

FLOW DIVIDER

Introduction of Flow Divider

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.

GRH has two series for flow divider 1FDF and 2FDF.

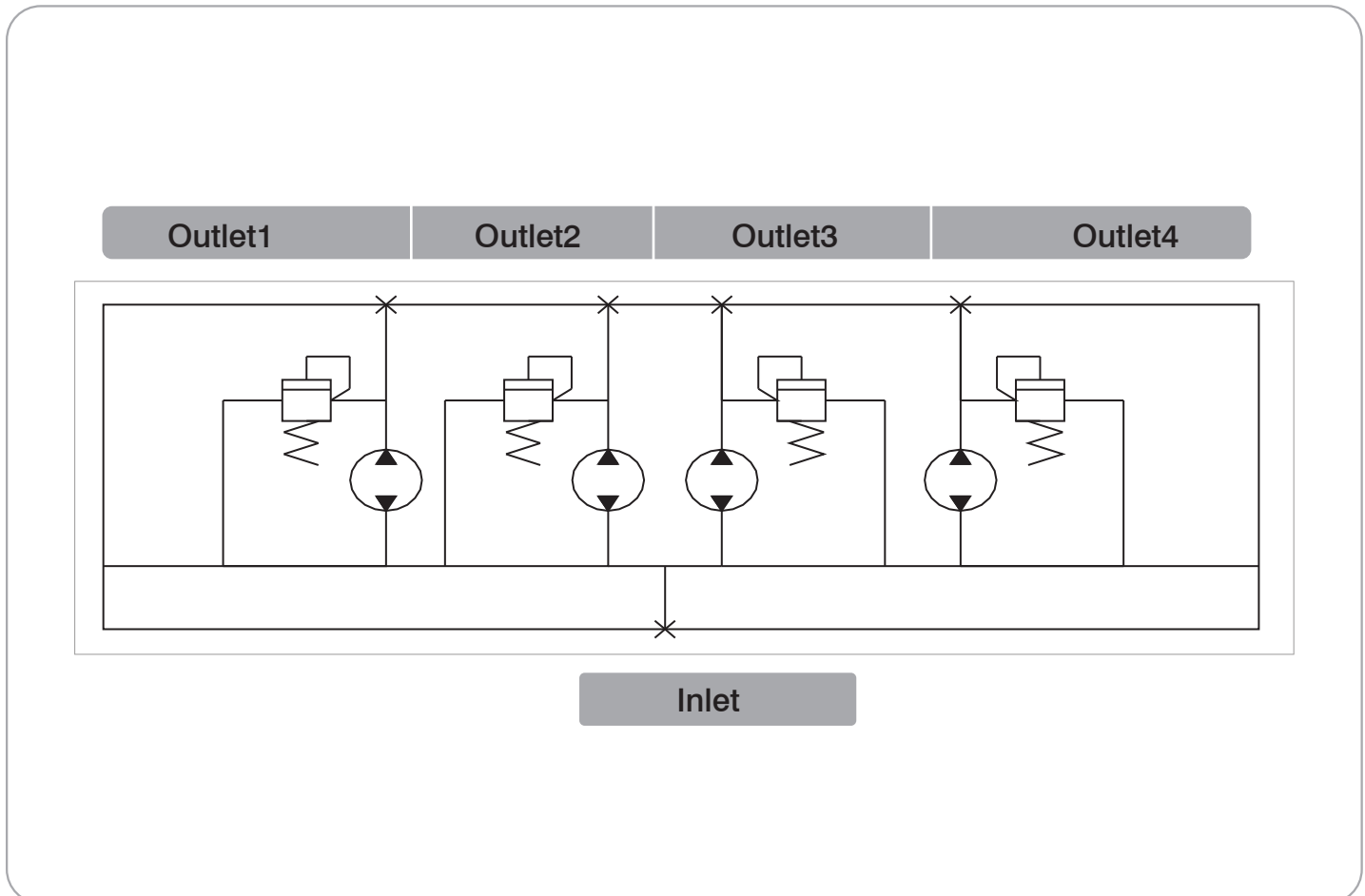
Flow accuracy and pressure loss are as follows:

Number Code	Flow Accuracy	Pressure Drop
1 FD	$\pm 1.5\% - \pm 2\%$	16-19bar
2 FD	$\pm 1.5\% - \pm 2\%$	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.

