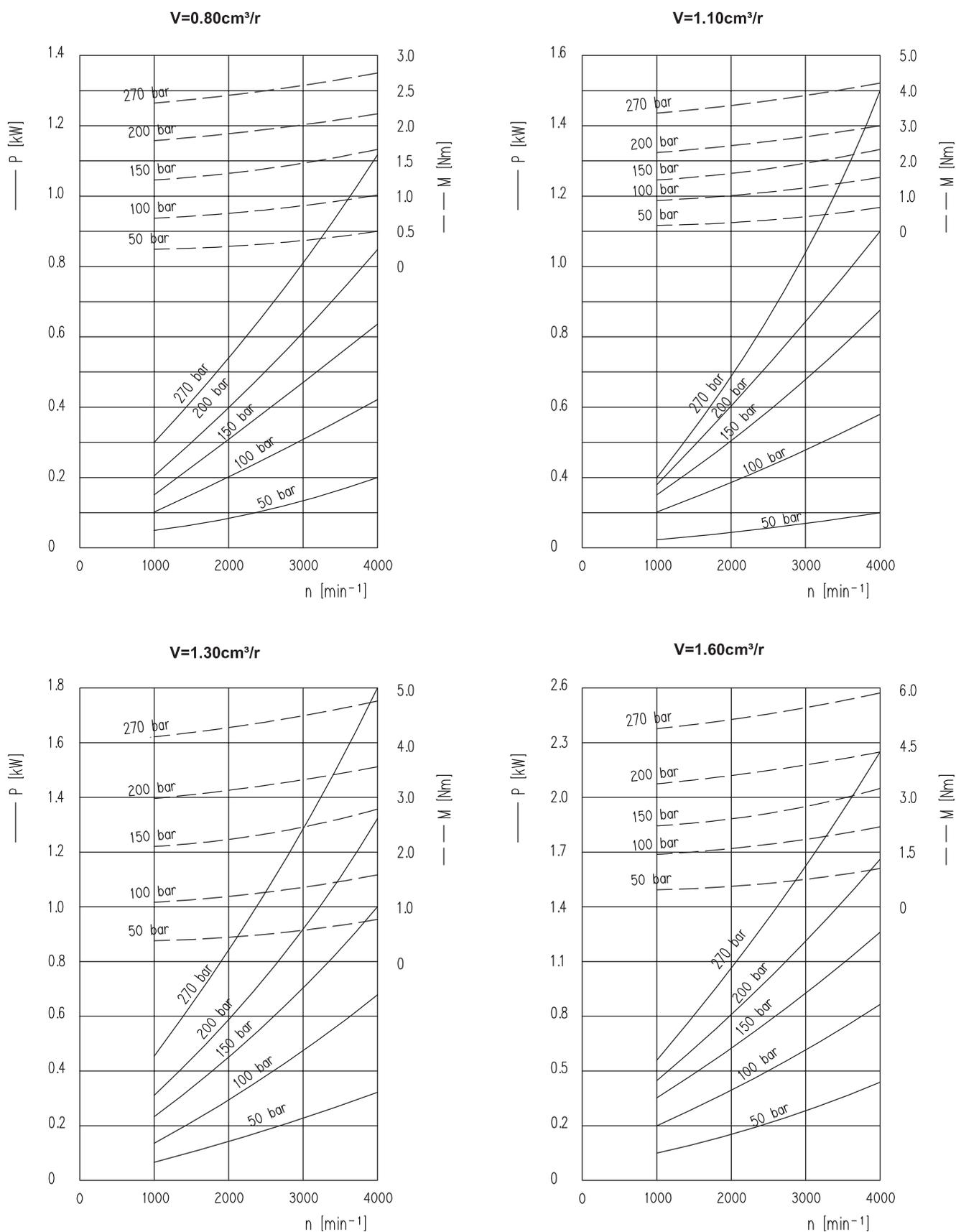
1系列/Group 1

1系列流量性能曲线表/Group 1 Flow Performance Curve Table



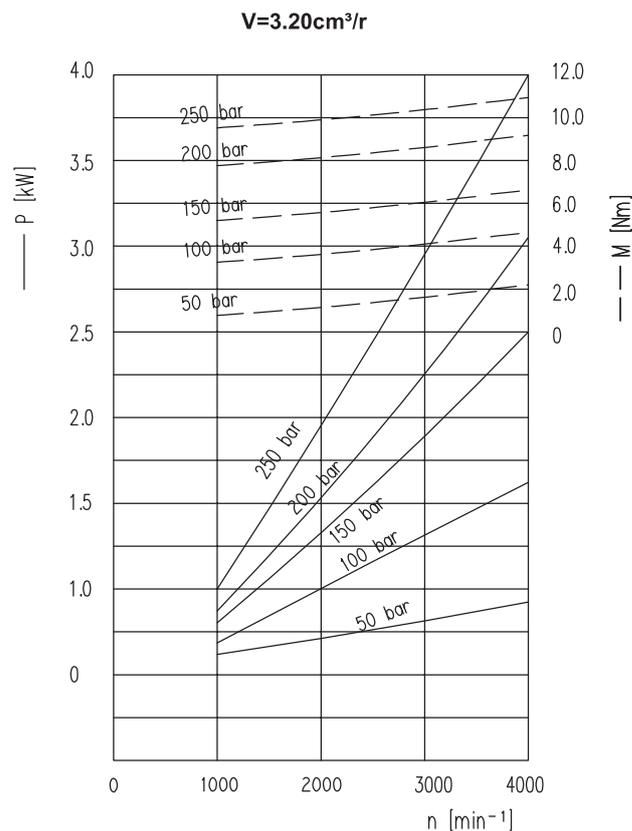
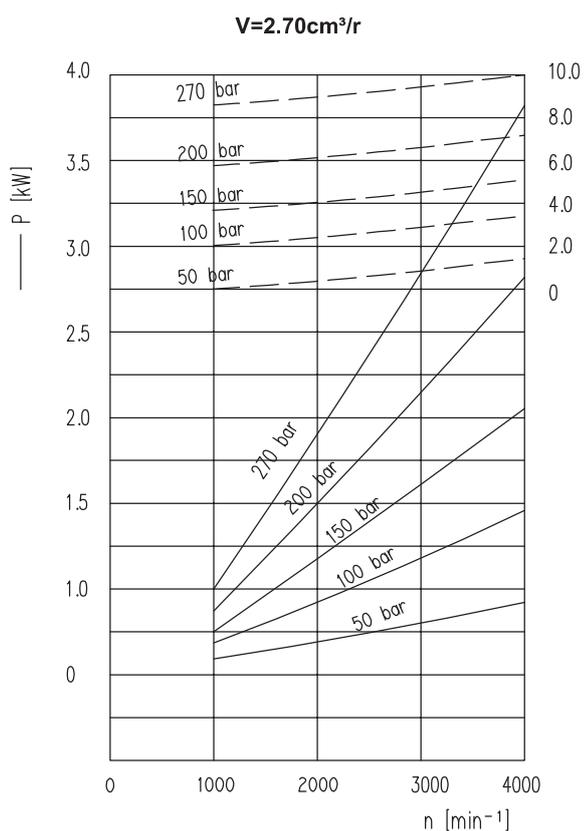
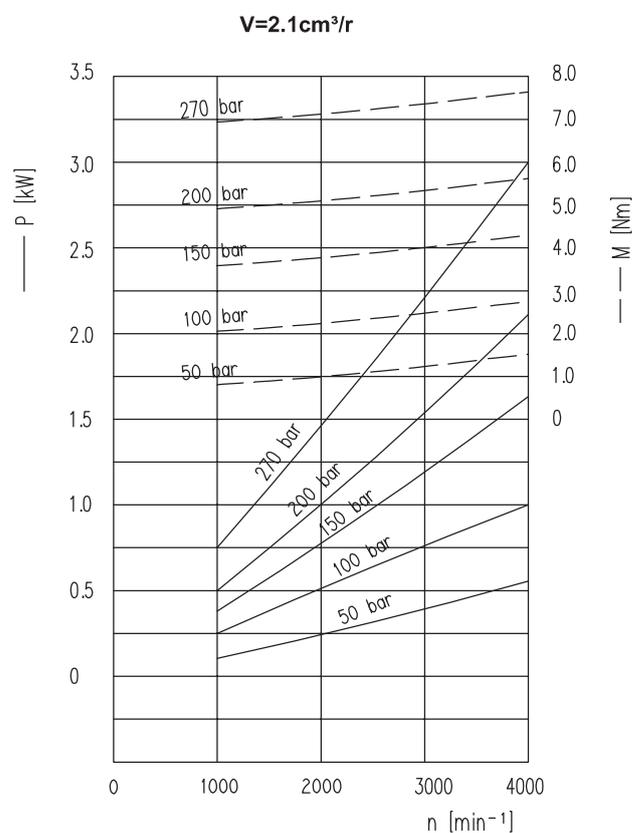
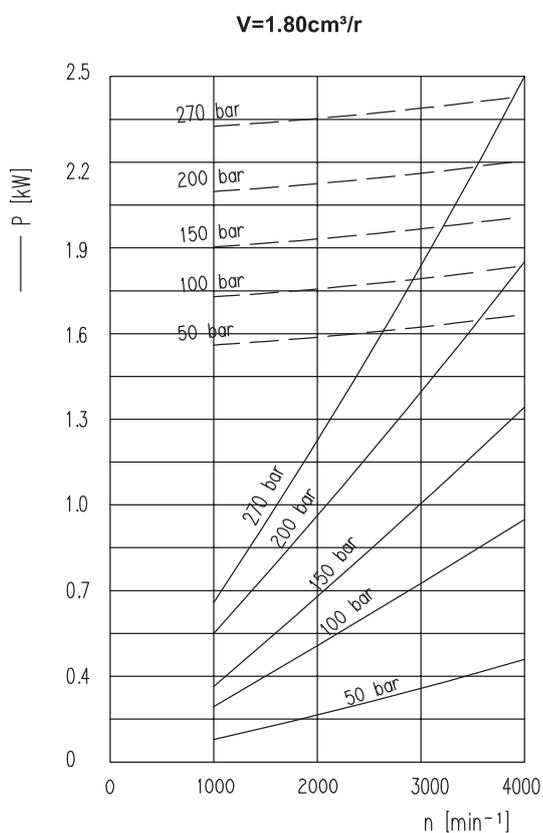
1系列/Group 1

