

Two or several gear motors can be combined to flow divider after being connected by coupling. It guarantees synchronous operation and accuracy of power element like cylinder (Its principle drawing is as follows), hydraulic liquid from the pipe is input into the inlet port and the same amount liquid is distributed to the outlet port by the rotation of gears that with same specification. Obviously, accuracy of flow divider is up to accuracy of gears and relative spare parts.

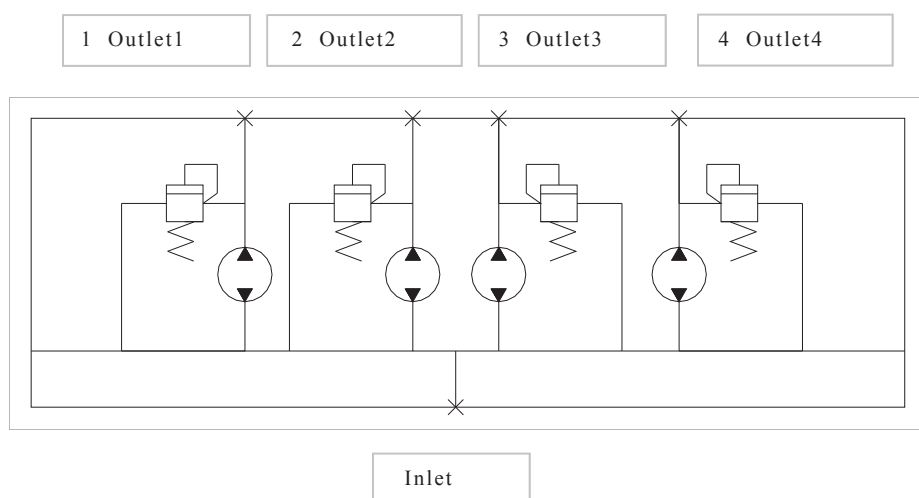
ITAHYDRAULIC has two series for flow divider 1FDF, 2FDF and 3FDF. Flow accuracy and pressure loss are as follows:

ITAHYDRAULIC: 1FDF、2FDF and 3FDF

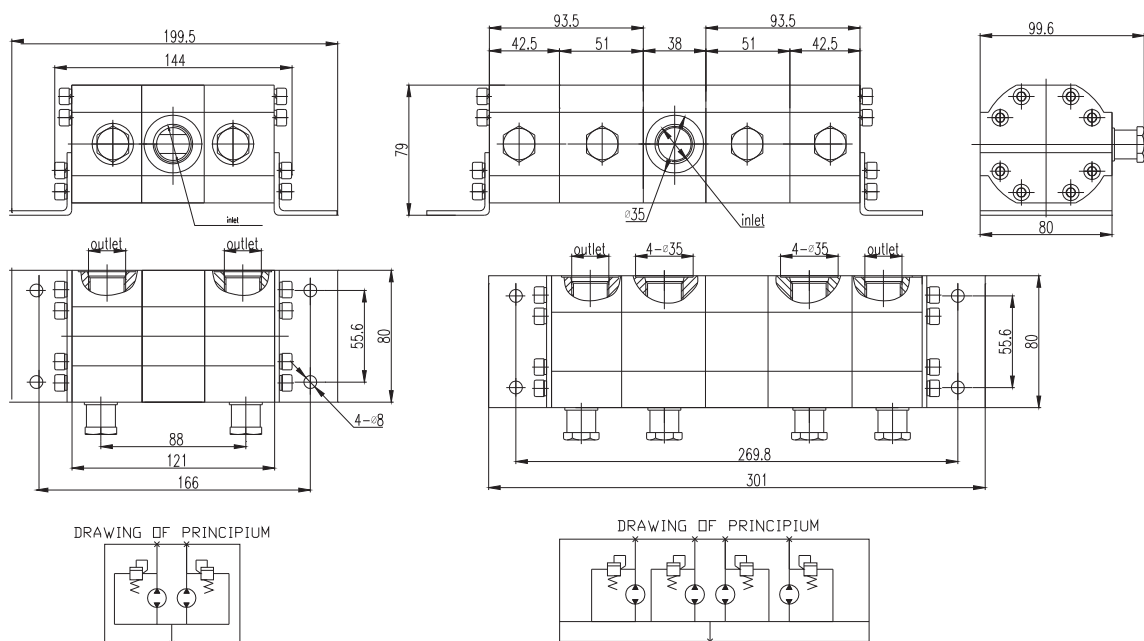
Type	Flow Accuracy	Pressure Drop
1FDF	$\pm 1.5\%—\pm 2\%$	16-19bar
2FDF	$\pm 1.5\%—\pm 2\%$	11-14bar

It should be noted that flow accuracy is also related to the factors below: System pressure, viscosity of hydraulic liquid, load that each power unit bears and overall flow. These factors should be taken into account at time of application.