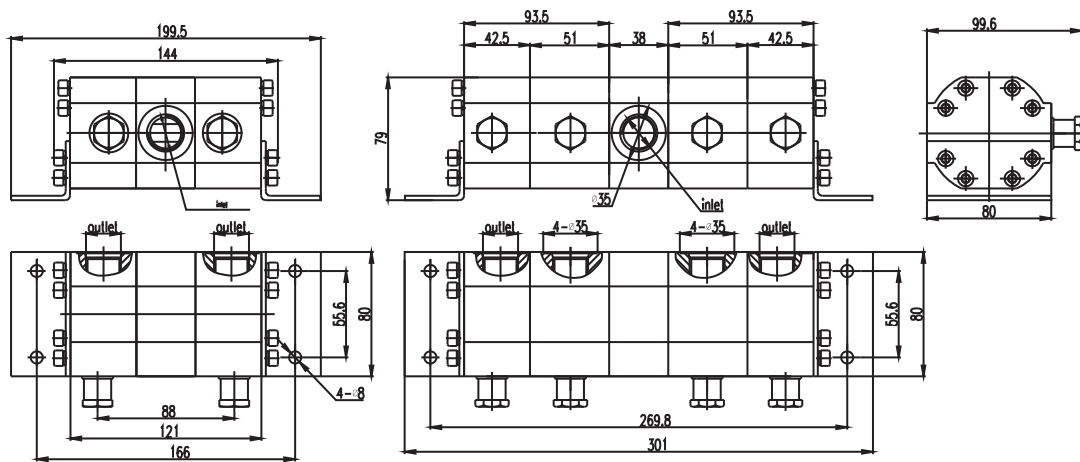
Flow divider can be integrated with relief valve, check valve and governor valve, protecting system pressure and filling the oil. For specific requirements, please contact GRH.



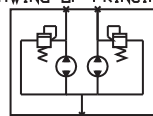
1FDF**L**-2/4 FLOW DIVIDER -

Specification Dimensions

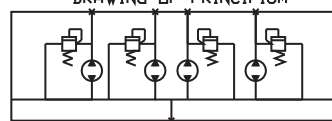
Displacement		SAE Port		Minimum Flow/sec		Maximum Flow/sec		Cont. diff Between Pressure Inlet/Outlet		Maximum Outlet Pressure any section	
In ³	Cm ³	Inlet	Outlet	Gpm	Lpm	Gpm	Lpm	Psi	Bar	Psi	Bar
0.097	1.60	SAE6	SAE6	0.8	3.0	1.7	6.4	1800	124	3500	240
0.129	2.13	SAE8	SAE8	1.2	4.5	2.5	9.5	1800	124	3500	240
0.194	3.18	SAE8	SAE6	1.7	6.4	4.5	13.2	1800	124	3500	240
0.258	4.24	SAE10	SAE10	2.5	9.5	5	18.9	1800	124	3500	240
0.323	5.29	SAE10	SAE10	3.0	11.4	6.0	22.7	1800	124	3500	240
0.388	6.36	SAE10	SAE10	3.5	13.2	7.0	26.5	1600	110	3500	240
0.453	7.42	SAE10	SAE10	4.0	15.1	8.0	30.3	1300	90	3500	240
0.517	8.42	SAE10	SAE10	4.5	17.0	9.0	34.1	1200	83	3500	240