1系列功率性能曲线表/Group 1 Power Performance Curve Table



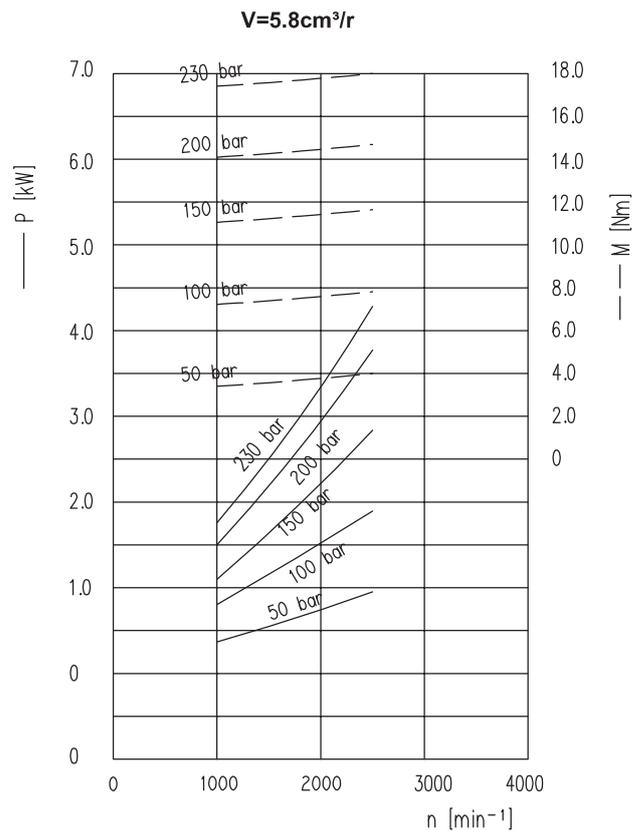
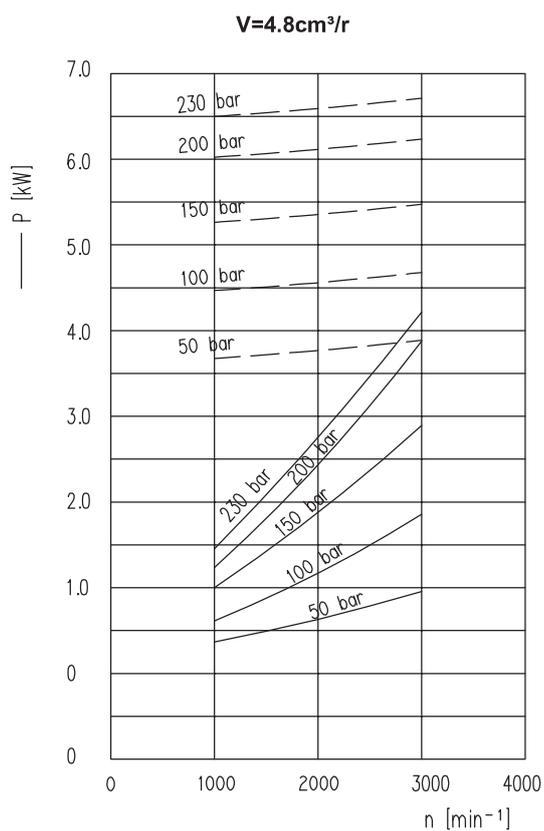
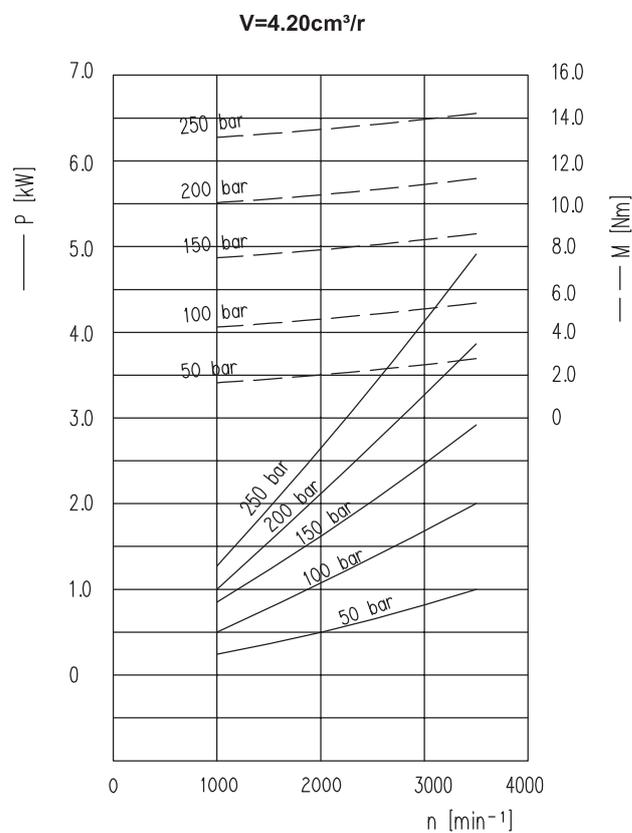
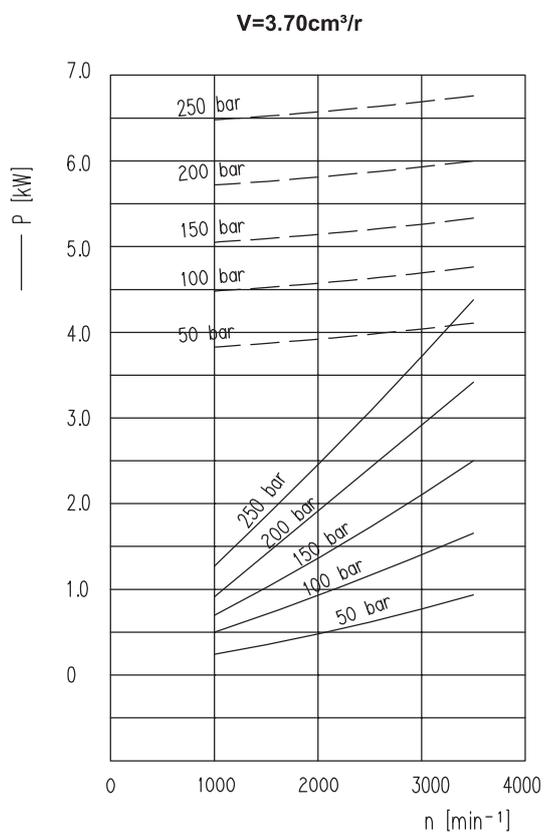
1系列/Group 1