Flow divider can be integrated with relief valve, check valve and governor valve, protecting system pressure and filling the oil. For specific requirements, please contact ITAHYDRAULIC.

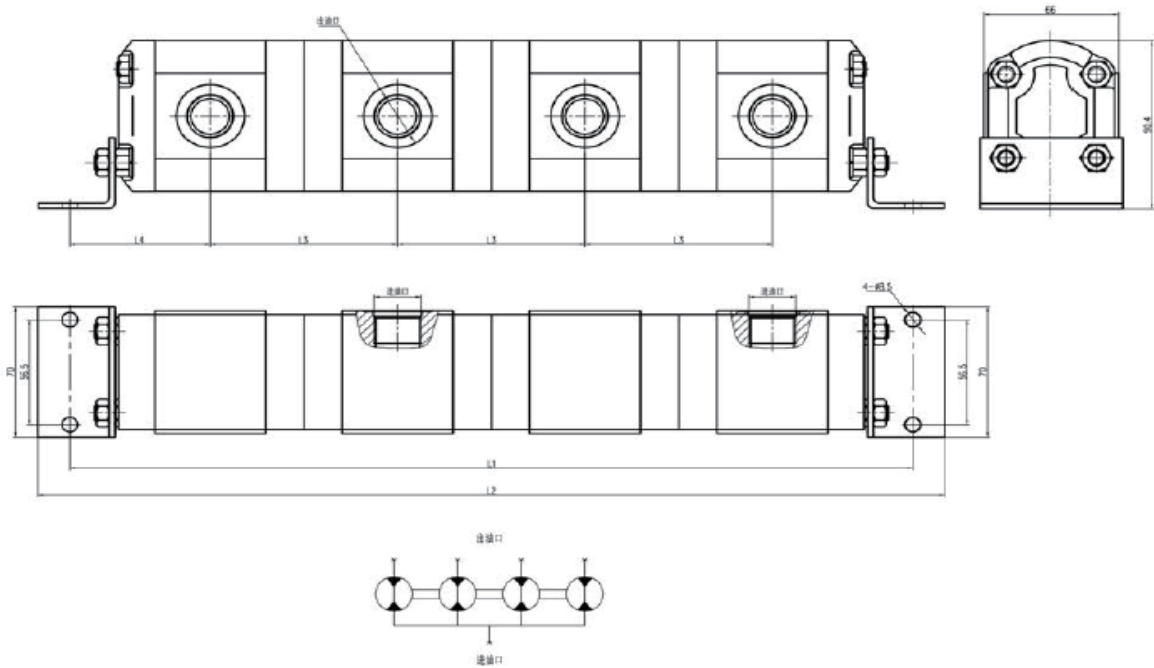


Displacement		SAE Port		Minimum Flow		Maximum Flow		Cont. Diff Between Pressure Inlet		Maximum Outlet Pressure any Section	
in ³	cm ³	inlet	outlet	gpm	lpm	gpm	lpm	psi	bar	psi	bar
0.09	1.50	sae6	sae6	0.8	3.0	1.7	6.4	1800	124	3500	240
0.12	2.00	sae8	sae8	1.2	4.5	2.5	9.5	1800	124	3500	240
0.18	3.00	sae8	sae6	1.7	6.4	4.5	13.2	1800	124	3500	240
0.24	4.00	sae10	sae10	2.5	9.5	5	18.9	1800	124	3500	240
0.37	6.00	sae10	sae10	3.0	11.4	6.0	22.7	1800	124	3500	240
0.39	6.50	sae10	sae10	3.5	13.2	7.0	26.5	1600	110	3500	240
0.43	7.00	sae10	sae10	4.0	15.1	8.0	30.3	1300	90	3500	240
0.49	8.00	sae10	sae10	4.5	17.0	9.0	34.1	1200	83	3500	240



