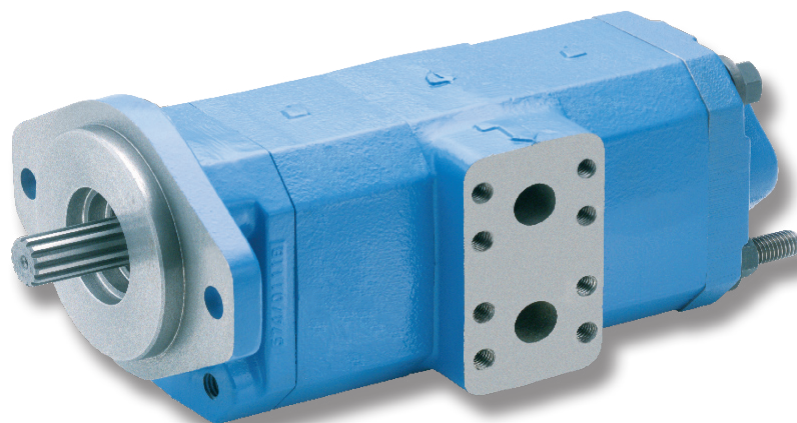


124 系列

齿轮泵及马达

PUMPS AND MOTORS

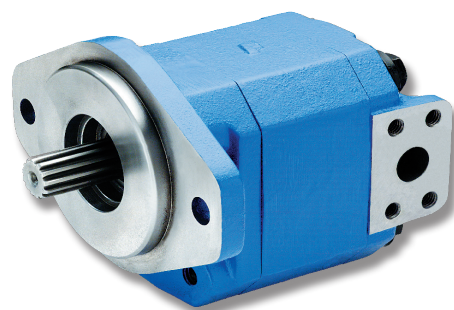


高压小排量滑动轴承齿轮泵及马达

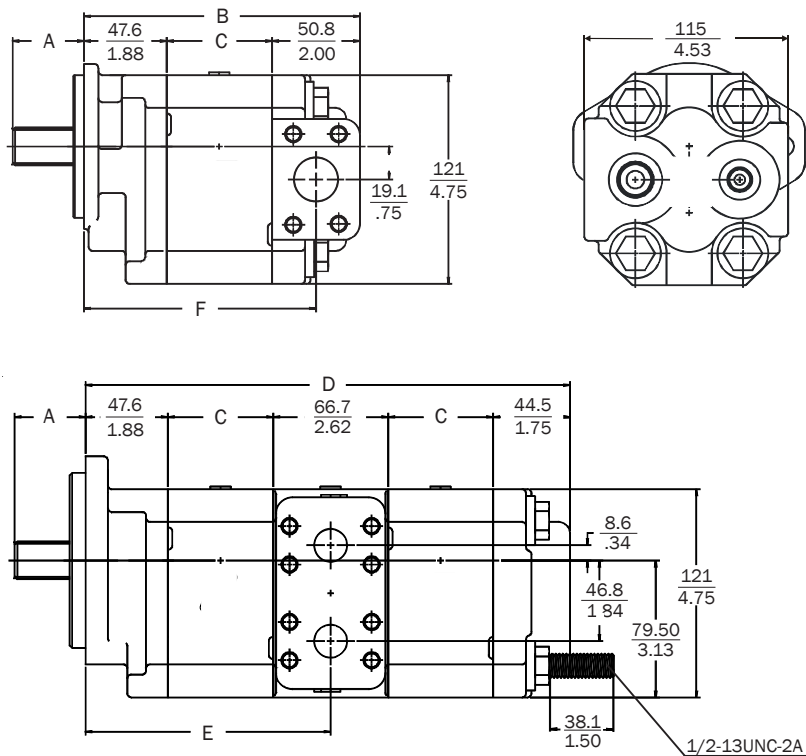
HIGH PRESSURE SMALL DISPLACEMENT SLEEVE BUSHING PUMPS AND MOTORS

特点

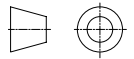
- 结构小巧的重载轴套设计
- 排量从10.16至40.62ml/r
- 工作压力可达到28Mpa
- 工作转速可达3000r/min
- 流量可达114LPM
- 销轴联接的高强度铸铁结构
- 100%出厂检测
- 高强度合金钢齿轮和齿轮轴
- 有背泵和风扇马达可供选择
- 油口、安装形式和轴有多种设计可供选择
- 在整个工作过程中，压力平衡耐磨侧板可使泵始终保持高效率输出
- 有单进油/单出油、单进油/双出油的中间体可供选择



124 系列尺寸数据 (mm/in) DIMENSIONAL DATA (mm/in)



- A. SAE "B" shaft shown, other shafts available
图示为SAE "B"轴伸, 轴伸型式有多种选择
- B. 4.27" plus gear width
108.56 mm + 齿轮宽度
- C. 0.4" plus gear width
10.16 mm + 齿轮宽度
- D. 7.05" plus total gear width
179.12 mm + 总齿轮宽度
- E. 3.59" plus front gear width
91.11 mm + 前齿轮宽度
- F. 3.27" plus gear width
83.16 mm + 齿轮宽度



