2.5D系列/Group 2.5D

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

B	A	P	2.5D	A0	D	23	H0	X	L0	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
- 2.5D 2.5D系列 Group 2.5D
- D 顺时针转 Clockwise
- S 逆时针转 Counter clockwise
- 23 / 25 / 26.5 / 28 / 30 / 32 / 36 / 40
- 特殊设计 special designing

可选项 Options

	省略-温度范围在-10℃~+80℃,进油口最高绝对压力为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	适用于进油口最大绝对压力3~10bar。 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

- A0 菱形前盖(止口φ82.55) Diamond front cover (centering φ82.55mm)

详见 126 页 See page 126 for details

轴伸 Shaft

- C0 平键轴φ18 straight keyed φ18
- H0 矩形花键轴 Rectangle splineshaft ⎍⎍ 4-18x15x5
- H1 矩形花键轴 Rectangle splineshaft ⎍⎍ 6-20x16x4
- S0 渐开线花键轴 Involute spline shaft EXT12Z-1.5m-30°
- S1 SAE花键轴 SAE spline shaft DP16/32-30°-10T
- S2 SAE花键轴 SAE spline shaft DP16/32-30°-11T
- S3 SAE花键轴 SAE spline shaft DP16/32-30°-13T

详见 126 页 See page 126 for details

泵体油口 Ports

- F_ 矩形法兰 Split flange
- X 泵体无油口 Body without ports

详见 127 页 See page 127 for details

特殊结构 Special structure

- 省略-默认普通 omit-regular
- L0 后盖带进出油口 Back cover with oil inlet and outlet

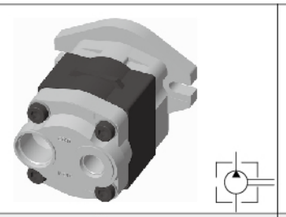
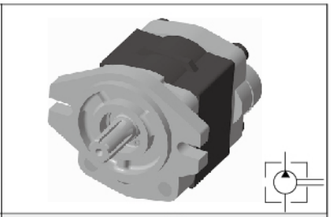
详见 127 页 See page 127 for details

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.