1系列功率性能曲线表/Group 1 Power Performance Curve Table



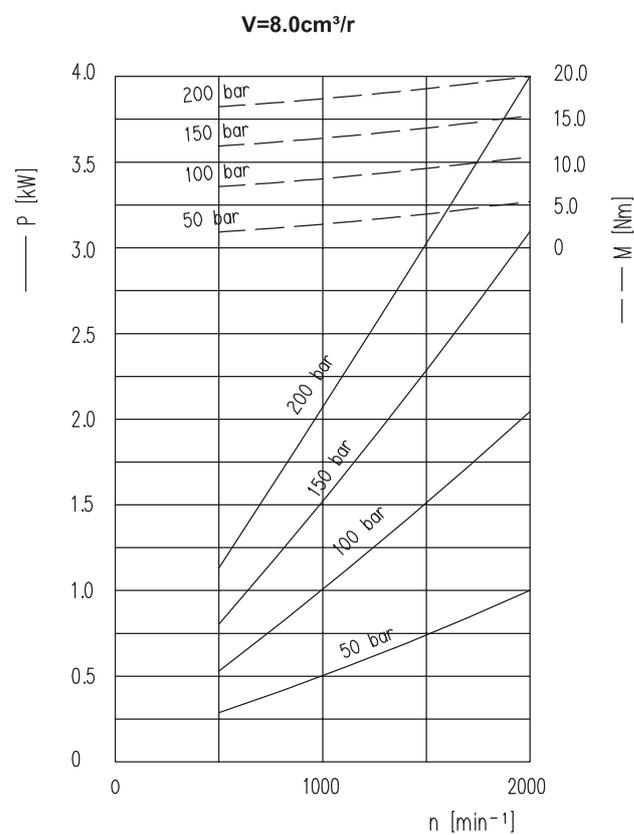
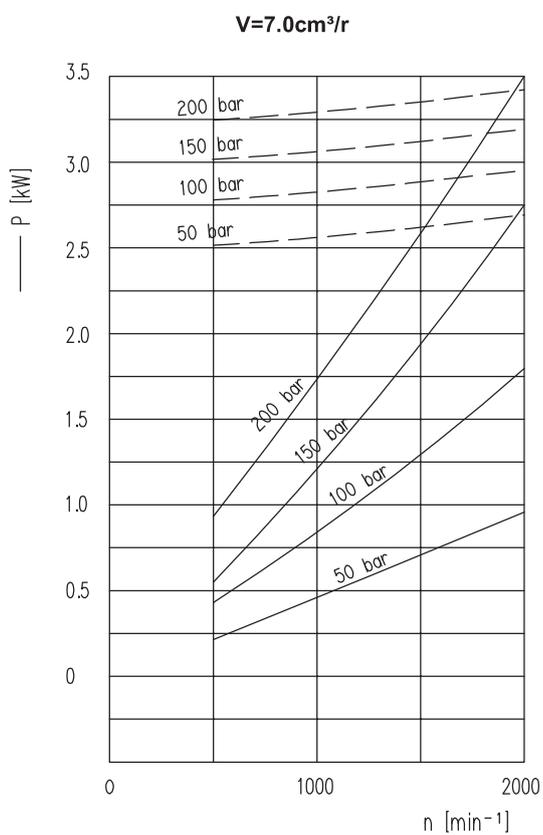
1系列/Group 1

1系列功率性能曲线表/Group 1 Power Performance Curve Table



1系列/Group 1

1系列功率性能曲线表/Group 1 Power Performance Curve Table



1系列/Group 1

1系列噪音曲线表/Group 1 Noise Curve Table

噪音曲线

噪音等级取决于转速和压力范围；这个压力范围介于10 bar和压力值 P1之间。

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

油液数据: $v = 32 \text{ mm}^2/\text{s}$, $\vartheta = 50^\circ\text{C}$.