性能 PERFORMANCE

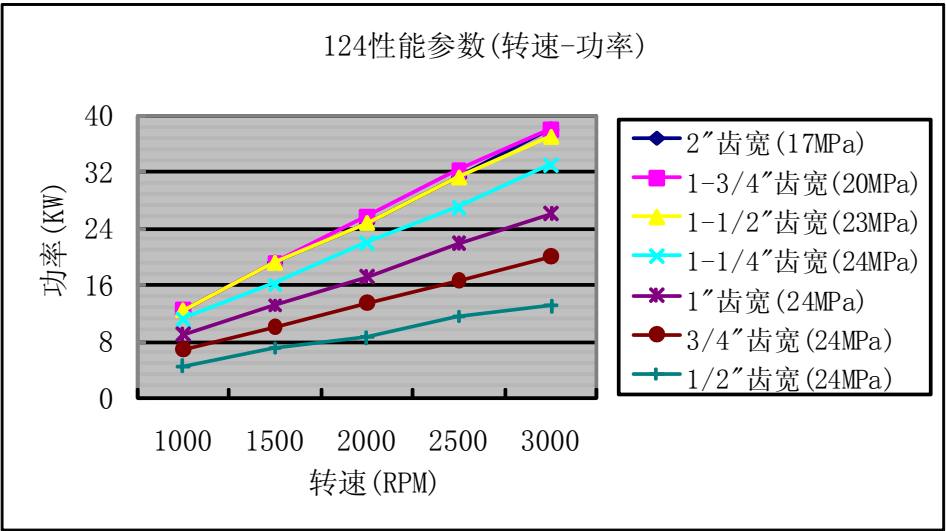
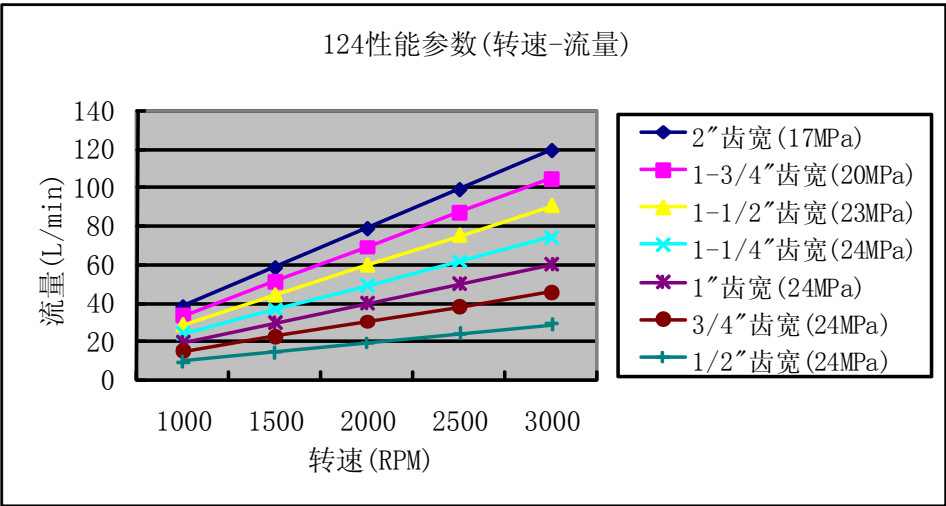
齿轮泵 Gear Pumps

Displacement 排量	Gear Width 齿宽	Rated Pressure 额定压力	Max Pressure 最高压力	Working Speed RPM 工作转速 转/分		Input Power 输入功率
ml/rev	Inch 英寸	MPa	MPa	Max 最高	Min 最低	KW
10.16	1/2"	25	28	3000	600	13.4
15.23	3/4"	25	28	3000	600	20.0
20.31	1"	25	28	3000	600	26.7
25.39	1-1/4"	25	28	3000	600	33.4
30.47	1-1/2"	21	25	3000	600	33.7
35.54	1-3/4"	18	21	3000	600	33.7
40.62	2"	18	21	3000	600	38.5

