



Taizhou Eternal Hydraulic Machine Co.,Ltd.



COMPANY PROFILE



Eternal Hydraulic belongs to Eternal Group, which is a International Well-known Professional Hydraulic Enterprise with 6 Own Manufacturing Bases, and we will complete our 12+ Manufacturing Bases in future 5 years to become the No.1 Hydraulic Alliance Group Enterprise.

Eternal Hydraulic are integrating Design&Develop&Manufacturing&Marketing for Hydraulic Components, and with more than 16+ years experience in Hydraulic Field.

Eternal Hydraulic commit ourselves to the No.1 Global One-Stop Mall in Hydraulic Field, Our products are widely used in Agricultural Machinery, Forestry Machinery, Dump Trucks & Special Vehicles, Municipal Sanitation Machinery, Construction Machinery, Logistics&Forklift Machinery, Industrial Equipment, Mining machinery, Marine Machinery and Military Machinery etc, with 98% Good Quality&Price Feedback from market.











Eternal Hydraulic can be used in all Equipments which need Hydraulic Power.











Eternal Hydraulic keep good cooperative relationship with most of International Well-known Hydraulic Companies to provide best Service to our all regular customers.











Eternal Hydraulic firmly believes that **"Only the Best can Satisfied the Best"**, become the First and Best Purchase Choice of Hydraulic Components in all over the World.





Inviting all ability Partners to join in us to complete **86+** Strategic Partners in all over the World.

S Sectional Valve

Item	Pressure (Mpa)	Flow (L/min)	Spool No.	Spool Function	Position Return Model	Port Size	Control Type
	P40 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	40	1-7	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Electro-hydraulic Pneumatic Cable Solenoid Manual Microswitch
	P40 Microswitch Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	40	1-7	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
	P80 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	80	1-6	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
	P120 (SD18) Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	120	1-4	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
	Z50 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	50	1-7	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Solenoid
	Z80 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	50	1-6	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
	ZT(ZD)-L12 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	50	1-8	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Electro-hydraulic Pneumatic Cable Manual Microswitch
	ZT(ZD)-L15 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	60	1-3	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
	ZDa-L15 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	60	1-10	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
	ZT(ZD)-L20 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	100	1-4	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Pneumatic Manual

Item		Pressure (Mpa)	Flow (L/min)	Spool No.	Spool Function	Position Return Model	Port Size	Control Type
	ZT(ZD)-L102 (ZT-L10) Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	40	1-6	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
	SD4 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	40	1	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
	SD5 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	45	1-6	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Electro-hydraulic Pneumatic Solenoid Manual
	SD11 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	70	1-4	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
	SD14 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	110	1	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
	SD8 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	70	1-10	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Electro-hydraulic Pneumatic Solenoid Manual
	SD180 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	160	1-10	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Pilot Control Pneumatic Manual
	SD25 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	240	1-12	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
	DCV40 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	40	1-8	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Electro-hydraulic Pneumatic Cable Manual Microswitch
	DCV80 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	100	1-4	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Pneumatic Manual

Item	Pressure (Mpa)	Flow (L/min)	Spool No.	Spool Function	Position Return Model	Port Size	Control Type
 DCV60 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	50	1-12	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Electro-hydraulic Pneumatic Manual
 DCV100 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	90	1-14	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
 DCV140 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	130	1-14	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
 DCV200 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	180	1-14	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
 ZS-L10 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	40	1-18	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
 ZS-L20 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	100	1-15	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
 ZS-L25 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	160	1-12	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
 MB2 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	40	1	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
 MB3 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	45	1-6	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Electro-hydraulic Manual Pneumatic Hydraulic
 MB5 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	70	1-6	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual

Item	Pressure (Mpa)	Flow (L/min)	Spool No.	Spool Function	Position Return Model	Port Size	Control Type
 RD5100/ RD5200/ RD5300 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	120	1-3	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
 LKF Series	210bar Mpa	40/ 60/ 114				NPT	
 LVA Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	95	1	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
 JYPM100 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	115	1	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual



MP 80



MP 100



MPC 70.4



MPC63.3 & MPC63.4



MRS50



MRS80



MRS120



MRS320



MRS100LS



P160



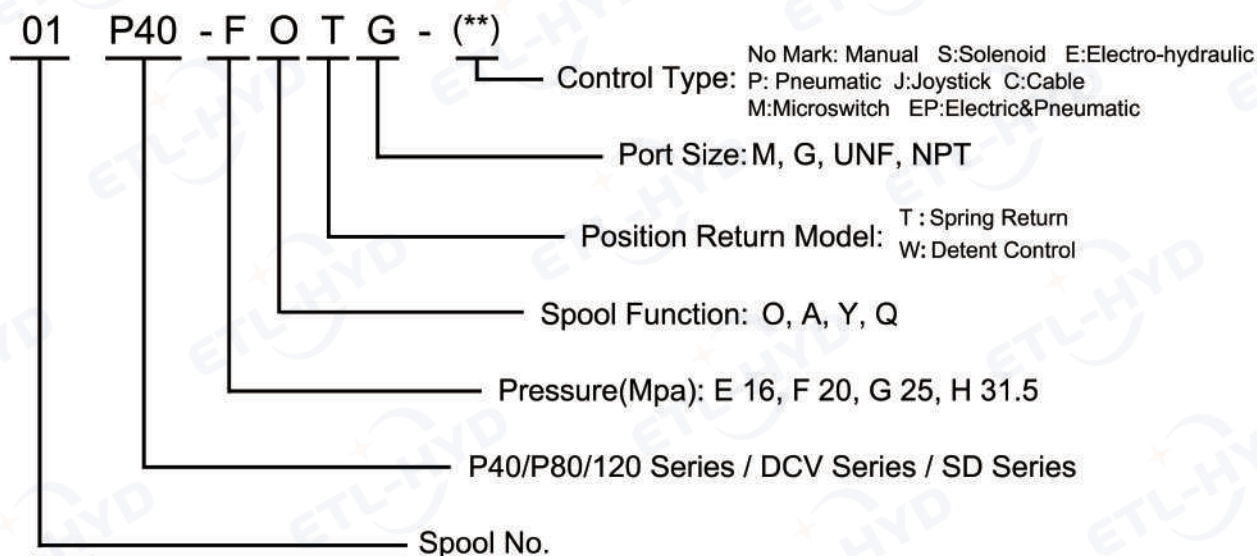
SVV60/SVV90



RV Rotary Diverter Valve



Mode Code



Spool Function Symbols



O Spool Function



Y Spool Function



A Spool Function



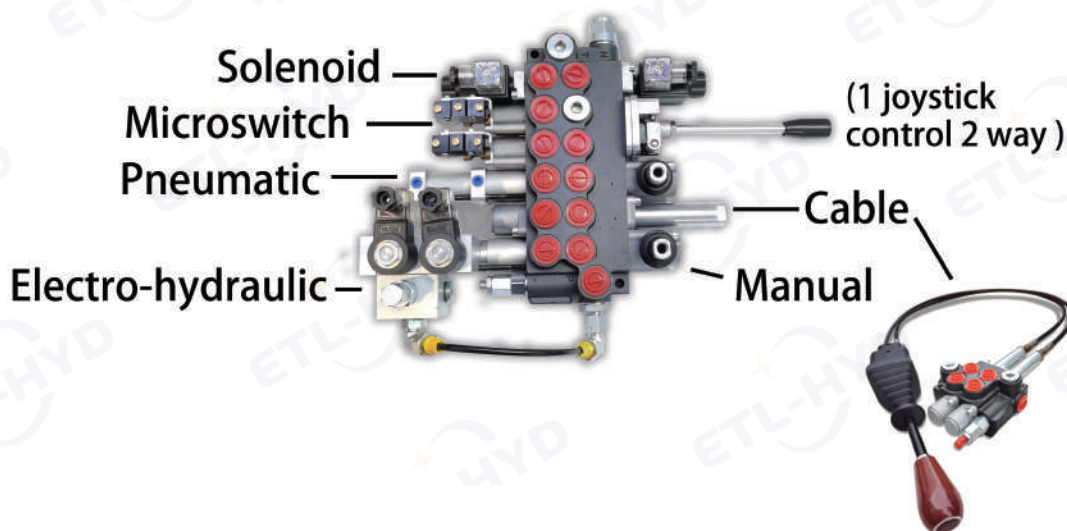
Q Spool Function

Port Size

Flow	M	G	UNF	NPT
≤60L	M18x1.5	G 3/8"	3/4-16 UNF	NPT 3/8"
60-80L	M22x1.5	G 1/2"	7/8-14 UNF	NPT 1/2"
100-140L	M27x2	G 3/4"	1- 1/16-12 UNF	NPT 3/4"
140-160L	M33x2	G 1"	1- 5/16-12 UNF	NPT 1"
160-240L	M42x2	G 1-1/2"	1- 5/8-12 UNF	NPT 1-1/2"

If you need special dimension port size, please consult to our Engineer.