博顿液压
HIGH PRESSURE GEAR PUMP

2.5D系列/Group 2.5D

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

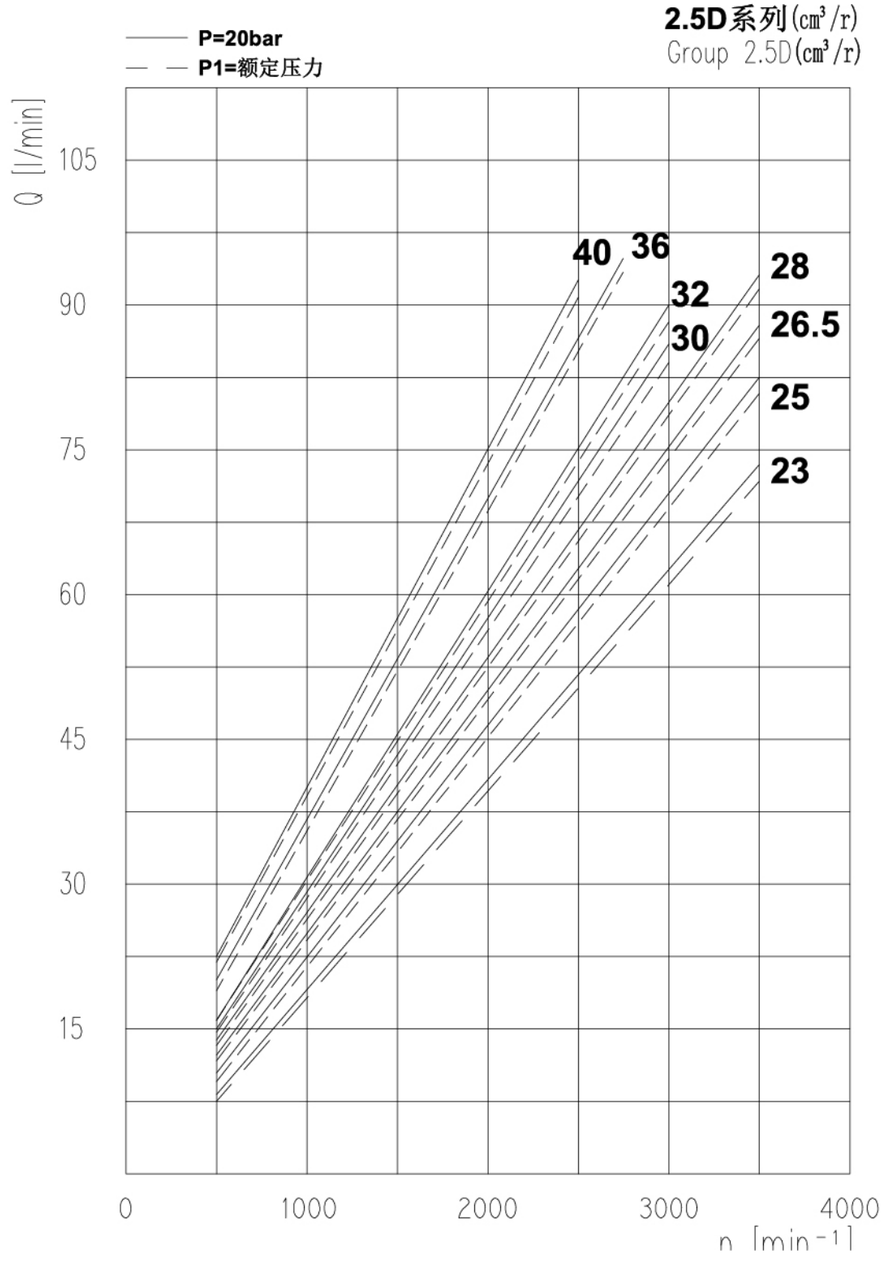
型式 type		
页码 page	128	129

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

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

2.5D系列/Group 2.5D

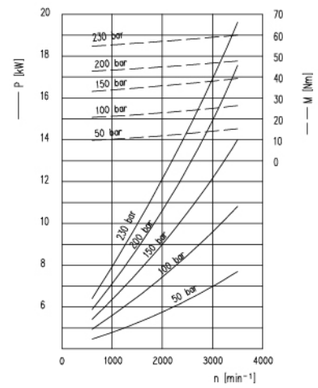
2.5D系列流量性能曲线表/Group 2.5D Flow Performance Curve Table



