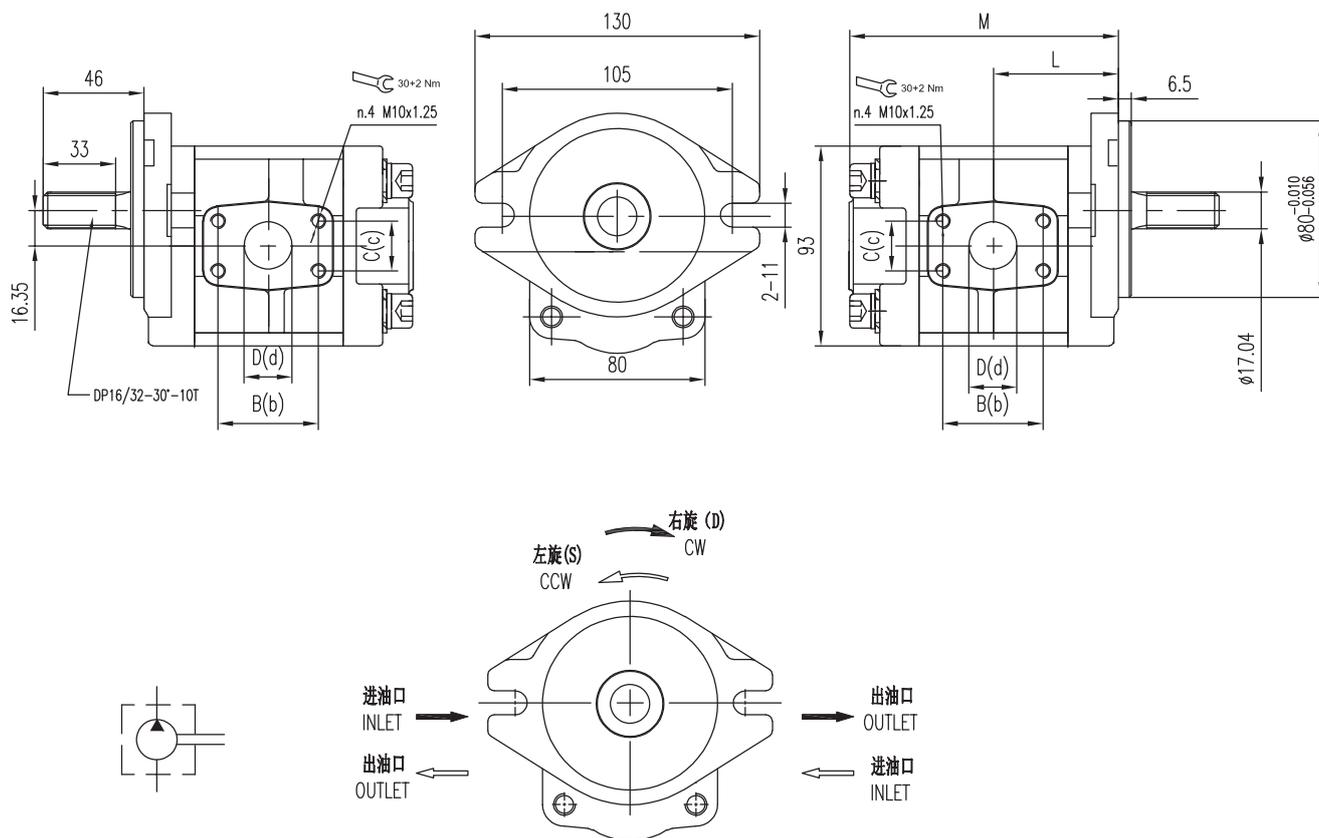


2.1D系列/Group 2.1D

2.1D系列标准型产品尺寸/Group 2.1D Standard Product Dimensions

BAP2.1D-A1-**D**-**7**-S1-**F0**



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	C	b	d	c
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	Kg	mm	mm		mm	mm	mm	mm	mm	mm
7	200	230	250	3000	500	3.35	115.3	52.6	F0	52.4	25	26.2	47.6	20	22.2
9	200	230	250	3000	500	3.4	116.5	53.8	F0	52.4	25	26.2	47.6	20	22.2
11	200	230	250	3000	500	3.5	118	54.5	F0	52.4	25	26.2	47.6	20	22.2
12	200	230	250	3000	500	3.6	119.5	55.1	F0	52.4	25	26.2	47.6	20	22.2
14.5	200	230	250	3000	500	3.7	122.6	56.8	F0	52.4	25	26.2	47.6	20	22.2
16	200	230	250	3000	500	3.8	124.6	57.8	F0	52.4	25	26.2	47.6	20	22.2
18	200	230	250	3000	500	3.9	127.4	59.2	F0	52.4	25	26.2	47.6	20	22.2
19	200	230	250	3000	500	3.95	128.6	59.8	F0	52.4	25	26.2	47.6	20	22.2
20	200	230	250	3000	500	4.0	130	60.5	F0	52.4	25	26.2	47.6	20	22.2

2.5系列/Group 2.5

2.5系列选型规则/Group 2.5 Ordering Code Rules

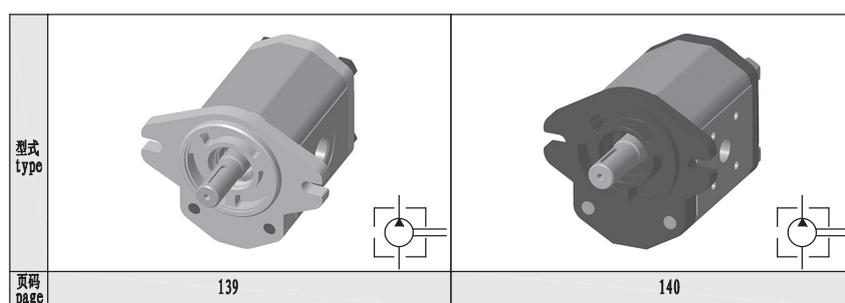
B	A	P	2.5	A0	D	10	C0	Z0	省略/omit	省略/omit	省略/omit
博顿 Boden	材质 Material	功能 Function	系列 Group	前盖 Front cover	旋向 Rotation	排量 Displacement	轴伸 Shaft	泵体油口 Ports	特殊结构 Special structure	可选项 Options	其他 Other
A	前、后盖材料为铝合金 Front and end cover material aluminum	P 泵 Pump	2.5 2.5系列 Group 2.5		D 顺时针转 Clockwise S 逆时针转 Counter clockwise	10 12.5 14 16 18 19 20 23 25 26.5 28 30 32 36 40					特殊设计 special designing
H	前、后盖材料为铸铁，压力比铝盖高 30bar。 Front and end cover material cast iron, pressure 30 bar higher than aluminum covers								可选项 Options 省略-温度范围在-10℃~+80℃, 进出口最高绝对压力为3bar。 Omit-Range between -10℃ and +80℃, inlet pressure up to max. 3 bar absolute. 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℃. 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℃. N 适用于进出口最大绝对压力~10bar。 Version suitable for inlet pressure up to max. 3 and 10 bar absolute. 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.		

前盖 Front cover	轴伸 Shaft	泵体油口 Ports	特殊结构 Special structure
A0 菱形前盖(止口φ85) Diamond front cover (centering φ85mm) 	C0 平键轴φ20 straight keyed φ20 	E 矩形法兰 Rectangular flange 	省略-默认普通 omit-regular
A1 菱形前盖(止口φ82.55) Diamond front cover (centering φ82.55mm) 	C1 平键轴φ18 straight keyed φ18 	F 矩形法兰 Rectangular flange 	
	C2 平键轴φ19.05 straight keyed φ19.05 	F 矩形法兰 Split flange 	
	H0 矩形花键轴 Rectangle spline shaft JL 6-20x16x4 	Z 公制螺纹(M) Metric thread 	
	H1 矩形花键轴 Rectangle spline shaft JL 4-18x15x5 	L 英制管螺纹(G) Gas thread 	
	S0 渐开线花键轴 Involute spline shaft EXT12Z-1.5m-30° 	U 美制管螺纹(UNF-2B) UNF thread 	
	S1 SAE花键轴 SAE spline shaft DP16/32-30°-10T 	R 英制锥螺纹(PT) PT thread 	
	S2 SAE花键轴 SAE spline shaft DP16/32-30°-11T 	X 泵体无油口 Body without ports 	
	S3 SAE花键轴 SAE spline shaft DP16/32-30°-13T 详见 136 页 See page 136 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.

