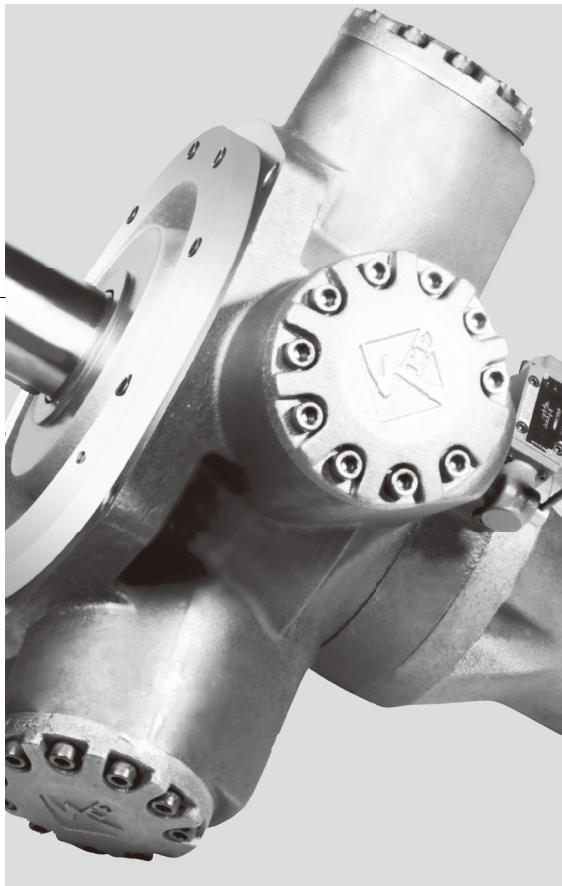




STFD 目录 / Contents



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STFD125 系列 / STFD125 Serie	D-07
STFD200 系列 / STFD200 Serie	D-14
STFD270/325 系列 / STFD270/325 Serie	D-21



产品特点 / Product Feature

STFD系列液压马达是我公司在STFC系列基础上最新研发的双排量低速大扭矩液压马达，继承了STFC系列静压平衡的优点，具有同STFC系列同样的高效率、高启动扭矩、高容积效率等。

STFD系列液压马达具有双排量功能，可以从较宽范围的排量中选择适合于各种应用需求的排量。可以通过远程控制、自动切换或手动切换来实现排量的切换，并且可以在马达运转中简单和轻松的实现。

其主要特点如下：

- 低速大扭矩；
- 高效率；
- 运转平稳；
- 宽排量范围可供选择；
- 可在运转时进行排量切换；
- 可选择电磁切换、手动切换、自动切换方式。

STFD series' dual speed hydraulic motor is an upgrade of the STFC series low-speed and high torque hydraulic motors. It inherits the STFC series hydrostatic balance structure, and is features with high efficiency, high starting torque,high volumetric efficiency,etc.

STFD series' dual speed hydraulic motor enables users to select displacement in a wide range for special working conditions. Users can switch the displacement by using a remote control or manual control,with control valve mounted on the motor.The displacement can be switched easily while the motor is running.

Main characterstics:

- Low speed, high-torque;
- High efficiency;
- Stable performance;
- Wide-range option of displacement;
- Switchable displacement while the motor is running;
- Switch option: electromagnetic, manual, automatic.

产品标识说明 / Ordering Code

STFD双速液压马达代号/ Model – STFD

型号/ Type

大排量/ Large Displacement

小排量/ Small Displacement

输出轴形式/ Shaft options

- a、P表示为平键轴 P —— Parallel keyed shaft
b、T表示为锥轴 T —— Taper keyed shaft
c、S表示为外花键轴 S —— Spline shaft
d、Q表示为内花键轴 Q —— Female spline shaft

进油口形式/ Distributor

切换阀的类型/ Switch valve options

- * 无控制阀 / Null control valve
E 电磁控制阀 / Electromagnetic control valve
M 手动控制阀 / Manual control valve
Z 自动2速阀 / Automatic two-speed switching valve
L 强制低速切换自动2速阀 / Mandatory automatic low-speed switching valve
W 无极变速阀/continuously variable valve
V 强制低速无极变速阀/continuously variable transmisson valve with low speed enforcement

变量方式（详见控制原理图D-03页）/ Variable control（See control schematic P_{D-03}）

__***_***_***_***_*_*

1 2 3 4 5 6 7 8

举例/Example:

STFD	200	3100	1000	S71	F02	M	C
------	-----	------	------	-----	-----	---	---

马达代号/ Model	STFD
型号/ Type	200
大排量/ Large displacement	3100 ml/r
小排量/ Small displacement	1000 ml/r
输出轴/ Shaft	S71
进油口形式/ Distributor	F02
切换阀的类型/ Type of switch valve	M
变量控制方式/ Variable control	C

STFD100 系列/ STFD100 Serie

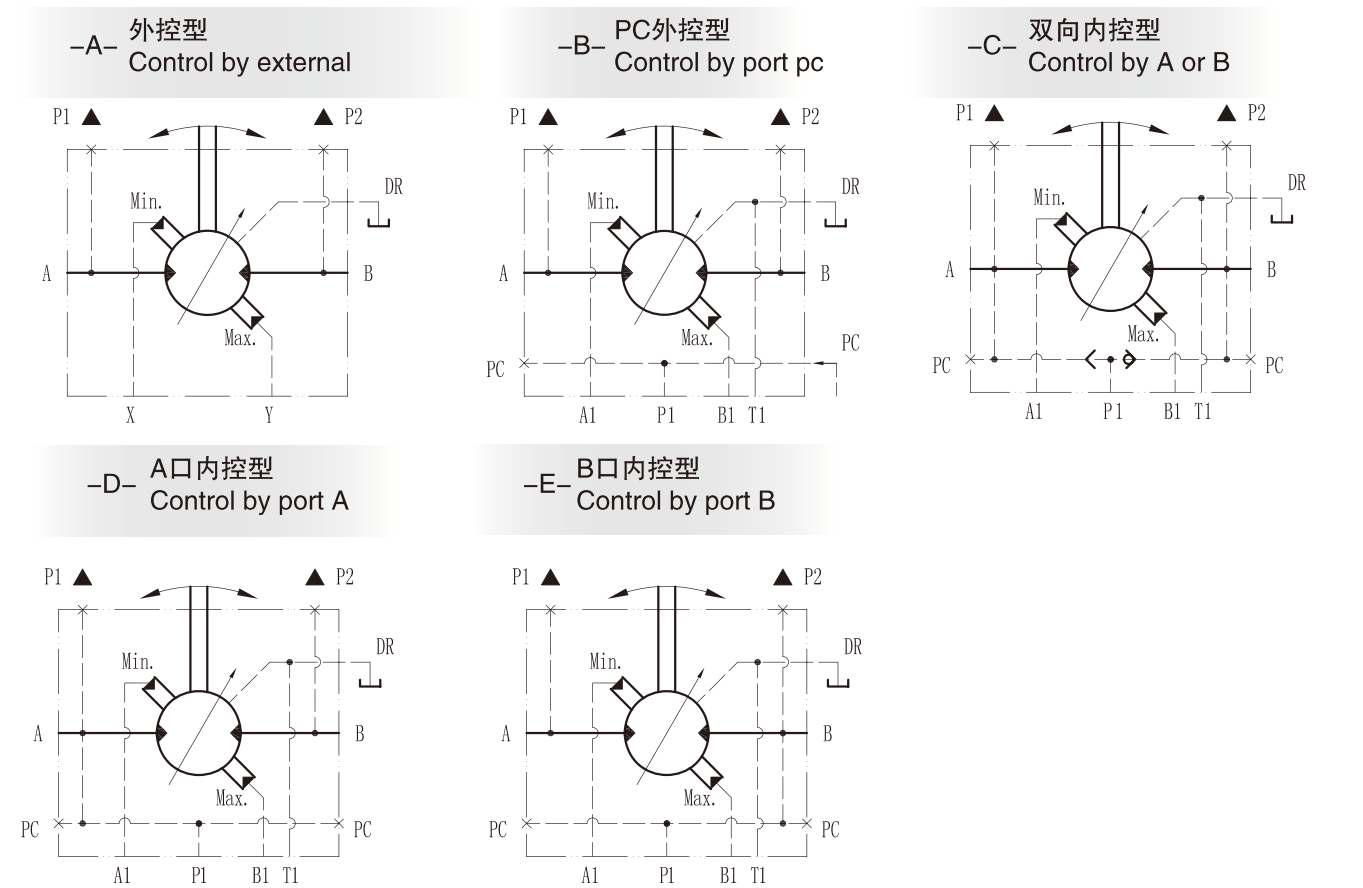


技术参数表/Technical Parameter

名义排量 Nominal Displacement	ml/r	1600	1500	1400	1300	1200	1100	1000	900	800	700	600	500	400	300	200	100
排量 Displacement	ml/r	1580	1481	1383	1284	1185	1086	987	889	790	691	592	494	395	296	197	98/0
单位扭矩 Unit torque	N.m/MPa	225	212	198	184	169	155	140	125	108	94	78	68	45	30	18	0
最高转速 Max. Speed	r/min	240	260	280	300	330	370	405	485	540	540	540	540	540	540	540	900
额定功率 Rated Power	KW	102	98	93	92	93	90	86	83	73	64	53	46	31	20	9	0
最大功率 Max. Power	KW	127	123	116	116	117	113	108	103	92	80	66	58	38	25	11	0
额定压力 Rated Pressure	MPa	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	1.5
最高压力 Max. Pressure	MPa	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	1.5

