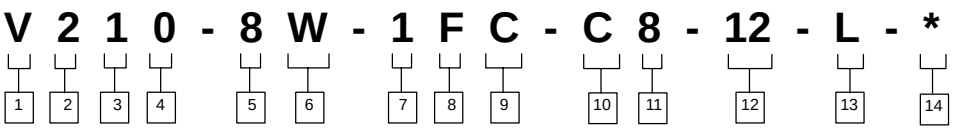
Model Code



1 **Vane pump**	5 **Capacity in GPM** (@ 1200 RPM)	10 **Relief Valve Setting** (V200 only) **C** – 750 PSI **D** – 1000 PSI **E** – 1250 PSI **F** – 1500 PSI **G** – 1750 PSI **H** – 2000 PSI
2 **Series**	6 **Wide Ring** (V200 only)	11 **Controlled Flow Rate (GPM)** (V200 only)
3 **Body Type** **1** – Standard Threaded **2** – Standard Flange **3** – Face Threaded **4** – Face Flange **5** – Tapped Foot Threaded	7 **Shaft Type** **1** – Straight with Square Key **3** – Threaded **6** – Straight Stub with Woodruff Key **7** – Six-tooth Spline **11** – Splined **24** – Tang Drive **34** – Woodruff Key Threaded (Special) **37** – InvoluteSpline (Special)	12 **Design**
4 **Mounting** **0** – None **4** – Foot **5** – Flange **7** – Power Take-off	8 **Connection Flanges Supplied**	13 **Optional Left Hand Rotation**
	9 **Port Positions** (see Figure 6)	14 **Special Features**

Table 2

Section II – Description

A. General

Pumps in this series are used to develop hydraulic fluid flow for the operation of Mobile equipment. The positive displacement pumping cartridges are the rotary vane type with shaft side loads hydraulically balanced. The flow rate depends on the pump size and the speed at which it is driven.

All units are designed so that the direction of rotation, pumping capacity and port positions can be readily changed to suit particular applications.

B. Assembly and Construction

The V200 series pump illustrated in the cutaway in Figure 1 is representative of all single pumps in this series. The unit consists principally of a ported body and cover, a drive shaft supported by two ball bearings, a pumping cartridge and a pressure plate. Components of the pumping cartridge are an elliptical cam ring, a slotted rotor splined to the drive shaft and twelve vanes fitted to the rotor slots.

As the rotor is driven by the driveshaft, the vanes generate fluid flow by carrying fluid around the elliptical ring contour (see Section III). Fluid enters the cartridge through the inlet port in the body and is discharged through the pressure plate to the outlet port in the cover.

C. Flow Control and Relief Valve

V200 pumps are available with an integral flow control and relief valve in the pump cover. This limits the final flow in the system to a maximum prescribed rate and prevents excessive pressure buildup. Fluid not required in the system is recirculated to tank.

D. Application

Pump ratings in GPM as shown in the model coding are at 1200 RPM. For ratings at other speeds, methods of installation and other application information, Vickers application enginering personnel should be consulted.