2.5系列/Group 2.5

2.5系列标准型产品概览/Group 2.5 Standard Product Overview

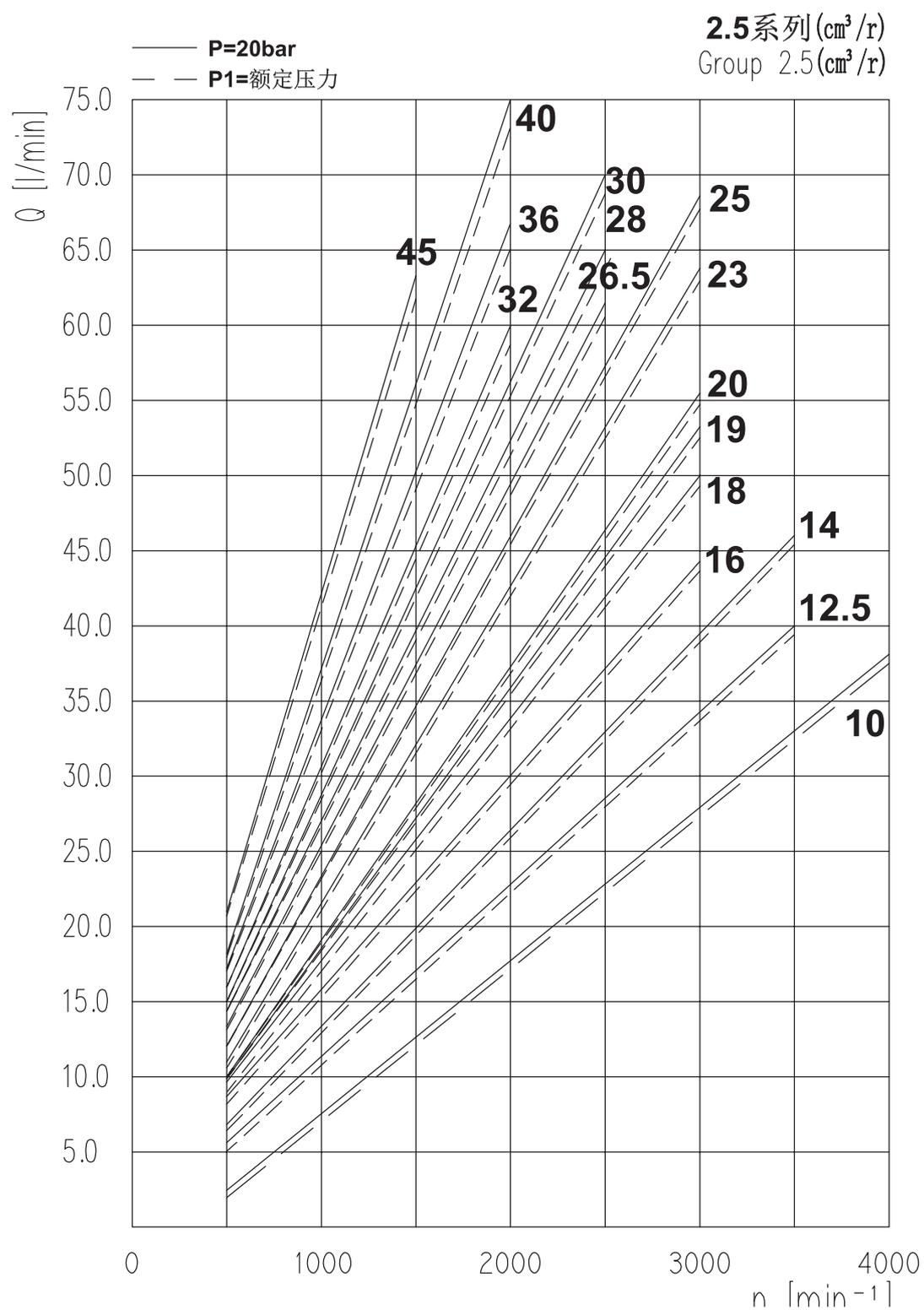


2.5系列排量参数表/Group 2.5 Displacement parameter table

排量 Displacement	V	cm ³ /rev	10	12.5	14	16	18	19	20	23	25	26.5	28	30	32	36	40	45
吸油绝对压力 Suction absolute pressure	Pe	bar	0.7...3															
最高连续压力 Max. continuous pressure	P1		250						230				200		160			
最高间隙压力 Max. intermittent pressure	P2		270						250				230		180			
最高峰值压力 Max. peak pressure	P3		290						260				250		200			
最低转速 Min. speed	n_{Min}	r/min	800		700		600		500				400					
最高转速 Max. speed	n_{Max}		4000				3500						3000		2750		2500	
容积效率 Volumetric efficiency	η_v	%	>91		>92			>93			>94				>95			