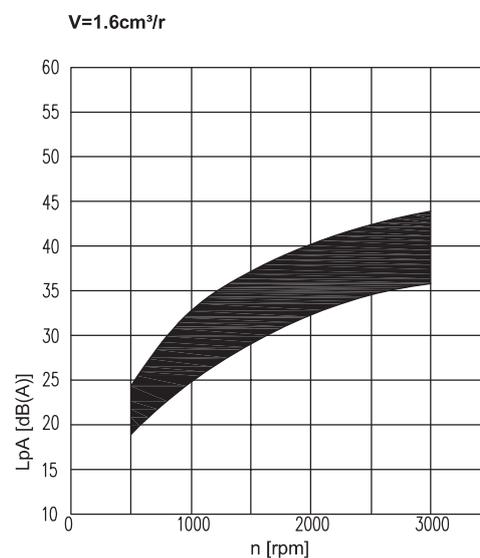
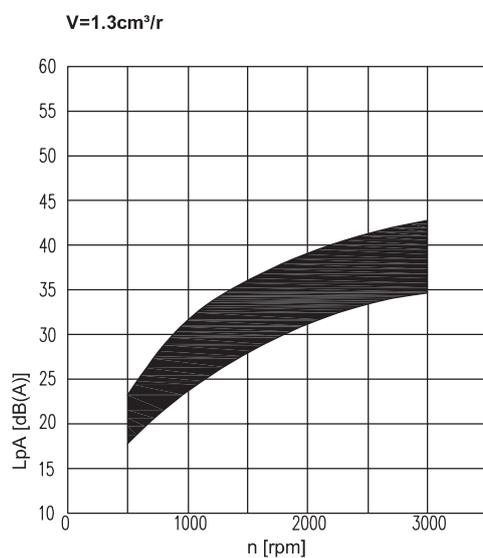
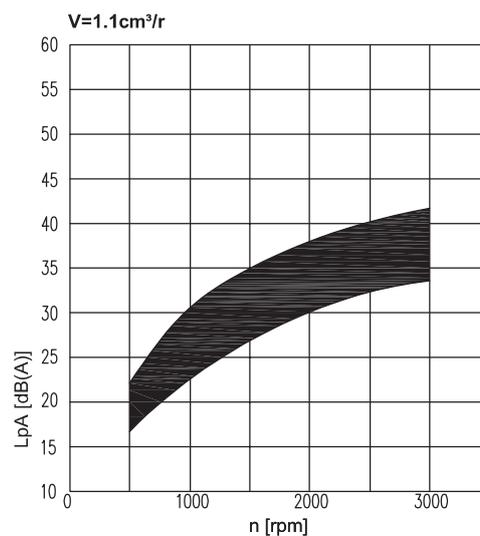
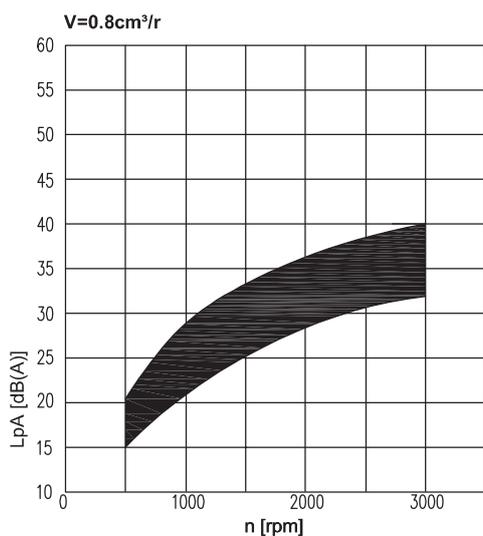
Oil data: $V = 32 \text{ mm}^2/\text{s}$, $\vartheta = 50^\circ\text{C}$.

对于从吸声测量室测得的噪音值进行计算而得到的声音压力等级，符合 DIN 45635 第 26 章的要求。

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.

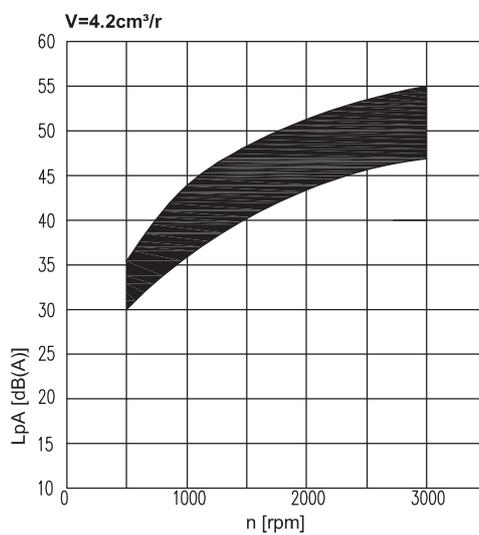
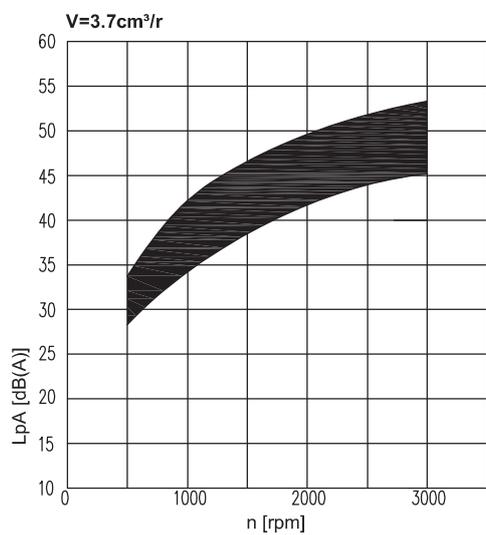
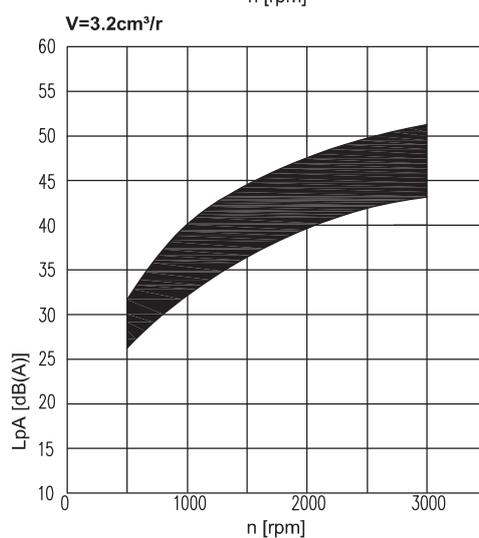
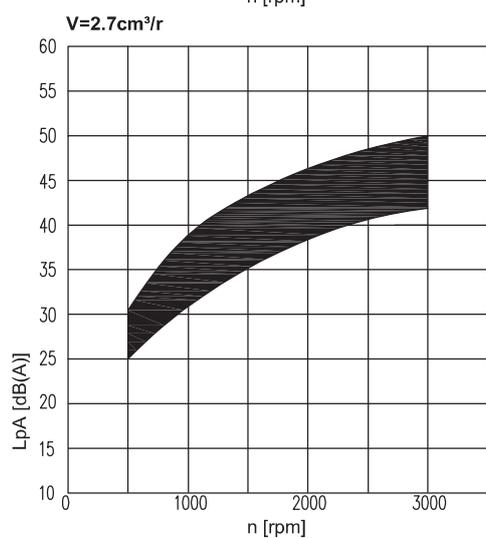
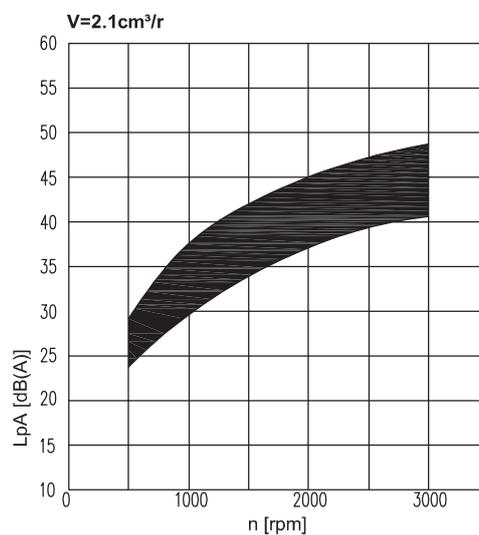
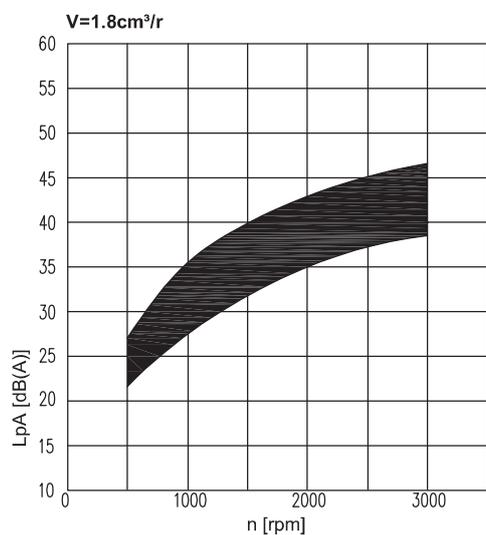
测量传感器与液压泵之间的距离：1 米。

Distance between measuring sensor and hydraulic pump: 1m.