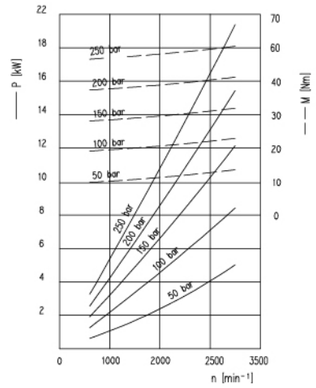
2.5D系列/Group 2.5D

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

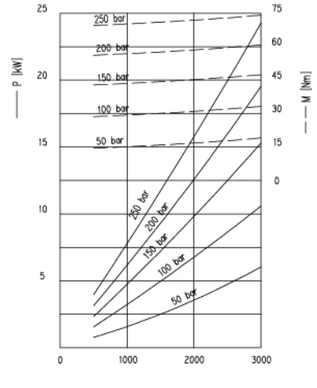
V=23cm³/r



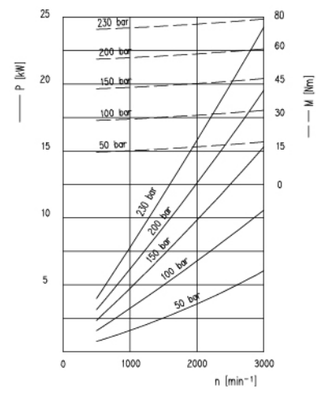
V=25cm³/r



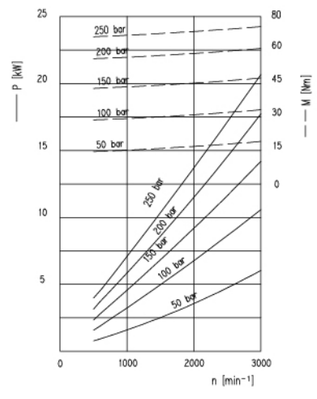
V=26.5cm³/r



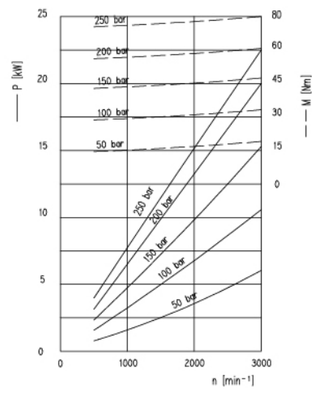
V=28cm³/r



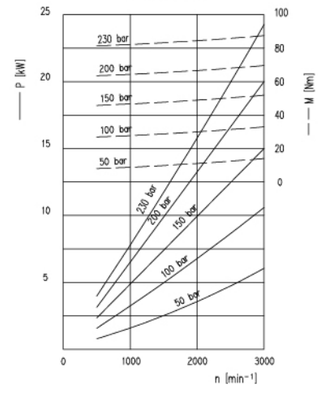
V=30cm³/r



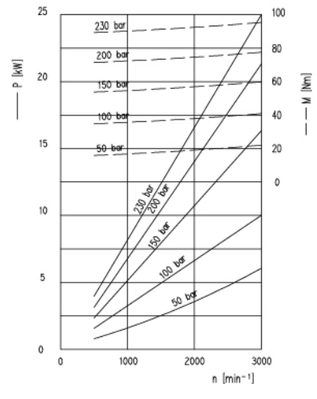
V=32cm³/r



V=36cm³/r



V=40cm³/r



2.5D系列/Group 2.5D

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

噪音曲线

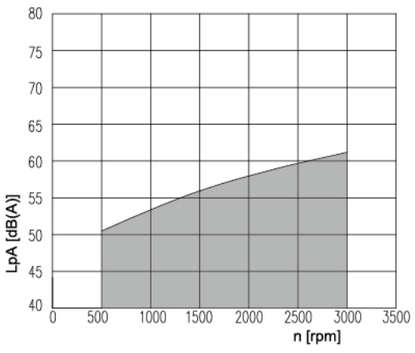
噪音等级取决于转速和压力范围；这个压力范围介于10 bar和压力值 P1之间。
The noise level depends on the speed and pressure range;This pressure range is between 10 bar and pressure value P1.

油液数据： v = 32 mm²/s, ϑ= 50℃.
Oil data: V=32mm²/s,ϑ=50℃.

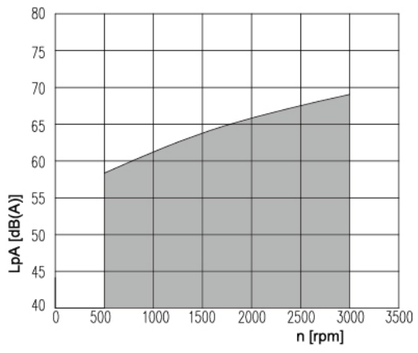
对于从吸声测量室测得的噪音值进行计算而得到的声音压力等级，符合 DIN 45635 第 26 章的要求。
The sound pressure level obtained by calculating the noise value measured from the sound absorption measuring room meets the requirements of Chapter 26 of DIN 45635.

测量传感器与液压泵之间的距离：1 米。
Distance between measuring sensor and hydraulic pump: 1m.

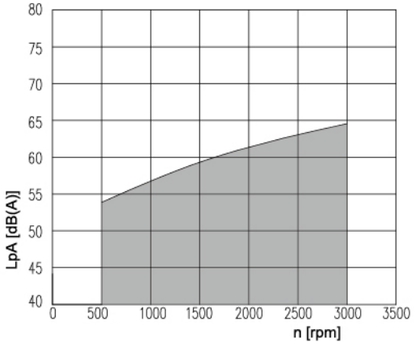
V=23-28cm³/r(10bar)



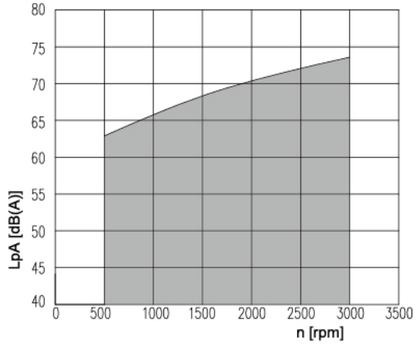
V=23-28cm³/r(P1)



V=30-40cm³/r(10bar)