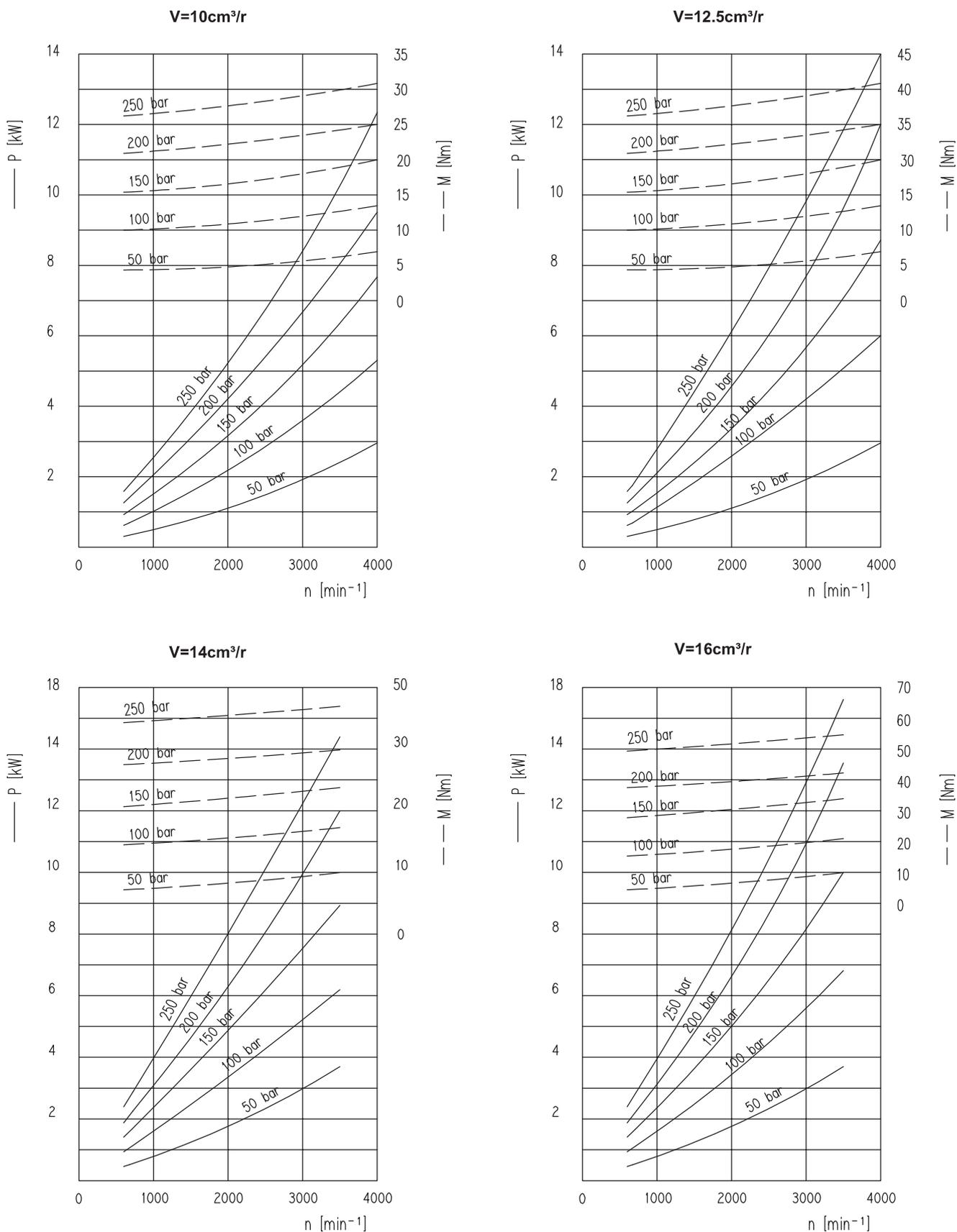
2.5系列/Group 2.5

2.5系列流量性能曲线表/Group 2.5 Flow Performance Curve Table



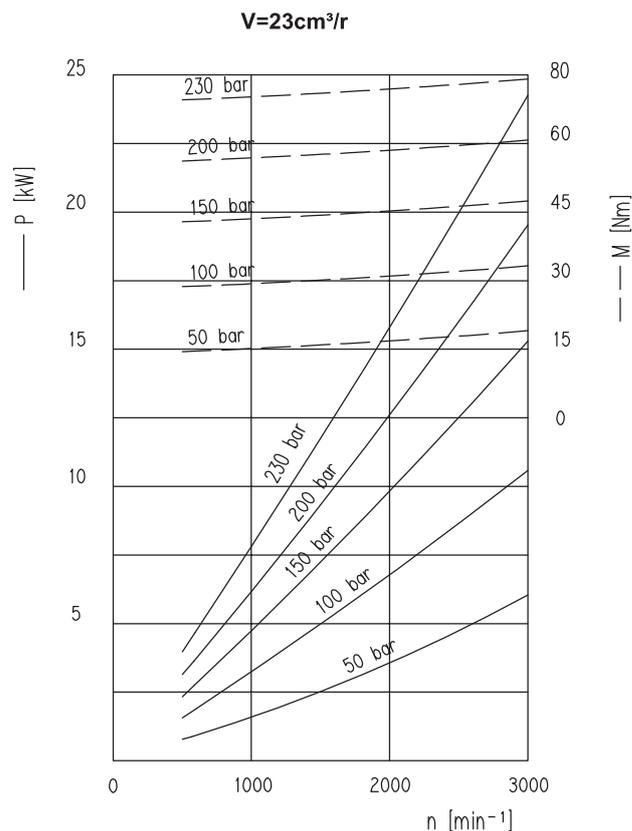
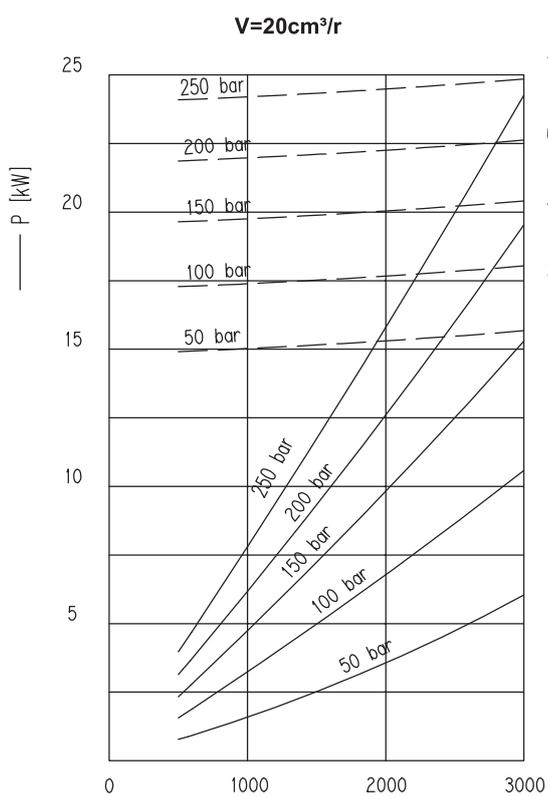
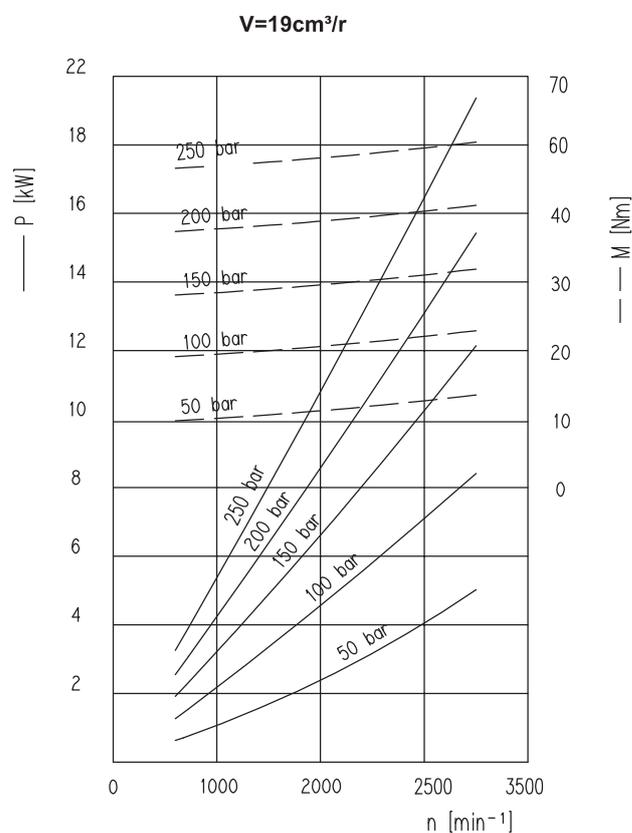
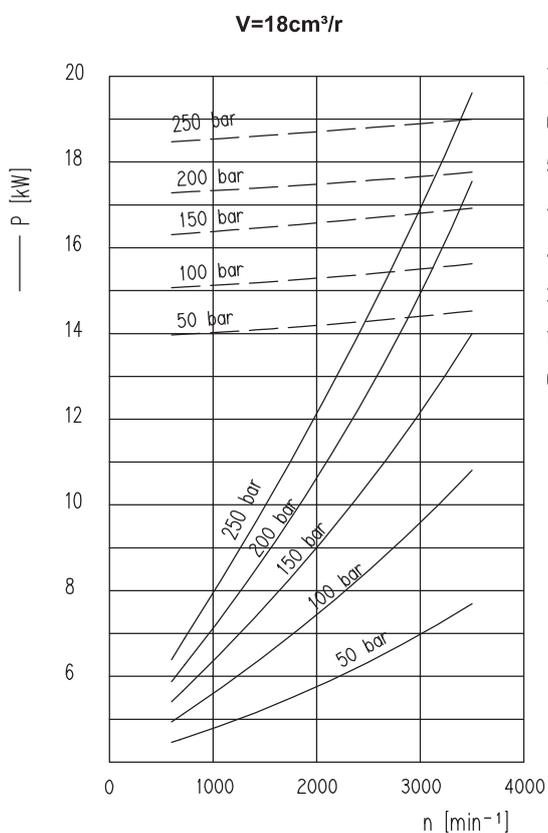
2.5系列/Group 2.5