Control Type



Electric-pneumatic





Pallet Truck

Garbage Truck

Dump Truck Covering

Forklift



P10
HPU5-E0.5W1T2/VUSAP1



P11
HPU5-E0.5W1T2/UVTAP2



P12
HPU5-D1.6A9A30/WUCTT2



P13
HPU-F1.6A1W8/1



P14
HPU5-F1.2A1W2/WUAAD9

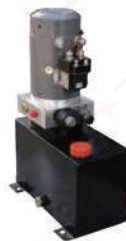
Forklift



P15
HPU5-F1.2A1W1/WUAZD9



P16
HPU5-F1.2A1W2/WUAAG9



P17
HPU5-F1.2B1W2/WUDAN9



P18
HPU5-F2.5B2B2/WUDBT1



P19
HPU5-F3.2E2P900/WUDBT15

Lift Table



P20
HPU5-F2.5E3H2/LCCAG1



P21
HPU5-F1.6B3G2/LCAAD1



P22
HPU5-F2.1B3G2/LBUAN1



P23
HPU5-E8L4J2/TCDBT1



P24
LPU-E15P4J2/TKDAZ1

Tipper Trailer



P25

HPU5-F2.1E1W27/WUCAT1



P26

HPU5-F2.1E1W2/WUCAD1/RC



P27

HPU5-F2.1B1W61/WUAAT1/RC



P28

HPU5-F2.1A1A161/WUUTT1



P29

HPU5-E2.1B4E10/LBAPT1

Dock Levler



P30

HPU5-E2.1B4E80/LBAOT1



P31

HPU5-E2.1A4E81/LBAPT1



P32

HPU5-E2.1B4E82/MBAPT1



P33

HPU5-E2.1A4E84/LBAPT1



P34

HPU5-E2.1B4E180/LBUBT1

Dock Levler



P35

HPU5-D3.2A4E81/TBTBO1



P36

HPU6-F2.1D3H1/ACBOA1



P38

HPU5-F0.8B5F1/ALVOT1



P40

HPU5-F2.7D4H202/ACQIT1



P42

HPU5-G3.2D4H2/TBTIT1

Auto Lift

Double Scissor Lift

Scissor Lift



P44

HPU5-F2.7C3G30/LBAAN1



P45

HPU5-G2.1J3H30E/MCDBN2



P46

HPU-H2.7D4I310A/AMQIT1



P48

HPU5-F2.1G4H2/ACDBT1



P49

HPU5-F2.1G4H2/ACDBN1

Portable Scissor Lift



P50

HPU5-F0.32Z5D195/TLLFT1

Tire Changer



P51

HPU5-F2.1B4G40/MNVBE1

Trash compactor



P53

HPU5-C4.2/F1.2A19F305/LKABT1

Double Acting



P54

HPU5-F2.1A1W209/WUAAC1



P55

HPU5-F1.2A1W4/WUAAN1

RV Power Units



P56

HPUS-E0.5S1T101/1

Electric Basketball Stands



P57

HPU5-F1.6B3E42/1

Wheelchair Lift



P58

HPU-D0.63S1T48/1

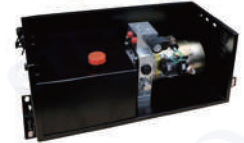
Snow Plow



P59

HPU5-E1.2Y1W514/WUAAT1

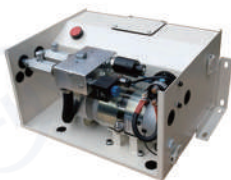
Tailgate Lift



P60