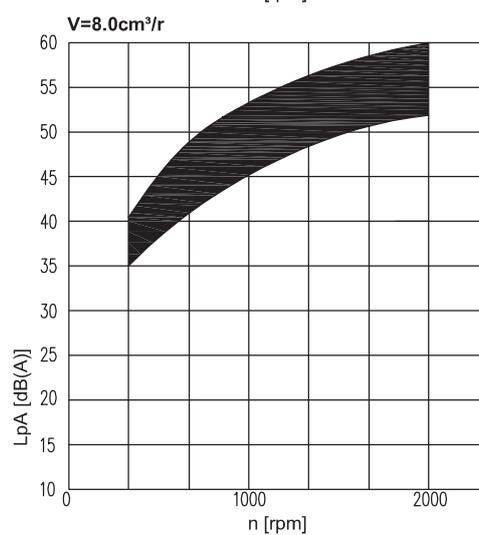
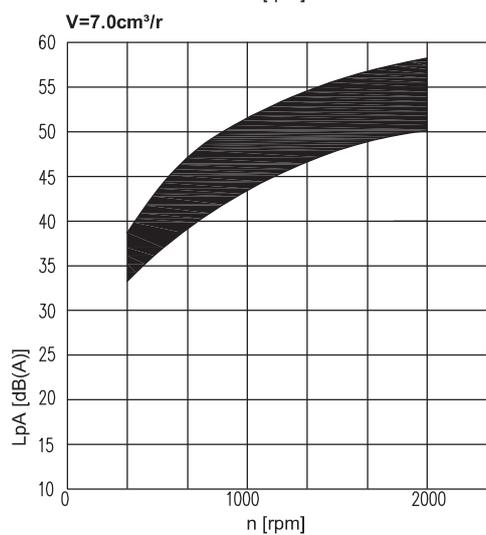
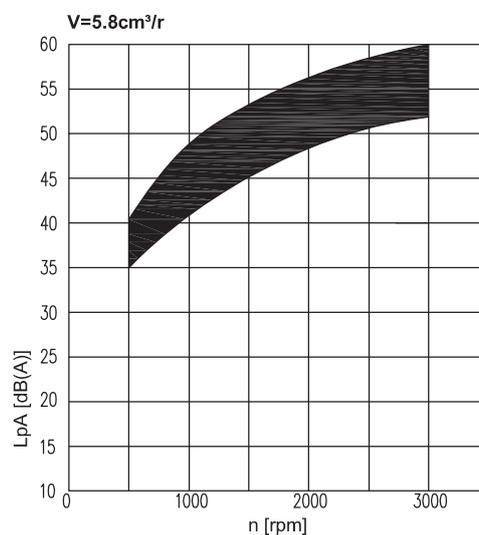
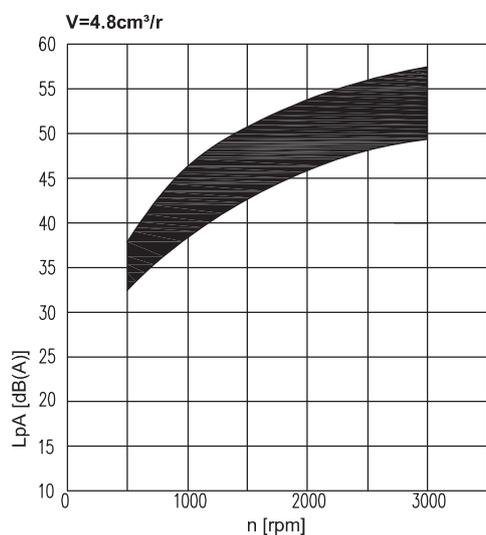
1系列/Group 1

