

Fluid Power

TYPE "D" PUMPS

for service to

3500 P.S.I.

An extension of the well known Oilgear Type "D" radial rolling piston, variable delivery pump line — these pintle check type units do not compromise the proven performance, reliability, flexibility and adaptability of the established line. These units have been laboratory and field operated under heavy duty industrial conditions and proven themselves on diversified high pressure applications.

TYPE "D" UNITS ARE MORE THAN JUST-A-PUMP.

Like previous "D" pumps, these units incorporate a positive, variable delivery, multiple radial rolling piston high pressure pump . . . one or two controls (selected from a wide variety) . . . high pressure relief valves . . . a gear pump with relief valve . . . and an Oilgear pintle check type suction and return valve for differential or non-differential two-way systems (includes check, directional and relief valves).

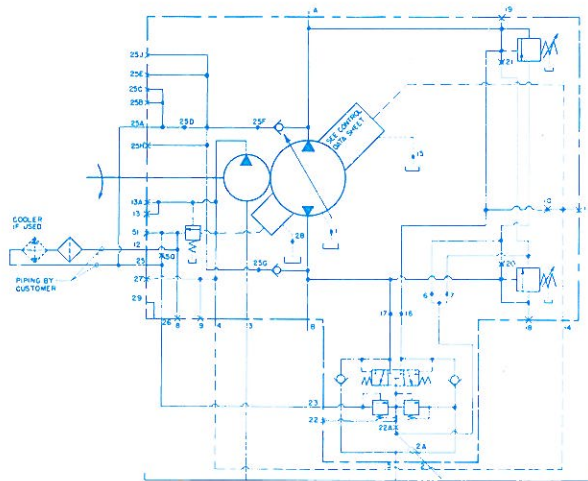


Figure 2. Circuit for Type D-15030, 15035 and 23030 Pumps (DS-47912)

Using Oilgear two-way pumps, you can eliminate many directional and flow control valves . . . simplify power and control circuits . . . save on piping, fittings, electrical units and wiring . . . cushion flow reversals . . . vary flow infinitely in either direction.

These units are built in the same housing as previously built "D-15025" pumps and are dimensionally interchangeable in most cases. If other system considerations allow, they can replace existing units and improve machine performance.

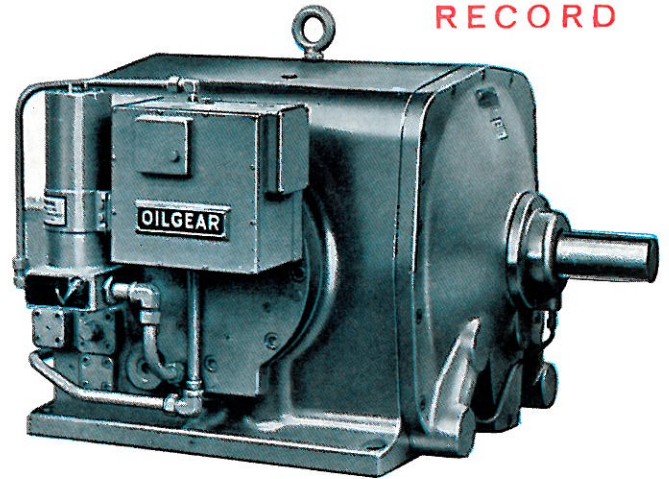


Figure 1. Oilgear Type DVK-15030-NN Pump (54819)

Detailed information on controls (see bulletin 47001) and dimensional installations of pumps with controls are published separately. Note, size 15030 and 15035 are available with the same controls as previous "D-15025" pumps — the size 23030 is available with type (A) air, (M) multi solenoid and (V) servovalve controls.