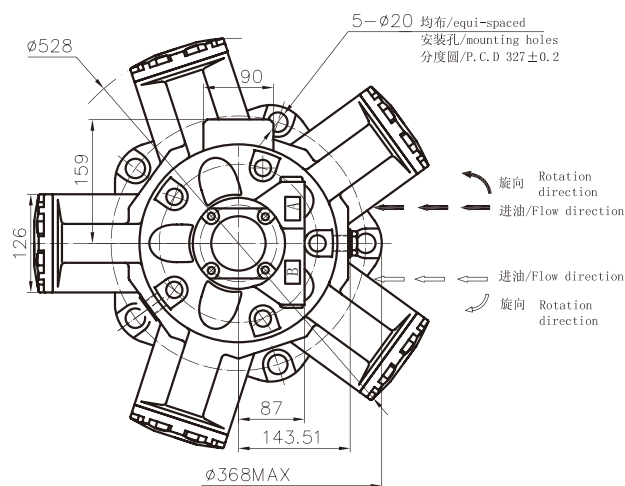
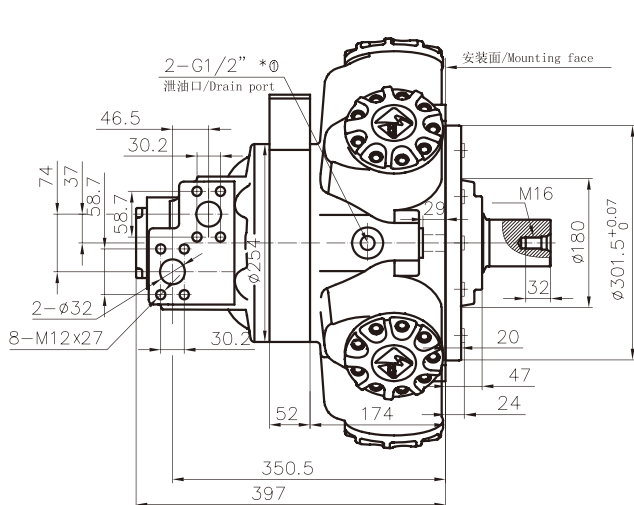
* STFD100排量的选择范围 / STFD100 displacement options
大排量为 / Large Displacement: 1600, 1500, 1400, 1300, 1200, 1100, 1000, 900, 800;
小排量为 / Small Displacement: 1100, 1000, 900, 800, 700, 600, 500, 400, 300, 200, 100, 0

控制原理图 / Control Schematic(编码标识/Ordering Code 8):



STFD100 外形及安装尺寸/ STFD100 Installation Dimensions

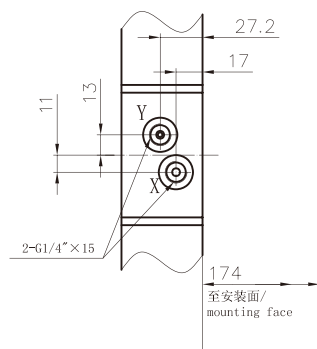
进油口为F01的安装尺寸/With F01 Distributor



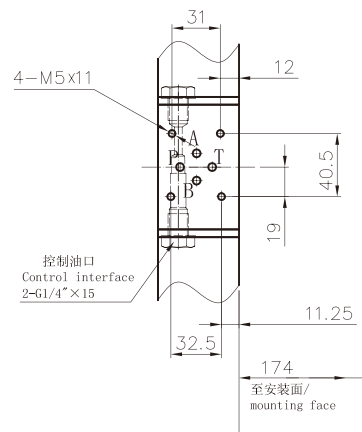
*①可选配UNF3/4"-16接头/Option: UNF3/4"-16

变量控制方法的安装尺寸/Variable Control Dimensions(编码标识/Ordering code 8)

A的安装尺寸/Dimensions



B&C&D 的安装尺寸/ Dimensions

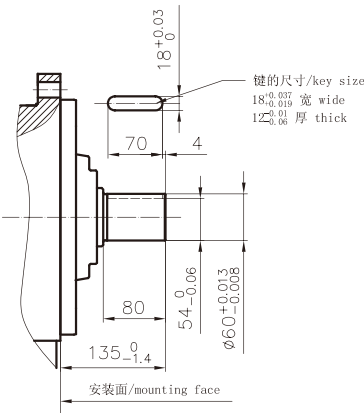


STFD100 系列/ STFD100 Serie

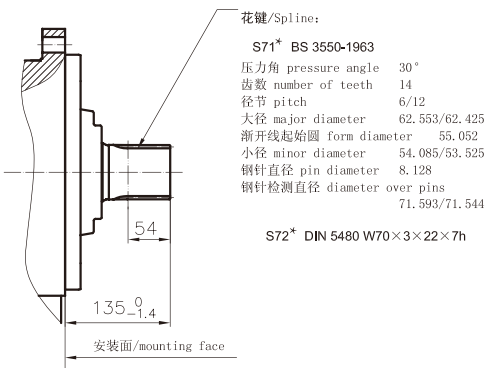


STFD100输出轴的安装尺寸/STFD100 Shaft Options(编码标识/Ordering code 5)