HPU5-E2.5E2M30/WUCBO1

Tailgate Lift



P61

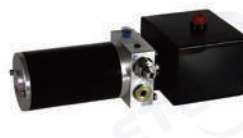
HPU5-E2.5D2A70A/WUABT1



P62

HPU5-E2.5E2A70C/WUCBO1

Medical Care Equipment



YBZ5-C0.32W2X0/UUROT1

Single Mast High Altitude Working Vehicle



AC Motor Pump Station



AMP-2AE4-4GNB-B

DC Motor Pump Station



DMP-1SF3.2-2BXU-A



DMP-RE1.8-1WWU-A



DMP-SRF1.8-1WWU-A



DMP-CNF6/4-2PTT-A

HL CB- D ** /** L * * *

Shaft
B: Flat Shaft E: Straight Shaft S: Spline Shaft

Oil Port
F: Flange L: Screw

Mounting
A: Oval C: Rectangle

Rotation
L: Left R: Right

Normal Displacement (mL/r)
06, 08, 10, 12, 14, 16, 20, 25

Constant Flow Capacity

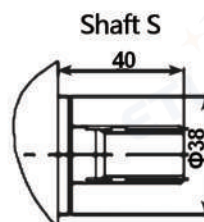
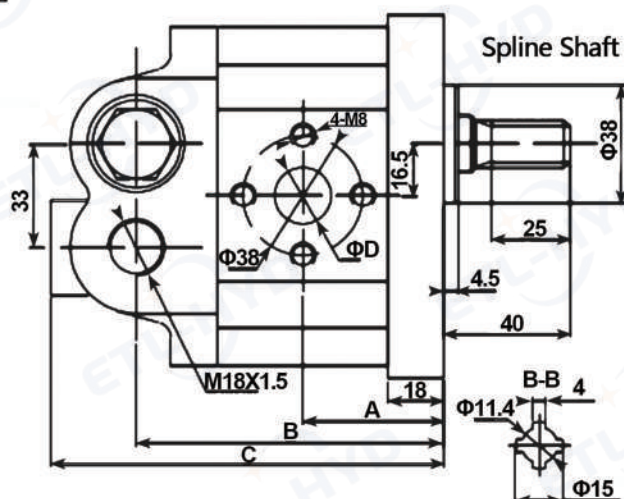
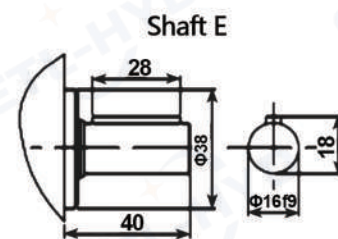
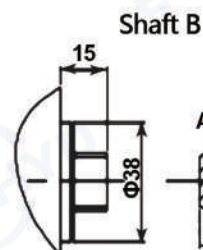
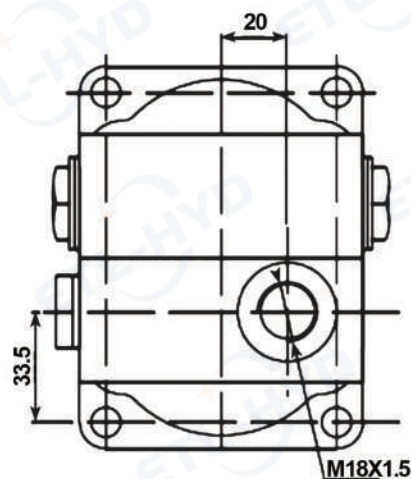
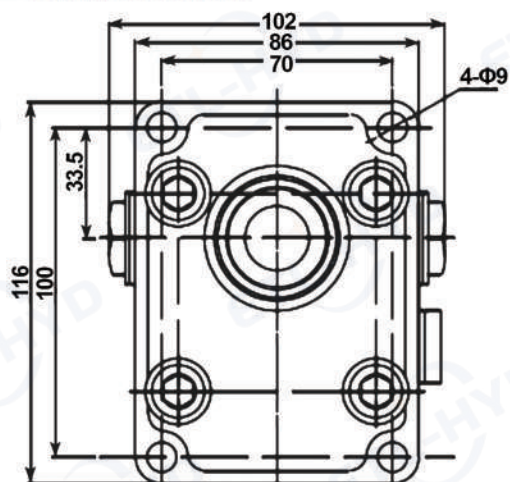
Product System No.
D: Back Port C: Side Port

Gear Pump Code

Constant Flow Pump Code



Dimension



Normal Displacement	A	B	C	D
06	47	102	160	Φ14
08	48.25	104.5	162.5	
10	49.75	107.5	165.5	
12	51.75	111.5	169.5	
14	52.85	113.5	171.7	Φ18
16	54.25	116.5	174.5	
20	57.25	122.5	180.5	
25	61.25	130.5	188.5	

Product Intruduction

Fm系列同步马达能为车辆、农业、材料处理和设备制造行业提供稳定可靠的同步解决方案，作为一种马达它有如下功能：并联油缸或液压马达的同步操作；在单泵供油的场合，可一定比例向多个油路分配流量；当压力需高于泵的工作压力时可以进一步提高压力值。

FM series synchronous motors can provide stable and reliable synchronous solutions for vehicle, agriculture, material processing and equipment manufacturing industries. As a motor, they have the following functions: synchronous operation of parallel cylinders or hydraulic motors; flow distribution to multiple oil pipelines in a certain proportion in the case of single pump oil supply; when the pressure is higher than that of pumps. Work pressure can be further increased.