SPECIFICATIONS - TYPE "D" PUMPS

PUMP SIZE	DUTY PRESSURE†			900 rpm*		1000 rpm	
	A	B	C	Rated GPM	Input hp # (approx.)	Rated GPM	Input hp # (approx.)
15030	2500	3000	3250	108	240	120	265
15035	3500	3500	3750	80	232	88	256
23030	2500	3000	3250	135	315	150	349

† A = Continuous; B = Cyclic; C = Peak
* Higher drive speeds can be utilized for some applications with approval by Oilgear Engineering Department.
At cyclic duty pressure

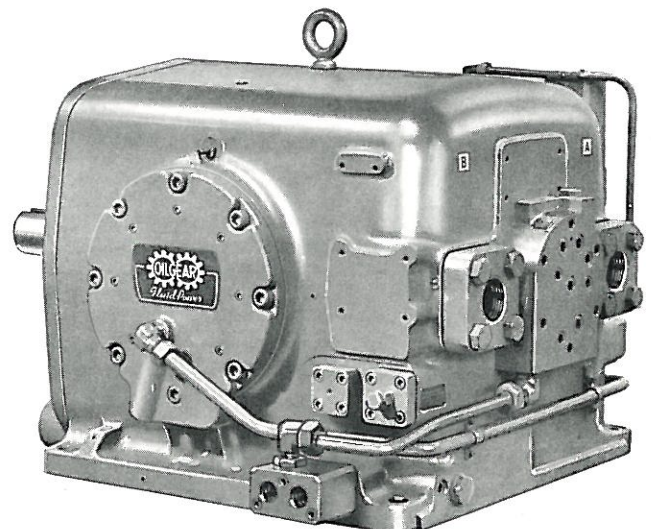


Figure 3. Opposite side of Oilgear DVK-15030-NN Pump (54820)

NEW "DN" PUMPS FOR ECONOMY

Some applications do not require the built-in features included in our "D" pump line. For these applications, we offer a unit that is essentially only a variable delivery pump with controls. These "DN" units are available with the same choice of controls as the "D-23030" pump. While not including gear pump, relief valves, suction valve, etc.; the rugged construction design features of the Oilgear "Type D" radial piston pump (that results in top performance, high reliability, etc.) are still included.

Not a packaged system like "D" pumps, the application circuitry for "DN" units should be carefully considered to receive their full one or two-way variable delivery potential. Additional requirements for your specific application will be reviewed by your Oilgear Application-Engineer upon submittal of the proposed hydraulic circuit and anticipated cycle.

SPECIFICATIONS - TYPE "DN" PUMPS

PUMP SIZE	DUTY PRESSURE †			900 rpm *		1000 rpm	
	Rating in PSI			Rated	Input hp #	Rated	Input hp #
	A	B	C	GPM	(approx.)	GPM	(approx.)
23030	2500	3000	3250	135	315	150	349

† A = Continuous; B = Cyclic; C = Peak

* Higher drive speeds can be utilized for some applications with approval by Oilgear Engineering Department

At cyclic duty pressure

Approximate Length - 44.56", Height - 33.5",
Width (w/o controls) = 29.25"

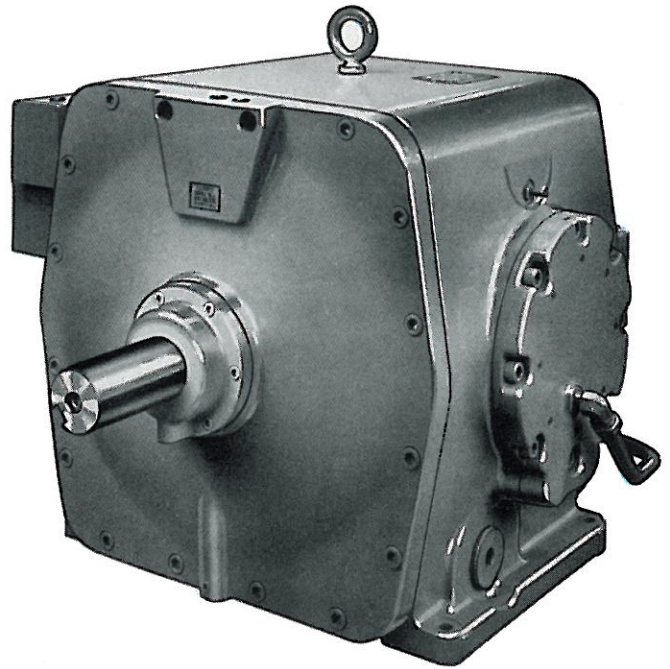


Figure 4. Oilgear DNVK-23030-NN Pump (54944).