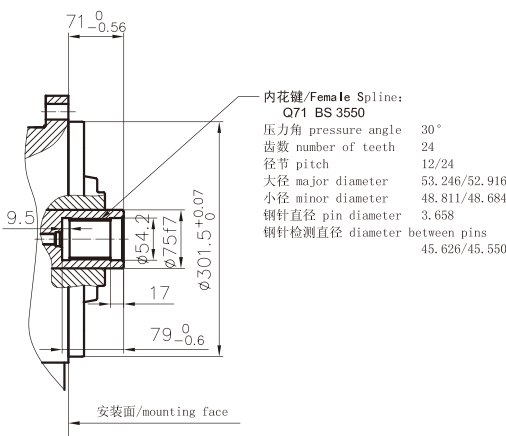
STFD100-P71



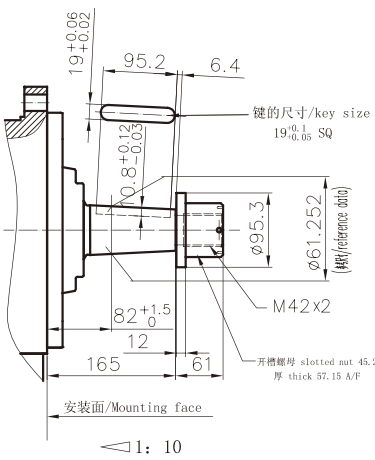
STFD100-S71*&S72*



STFD100-Q71



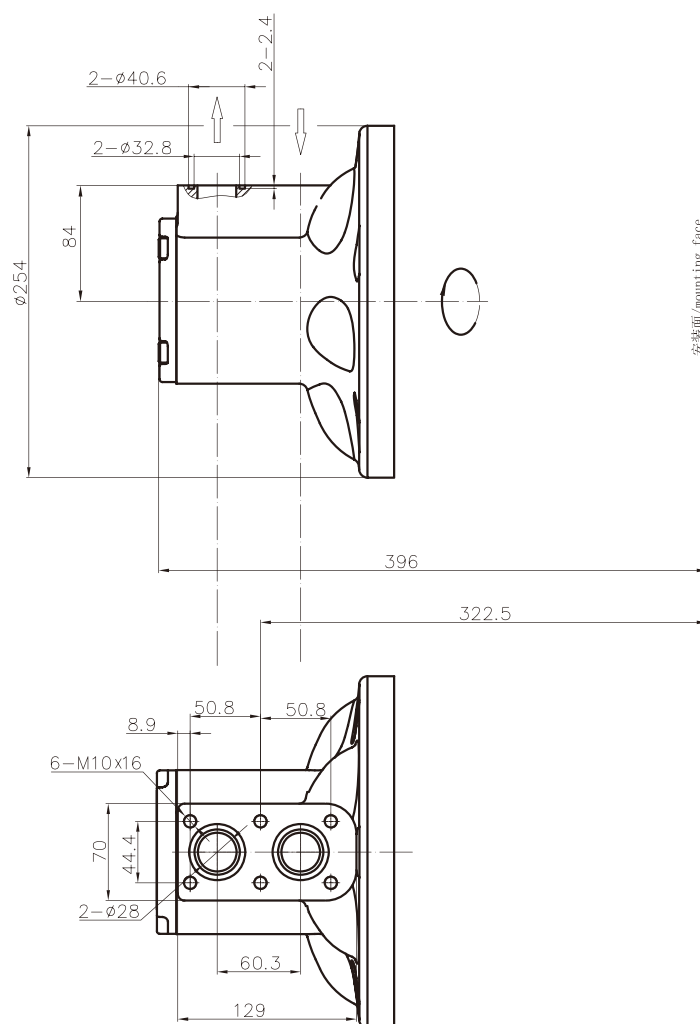
STFD100-T71



注释: S71*/S72* 为标准花键轴。
Notes: S71*/S72*= Standard Spline Shaft

STFD100 外形及安装尺寸/ STFD100 Installation Dimensions

进出油口为F01B的安装尺寸/ F01B Distributor



STFD125 系列/ STFD125 Serie



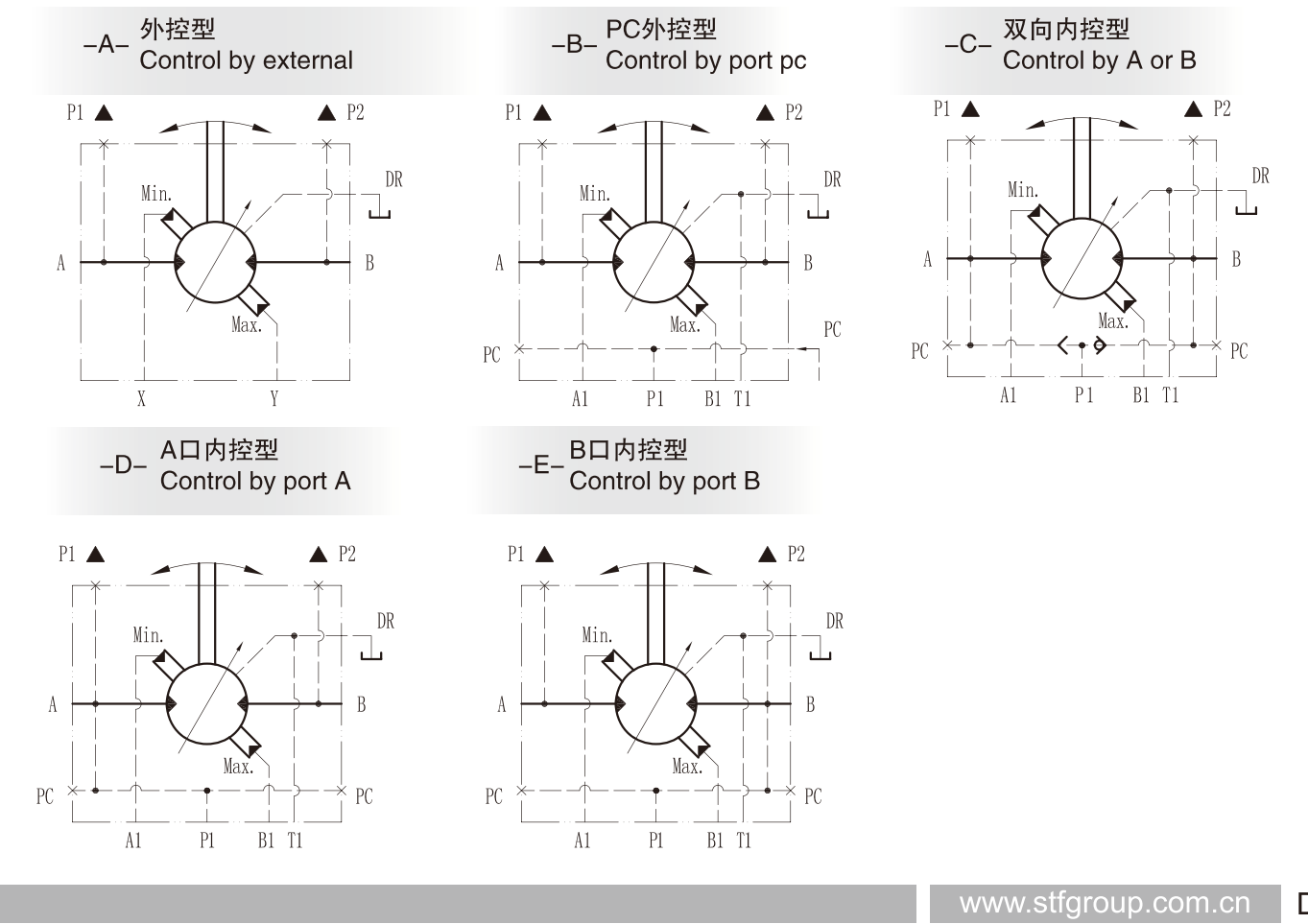
技术参数表/Technical Parameter

名义排量 /Nominal Displacement 编码标识/Ordering Code 3 4	ml/r	2100	2000	1800	1600	1500	1300	1200	1000	830	670	510	350	190	110
排量 Displacement	ml/r	2066	1973	1811	1649	1487	1325	1163	1001	839	677	515	353	191	109/0
单位扭矩 Unit Torque	N.m/MPa	293	281	258	231	206	180	154	125	100	79	57	39	6	0
最高转速F01 Max. Speed	r/min	169	188	204	223	246	265	305	350	395	485	540	540	540	900
最高转速F02 Max. Speed	r/min	220	245	265	290	320	320	320	320	320	320	320	320	320	900
额定功率 Rated Power	KW	105	105	105	105	97	84	72	59	47	37	27	18	3	0
最大功率 Max. Power	KW	132	132	132	132	121	106	90	73	59	46	33	23	4	0
额定压力 Rated Pressure	MPa	23	23	23	23	23	23	23	23	23	23	23	23	23	1.5
最高压力 Max. Pressure	MPa	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	1.5

* STFD125排量的选择范围 / STFD125 displacement options

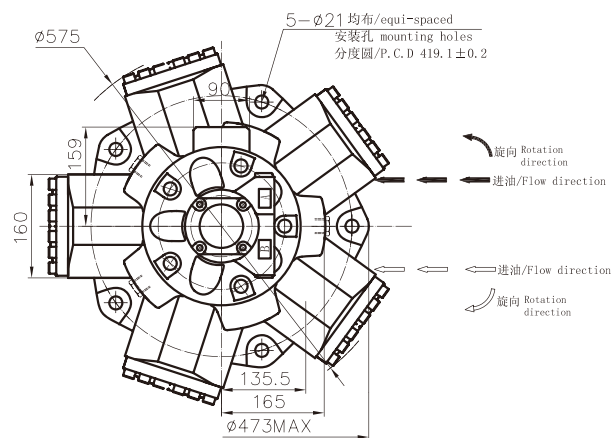
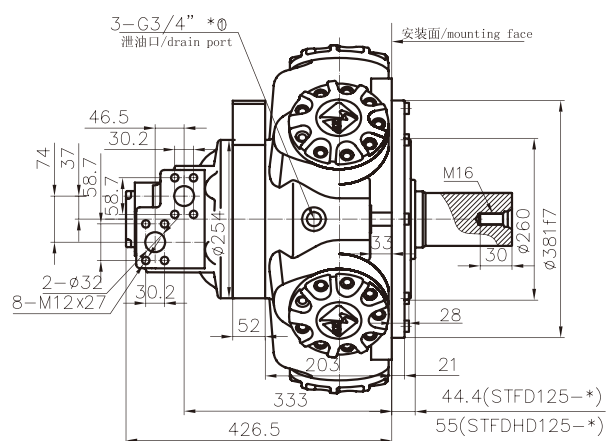
大排量为 / Large Displacement: 2100, 2000, 1800, 1600
小排量为 / Small Displacement: 1600, 1500, 1300, 1200, 1000, 830, 670, 510, 350, 190, 110, 0

控制原理图/Control Schematic(编码标识/Ordering Code 8):



STFD125 外形及安装尺寸/ STFD125 Installation Dimensions

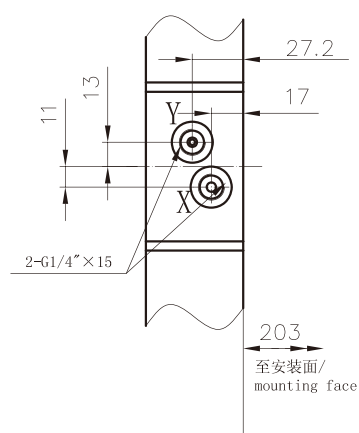
进出油口为F01的安装尺寸/With F01 Distributor



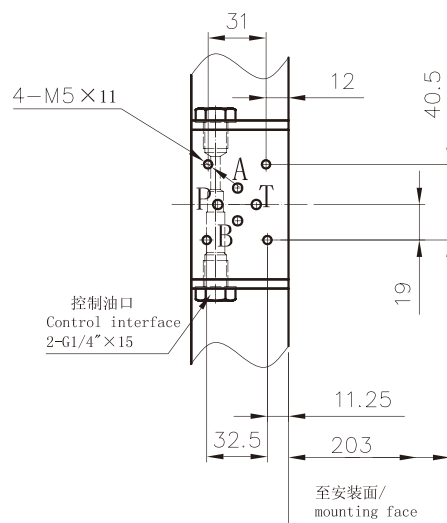
*①可选配UNF3/4"-16接头/Option: UNF3/4"-16

变量控制方式的安装尺寸/Variable Control Dimensions (编码标识/Ordering code 8)

A的安装尺寸/Dimensions



B&C&D的安装尺寸/Dimensions

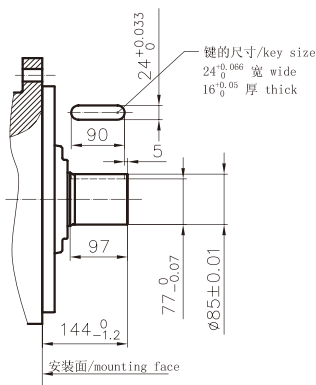


STFD125 系列/ STFD125 Serie

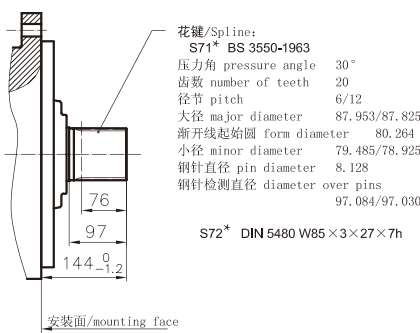


STFD125 输出轴的安装尺寸/STFD125 Shaft Options (编码标识/Ordering code 5)