DRAWING OF PRINCIPIUM



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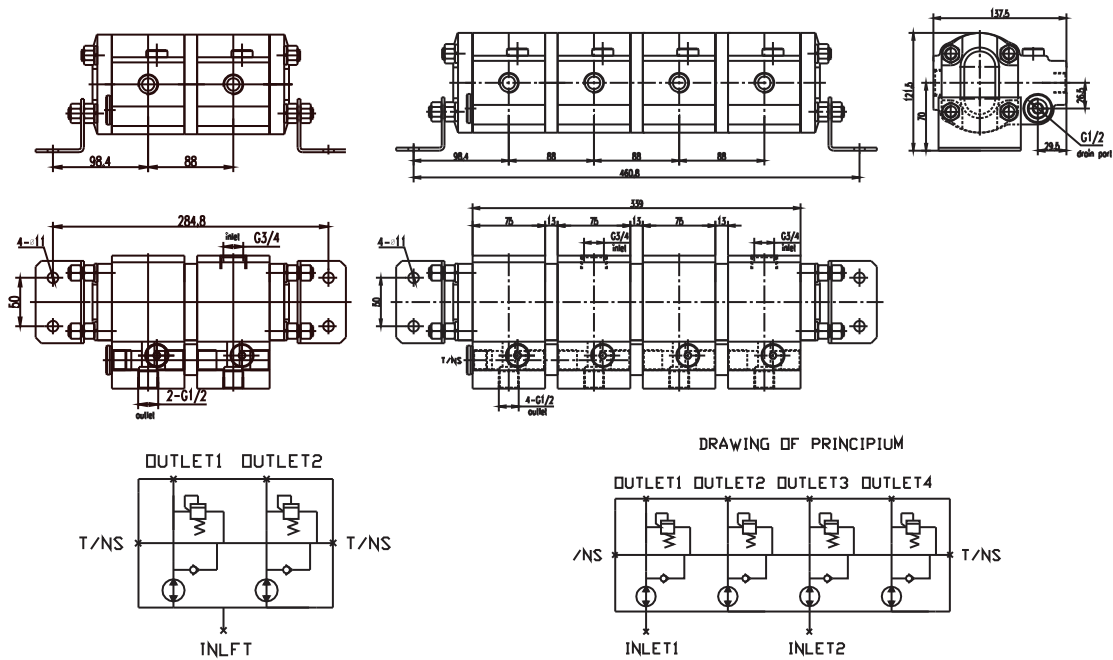
Ordering Code

1	FD	F	04	L35	-2/4
Model	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: 2 section -4: 4 section

2FDF**L**-2/4 FLOW DIVIDER -

Specification Dimensions

Displacement		SAE Port		Minimum Flow/sec		Maximum Flow/sec		Cont. diff Between Pressure Inlet/Outlet		Maximum Outlet Pressure any section	
In ³	Cm ³	Inlet	Outlet	Gpm	Lpm	Gpm	Lpm	Psi	Bar	Psi	Bar
0.366	6	G3/8	G1/2	0.8-4.2	3.0-16	4.8	18	3142	220	3571	250
0.488	8	G3/8	G1/2	1.1-5.0	4.0-19	5.8	22	3142	220	3571	250
0.671	11	G3/8	G1/2	1.5-6.6	5.5-25	7.1	27	3142	220	3571	250
0.854	14	G3/8	G1/2	1.8-8.4	7.0-32	9.0	34	2857	200	3142	220
1.037	17	G3/8	G1/2	2.2-9.0	8.5-34	9.8	37	2857	200	3142	220
1.525	25	G3/8	G1/2	3.1-	12-48	14	53	2857	200	3142	220
1.891	31	G3/8	G1/2	3.7-	14-60	18.5	70	2286	160	2571	180



Ordering Code

2	FD	F	04	L35	-2/4
Model	Function code	Pressure level code	Displacement	Inlet/ Outlet combination	Number of section
Group 2	Flow divider	16~25 Mpa	4ml/r	L35, etc reference accessory 1	-2: 2 section -4: 4 section