1系列噪音曲线表/Group 1 Noise Curve Table



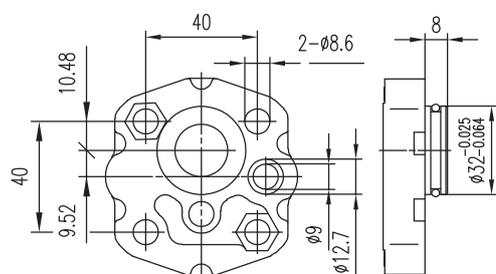
1系列/Group 1

1系列噪音曲线表/Group 1 Noise Curve Table

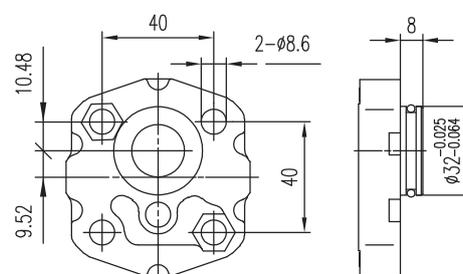


1系列/Group 1

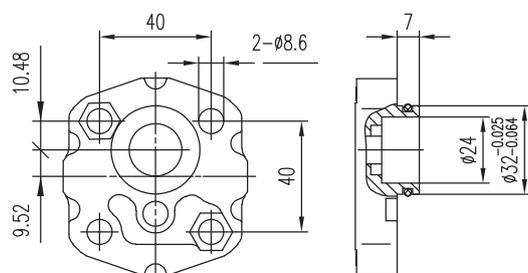
前盖/Front COVER



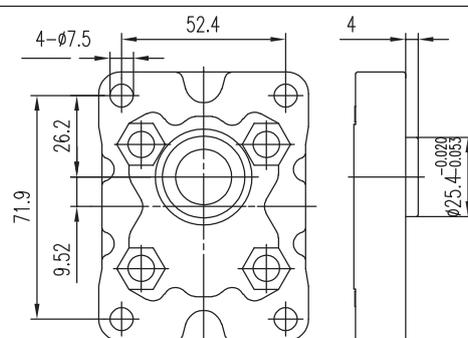
Q0



Q1

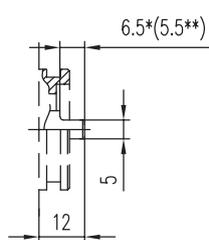


Q2



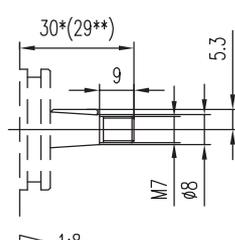
B0

轴伸/SHAFTS



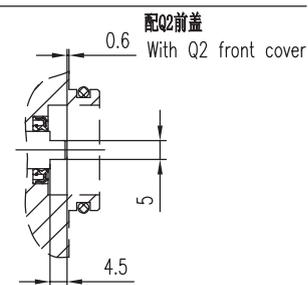
G0

最大扭矩
Max.Torque 20 Nm



T0

最大扭矩
Max.Torque 25 Nm



G1

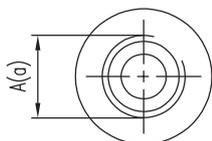
最大扭矩
Max.Torque 20 Nm

* 与前盖Q □ 配合尺寸
Dimension with front cover Q □

** 与前盖B □ 配合尺寸
Dimension with front cover B □

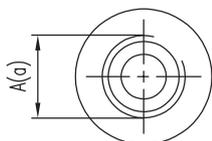
1系列/Group 1

泵体油口/PORTS



L2/L3

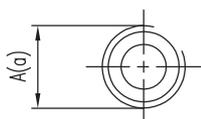
油口代号 PORTS CODE	排量 Displacement	进油口 INLET	出油口 OUTLET
	(cm ³ /rev)	A	a
L2	0.8...8.0	G3/8	G1/4
L3	0.8...8.0	G3/8	G3/8



O型圈密封
O-ring

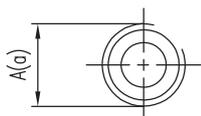
U0

油口代号 PORTS CODE	排量 Displacement	进油口 INLET	出油口 OUTLET
	(cm ³ /rev)	A	a
U0	0.8...8.0	3/4-16UNF	9/16-18UNF



Z0

油口代号 PORTS CODE	排量 Displacement	进油口 INLET	出油口 OUTLET
	(cm ³ /rev)	A	a
Z0	0.8...8.0	M18X1.5	M14X1.5

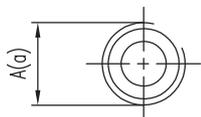


N1

油口代号 PORTS CODE	排量 Displacement	进油口 INLET	出油口 OUTLET
	(cm ³ /rev)	A	a
N1	0.8...8.0	3/8NPT	3/8NPT

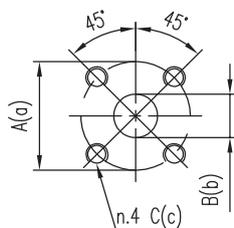
1系列/Group 1

泵体油口/PORTS



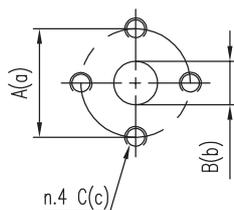
R0/R1

油口代号 PORTS CODE	排量 Displacement (cm ³ /rev)	进油口 INLET	出油口 OUTLET
		A	a
R0	0.8...8.0	PT1/2	PT1/2
R1	0.8...8.0	PT3/8	PT3/8



F0

油口代号 PORTS CODE	排量 Displacement (cm ³ /rev)	进油口 INLET			出油口 OUTLET		
		A	B	C	a	b	c
F0	0.8...8.0	30	12	M6	30	12	M6

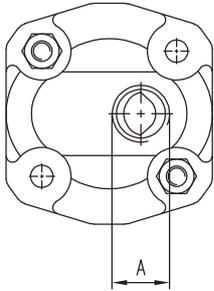


E0

油口代号 PORTS CODE	排量 Displacement (cm ³ /rev)	进油口 INLET			出油口 OUTLET		
		A	B	C	a	b	c
E0	0.8...8.0	30	12	M6	30	12	M6

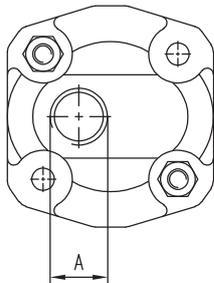
1系列/Group 1

特殊结构/SPECIAL STRUCTRE



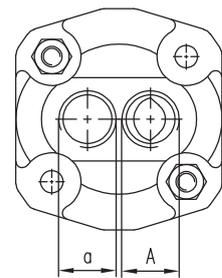
J

代号 CODE	进油口 INLET
	A
LJ1	G3/8
MJ1	M18X1.5
UJ1	9/16-18UNF



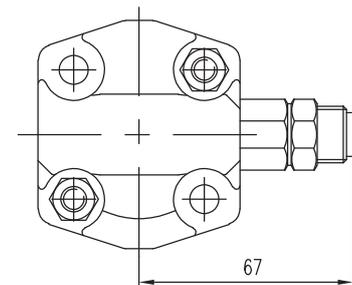
C

代号 CODE	出油口 OUTLET
	A
LC0	G1/4
MCO	M14X1.5
UC1	9/16-18UNF



L2/U0/Z0

代号 CODE	进油口 INLET	出油口 OUTLET
	A	a
L2	G3/8	G1/4
U0	3/4-16UNF	9/16-18UNF
Z0	M18X1.5	M14X1.5