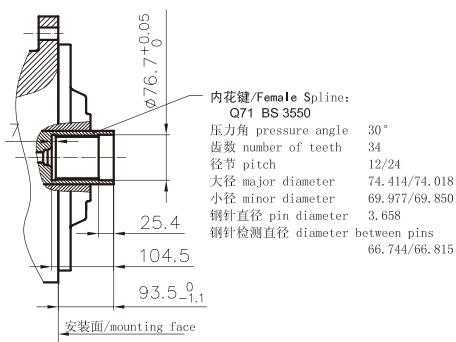
STFD125-P71



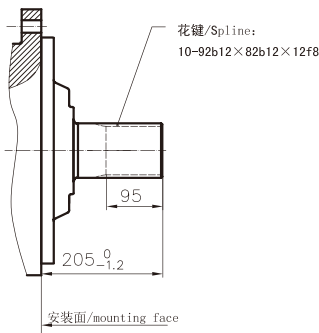
STFD125-S71*&S72*



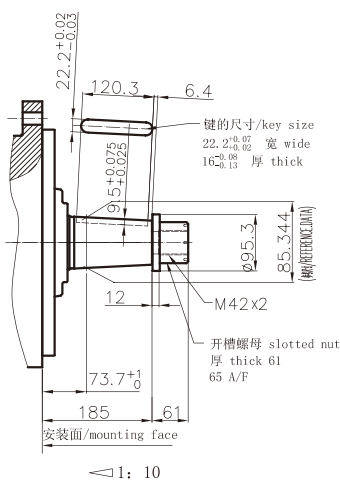
STFDHD125-Q71



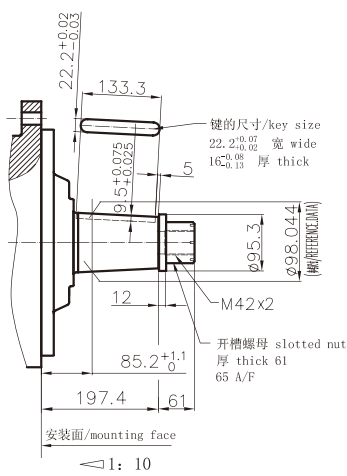
STFDHD125-S73



STFD125-T71



STFDHD125-T72



注释: S71*/S72* 为标准花键轴。
Notes: S71*/S72* = Standard Spline Shaft

ITM

ITMS

STFC

STFD

CRM-HA

CRM-HB

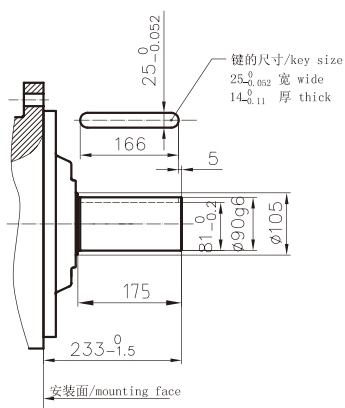
CRM-PS

SMA6V

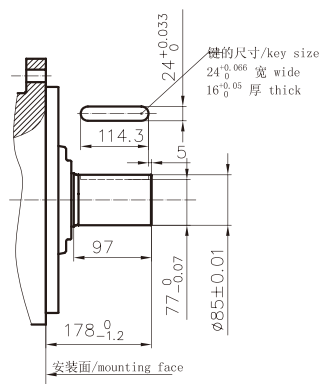
SMA2F

OMZ

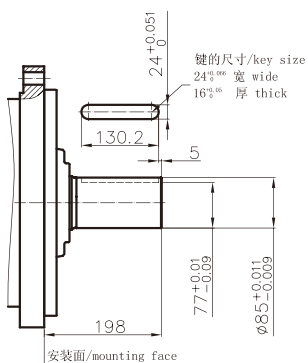
STFDHD125-P72



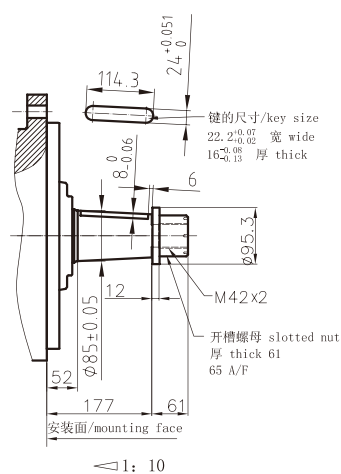
STFD125-P73



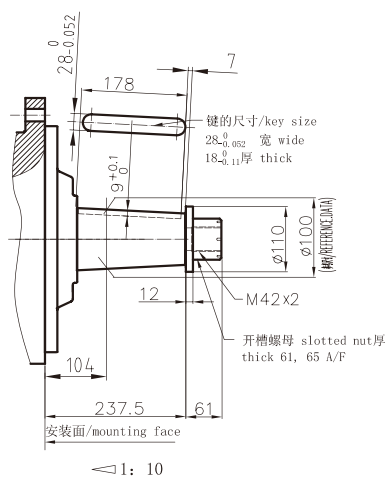
STFD125-P76



STFDHD125-T73



STFD125-T75



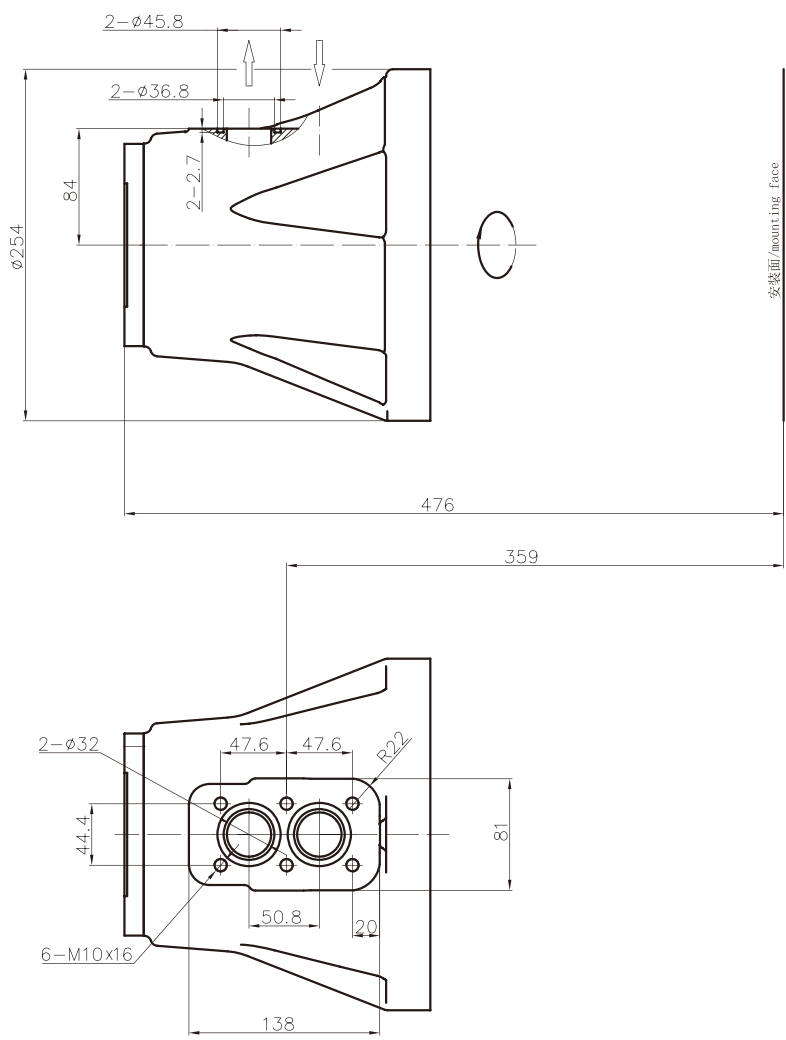
注释: S71*/S72* 为标准花键轴。
Notes: S71*/S72* = Standard Spline Shaft

