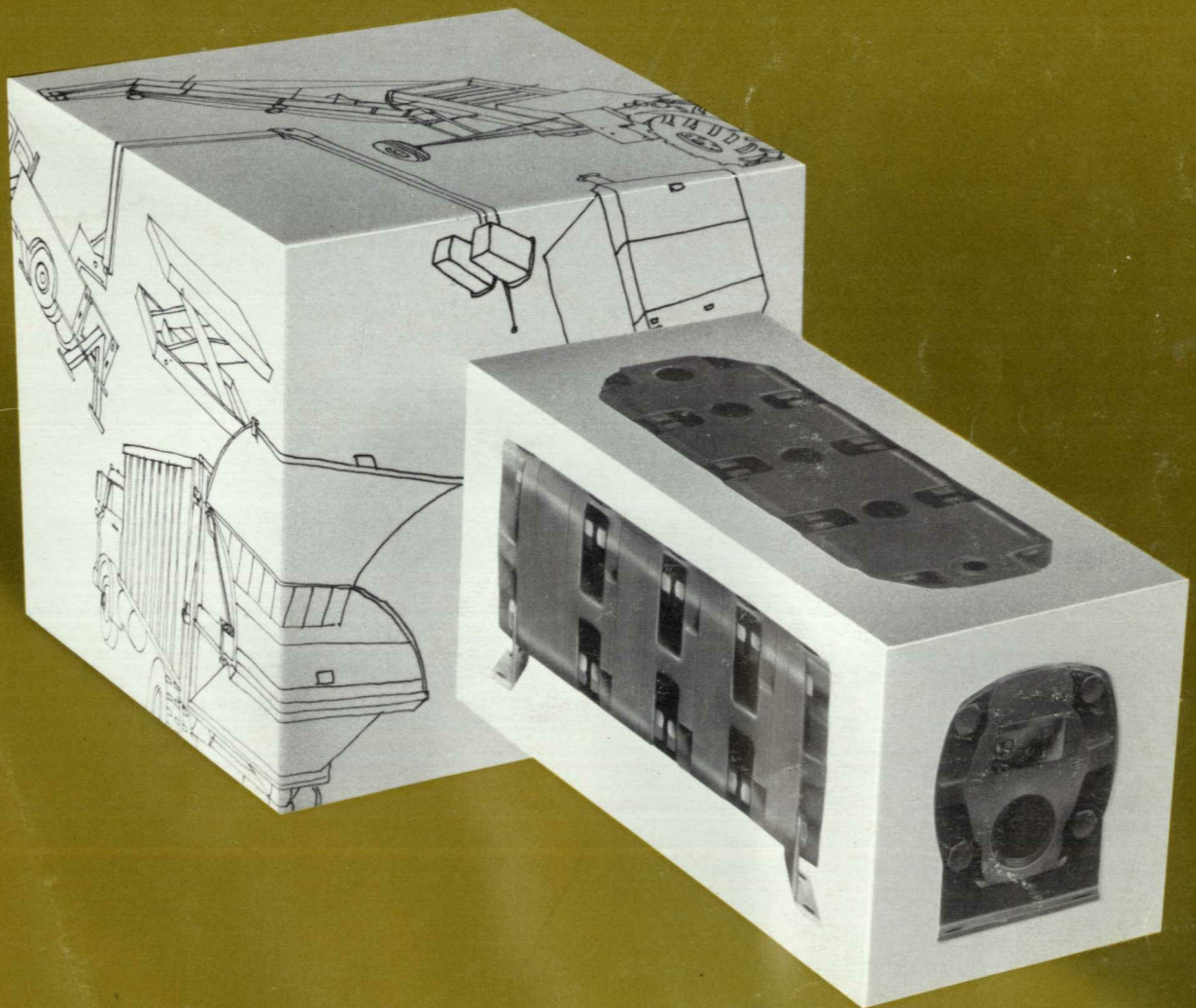


# P SERIES

HYDRAULIC FLOW DIVIDERS

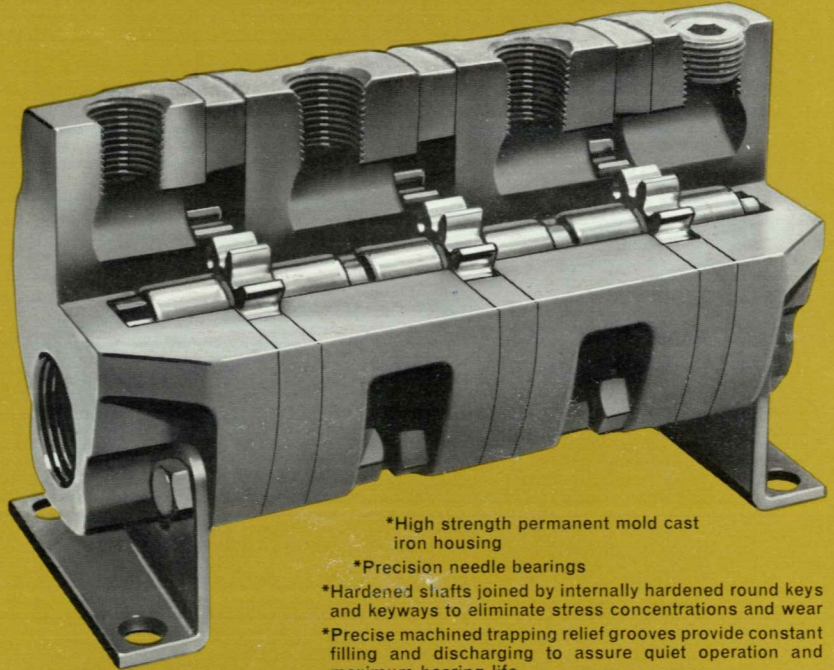


DELTA POWER HYDRAULIC CO.



# P SERIES HYDRAULIC FLOW DIVIDERS

Delta Series P geared flow dividers accurately divide flow from a single hydraulic source into two or more equal or *proportionate* circuits. Proven design, stable material selection and precision machining\* are the Delta keys to quiet, reliable performance you can depend on in a variety of applications . . .



\*High strength permanent mold cast iron housing

\*Precision needle bearings

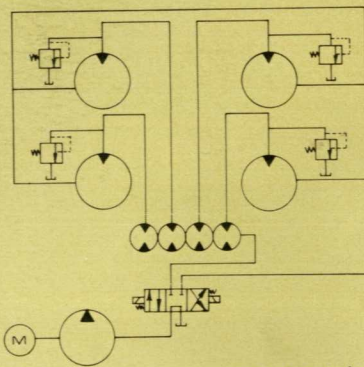
\*Hardened shafts joined by internally hardened round keys and keyways to eliminate stress concentrations and wear