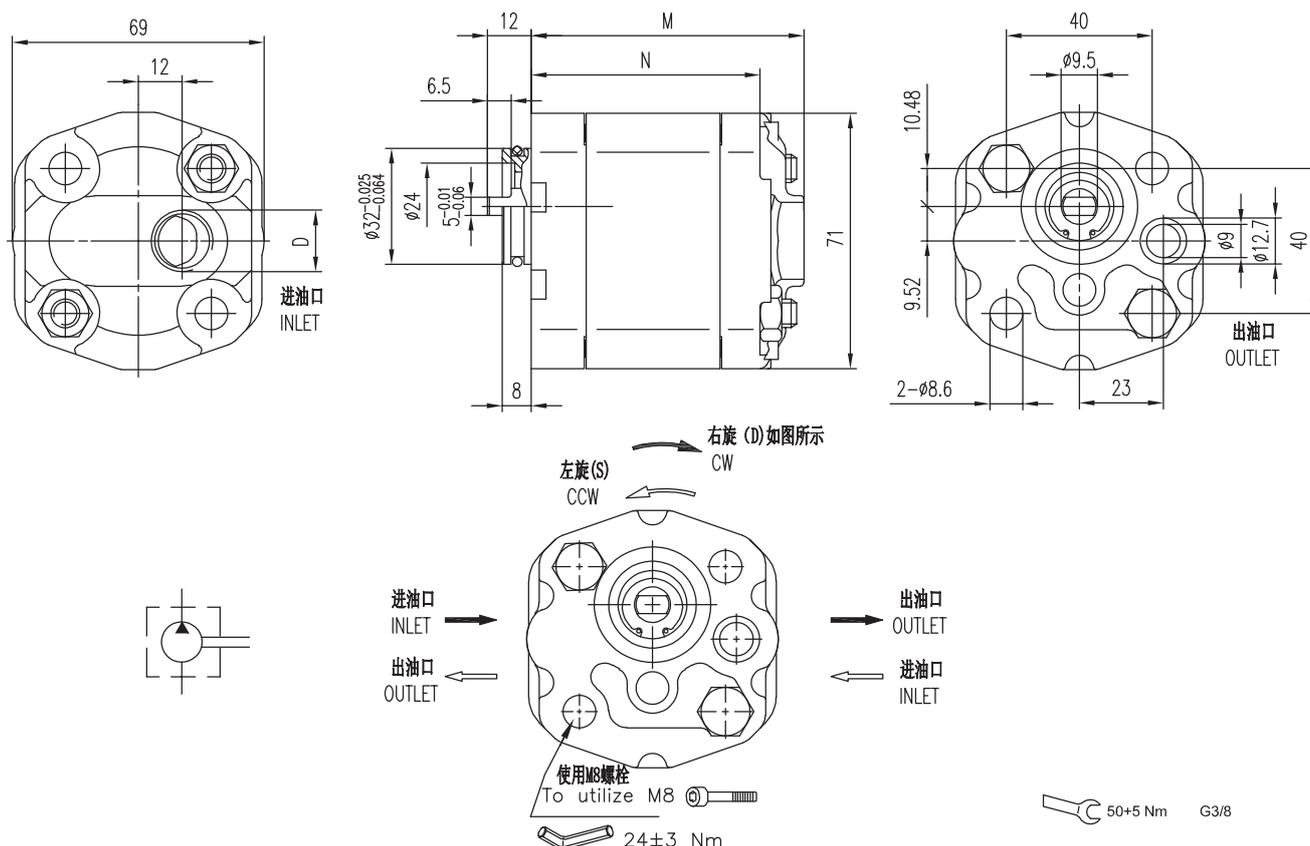
YF1

代号 CODE	压力 Pressure
	bar
YF1	25...180

1系列/Group 1

1系列标准型产品尺寸/Group 1 Standard Product Dimensions

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

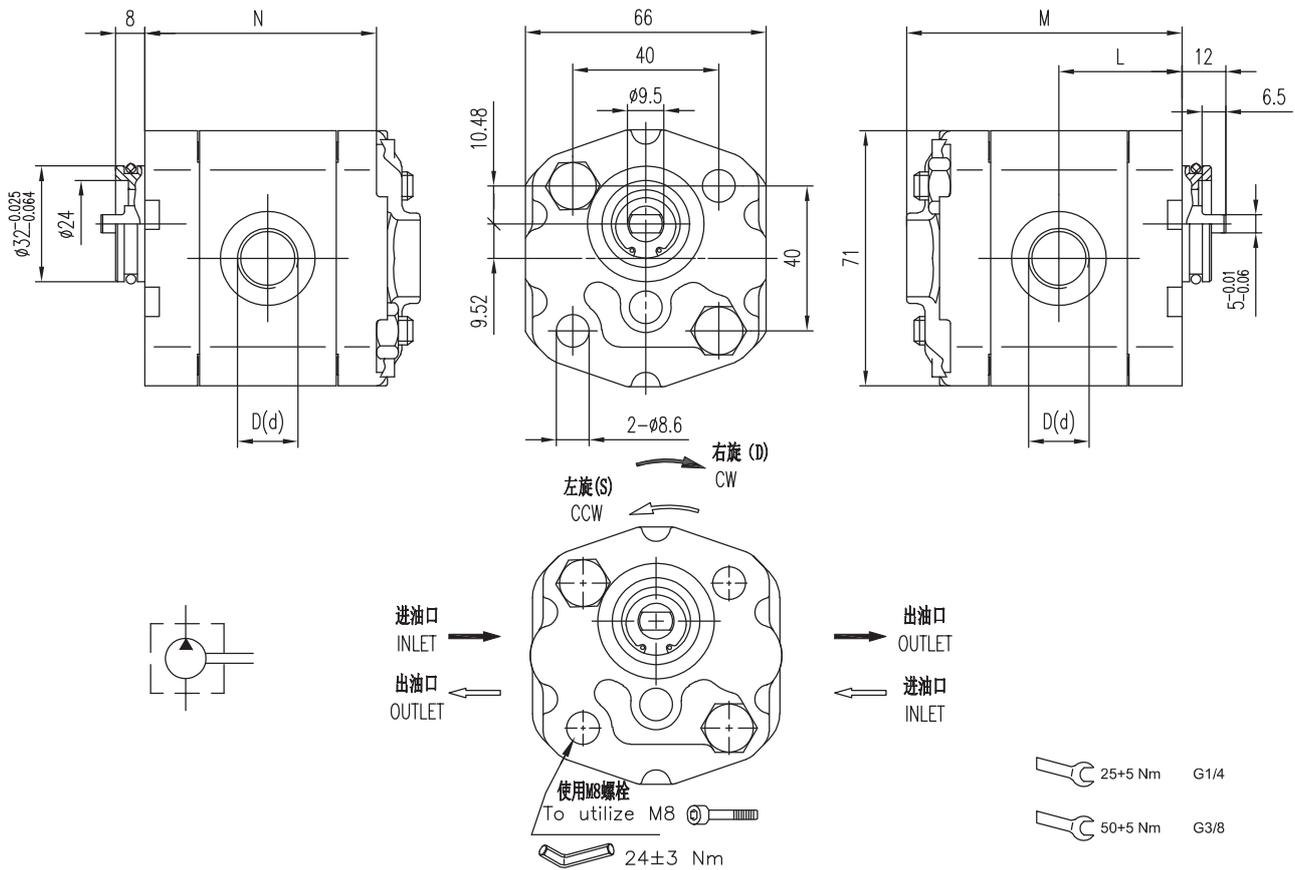


排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	重量 Weight	尺寸 Dimensions		油口代码 Oil port code	进油口 INLET
	P1	P2	P3				M	N		
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	Kg	mm	mm		D
0.8	230	250	270	6000	1000	0.76	73.5	61.5	LJ1	G3/8
1.1	230	250	270	6000	1000	0.77	74	62	LJ1	G3/8
1.3	230	250	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