2.5系列功率性能曲线表/Group 2.5 Power Performance Curve Table



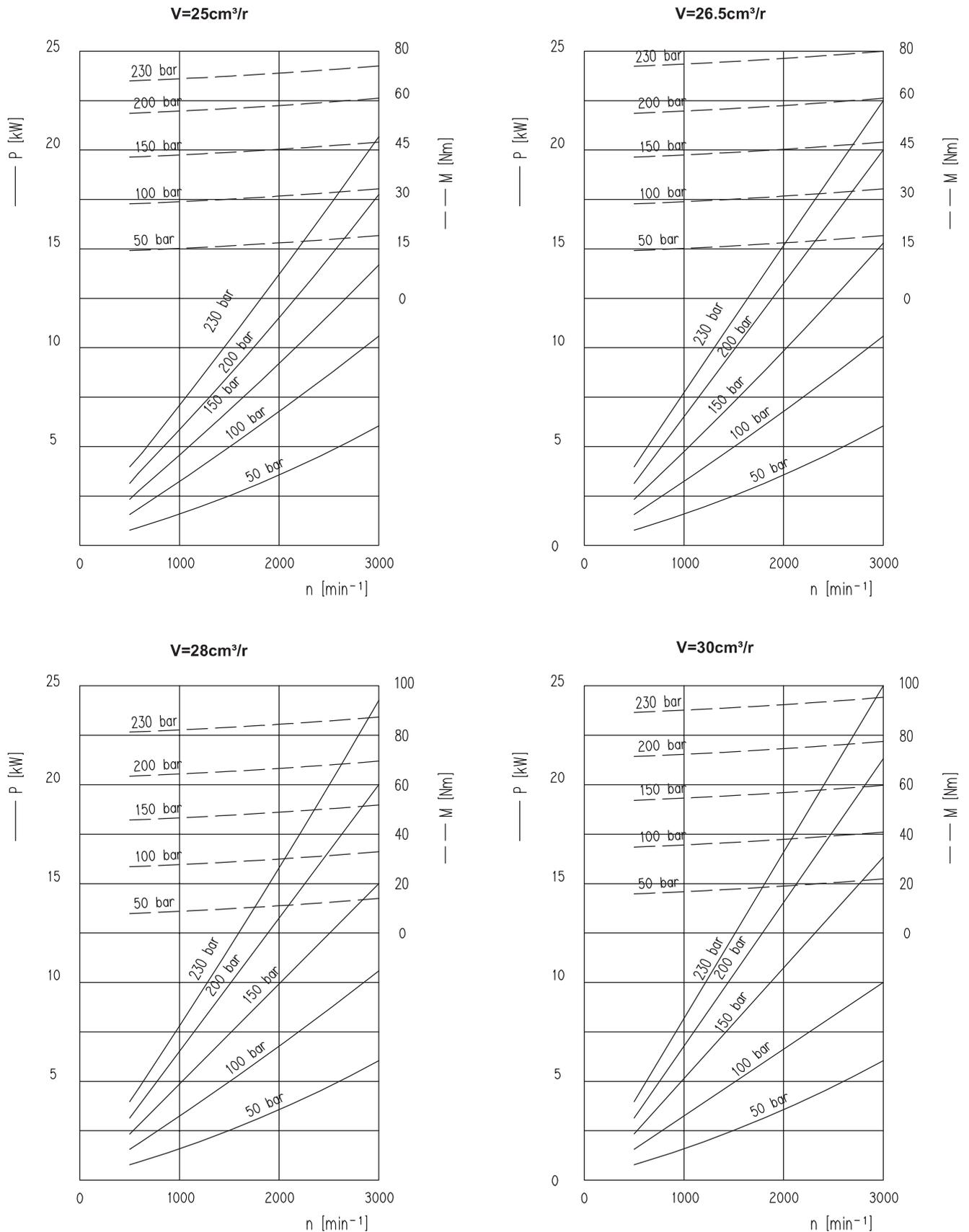
2.5系列/Group 2.5

2.5系列功率性能曲线表/Group 2.5 Power Performance Curve Table



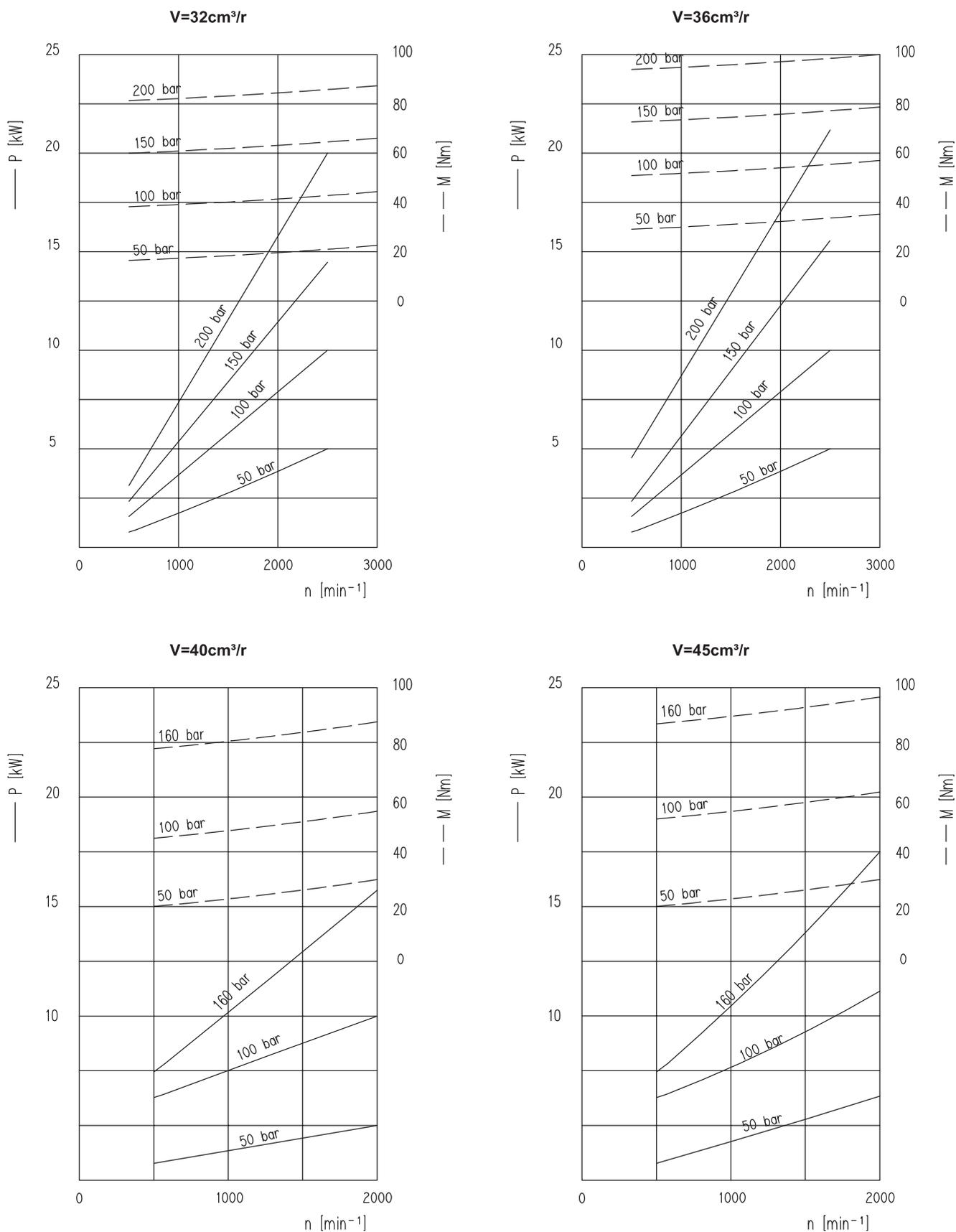
2.5系列/Group 2.5

2.5系列功率性能曲线表/Group 2.5 Power Performance Curve Table



2.5系列/Group 2.5

2.5系列功率性能曲线表/Group 2.5 Power Performance Curve Table



2.5系列/Group 2.5

2.5系列噪音曲线表/Group 2.5 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: $v = 32 \text{ mm}^2/\text{s}$, $\vartheta = 50^\circ\text{C}$.