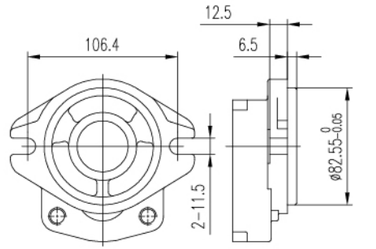


V=30-40cm³/r(P1)



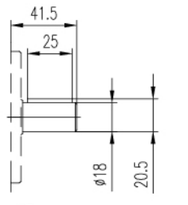
2.5D系列/Group 2.5D

前盖/FRONT COVER



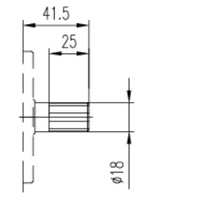
A0

轴伸/SHAFTS



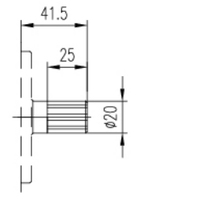
C0

最大扭矩
Max.Torque 180 Nm



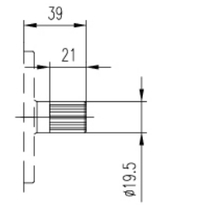
H0

最大扭矩
Max.Torque 200 Nm



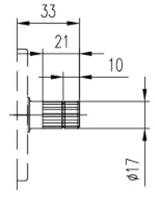
H1

最大扭矩
Max.Torque 240 Nm



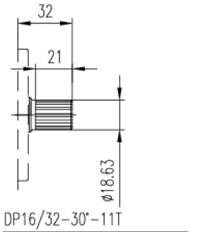
S0

最大扭矩
Max.Torque 220 Nm



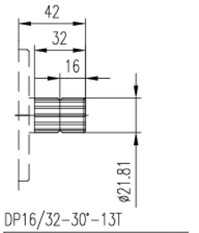
S1

最大扭矩
Max.Torque 200 Nm



S2

最大扭矩
Max.Torque 210 Nm

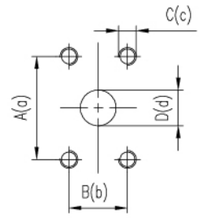


S3

最大扭矩
Max.Torque 300 Nm

2.5D系列/Group 2.5D

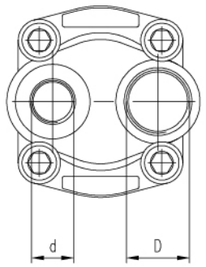
泵体油口/PORTS



F0

油口代号 PORTS CODE	排量 Displacement	进油口 INLET				出油口 OUTLET			
	(cm^3/rev)	A	B	C	D	a	b	c	d
F0	23...36	52.4	26.2	M10x1.25	25	47.6	22.2	M10x1.25	20
F0	40	52.4	26.2	M10x1.25	28	47.6	22.2	M10x1.25	20