Ordering Code

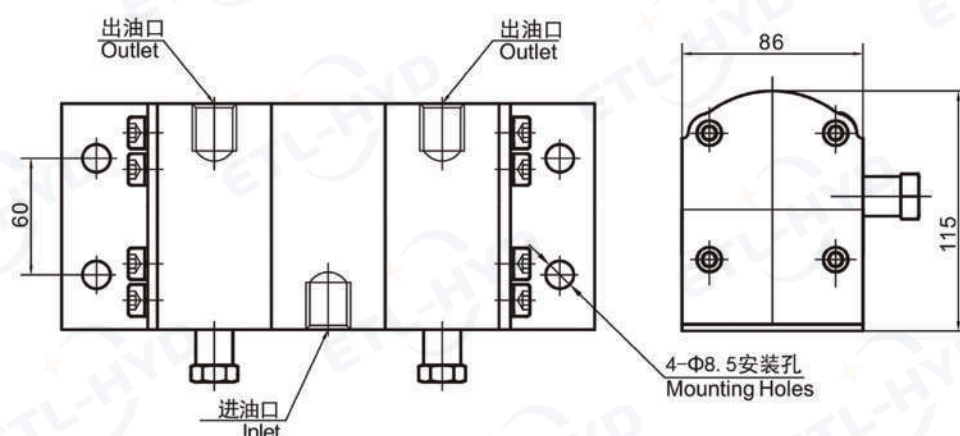
FMA - * * * * - *

① ② ③ ④ ⑤

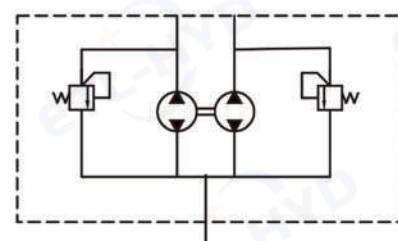
- ① 分配室数目 Number of section: 2、3、4、5、6
- ② 溢流阀 relief valve: R带溢流阀 With relief valve
N不带溢流阀 Without relief valve
- ③ 分配室排量 Displacement of each section: 0.061-0.5370 in³/r 1.0-8.8cc/r
- ④ 油口形式 Ports configuration: 公制油口 M Ports PT油口 PT Ports G管螺纹 BSPP Ports
- ⑤ 细节描述 Detailed description