齿轮马达 Gear Motors

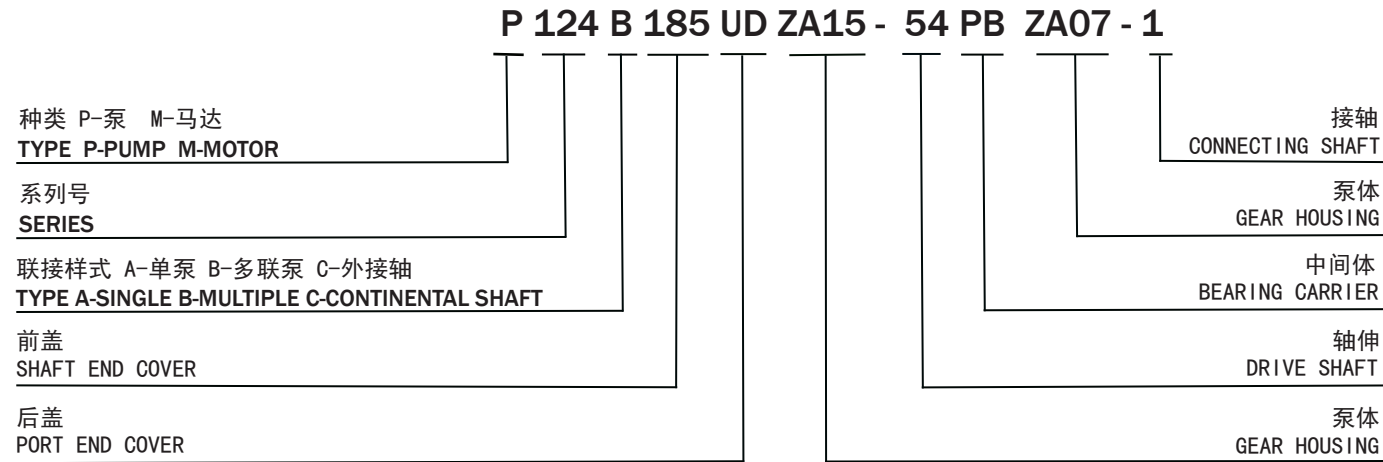
Displacement 排量	Input Flow 输入流量 2000 RPM	Gear Width 齿宽	Rated Pressure 额定压力	Max Pressure 最高压力	Output Speed RPM 输出转速 转/分		Output Power 2000 RPM 输出功率	Output Torque 输出扭矩
ml/rev	LPM	Inch 英寸	MPa	MPa	Max 最高	Min 最低	KW	N-m
10.16	22.6	1/2"	21	25	3000	600	6.4	30.5
15.23	33.8	3/4"	21	25	3000	600	9.6	45.8
20.31	45.1	1"	21	25	3000	600	12.8	61.1
25.39	56.4	1-1/4"	21	25	3000	600	16.0	76.3
30.47	67.7	1-1/2"	18	21	3000	600	16.5	78.5
35.54	79.0	1-3/4"	18	21	3000	600	19.2	91.6
40.62	90.3	2"	18	21	3000	600	21.9	104.7

性能曲线 PERFORMANCE CURVE



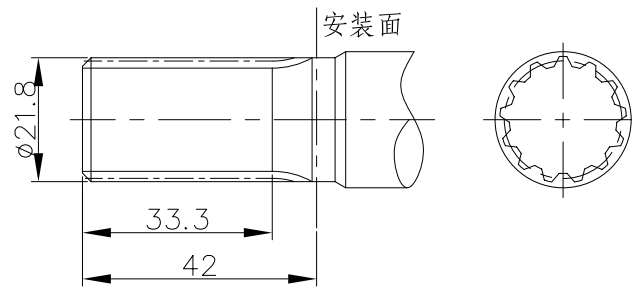
*: 性能曲线是基于一系列试验结果汇总得出的，其数值并不代表单独一台产品的性能。
*:Performance date given is based on a series of test and is representative of any one unit.

标准型号说明 STANDARD MODEL IDENTIFICATION



124轴伸型式 124 DRIVE SHAFTS

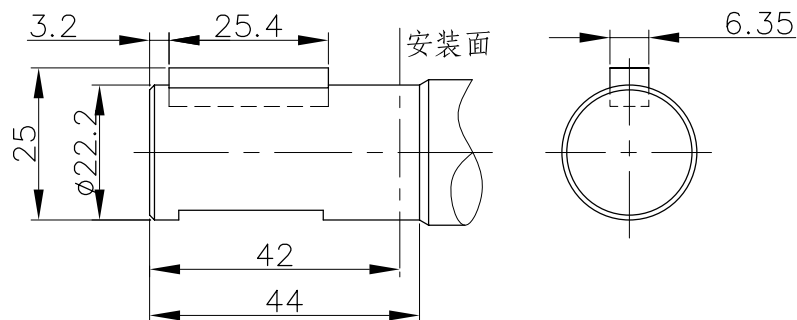
CODE 54



轴伸型式:
SAE B 13齿渐开线外花键
DP: 16/32 压力角: 30°

DRIVE SHAFT;
SPLINED SAE B (13 TEETH)
DP: 16/32 PRESSURE ANGLE: 30°

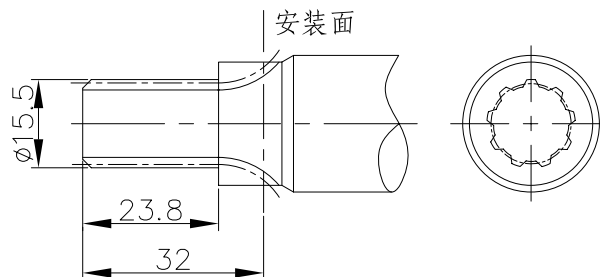
CODE 55



轴伸型式:
SAE 平键
键: 1/4" (W) X 1/4" (H) X 1" (L)

DRIVE SHAFT;
KEYED SAE
KEY: 1/4" (W) X 1/4" (H) X 1" (L)