1系列/Group 1

1系列标准型产品尺寸/Group 1 Standard Product Dimensions

BKP1-Q1-D-0.8-G0-L2

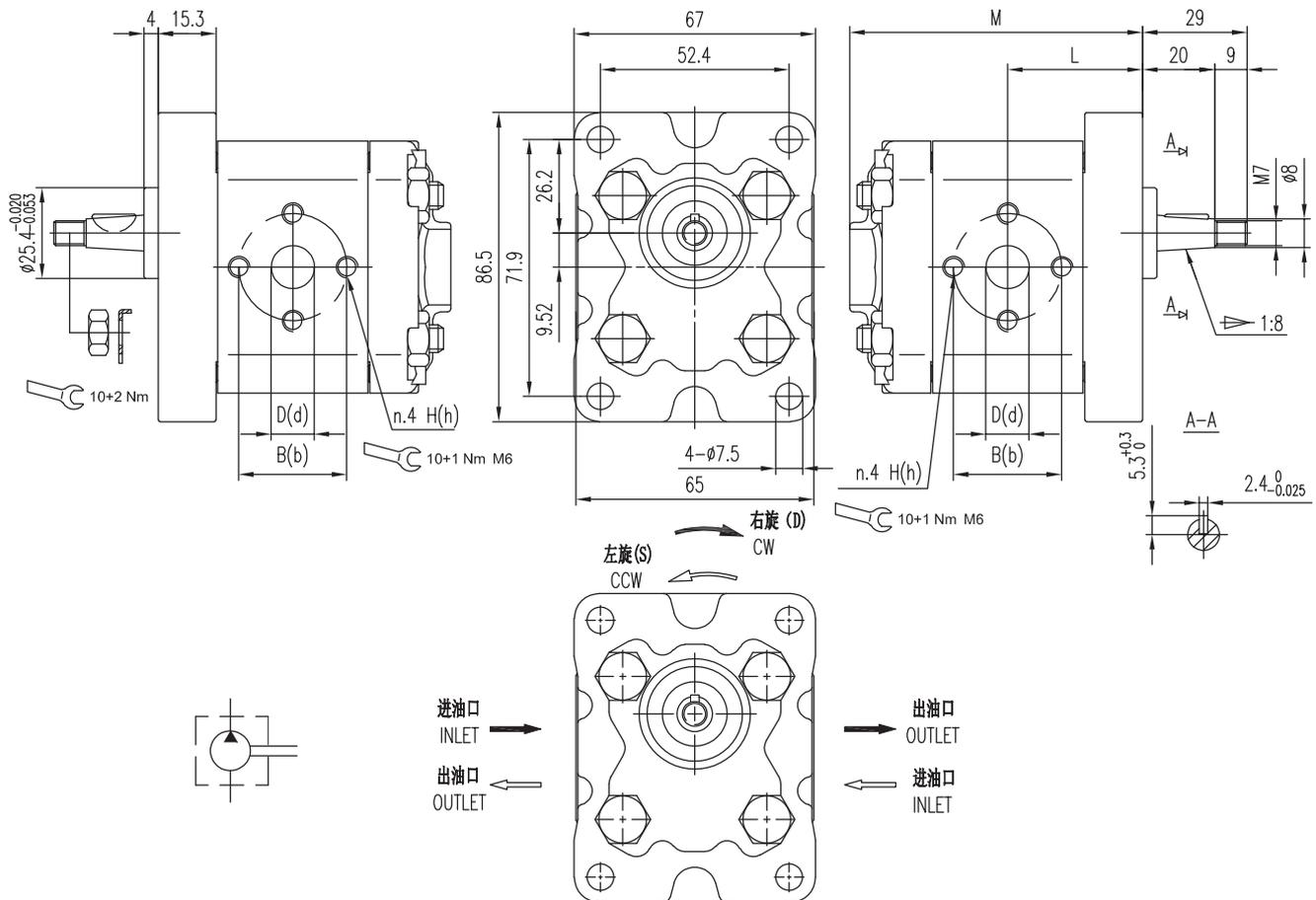


排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	重量 Weight	尺寸 Dimensions			油口代码 Oil port code	进油口 INLET	出油口 OUTLET
	P1	P2	P3				M	N	L			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	Kg	mm	mm	mm			
0.8	230	250	270	6000	1000	0.76	73.5	61.5	32.8	L2	G3/8	G1/4
1.1	230	250	270	6000	1000	0.77	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

1系列/Group 1

1系列标准型产品尺寸/Group 1 Standard Product Dimensions

BKP1-B0-D-0.8-T0-E0

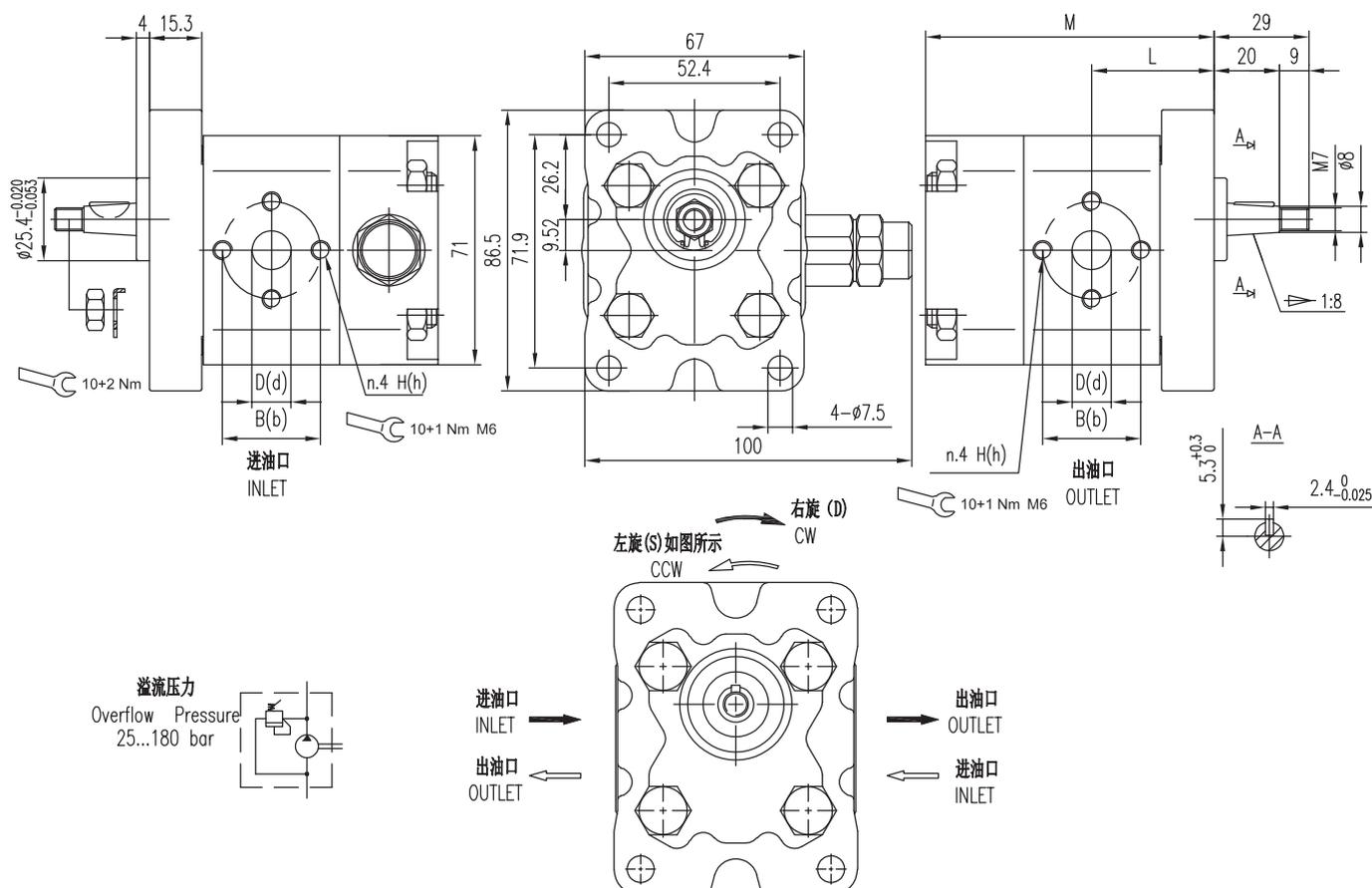


排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	重量 Weight	尺寸 Dimensions		油口代码 Oil port code	进油口 INLET			出油口 OUTLET		
	P1	P2	P3				M	L		B	D	H	b	d	h
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	Kg	mm	mm		mm	mm		mm	mm	
0.8	230	250	270	6000	1000	0.86	74.5	33.8	E0	30	12	M6	30	12	M6
1.1	230	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

1系列/Group 1

1系列标准型产品尺寸/Group 1 Standard Product Dimensions

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



排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	重量 Weight	尺寸 Dimensions		油口代码 Oil port code	进油口 INLET			出油口 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		mm	mm	mm	mm	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