Outline Dimension

1、FMA- 2 * * * - *



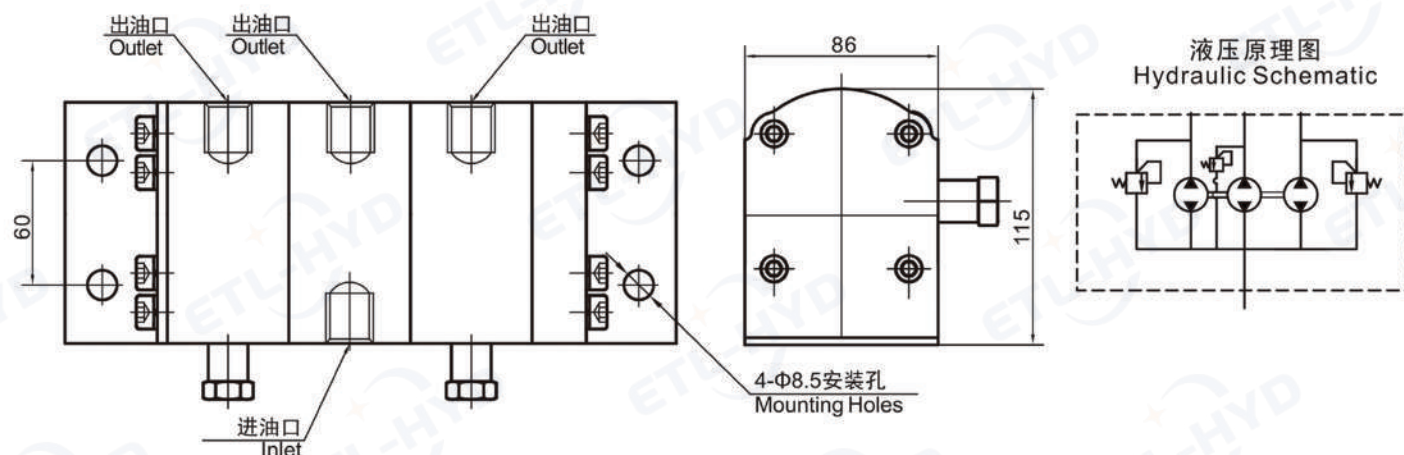
液压原理图
Hydraulic Schematic



Specification

型号 Model	排量 (ml/r)	最小进口流量 750rpm (L/M)	标准进口流量 1500rpa (L/M)	最大进口流量 3000rpa (L/M)	出油口 最大压力 (Mpa)	油口	
						进油口 Inlet	出油口 Outlet
FMA-2*2.1*	2.17	3.26	6.51	13.02	25	M27 × 2 G1/2 PT1/2	M18 × 1.5 G3/8 PT3/8
FMA-2*3*	3.18	4.77	9.54	19.08			
FMA-2*4.2*	4.34	6.51	13.02	26.04			
FMA-2*6.3*	6.37	9.56	19.11	38.22			
FMA-2*8.8*	8.82	13.23	26.46	52.92			

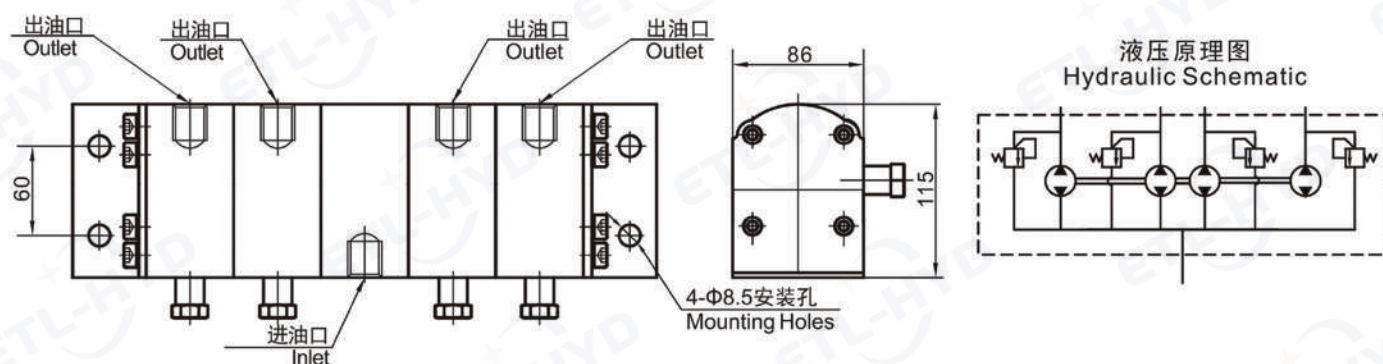
2、FMA- 3 * * * - *



■ Specification

型号 Model	排量 (ml/r)	最小进口流量 750rpm (L/M)	标准进口流量 1500rpa (L/M)	最大进口流量 3000rpa (L/M)	出油口 最大压力 (Mpa)	油口	
						进油口 Inlet	出油口 Outlet
FMA-3*2.1*	2.17	4.89	9.46	18.62	25	M27 × 2 G1/2 PT1/2	M18 × 1.5 G3/8 PT3/8
FMA-3*3*	3.18	7.2	14	28			
FMA-3*4.2*	4.34	9.7	19.32	38			
FMA-3*6.3*	6.37	14.34	28.1	55.9			
FMA-3*8.8*	8.82	20	41	82			