CODE 85



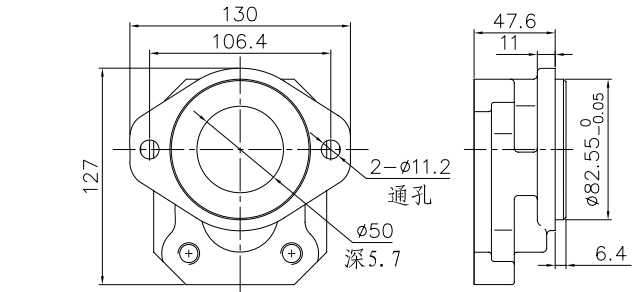
轴伸型式:
SAE A 9齿渐开线外花键
DP: 16/32 压力角: 30°

DRIVE SHAFT;
SPLINED SAE A (9 TEETH)
DP: 16/32 PRESSURE ANGLE: 30°

124前盖型式 124 SHAFT END COVERS

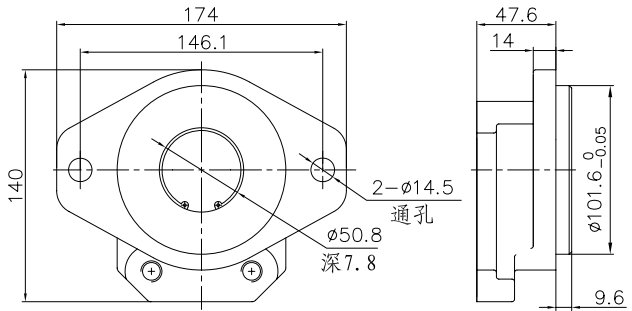
SAE A-2孔 SAE A-2 BOLT

旋向 Rotation		外置轴承 Shaft bearing
		无Without
泵 Pump	右旋C/W	082
	左旋C/C	182
	双向BR	282
马达Motor	双向BR	882

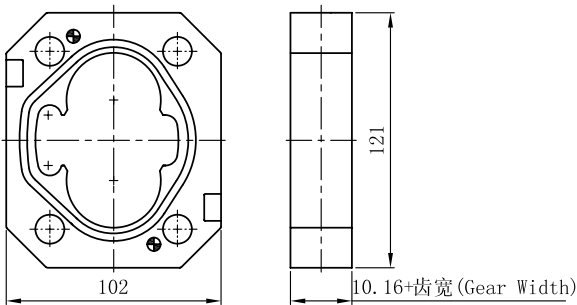


SAE B-2孔 SAE B-2 BOLT

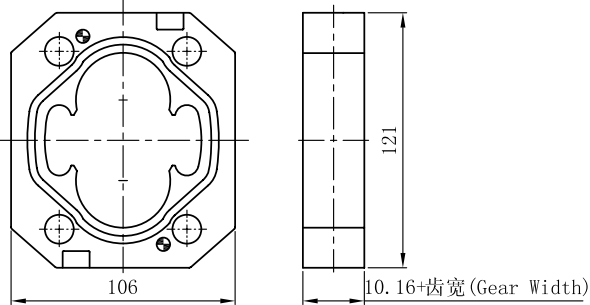
旋向 Rotation		外置轴承 Shaft bearing
		无Without
泵 Pump	右旋C/W	085
	左旋C/C	185
	双向BR	285
马达Motor	双向BR	885



124泵体型式 124GEAR HOUSING



泵
(Pump)

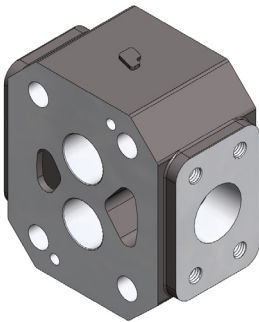


马达
(Motor)

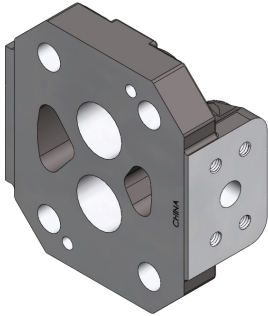
油口 (Porting)		代码 CODE
左 (L)	右 (R)	
/	/	ZA

124系列产品开油口的零部件主要有:

PARTS WITH PORTING OF 124 SERIES:



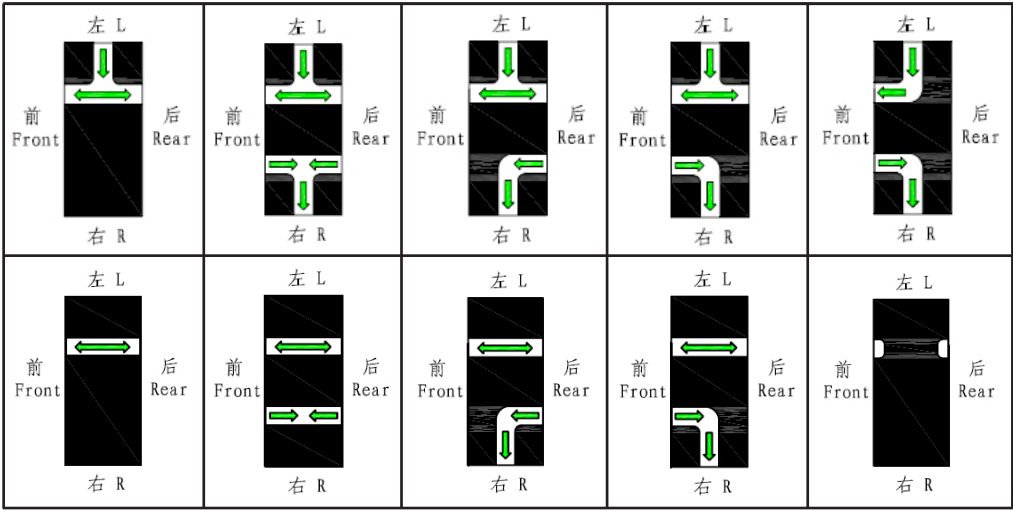
中间体



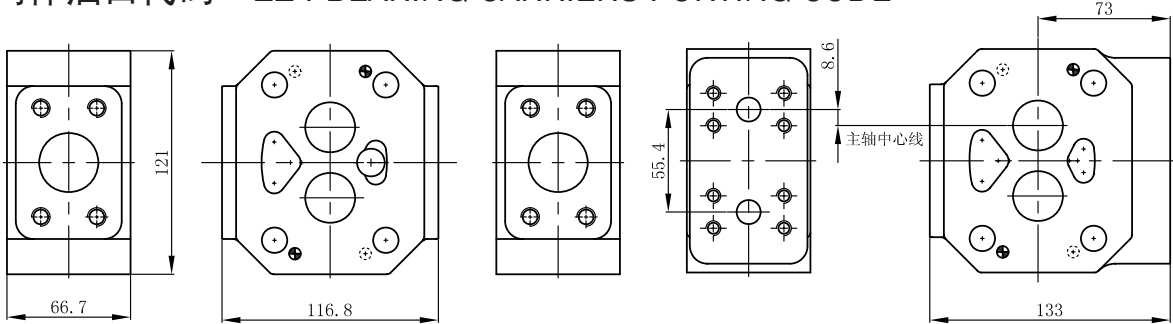
后盖

124中间体油口型式 124 BEARING CARRIERS PORTING TYPE

中间体油路截面形式 BEARING CARRIERS FLOW SECTIONS



124中间体油口代码 124 BEARING CARRIERS PORTING CODE



124中间体油口(单进单出)代码

124 BEARING CARRIERS PORTING SINGLE INLET,SINGLE OUTLET CODE

MSF PORTING

油口 (Porting)		代码 CODE	
进油(IN)	出油(OUT)	右旋 C/W	左旋 C/C
/	/	B	C
1-1/4	1-1/4	BM	MB
1-1/4	1	BO	OB
1-1/4	3/4	BP	PB
1-1/4	1/2	GQ	QG
1	1	GR	RG
1	3/4	GS	SG
1	1/2	GT	TG
3/4	3/4	GU	UG
3/4	1/2	GV	VG

BSPP PORTING

油口 (Porting)		代码 CODE	
进油(IN)	出油(OUT)	右旋 C/W	左旋 C/C
/	/	B	C
1-1/2	1-1/2	JQ	QJ
1-1/2	1-1/4	JR	RJ
1-1/2	1	JS	SJ
1-1/2	7/8	JT	TJ
1-1/2	3/4	JU	UJ
1-1/4	1-1/4	JV	VJ
1-1/4	1	JW	WJ
1-1/4	7/8	JX	XJ
1-1/4	3/4	JY	YJ
1-1/4	1/2	GN	NG
1	1	GO	OG
1	7/8	GP	PG
1	3/4	GW	WG
1	1/2	GX	XG
3/4	3/4	GY	YG
3/4	1/2	LW	WL

JIC PORTING

油口 (Porting)		代码 CODE	
进油(IN)	出油(OUT)	右旋 C/W	左旋 C/C
/	/	B	C
1-1/2	1-1/2	JA	AJ
1-1/2	1-1/4	JB	BJ
1-1/2	1	JE	EJ
1-1/2	7/8	JK	KJ
1-1/2	3/4	JL	LJ
1-1/4	1-1/4	JM	MJ
1-1/4	1	JN	NJ
1-1/4	7/8	JO	OJ
1-1/4	3/4	JP	PJ
1-1/4	5/8	LA	AL
1-1/4	1/2	LK	KL
1	1	LM	ML
1	7/8	LP	PL
1	3/4	LQ	QL
1	5/8	LR	RL
1	1/2	LS	SL
3/4	3/4	LT	TL
3/4	5/8	LU	UL
3/4	1/2	LV	VL

SF PORTING

油口 (Porting)		代码 CODE	
进油(IN)	出油(OUT)	右旋 C/W	左旋 C/C
/	/	B	C
1-1/4	1-1/4	BI	IB
1-1/4	1	BK	KB
1-1/4	3/4	BL	LB
1-1/4	1/2	GA	AG
1	1	GB	BG
1	3/4	GE	EG
1	1/2	GK	KG
3/4	3/4	GL	LG
3/4	1/2	GM	MG