\*Precise machined trapping relief grooves provide constant filling and discharging to assure quiet operation and maximum bearing life

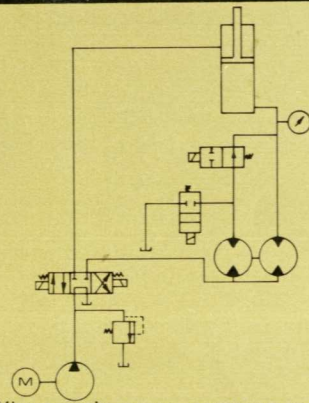
\*O-ring seals between sections

\*Precision dowel-pin alignment between sections

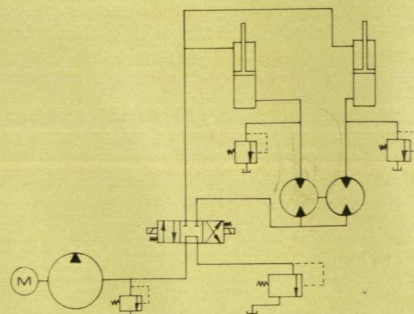
\*Properly torqued individual studs used to assemble multiple-section units eliminate stresses found in common tie rod type construction



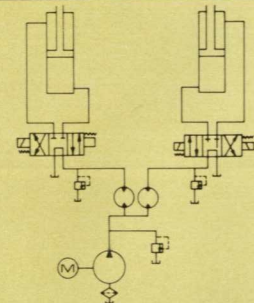
Where one pump operates a number of hydraulic motors: car wash systems, lubrication systems (multiple point), hydraulic motor driven machines (ore cars, harvesting machinery, etc.)