STFD125 系列/ STFD125 Serie



STFD125外形及安装尺寸/ STFD125 Installation Dimensions

进出油口为F02B的安装尺寸/ F02B Distributor



ITM

ITMS

STFC

STFD

CRM-HA

CRM-HB

CRM-PS

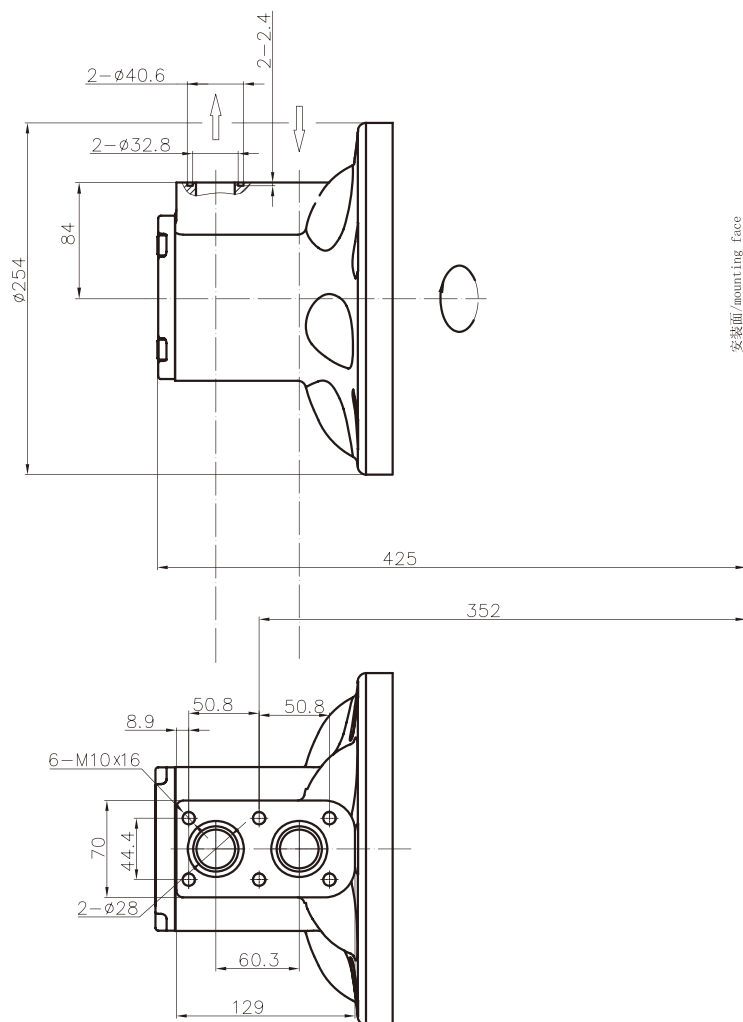
SMA6V

SMA2F

OMZ

STFD125外形及安装尺寸/ STFD125 Installation Dimensions

进出油口为F01B的安装尺寸/ F01B Distributor

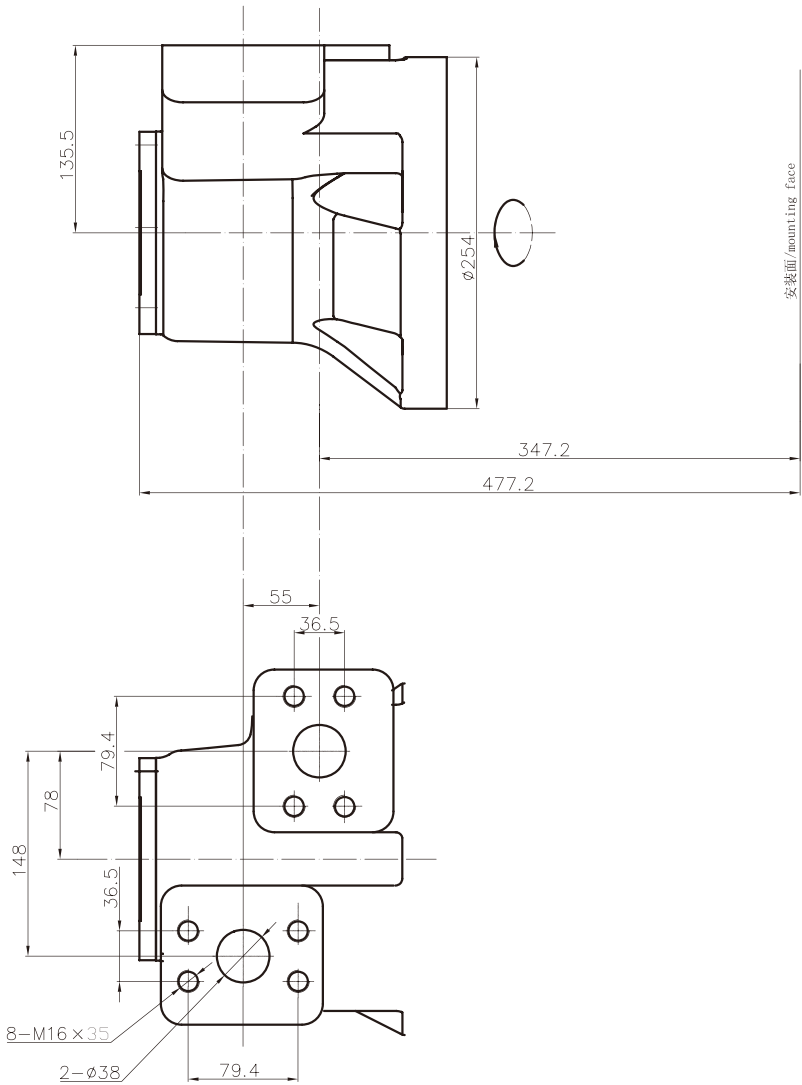


STFD125 系列/ STFD125 Serie



STFD125外形及安装尺寸/ STFD125 Installation Dimensions

进油口为F02的安装尺寸/ F02 Distributor



ITM

ITMS

STFC

STFD

CRM-HA

CRM-HB

CRM-PS

SMA6V

SMA2F

OMZ

技术参数表/Technical Parameter

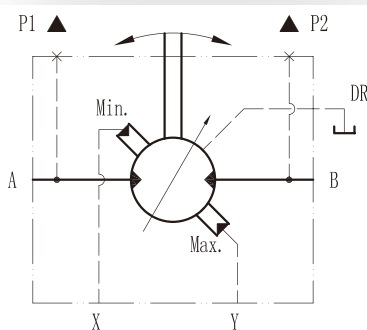
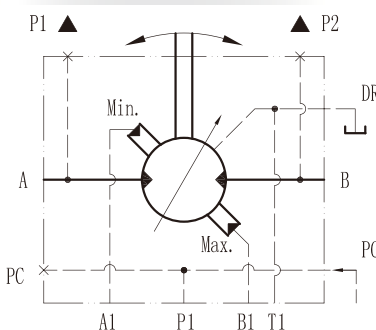
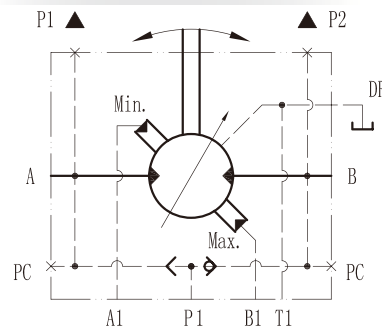
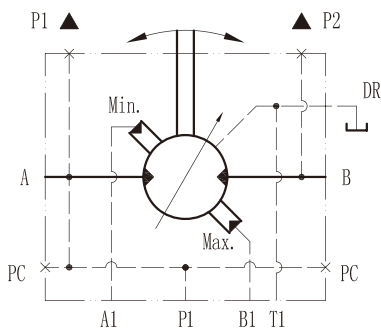
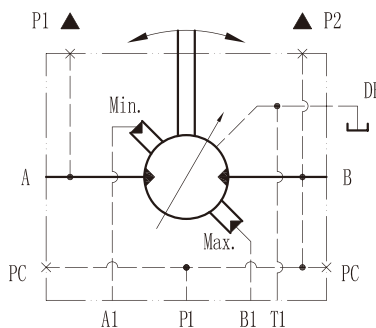
名义排量 /Nominal Displacement 编码标识/Ordering Code 3 4	ml/r	3100	2900	2800	2600	2400	2300	2100	2000	1800	1600	1500	1300	1200	1000	830	670	510	350	190	110
排量 Displacement	ml/r	3080	2958	2796	2634	2472	2310	2148	1973	1811	1649	1487	1325	1163	1001	839	677	515	353	191	109/0
单位扭矩 Unit Torque	N.m/MPa	447	422	400	375	351	326	300	281	258	231	206	180	154	125	100	79	57	30	6	0
最高转速F01 Max. Speed	r/min	110	115	125	135	140	150	160	175	190	210	230	265	305	350	395	485	540	540	540	900
最高转速F02 Max. Speed	r/min	155	160	175	190	196	210	220	245	265	290	320	320	320	320	320	320	320	320	320	900
额定功率 Max. Power	KW	115	115	115	112	108	108	104	101	100	98	97	90	83	67	54	42	31	16	3	0
最大功率 Max. Power	KW	145	145	145	140	135	134	130	126	125	123	121	113	103	84	67	53	38	20	4	0
额定压力 Rated Pressure	MPa	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	1.5
最高压力 Max. Pressure	MPa	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	1.5

* STFD200排量的选择范围 / STFD200 displacement options

大排量为 / Large Displacement: 3100, 2900, 2800, 2600, 2400, 2300, 2100, 2000, 1800, 1600

小排量为 / Small Displacement: 2300, 2100, 2000, 1800, 1600, 1500, 1300, 1200, 1000, 830, 670, 510, 350, 190, 110, 0

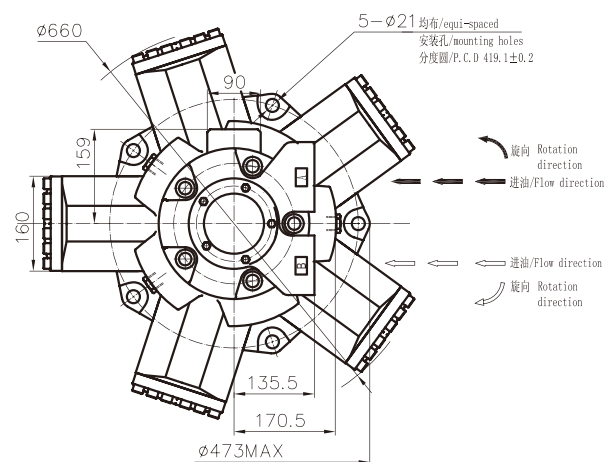
控制原理图/Control Schematic(编码标识/Ordering code 8):

-A- 外控型
Control by external-B- PC外控型
Control by port pc-C- 双向内控型
Control by A or B-D- A口内控型
Control by port A-E- B口内控型
Control by port B