Changes in the equipment described in this bulletin may be made without notice. For specific applications check with Oilgear.

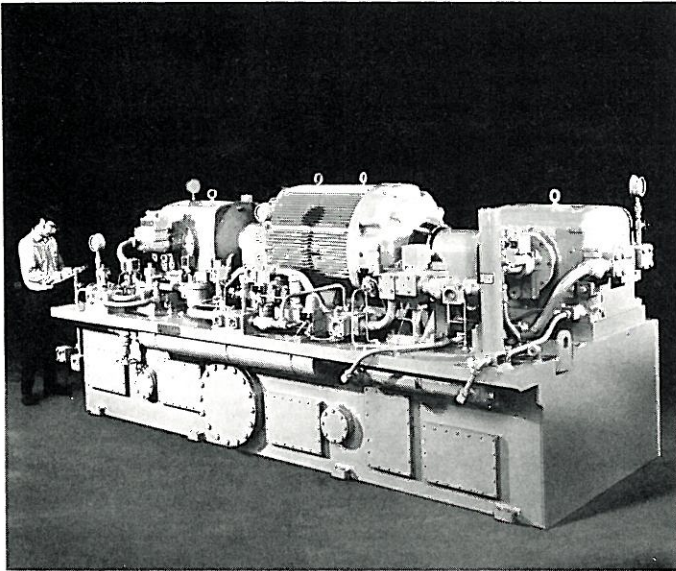


Figure 5. Special "Power Pak" with one DM-23030-M and one DM-15025-M pump used to power a 2000 ton metal press (54927).

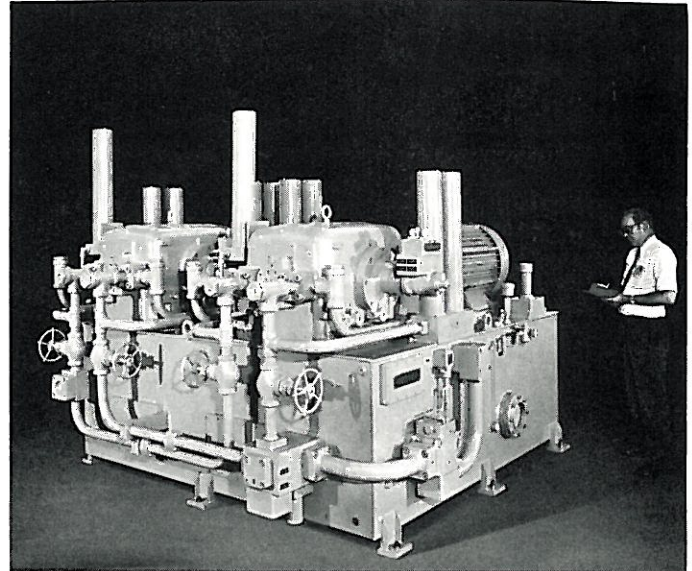


Figure 6. Hydraulic "Power Pak" with two DM-23030-M Pumps for an automatic molding machine. "Pak" includes all the valves and components necessary for system operation, thereby minimizing installation work (54920).



For practical solutions to YOUR heavy-duty power and control problems, call the factory-trained OILGEAR application-engineer in your vicinity. Or write, stating your specific requirements, directly to

THE OILGEAR COMPANY
2300 S. 51st STREET • MILWAUKEE, WISCONSIN, U.S.A. 53219
Phone: (414) 327-1700



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