Where main pump pressure must be intensified in one circuit of multiple circuit machinery, such as waste compactors and other hi-lo applications.



Where two or more cylinders must be synchronized: lift platforms, scaffolds, presses.



Where two or more circuits must be controlled independently at different pressures: presses, machine tools, etc.

# CHOICE OF EQUAL FLOW OR

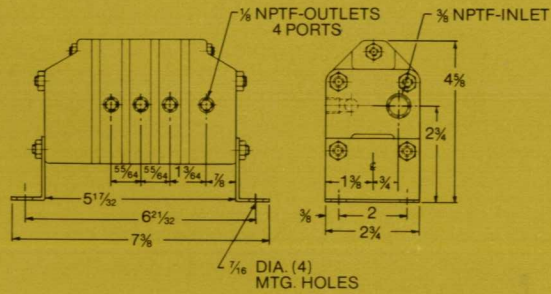
## EQUAL FLOW-MULTI-SECTION

\* 31 Fr lb Box 10000

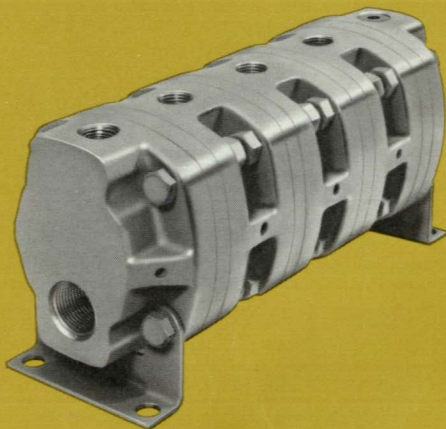
Equal flow multi-section units consist of several identical, individual sections coupled together to divide a flow from a common pump source into three or more equal flows. Each set of gear and shaft assemblies are individually supported in needle bearings.



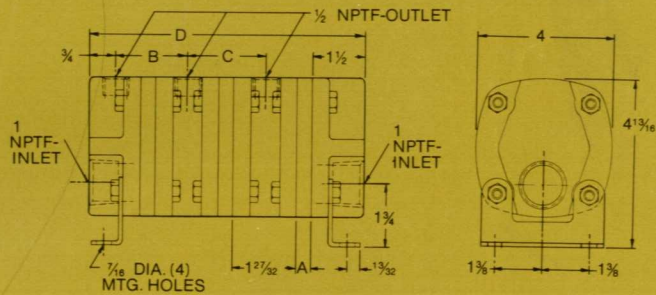
PPM2



35



P23-59 & P27-59



Model *	No. of Sect.	Total Max. Inlet (GPM)	0-PSI Disp. Per Sect. (GAL./REV.)	Slip † (GPM/100 PSI)	Max. Press Intermittent (PSI)	Max. Press. Continuous (PSI)	Bolt Torque (FT.-LB.)	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Max. Diff. Between Sect. (PSI)
PPM2	4	7.0	.00047	.026	2000	1500	13-17	—	—	—	—	1000
P23-60	3	31.5	.00309	.068	2000	1500	24-31	.715	2.39	2.56	8.83	1000
P23-59	4	42.0	.00309	.068	2000	1500	24-31	.715	2.39	2.56	11.39	1000
P23-58	5	52.5	.00309	.068	2000	1500	24-31	.715	2.39	2.56	13.95	1000
P23-57	6	63.0	.00309	.068	2000	1500	24-31	.715	2.39	2.56	16.51	1000
P27-60	3	66.0	.00645	.113	2000	1500	24-31	1.49	3.16	3.33	11.16	1000
P27-59	4	88.0	.00645	.113	2000	1500	24-31	1.49	3.16	3.33	14.49	1000
P27-58	5	110	.00645	.113	2000	1500	24-31	1.49	3.16	3.33	17.82	1000
P27-57	6	132	.00645	.113	2000	1500	24-31	1.49	3.16	3.33	21.15	1000

\*Additional equal flow units (up to 8 sections) may be built up using several of the same section shown in the Mixed Flow Chart.

† Values shown are for a single section only.

NOTE: When computing slip loss, above figures should be applied to reflect differential pressures between inlet and outlet of each section. Due to normal mfg. tolerances, accuracies can be assumed to be no greater than ±1% between sections under balanced conditions.