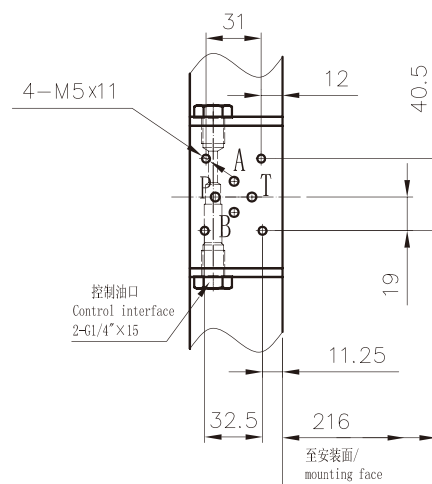
STF
HYDRAULIC TRANSMISSIONS

进出油口为F02的安装尺寸/With F02 Distributor



*①可选配UNF3/4"-16接头/Option: UNF3/4"-16

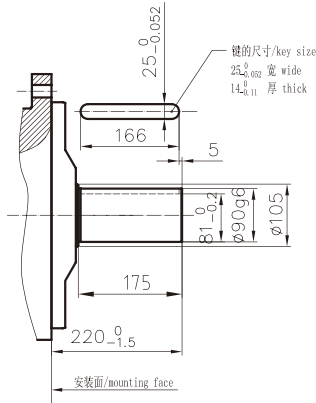
B&C&D的安装尺寸/Dimensions



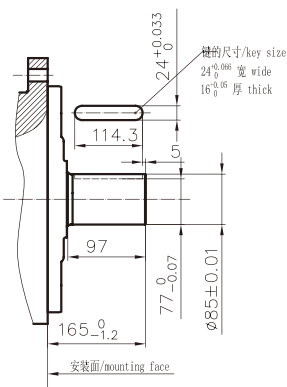
STFD200 系列/ STFD200 Serie

STF
HYDRAULIC TRANSMISSIONS

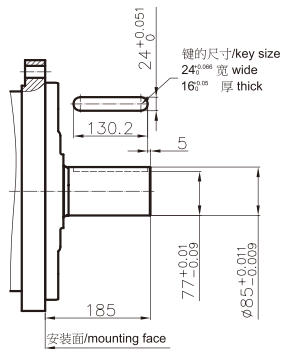
STFDHD200-P72



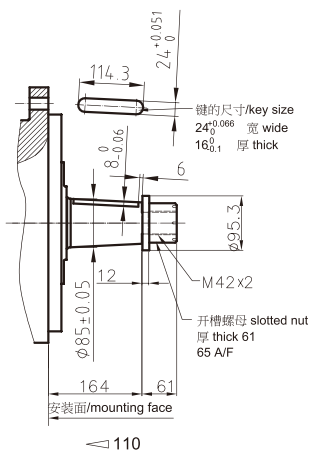
STFD200-P73



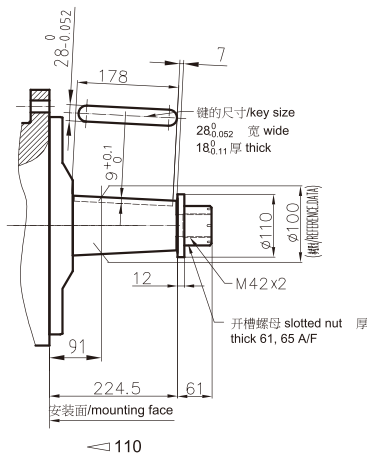
STFD200-P76



STFD200-T73



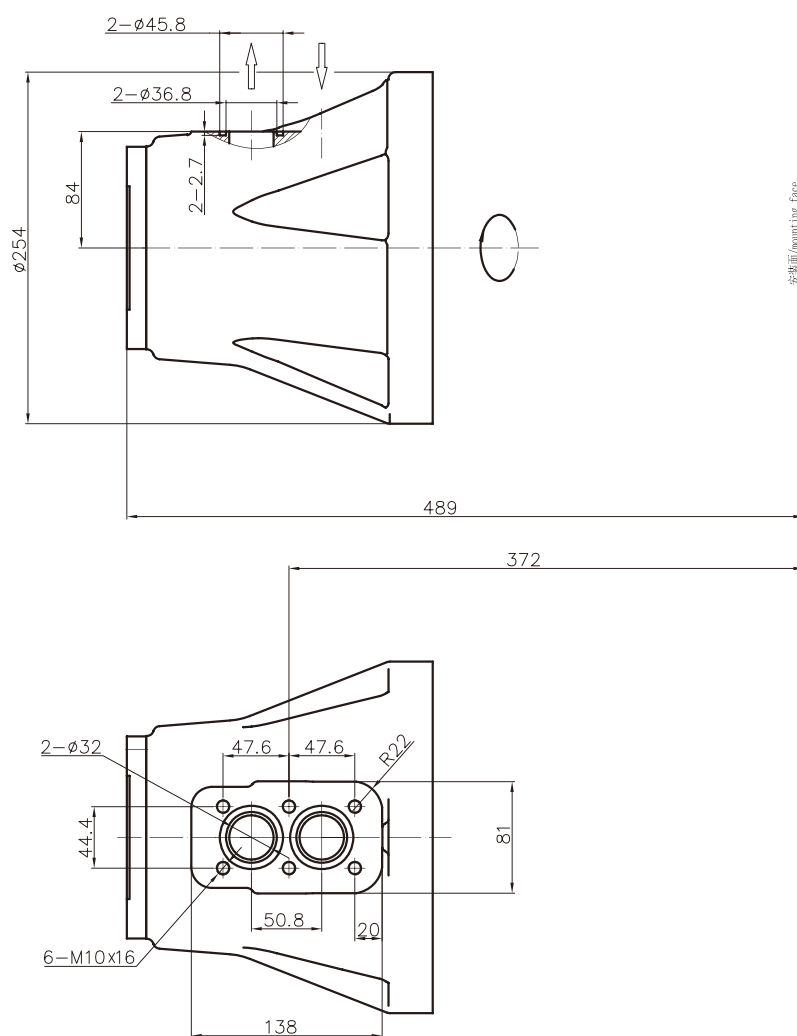
STFDHD200-T75

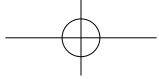


注释: S71*/S72* 为标准花键轴。
Notes: S71*/S72* = Standard Spline Shaft

STFD200外形及安装尺寸/ STFD200 Installation Dimensions

进出油口为F02B的安装尺寸/ F02B Distributor



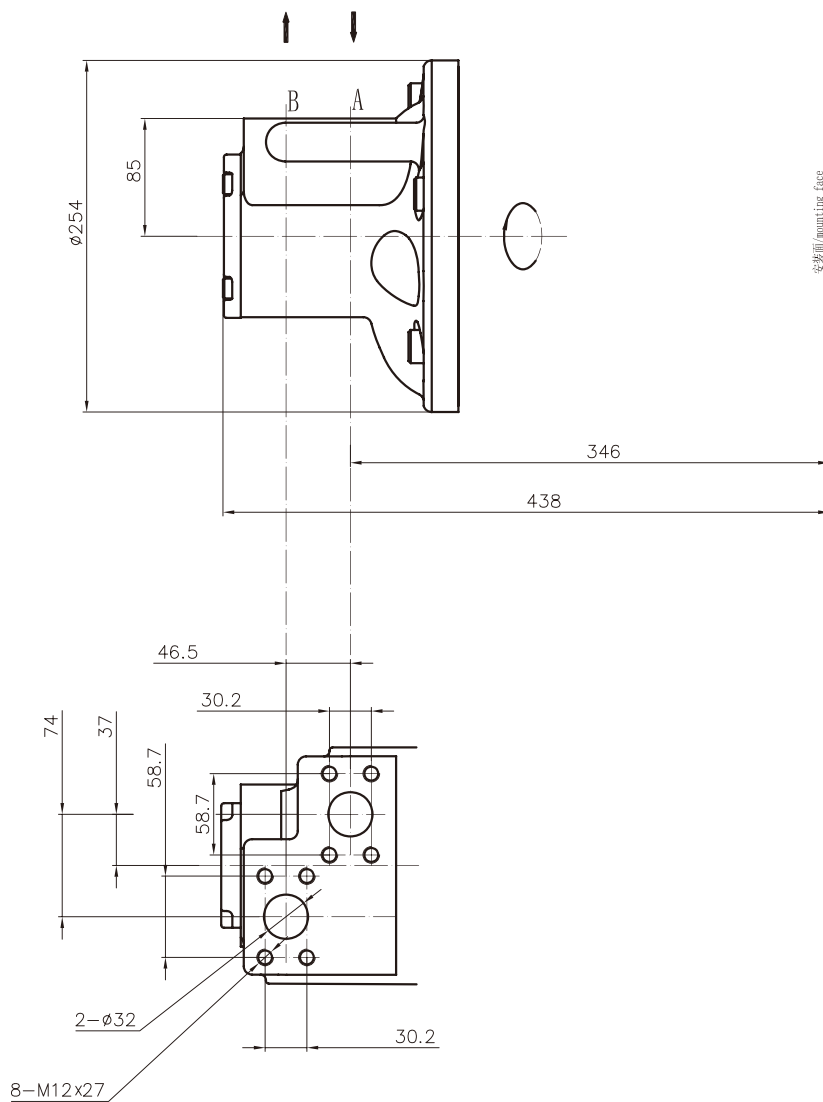


STFD200 系列/ STFD200 Serie

STF
HYDRAULIC TRANSMISSIONS

STFD200外形及安装尺寸/ STFD200 Installation Dimensions

进出油口为F01的安装尺寸/ F01 Distributor



ITM

ITMS

STFC

STFD

CRM-HA

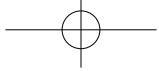
CRM-HB

CRM-PS

SMA6V

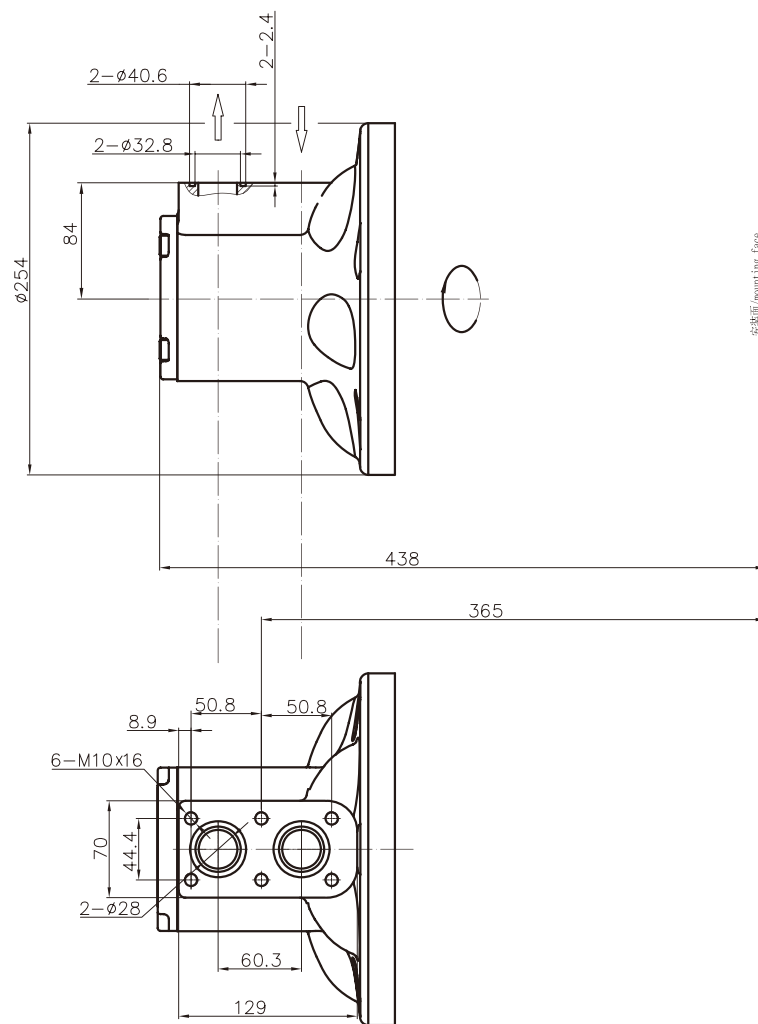
SMA2F

OMZ



STFD200外形及安装尺寸/ STFD200 Installation Dimensions

进出油口为F01B的安装尺寸/ F01B Distributor



STFD270 系列/STFD270 Serie



技术参数表/ Technical Parameter

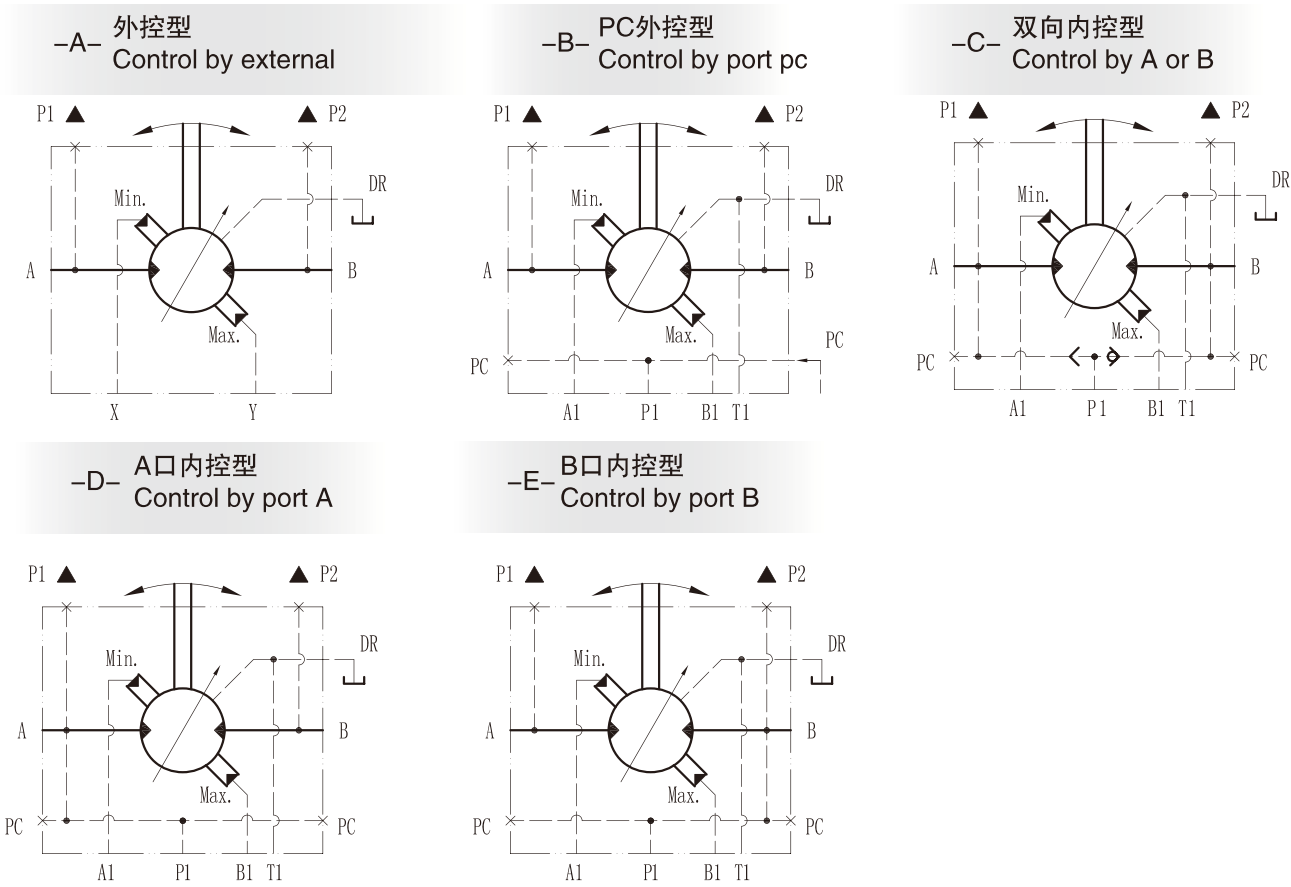
名义排量 Nominal Displacement 编码标识 Ordering Code 3 4	ml/r	4600	4100	3600	3300	3000	2600	2300	1900	1600	1400	970	680	500	340	170
排量 Displacement	ml/r	4597	4086	3632	3291	2951	2610	2270	1930	1646	1362	965	681	500	340	170/0