124中间体油口(单进双出)代码

124 BEARING CARRIERS PORTING SINGLE INLET,DOUBLE OUTLET CODE

BSPP PORTING

油口 (Porting)			代码 CODE	
进油(IN)	出油I(OUTI)	出油II(OUTII)	右旋 C/W	左旋 C/C
1-1/2	1	1	GI	IG
1-1/2	1	7/8	JI	IJ
1-1/2	7/8	7/8	KI	IK
1-1/2	1	3/4	LI	IL
1-1/2	3/4	3/4	MI	IM
1-1/4	1	1	OI	IO
1-1/4	1	7/8	PI	IP
1-1/4	7/8	7/8	QI	IQ
1-1/4	1	3/4	RI	IR
1-1/4	3/4	3/4	SI	IS
1-1/4	3/4	1/2	TI	IT
1-1/4	1/2	1/2	UI	IU
1	1	1	VI	IV
1	1	7/8	WI	IW
1	7/8	7/8	XI	IX
1	1	3/4	YI	IY
1	3/4	3/4	IC	CI
1	3/4	1/2	JC	CJ
1	1/2	1/2	KC	CK

MSF PORTING

油口 (Porting)			代码 CODE	
进油(IN)	出油I(OUTI)	出油II(OUTII)	右旋 C/W	左旋 C/C
1-1/4	3/4	3/4	AC	CA
1-1/4	3/4	1/2	BC	CB
1-1/4	1/2	1/2	DC	CD
1	3/4	3/4	EC	CE
1	3/4	1/2	FC	CF
1	1/2	1/2	GC	CG

JIC PORTING

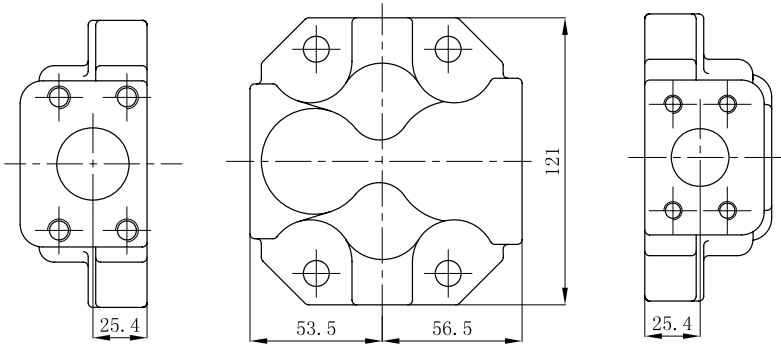
油口 (Porting)			代码 CODE	
进油(IN)	出油I(OUTI)	出油II(OUTII)	右旋 C/W	左旋 C/C
1-1/2	1	1	IF	FI
1-1/2	1	7/8	JF	FJ
1-1/2	7/8	7/8	KF	FK
1-1/2	1	3/4	LF	FL
1-1/2	3/4	3/4	MF	FM
1-1/4	1	1	OF	FO
1-1/4	1	7/8	PF	FP
1-1/4	7/8	7/8	QF	FQ
1-1/4	1	3/4	RF	FR
1-1/4	3/4	3/4	SF	FS
1-1/4	3/4	5/8	TF	FT
1-1/4	3/4	1/2	UF	FU
1-1/4	5/8	5/8	VF	FV
1-1/4	1/2	1/2	WF	FW
1	1	1	XF	FX
1	1	7/8	YF	FY
1	7/8	7/8	QB	BQ
1	1	3/4	RB	BR
1	3/4	3/4	SB	BS
1	3/4	5/8	UB	BU
1	3/4	1/2	VB	BV
1	5/8	5/8	WB	BW
1	1/2	1/2	XB	BX

SF PORTING

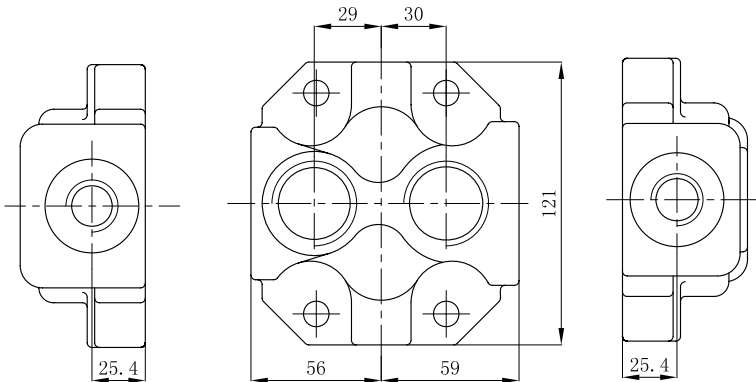
油口 (Porting)			代码 CODE	
进油(IN)	出油I(OUTI)	出油II(OUTII)	右旋 C/W	左旋 C/C
1-1/4	3/4	3/4	BZ	ZB
1-1/4	3/4	1/2	CZ	ZC
1-1/4	1/2	1/2	DZ	ZD
1	3/4	3/4	EZ	ZE
1	3/4	1/2	FZ	ZF
1	1/2	1/2	GZ	ZG