# APPLICATION SUGGESTIONS

- 1 For greatest efficiency and accuracy, flow dividers should be used at near maximum rated inlet gallonage. On multi-section units it is recommended that both inlet ports be used to ensure maximum performance.
- 2 Maximum (3500) and minimum (500) RPM, inlet pressure ratings and differential pressure ratings should be followed.
- 3 Provide over-pressure protection (relief valves) in each circuit.
- 4 When designing flow dividers into a static circuit, remember that they are *dynamic* devices which do nothing while static.
- 5 Use SAE 10 through SAE 30 industrial petroleum based hydraulic oil with 200 SSU viscosity; filter to 25 microns.
- 6 Do not use teflon tape in installation. Use plastic pipe sealant.

## A COMPLETE LINE OF HYDRAULIC COMPONENTS & POWER PACKAGES . . .

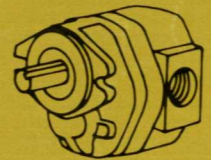
Delta offers a wide range of hydraulic pumps, motors, tanks, flow dividers, valves and accessories. Complete power packages are available from stock or individual components can be combined for unusual

flexibility in hydraulic systems. Write or call the factory for literature or information on any of the Delta products listed below.



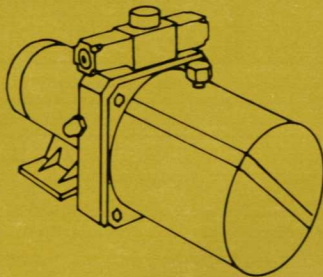
**"D" SERIES HYDRAULIC PUMPS**  
14 standard models — .49 to 33.60 GPM.

**"DM" SERIES HYDRAULIC MOTORS**  
13 models. 1500 to 4000 RPM, 1.05 to 61.8 In. Lbs./100 PSI. Bi-directional.



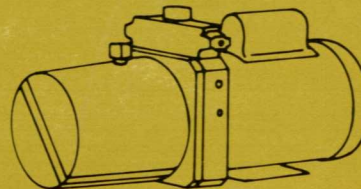
### DELTA DIRECT CURRENT POWER PACKAGES

12 & 24 volt pump-motor-tank units with or without valves. Flows from .31 to 3.40 GPM. Reservoirs offered in 1, 1-1/2, 5 and 10 gallon sizes — plus two completely self-contained models in reinforced nylon housings.



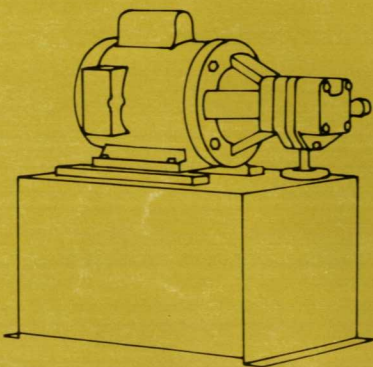
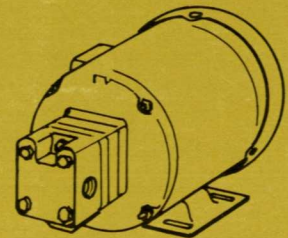
### "B" SERIES AC POWER PACKAGES

Pump-motor-tank units with flows from .25 to 3.46 GPM. Standard units available with or without valves — 1, 1-1/2, 5 or 10 gallon reservoirs.



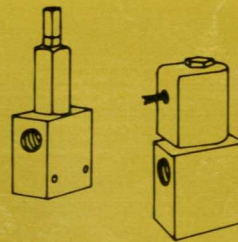
### "A" SERIES LUBE TRANSFER PUMP/MOTOR COMBINATIONS

54 standard models — .49 to 11.10 GPM.



### "C" AND "CW" SERIES POWER PACKAGES

Pump-motor-tank combinations in 5 thru 40 gallon capacities. .49 to 33.60 GPM.



### DELTA VALVES

A wide range of cartridge valves for circuit flexibility including 2-way and 4-way solenoid valves, relief and check valves.



**DELTA POWER HYDRAULIC CO.**

4700 BOEING DRIVE / ROCKFORD, ILLINOIS 61109 • 815/397-6628