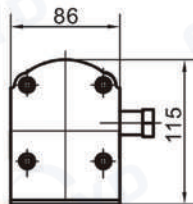
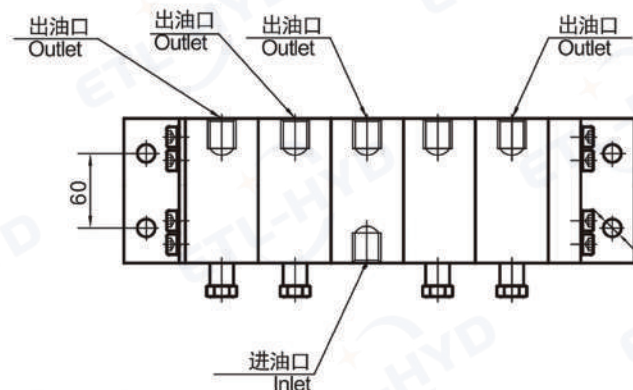
3、FMA- 4 * * * - *



■ Specification

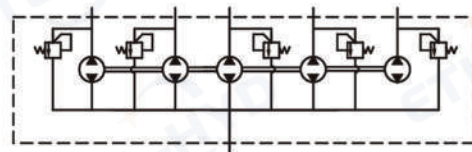
型号 Model	排量 (ml/r)	最小进口流量 750rpm (L/M)	标准进口流量 1500rpa (L/M)	最大进口流量 3000rpa (L/M)	出油口 最大压力 (Mpa)	油口	
						进油口 Inlet	出油口 Outlet
FMA-4*2.1*	2.17	6.51	13.2	26.04	21	M33 × 2 G3/4 PT3/4	M18 × 1.5 G1/2 PT1/2
FMA-4*3*	3.18	9.54	19.08	38.16			
FMA-4*4.2*	4.34	13.02	26.04	52.08			
FMA-4*6.3*	6.37	19.11	38.22	76.44			
FMA-4*8.8*	8.82	26.46	52.92	105.84			

4、FMA- 5 *** - *



4-Φ8.5安装孔
Mounting Holes

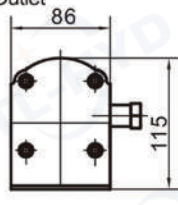
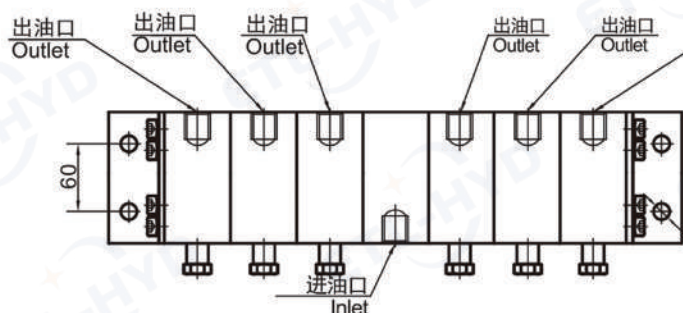
液压原理图
Hydraulic Schematic



Specification

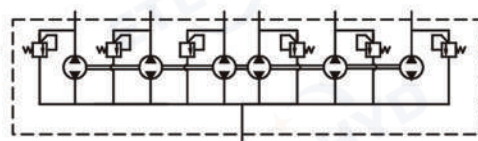
型号 Model	排量 (ml/r)	最小进口流量 750rpm (L/M)	标准进口流量 1500rpa (L/M)	最大进口流量 3000rpa (L/M)	出油口 最大压力 (Mpa)	油口	
						进油口 Inlet	出油口 Outlet
FMA-5*2.1*	2.17	8.15	16.2	32.08	21	M33×2 G1 PT1	M18×1.5 G3/8 PT3/8
FMA-5*3*	3.18	11.9	23.8	47.6			
FMA-5*4.2*	4.34	16.3	32.6	65			
FMA-5*6.3*	6.37	23.88	47.7	95.5			
FMA-5*8.8*	8.82	33.07	66.1	132.1			

5、FMA- 6 *** - *



4-Φ8.5安装孔
Mounting Holes

液压原理图
Hydraulic Schematic



Specification

型号 Model	排量 (ml/r)	最小进口流量 750rpm (L/M)	标准进口流量 1500rpa (L/M)	最大进口流量 3000rpa (L/M)	出油口 最大压力 (Mpa)	油口	
						进油口 Inlet	出油口 Outlet
FMA-6*2.1*	2.17	9.45	18.89	37.8	21	M33×2 G1 PT1	M18×1.5 G3/8 PT3/8
FMA-6*3*	3.18	14.31	28.6	57.2			
FMA-6*4.2*	4.34	19.53	39	78			
FMA-6*6.3*	6.37	28.6	57.2	114.4			
FMA-6*8.8*	8.82	39.6	79.4	158.7			