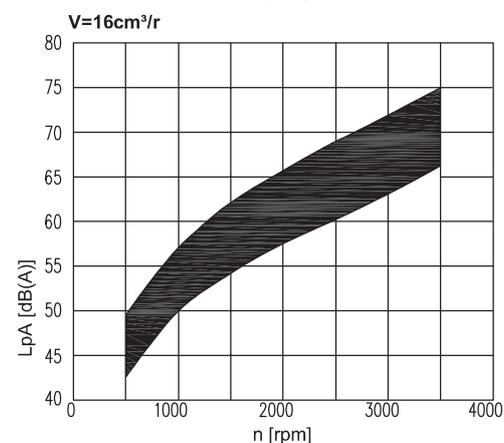
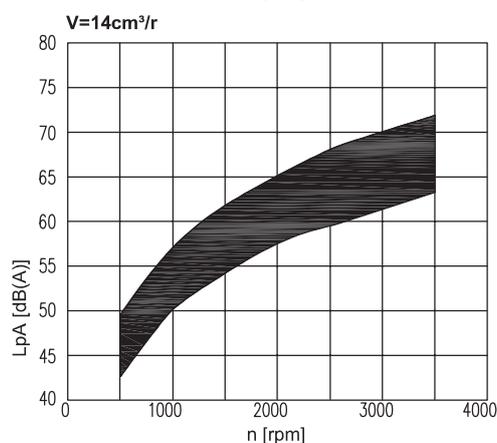
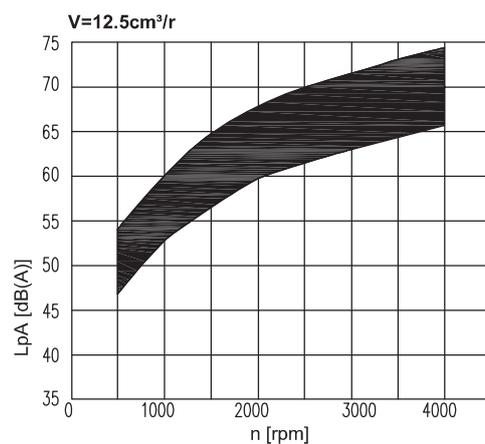
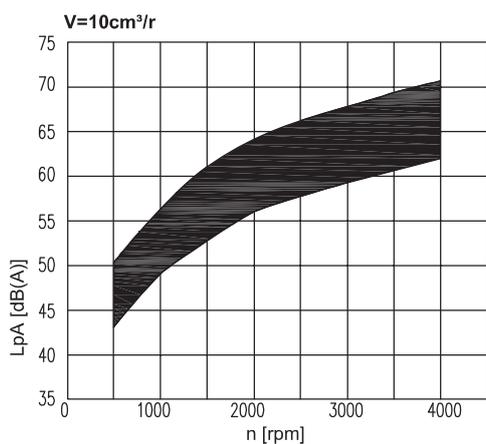
Oil data: $V=32\text{mm}^2/\text{s}, \vartheta=50^\circ\text{C}$.

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.

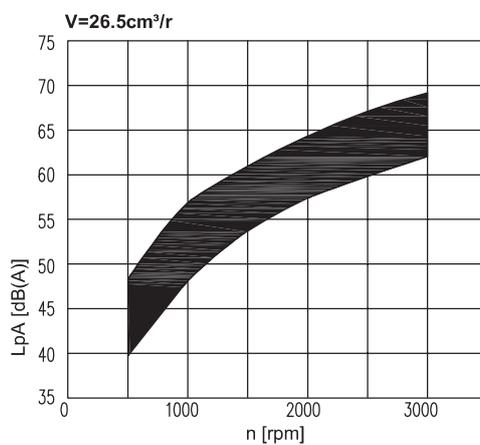
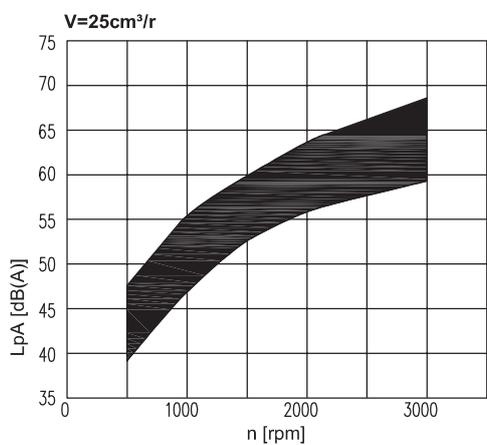
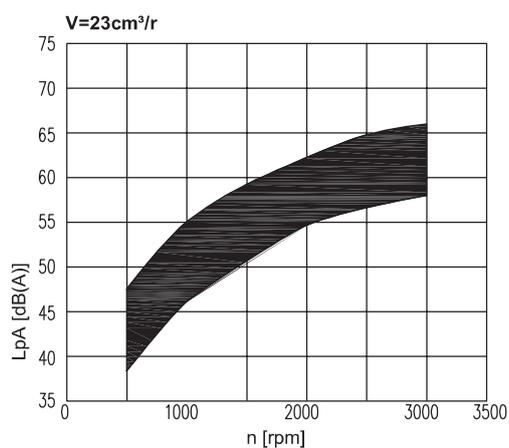
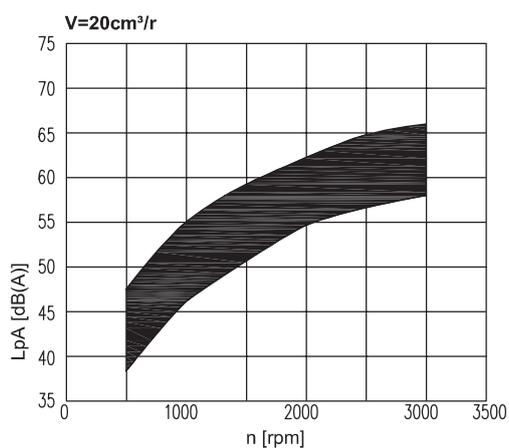
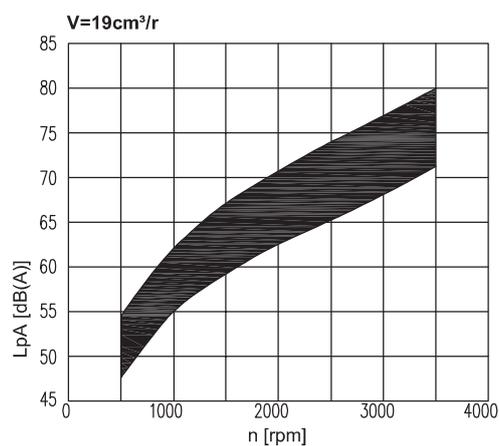
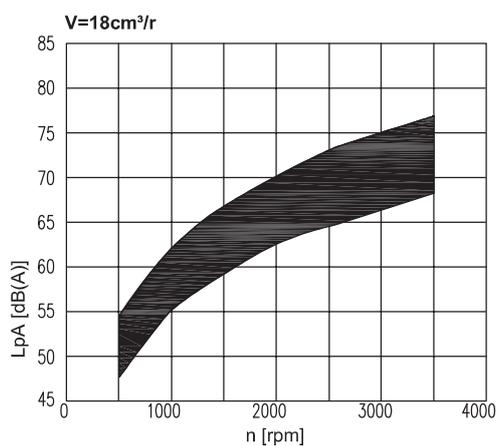
测量传感器与液压泵之间的距离：1 米。

Distance between measuring sensor and hydraulic pump: 1m.