特殊结构/SPECIAL STRUCTRE



O型圈密封
O-ring

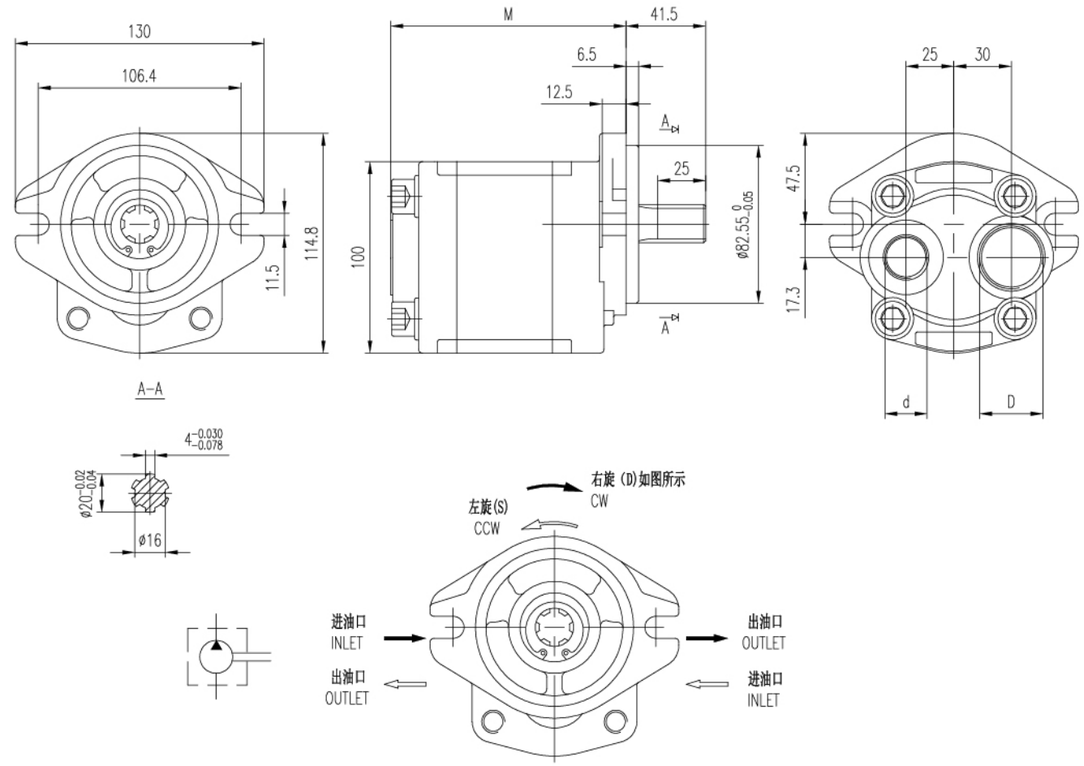
L0/Z0

代号 CODE	进油口 INLET	出油口 OUTLET
	D	d
L0	G1	G1/2
Z0	M33X2	M22X1.5

2.5D系列/Group 2.5D

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

BAP2.5D-A0-[D]-[23]-H1-X-[L0]