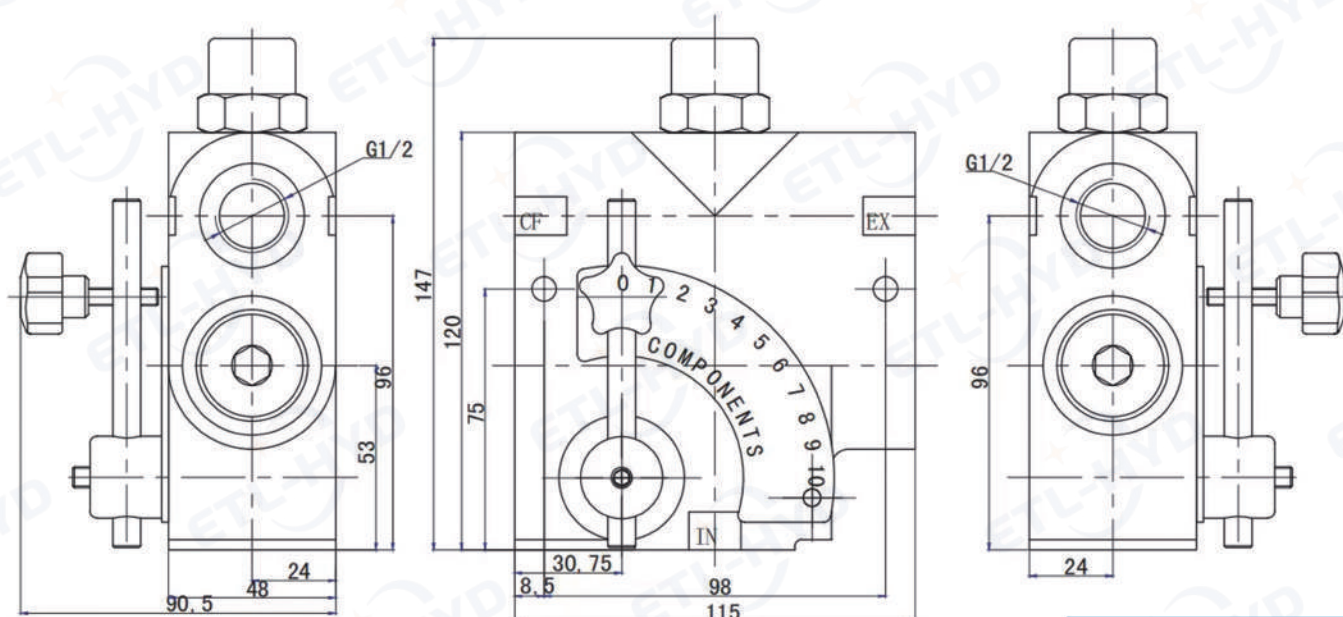


LKF model is a full range pressure compensating variable flow control. It is designed so that the orifice area varies as the lever is rotated. The outlet flow is smooth and constant regardless of the pressure on the control flow or excess flow ports. An adjustable ball spring relief valve allows for pressure compensated how up to the pressure setting on the relief valve. Relief valves are preset at 1500psi and filed adjustable from 750 to 3000psi.

Parameters

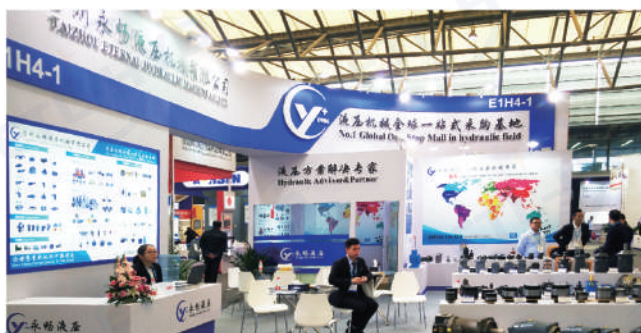
型号 Model	油口尺寸 Oil Port	流量 Flow(gpm)	公称压力 (bar) Standard Pressure
LKF-40-3/8NPT	3/8" -NPT	0-30L/min (0-8gpm)	210
LKF-60-1/2NPT	1/2" -NPT	0-60L/min (0-16gpm)	
LKF-114-3/4NPT	3/4" -NPT	0-114L/min (0-30gpm)	

Models LKF-60 Dimension Data





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