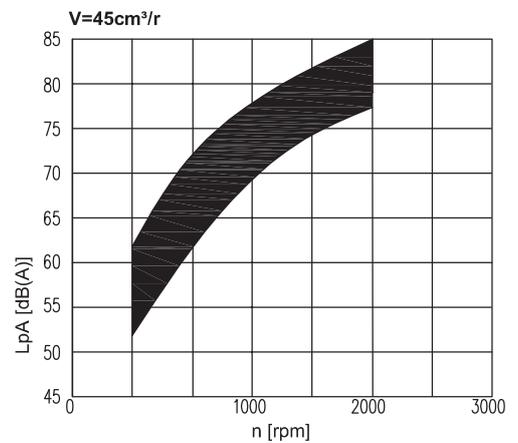
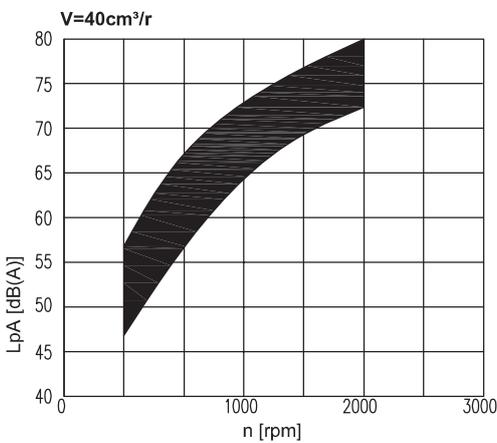
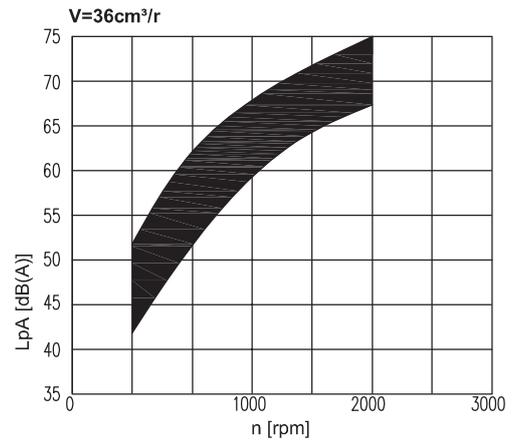
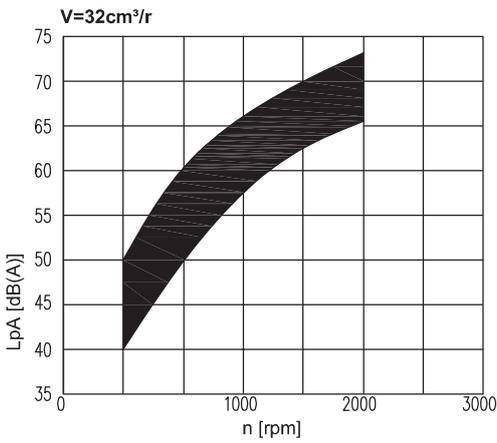
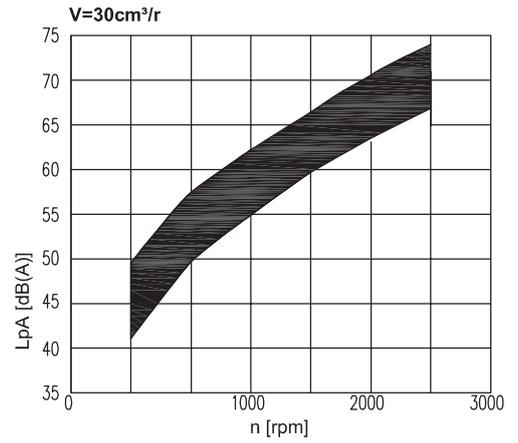
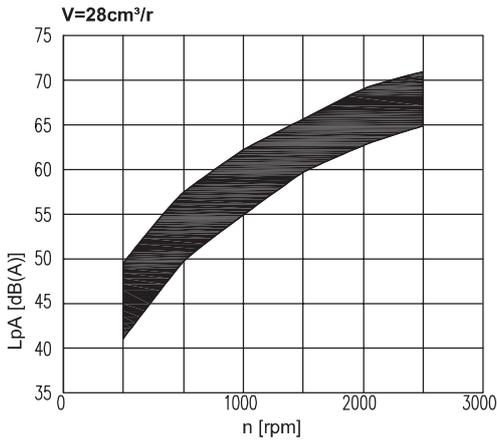
2.5系列/Group 2.5

2.5系列噪音曲线表/Group 2.5 Noise Curve Table



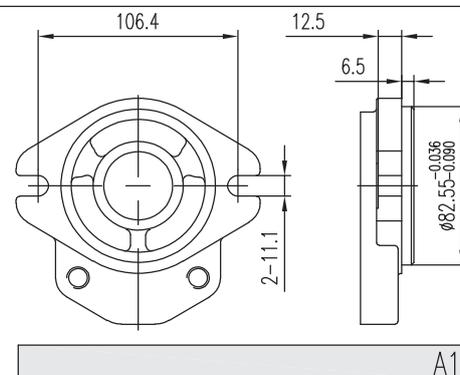
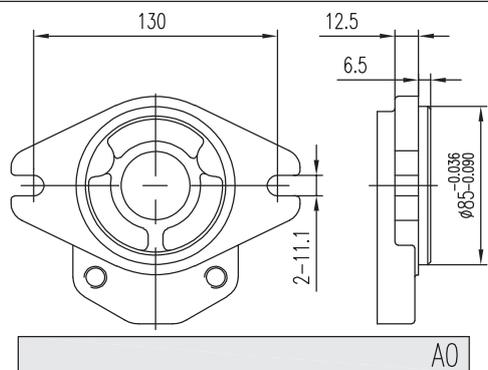
2.5系列/Group 2.5