100+10 Nm M27X2

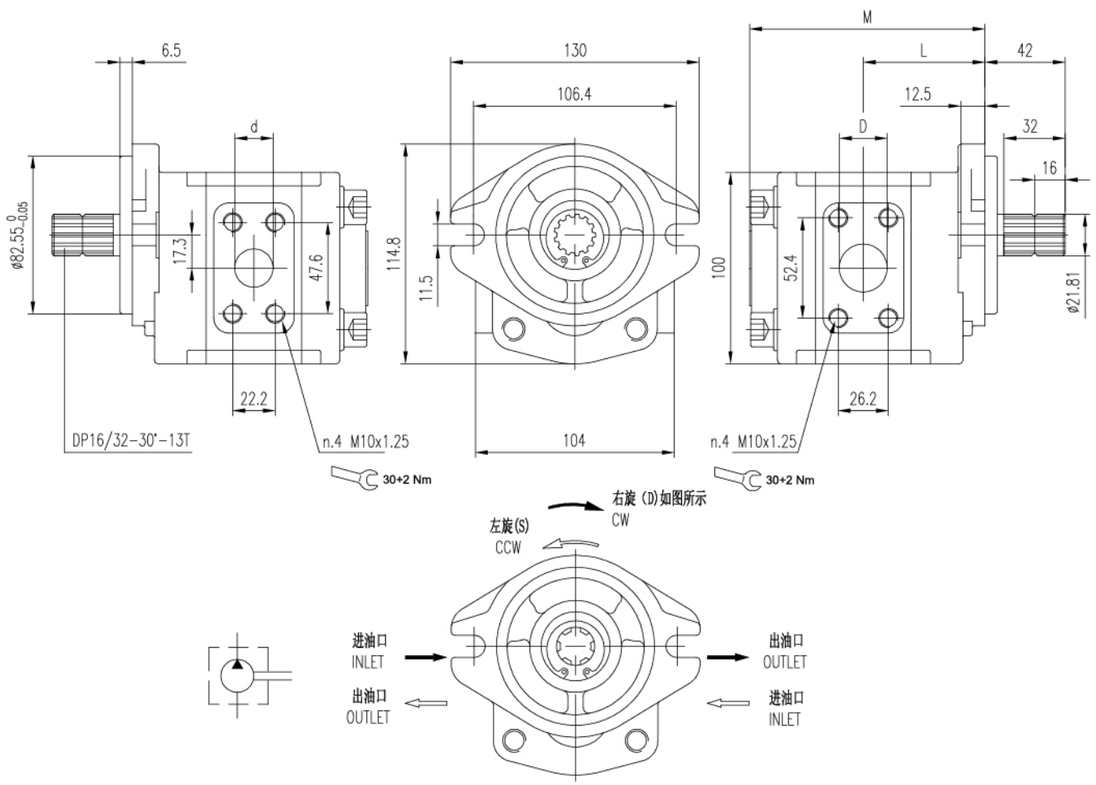
150+20 Nm M33X2

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		D	d
(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	Kg	mm			
23	230	250	260	3500	600	4	118	L0	G1	G1/2
25	230	250	260	3500	600	4.1	120	L0	G1	G1/2
26.5	230	250	260	3500	600	4.2	122	L0	G1	G1/2
28	230	250	260	3500	600	4.25	124	L0	G1	G1/2
30	230	250	260	3000	600	4.35	126	L0	G1	G1/2
32	200	230	250	3000	600	4.44	129	L0	G1	G1/2
36	200	230	250	2750	500	4.65	133	L0	G1	G1/2
40	160	180	200	2500	500	4.9	138	L0	G1	G1/2

2.5D系列/Group 2.5D

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

BAP2.5D-A0-[D]-[23]-S3-[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		D	d
(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	Kg	mm	mm			
23	230	250	260	3500	600	4	118	60.5	F0	25	20
25	230	250	260	3500	600	4.1	120	61.8	F0	25	20
26.5	230	250	260	3500	600	4.2	122	62.8	F0	25	20
28	230	250	260	3500	600	4.25	124	63.8	F0	25	20
30	230	250	260	3000	600	4.35	126	64.8	F0	25	20
32	200	230	250	3000	600	4.44	129	66.3	F0	25	20
36	200	230	250	2750	500	4.65	133	68.3	F0	25	20
40	160	180	200	2500	500	4.9	138	70.8	F0	28	20

2.6系列/Group 2.6

2.6系列选型规则/Group 2.6 Ordering Code Rules

B	H	P	2.6	A1	D	10	C1	E0	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

- 材质 Material: H 前、后盖材料为铸铁压力 Front and end cover material cast iron
- 功能 Function: P 泵 Pump
- 系列 Group: 2.6 2.6系列 Group 2.6; 2.6Y 2.6Y系列 Group2.6Y
- 旋向 Rotation: D 顺时针转 Clockwise; S 逆时针转 Counter clockwise
- 排量 Displacement: 6, 8, 10, 12, 14, 16, 19, 22, 25, 28, 30, 32, 36, 38, 40
- 其他 Other: 特殊设计 special designing

可选项 Options

省略	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	适用于进油口最大绝对压力3~10bar。 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

- A1 菱形前盖(止口φ82.55) Diamond front cover (centering φ82.55mm)
- A2 菱形前盖(止口φ101.6) Diamond front cover (centering φ101.6mm)
- B0 方形前盖(止口φ50.8) Square front cover (centering φ50.8mm)

详见 136 页
See page 136 for details

轴伸 Shaft

- C1 平键轴φ18 straight keyed φ18
- C2 平键轴φ19.05 straight keyed φ19.05
- C6 平键轴φ22.2 straight keyed φ22.2
- H1 矩形花键轴 Rectangle spline shaft ⅃⌐L 4-18x15x5
- H2 矩形花键轴 Rectangle spline shaft ⅃⌐L 6-20x16x4
- S0 渐开线花键轴 Involute spline shaft EXT12Z-1.5m-30°
- S1 SAE花键轴 SAE spline shaft DP16/32-30°-10T
- S2 SAE花键轴 SAE spline shaft DP16/32-30°-11T
- S3 SAE花键轴 SAE spline shaft DP16/32-30°-13T

详见 137 页
See page 137 for details

泵体油口 Ports

- E_ 矩形法兰 Rectangular flange
- F_ 矩形法兰 Rectangular flange
- F_ 矩形法兰 Split flange
- Z_ 公制螺纹 (M) Metric thread
- L_ 英制管螺纹(G) Gas thread
- U_ 美制管螺纹(UNF-2B) UNF thread
- R_ 英制锥螺纹(PT) PT thread
- X 泵体无油口 Body without ports

详见 138-139 页
See page 165-166 for details

特殊结构 Special structure

- 省略-默认普通 omit-regular
- — 后盖带进出油口 Back cover with inlet and outlet

详见 139 页
See page 166 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.