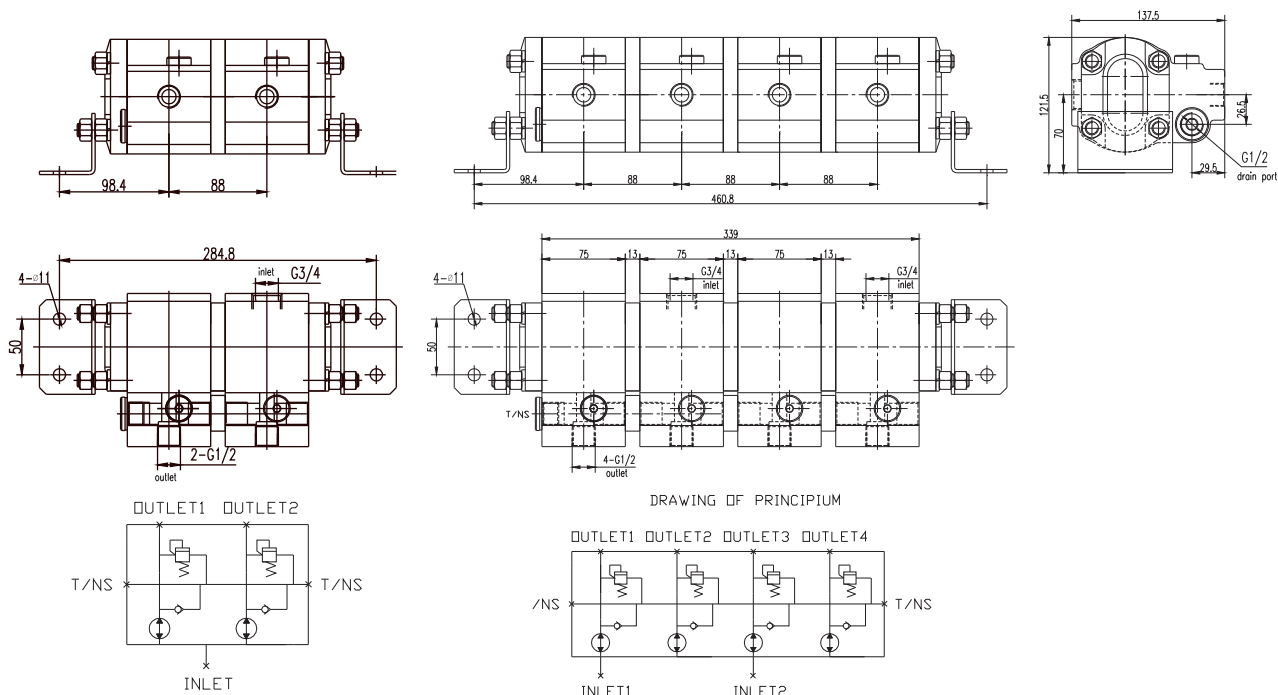
Ordering Code					
1	FD	F	04	L35	-2/4
Model1	Function	Pressure Level	Displacement	Inlet/Outlet Combination	Number of Section
Group 1	Flow Divider	16~25 Mpa	4ml/r	L35 etc. Reference Accessory 1	-2/4 Section

Displacement	SAE Port 口	Minimum Flow	Maximum Flow	Cont. Diff Between Pressure Inlet/Outlet
2.0	382.8	414	84	65.2
3.0	394.8	426	87	66.7
4.0	406.8	438	90	68.2
5.0	418.8	450	93	69.7
6.0	430.8	462	96	71.2
7.0	442.8	474	99	72.7