2.5系列噪音曲线表/Group 2.5 Noise Curve Table

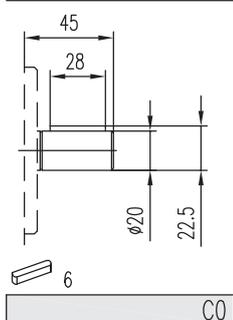


2.5系列/Group 2.5

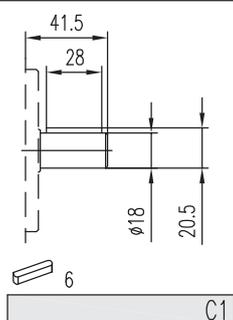
前盖/Front COVER



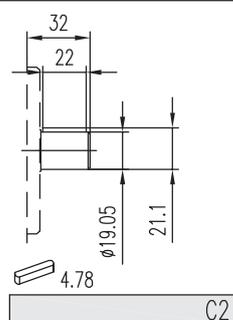
轴伸/SHAFTS



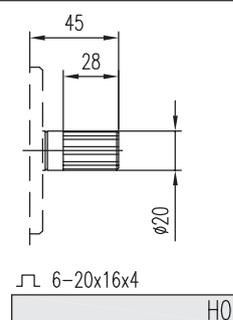
最大扭矩
Max.Torque 200 Nm



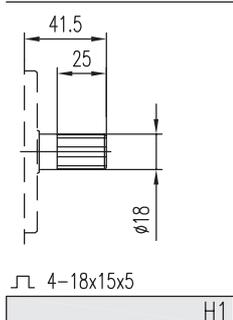
最大扭矩
Max.Torque 180 Nm



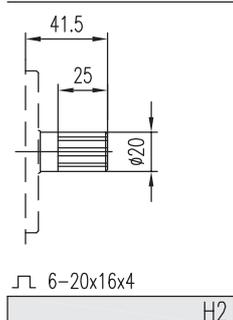
最大扭矩
Max.Torque 190 Nm



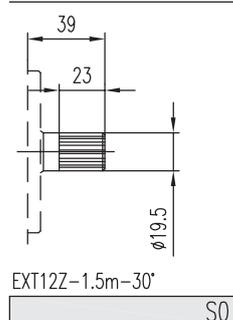
最大扭矩
Max.Torque 240 Nm



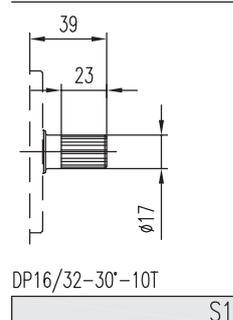
最大扭矩
Max.Torque 200 Nm



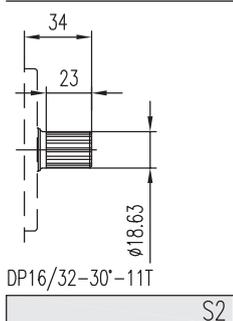
最大扭矩
Max.Torque 240 Nm



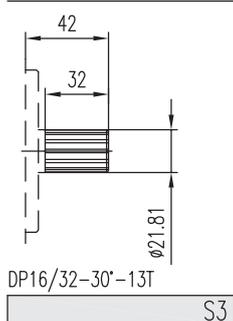
最大扭矩
Max.Torque 220 Nm



最大扭矩
Max.Torque 200 Nm



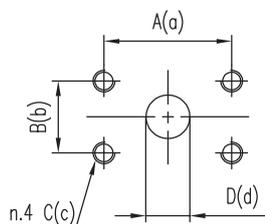
最大扭矩
Max.Torque 210 Nm



最大扭矩
Max.Torque 300 Nm

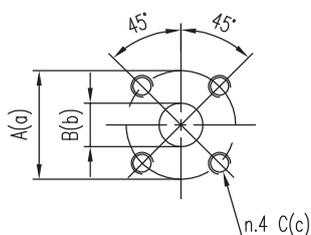
2.5系列/Group 2.5

泵体油口/PORTS



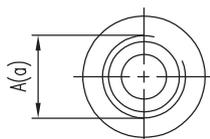
F0/F1

油口代号 PORTS CODE	排量 Displacement (cm ³ /rev)	进油口 INLET				出油口 OUTLET			
		A	B	C	D	a	b	c	d
F0	10...16	47.6	22.2	M10x1.25	20	47.6	22.2	M10x1.25	13
F1	18...45	52.4	26.2	M10x1.25	25	47.6	22.2	M10x1.25	20



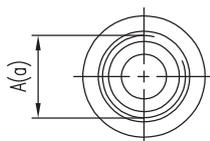
F2

排量 Displacement (cm ³ /rev)	进油口 INLET			出油口 OUTLET		
	A	B	C	a	b	c
10...16	55	20	M8	55	13	M8
18...45	55	25	M8	55	20	M8



Z0/Z1/Z2

油口代号 PORTS CODE	排量 Displacement (cm ³ /rev)	进油口 INLET	出油口 OUTLET
		A	a
Z0	10...14	M22x1.5	M18x1.5
Z1	16...20	M27x2	M22x1.5
Z2	23...45	M33x2	M27x2



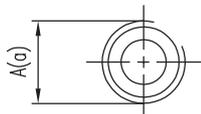
O型圈密封
O-ring

U0/U1

油口代号 PORTS CODE	排量 Displacement (cm ³ /rev)	进油口 INLET	出油口 OUTLET
		A	a
U0	10...23	1 1/16-12 UNF	7/8-14 UNF
U1	25...45	1 5/16-12 UNF	1 1/16-12 UNF

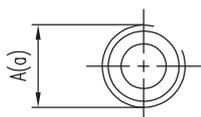
2.5系列/Group 2.5

泵体油口/PORTS



L0/L1

油口代号 PORTS CODE	排量 Displacement (cm ³ /rev)	进油口 INLET	出油口 OUTLET
		A	a
L0	10...23	G3/4	G1/2
L1	25...45	G 1	G3/4



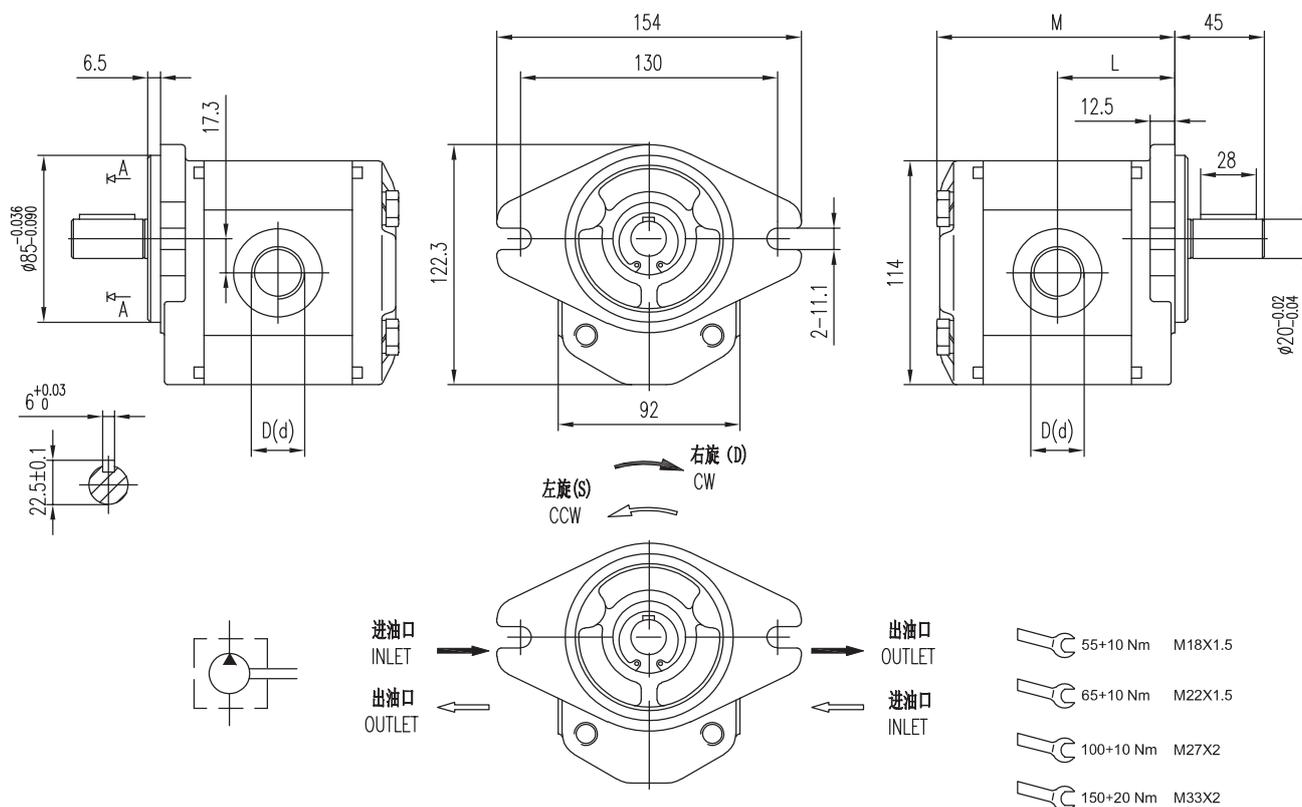
R0/R1

油口代号 PORTS CODE	排量 Displacement (cm ³ /rev)	进油口 INLET	出油口 OUTLET
		A	a
R0	10...23	PT3/4	PT1/2
R1	25...45	PT 1	PT3/4