124后盖油口代码 124 PORT END COVER PORTING CODE

124法兰油口后盖



124螺纹油口后盖



124泵后盖油口代号 124 PUMP PORT END COVER PORTING CODE

MSF PORTING

油口 (Porting)		代码 (CODE)		备注 REMARK
进油(IN)	出油(OUT)	右旋 C/W	左旋 C/C	
/	/	AH	AH	
1	3/4	DU	UD	SIDE PORT
1	1/2	DV	VD	SIDE PORT
3/4	3/4	DW	WD	SIDE PORT
3/4	1/2	DX	XD	SIDE PORT
1	/	NO	ON	SIDE PORT
3/4	/	NQ	QN	SIDE PORT
/	3/4	NS	SN	SIDE PORT
/	1/2	NU	UN	SIDE PORT

SF PORTING

油口 (Porting)		代码 (CODE)		备注 REMARK
进油(IN)	出油(OUT)	右旋 C/W	左旋 C/C	
/	/	AH	AH	
1	3/4	DI	ID	SIDE PORT
1	1/2	DJ	JD	SIDE PORT
3/4	3/4	DK	KD	SIDE PORT
3/4	1/2	DL	LD	SIDE PORT
1	/	ND	DN	SIDE PORT
3/4	/	NE	EN	SIDE PORT
/	3/4	NI	IN	SIDE PORT
/	1/2	NK	KN	SIDE PORT

124泵后盖油口代号 124 PUMP PORT END COVER PORTING CODE

BSPP PORTING

油口 (Porting)		代码 (CODE)		备注 REMARK
进油(IN)	出油(OUT)	右旋 C/W	左旋 C/C	
/	/	AH	AH	
1-1/4	1	EM	ME	SIDE PORT
1-1/4	7/8	EO	OE	SIDE PORT
1-1/4	3/4	EQ	QE	SIDE PORT
1	1	ER	RE	SIDE PORT
1	7/8	ES	SE	SIDE PORT
1	3/4	AO	OA	SIDE PORT
7/8	7/8	AP	PA	SIDE PORT
7/8	3/4	AQ	QA	SIDE PORT
7/8	1/2	AS	SA	SIDE PORT
3/4	3/4	AT	TA	SIDE PORT
3/4	1/2	OP	PO	SIDE PORT
1-1/4	/	OQ	QO	SIDE PORT
1	/	OR	RO	SIDE PORT
7/8	/	OS	SO	SIDE PORT
3/4	/	OU	UO	SIDE PORT
/	1	OV	VO	SIDE PORT
/	7/8	OW	WO	SIDE PORT
/	3/4	OX	XO	SIDE PORT
/	1/2	OY	YO	SIDE PORT
1-1/4	1	TR	RT	REAR PORT
1-1/4	7/8	TS	ST	REAR PORT
1-1/4	3/4	TU	UT	REAR PORT
1	1	TV	VT	REAR PORT
1	7/8	TW	WT	REAR PORT
1	3/4	TX	XT	REAR PORT
7/8	7/8	KT	TK	REAR PORT
7/8	3/4	KU	UK	REAR PORT
3/4	3/4	KW	WK	REAR PORT
3/4	1/2	KY	YK	REAR PORT

NPT PORTING

油口 (Porting)		代码 (CODE)		备注 REMARK
进油(IN)	出油(OUT)	右旋 C/W	左旋 C/C	
/	/	AH	AH	
1-1/4	1	ZI	IZ	SIDE PORT
1-1/4	3/4	ZJ	JZ	SIDE PORT
1	1	ZK	KZ	SIDE PORT
1	3/4	ZL	LZ	SIDE PORT
3/4	3/4	ZQ	QZ	SIDE PORT
1-1/4	1	VP	PV	REAR PORT
1	3/4	ZP	PZ	REAR PORT
3/4	1/2	ZR	RZ	REAR PORT
1-1/4	3/4	PR	PL	SIDE AND REAR PORT