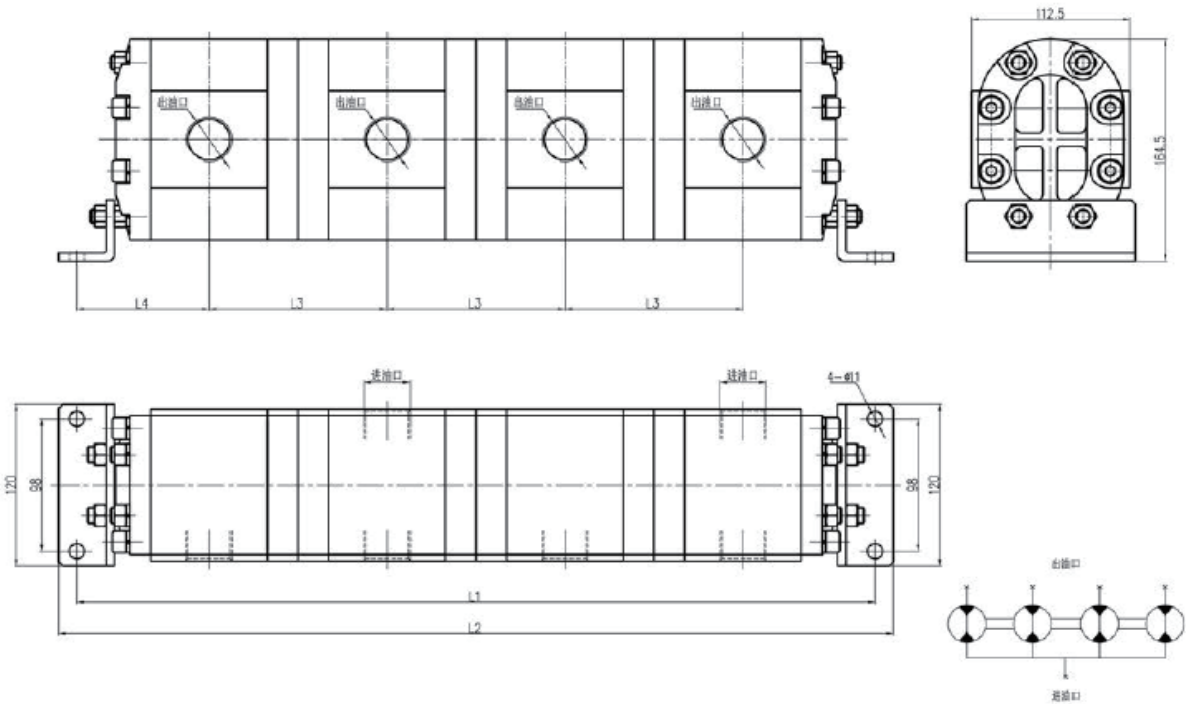
Ordering Code							
1	AFD	FD	F2	04	L04	-4	-1
Model	Function	Function	Pressure Level	Displacement	Inlet/Outlet Combination	Number of Section	Number of Inlet
Group1	Flow Divider	Flow Divider	16~25Mpa	2ml/r	Reference Accessory 1		

Displacement		SAE Port SAE			Minimum Flow (sec)		Maximum Flow (sec)		Cont. Diff Between Pressure Inlet/Outlet		Maximum Outlet Pressure any Section	
in ³	cm ³	inlet	outlet	drain	GPM	LPM	GPM	LPM	PSI	BAR	PSI	BAR
0.37	6	G3/8	G1/2	G3/8	0.8-4.2	3.0-16	4.8	18	3142	220	3571	250
0.49	8	G3/8	G1/2	G3/8	1.1-5.0	4.0-19	5.8	22	3142	220	3571	250
0.73	12	G3/8	G1/2	G3/8	1.5-6.6	5.5-25	7.1	27	3142	220	3571	250
0.85	14	G3/8	G1/2	G3/8	1.8-8.4	7.0-32	9.0	34	2857	200	3142	220
1.03	17	G3/8	G1/2	G3/8	2.2-9.0	8.5-34	9.8	37	2857	200	3142	220
1.22	20	G3/8	G1/2	G3/8	3.1-12.7	12-48	14	53	2857	200	3142	220
1.89	31	G3/8	G1/2	G3/8	3.7-15.9	14-60	18.5	70	2286	160	2571	180



Ordering Code					
2	FD	F	04	L35	-2/4
Model	Function	Pressure Level Code	Displacement	Inlet/Outlet Combination	Number of Section
Group2	Flow Divider	16~25 Mpa	8 ml/r	L35 etc, Reference Accessory 1	-2/4 Section

Displacement ml/r)	L1/mm	L2/mm	L3/mm	L4/mm
20	552.4	578.4	122.5	92.3
27	582.4	608.4	130.0	96.0
38	610.4	636.4	137.0	99.5
55	636.4	662.4	143.5	102.8
60	668.4	694.4	151.5	106.8
70	696.4	722.4	158.5	110.3



Ordering Code						
3	FD	F	60	L71	-4	-1
Model	Function	Pressure Level	Displacement	Inlet/Outlet Combination	Number of Section	Number of Inlet
Group3	Flow Divider	16~25 Mpa	60 ml/r	Reference Accessory 1		