单位扭矩 Unit Torque	N.m/MPa	657	585	514	460	419	356	310	259	210	168	108	73	47	24	0
最高转速 Max. Speed	r/min	108	120	135	145	165	180	215	240	290	315	315	315	315	315	900
额定功率 Rated Power	KW	123	115	104	97	90	83	76	68	59	48	37	25	18	8	0
最大功率 Max. Power	KW	153	149	142	136	129	122	112	102	91	81	68	47	32	12	0
额定压力 Rated Pressure	MPa	23	23	23	23	23	23	23	23	23	23	23	23	23	23	1.5
最高压力 Max. Pressure	MPa	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	1.5

* STFD270排量的选择范围 / Displacement Options

大排量为 / Large Displacement: 4600, 4100, 3600, 3300

小排量为 / Small Displacement: 3300, 3000, 2600, 2300, 1900, 1600, 1400, 970, 680, 500, 340, 170, 0

控制原理图/Control Schematic(编码标识/Ordering code 8):



技术参数表/ Technical Parameter

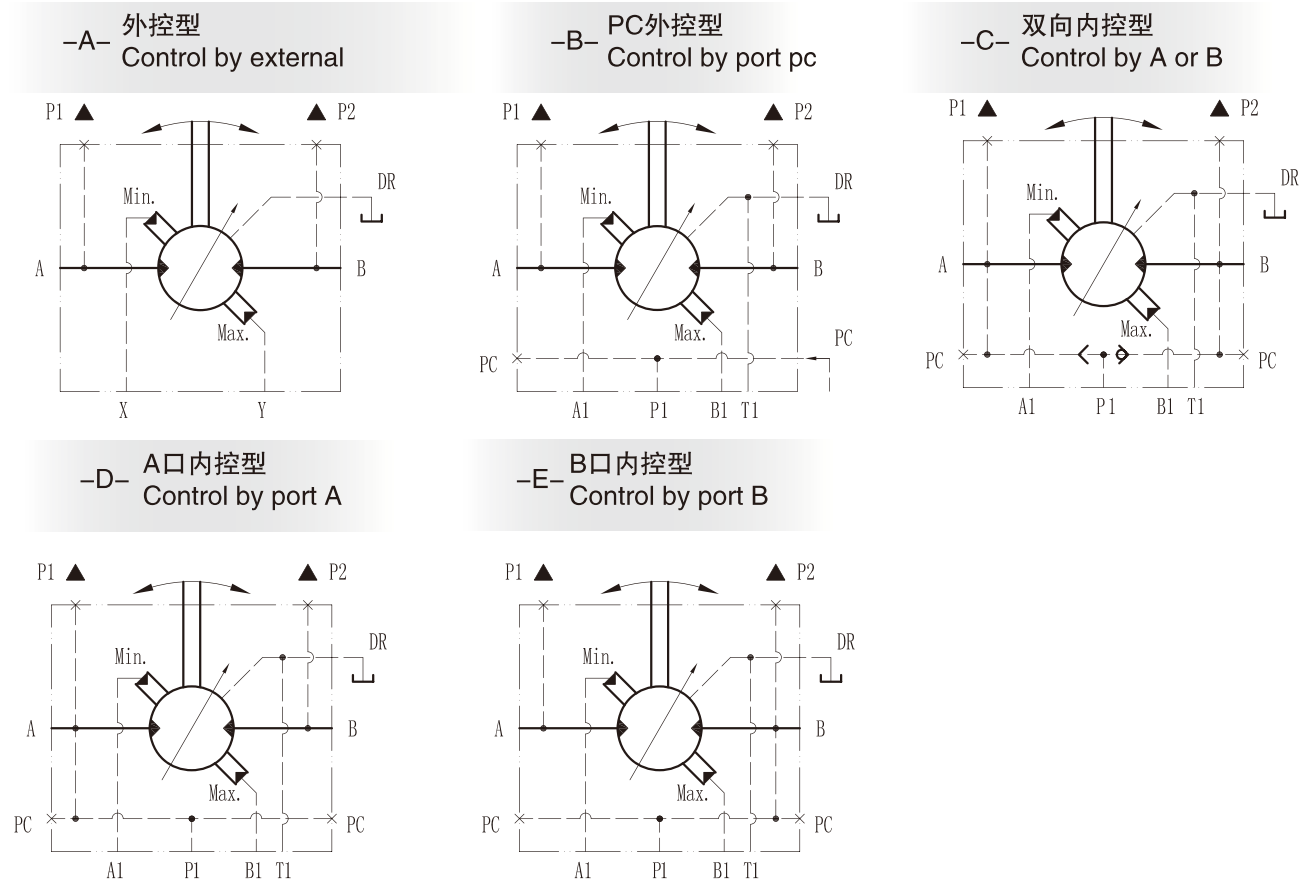
名义排量 Nominal Displacement 编码标识 Ordering Code 3 4	ml/r	5300	5100	4900	4600	4100	3600	3300	3000	2600	2300	1900	1600	1500	1400	970	680	500	340	170
排量 Displacement	ml/r	5335	5108	4937	4597	4086	3632	3291	2951	2610	2270	1930	1646	1532	1362	965	681	500	340	170/0
单位扭矩 Unit Torque	N.m/Mpa	763	731	706	706	657	514	460	419	356	310	259	210	196	168	108	73	47	24	0
最高转速 Max. Speed	r/min	90	105	110	110	108	135	145	165	180	215	240	290	315	315	315	315	315	315	900
额定功率 Rated Power	KW	123	123	123	123	123	104	97	90	83	76	68	59	54	48	37	25	18	8	0
最大功率 Max. Power	KW	153	153	153	153	153	142	136	129	122	112	102	91	87	81	68	47	32	12	0
额定压力 Rated Pressure	MPa	23	23	23	23	23	23	23	23	23	23	23	23	23	1.5	23	23	23	23	1.5
最高压力 Max. Pressure	MPa	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	1.5