JIC PORTING

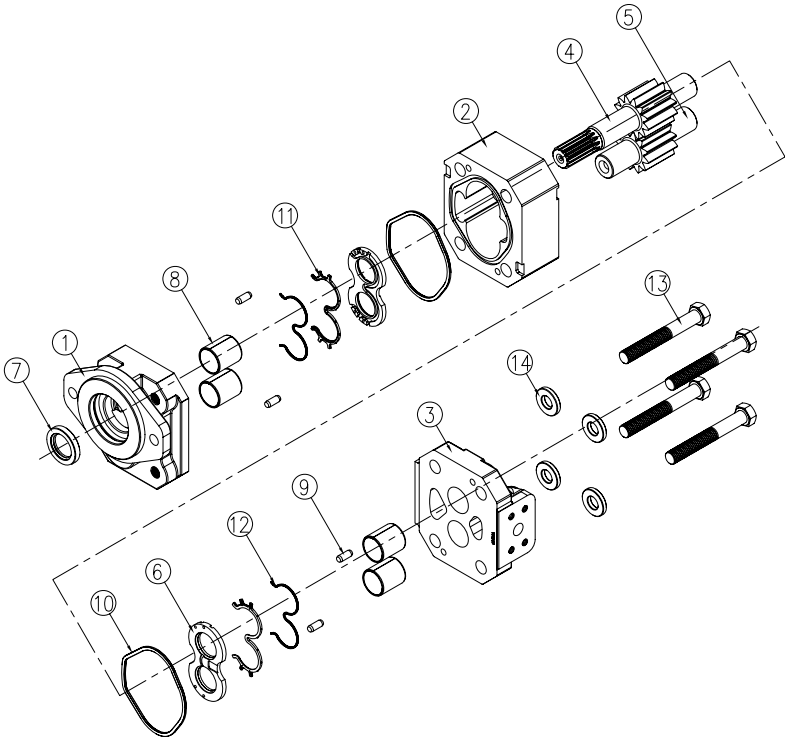
油口 (Porting)		代码 (CODE)		备注 REMARK
进油(IN)	出油(OUT)	右旋 C/W	左旋 C/C	
/	/	AH	AH	
1-1/4	1	EA	AE	SIDE PORT
1-1/4	7/8	EB	BE	SIDE PORT
1-1/4	3/4	EF	FE	SIDE PORT
1-1/4	5/8	EI	IE	SIDE PORT
1	1	EK	KE	SIDE PORT
1	7/8	EU	UE	SIDE PORT
1	3/4	EV	VE	SIDE PORT
1	5/8	EW	WE	SIDE PORT
7/8	7/8	EX	XE	SIDE PORT
7/8	3/4	EY	YE	SIDE PORT
7/8	5/8	AB	BA	SIDE PORT
7/8	1/2	AF	FA	SIDE PORT
3/4	3/4	AI	IA	SIDE PORT
3/4	5/8	AK	KA	SIDE PORT
3/4	1/2	AM	MA	SIDE PORT
1-1/4	/	AU	UA	SIDE PORT
1	/	AV	VA	SIDE PORT
7/8	/	AW	WA	SIDE PORT
3/4	/	AX	XA	SIDE PORT
/	1	AY	YA	SIDE PORT
/	7/8	OC	CO	SIDE PORT
/	3/4	OD	DO	SIDE PORT
/	5/8	OL	LO	SIDE PORT
/	1/2	OM	MO	SIDE PORT
1-1/4	1	TB	BT	REAR PORT
1-1/4	7/8	TE	ET	REAR PORT
1-1/4	3/4	TM	MT	REAR PORT
1	1	TN	NT	REAR PORT
1	7/8	TO	OT	REAR PORT
1	3/4	TP	PT	REAR PORT
1	5/8	TQ	QT	REAR PORT
7/8	7/8	KM	MK	REAR PORT
7/8	3/4	KO	OK	REAR PORT
7/8	5/8	KP	PK	REAR PORT
3/4	3/4	KQ	QK	REAR PORT
3/4	5/8	KR	RK	REAR PORT
3/4	1/2	KS	SK	REAR PORT
1-1/4	3/4	SR	SL	SIDE AND REAR PORT

124马达后盖油口代码 124 MOTOR PORT END COVER PORTING CODE

油口 (Porting)		代码 (CODE)	备注 REMARK
进油(IN)	出油(OUT)		
1	1	UX	BSPP SIDE PORT
3/4	3/4	UY	BSPP SIDE PORT
1/2	1/2	UU	BSPP SIDE PORT
1	1	QS	BSPP REAR PORT
3/4	3/4	QU	BSPP REAR PORT
1/2	1/2	QV	BSPP REAR PORT
1	1	UM	JIC SIDE PORT
3/4	3/4	UQ	JIC SIDE PORT
1/2	1/2	UP	JIC SIDE PORT
1	1	QM	JIC REAR PORT
3/4	3/4	QP	JIC REAR PORT
1/2	1/2	QR	JIC REAR PORT
1	1	CL	NPT SIDE PORT
3/4	3/4	CM	NPT SIDE PORT
1/2	1/2	CP	NPT SIDE PORT
1	1	QW	NPT REAR PORT
3/4	3/4	QX	NPT REAR PORT
1/2	1/2	QY	NPT REAR PORT
1	1	CU	MSF SIDE PORT
3/4	3/4	CV	MSF SIDE PORT
1	1	CQ	SF SIDE PORT
3/4	3/4	CR	SF SIDE PORT

124单泵分解图

EXPLODED VIEW OF 124 SINGLE PUMP



1. 前盖 2. 泵体 3. 后盖 4. 主动齿轮 5. 被动齿轮 6. 侧板 7. 油封 8. 自润滑轴承 9. 圆柱销 10. 方形密封圈
11. E形密封圈 12. E形挡圈 13. 六角头螺栓 14. 垫圈