2.5系列/Group 2.5

2.5系列标准型产品尺寸/Group 2.5 Standard Product Dimensions

BAP2.5-A0-[D]-[10]-CO-[Z0]

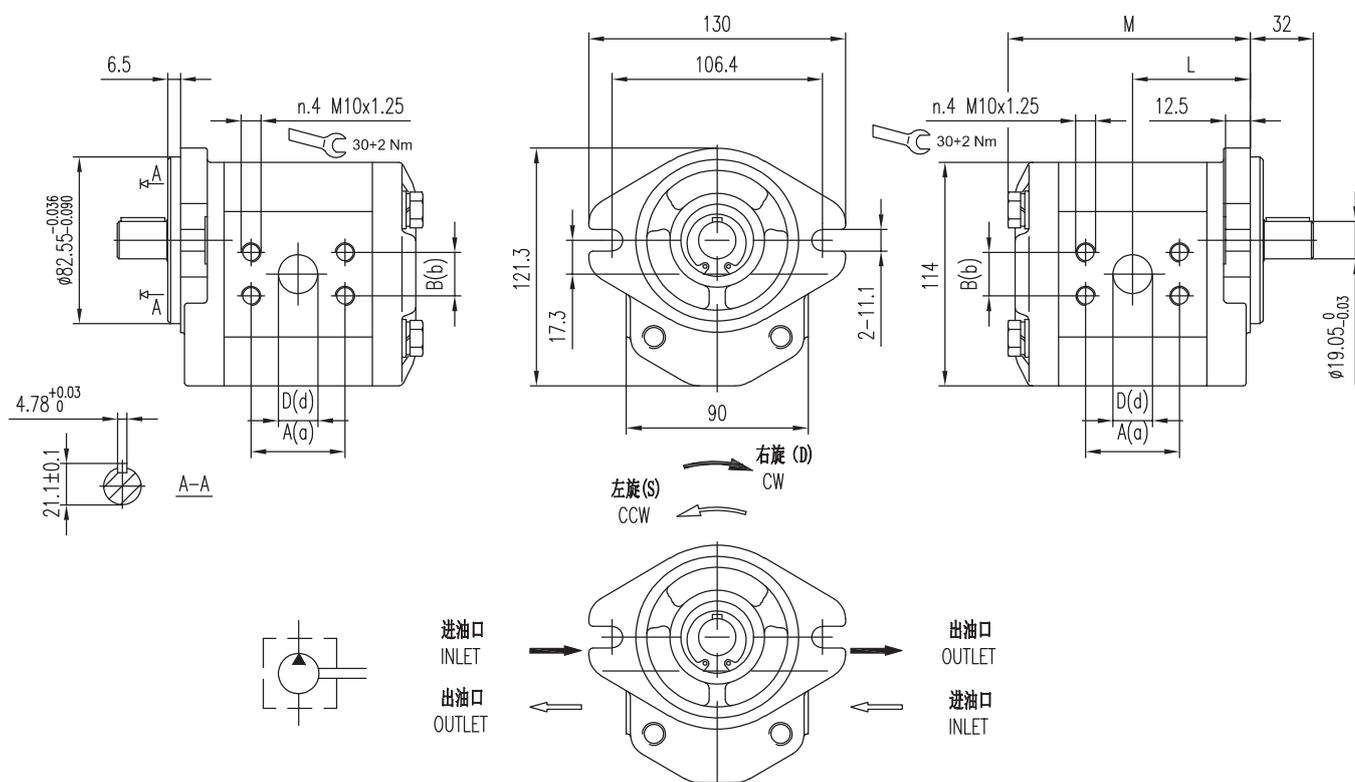


排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	重量 Weight	尺寸 Dimensions		油口代码 Oil port code	进油口 INLET	出油口 OUTLET
	P1	P2	P3				M	L			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	Kg	mm	mm			
10	250	270	290	4000	800	4.1	110	53.3	Z0	M22x1.5	M18x1.5
12.5	250	270	290	4000	800	4.3	113	54.8	Z0	M22x1.5	M18x1.5
14	250	270	290	4000	700	4.5	115	55.8	Z0	M22x1.5	M18x1.5
16	250	270	290	3500	700	4.7	118	57.1	Z1	M27x2	M22x1.5
18	250	270	290	3500	600	4.9	120	58.3	Z1	M27x2	M22x1.5
19	250	270	290	3500	600	5.0	121	58.8	Z1	M27x2	M22x1.5
20	250	270	290	3500	500	5.1	123	59.6	Z1	M27x2	M22x1.5
23	230	250	260	3500	500	5.25	126	61.3	Z2	M33x2	M27x2
25	230	250	260	3500	500	5.45	129	62.6	Z2	M33x2	M27x2
26.5	230	250	260	3500	500	5.6	131	63.6	Z2	M33x2	M27x2
28	230	250	260	3500	500	5.75	133	64.6	Z2	M33x2	M27x2
30	230	250	260	3000	400	5.95	135	65.6	Z2	M33x2	M27x2
32	200	230	250	3000	400	6.15	138	67.1	Z2	M33x2	M27x2
36	200	230	250	2750	400	6.55	142	69.1	Z2	M33x2	M27x2
40	160	180	200	2500	400	6.9	148	71.6	Z2	M33x2	M27x2
45	160	180	200	2500	400	7.45	153	74.6	Z2	M33x2	M27x2

2.5系列/Group 2.5

2.5系列标准型产品尺寸/Group 2.5 Standard Product Dimensions

BHP2.5-A1-**D**-**10**-C2-**F0**



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		A	B	D	a	b	d
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	Kg	mm	mm		mm	mm	mm	mm	mm	mm
10	250	270	290	4000	800	4.1	110	53.3	F0	47.6	22.2	20	47.6	22.2	13
12.5	250	270	290	4000	800	4.3	113	54.8	F0	47.6	22.2	20	47.6	22.2	13
14	250	270	290	4000	700	4.5	115	55.8	F0	47.6	22.2	20	47.6	22.2	13
16	250	270	290	3500	700	4.7	118	57.1	F0	47.6	22.2	20	47.6	22.2	13
18	250	270	290	3500	600	4.9	120	58.3	F1	52.4	26.2	25	47.6	22.2	20
19	250	270	290	3500	600	5.0	121	58.8	F1	52.4	26.2	25	47.6	22.2	20
20	250	270	290	3500	500	5.1	123	59.6	F1	52.4	26.2	25	47.6	22.2	20
23	230	250	260	3500	500	5.25	126	61.3	F1	52.4	26.2	25	47.6	22.2	20
25	230	250	260	3500	500	5.45	129	62.6	F1	52.4	26.2	25	47.6	22.2	20
26.5	230	250	260	3500	500	5.6	131	63.6	F1	52.4	26.2	25	47.6	22.2	20
28	230	250	260	3500	500	5.75	133	64.6	F1	52.4	26.2	25	47.6	22.2	20
30	230	250	260	3000	400	5.95	135	65.6	F1	52.4	26.2	25	47.6	22.2	20
32	200	230	250	3000	400	6.15	138	67.1	F1	52.4	26.2	25	47.6	22.2	20
36	200	230	250	2750	400	6.55	142	69.1	F1	52.4	26.2	25	47.6	22.2	20
40	160	180	200	2500	400	6.9	148	71.6	F1	52.4	26.2	25	47.6	22.2	20
45	160	180	200	2500	400	7.45	153	74.6	F1	52.4	26.2	25	47.6	22.2	20