* STFD325排量的选择范围 / Displacement Options

大排量为 / Large Displacement: 5300, 5100, 4900, 4600, 4100;

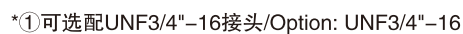
小排量为 / Small Displacement: 3600, 3300, 3000, 2600, 2300, 1900, 1600, 1500, 1400, 970, 680, 500, 340, 170, 0

控制原理图/Control Schematic(编码标识/Ordering code 8):



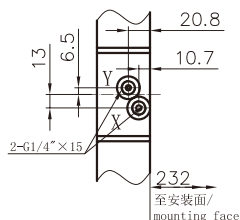


STF
HYDRAULIC TRANSMISSIONS

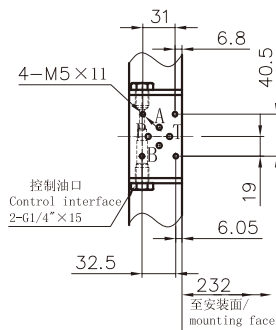


变量控制方式的安装尺寸/Variable Control Dimensions (编码标识/Ordering code 8)

A 的安装尺寸/Dimensions

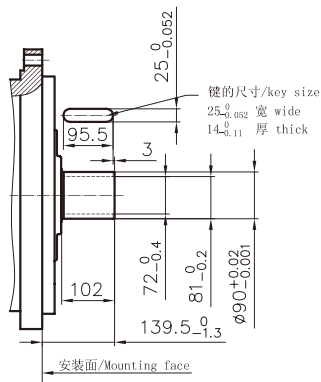


B&C&D 的安装尺寸/Dimensions

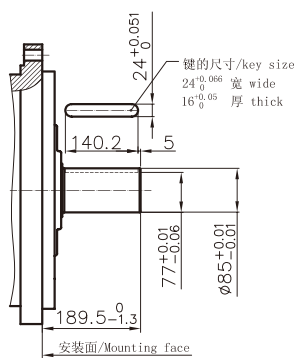


STFD270&STFD325 输出轴的安装尺寸/Shaft Options (编码标识/Ordering code 5)

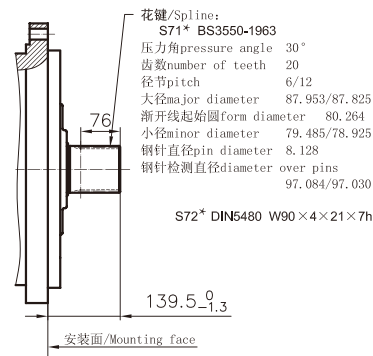
STFD270/STFD325-P71



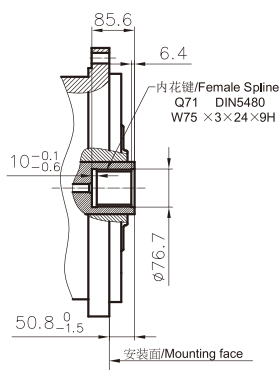
STFD270/STFD325-P73



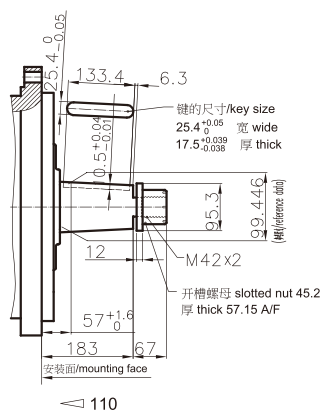
STFD270/STFD325-S71*&S72*



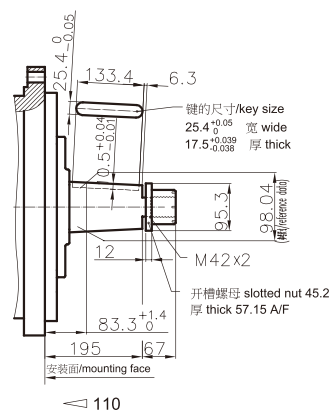
STFD270/STFD325-Q71



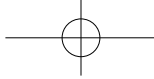
STFD270/STFD325-T71



STFD270/STFD325-T72



注释: S71*/S72* 为标准花键轴。
Notes: S71*/S72*= Standard Spline Shaft

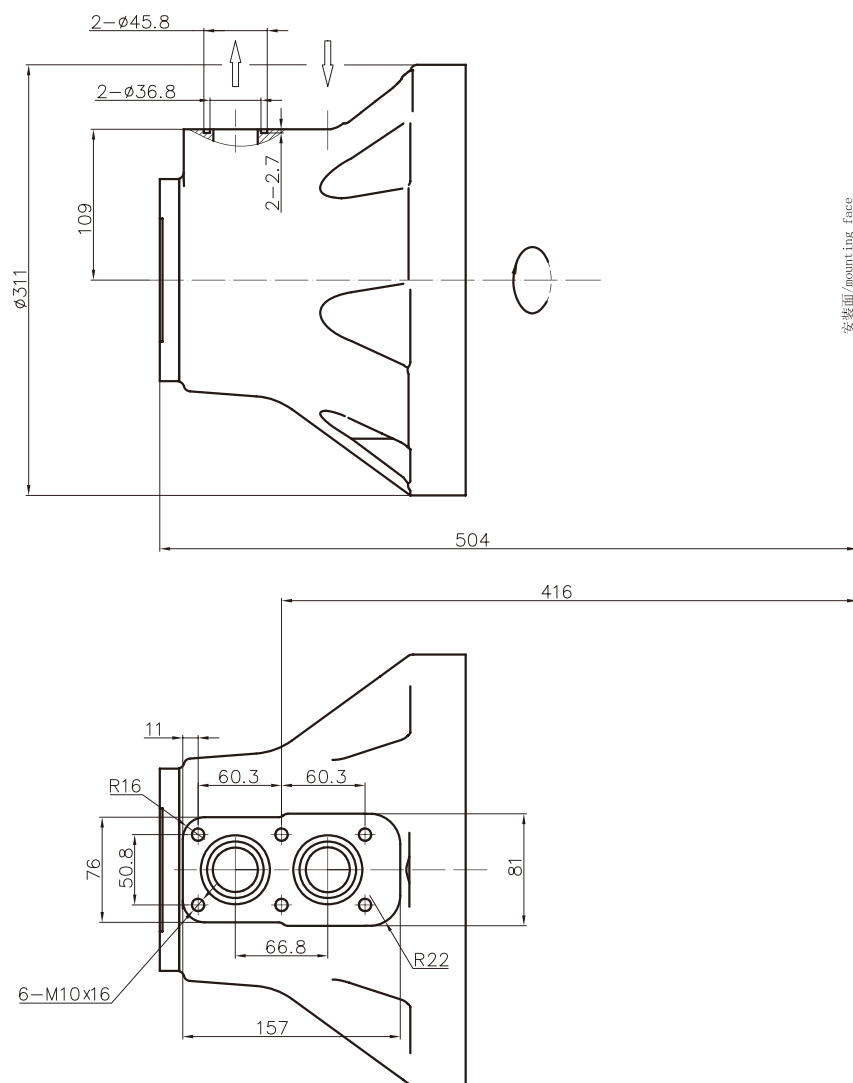


STFD270/325 系列/STFD270/325 Serie

STF
HYDRAULIC TRANSMISSIONS

STFD270/325外形及安装尺寸/ STFD270/325 Installation Dimensions

进出油口为F03B的安装尺寸/ F03B Distributor



ITM

ITMS

STFC

STFD

CRM-HA

CRM-HB

CRM-PS

SMA6V

SMA2F

OMZ