

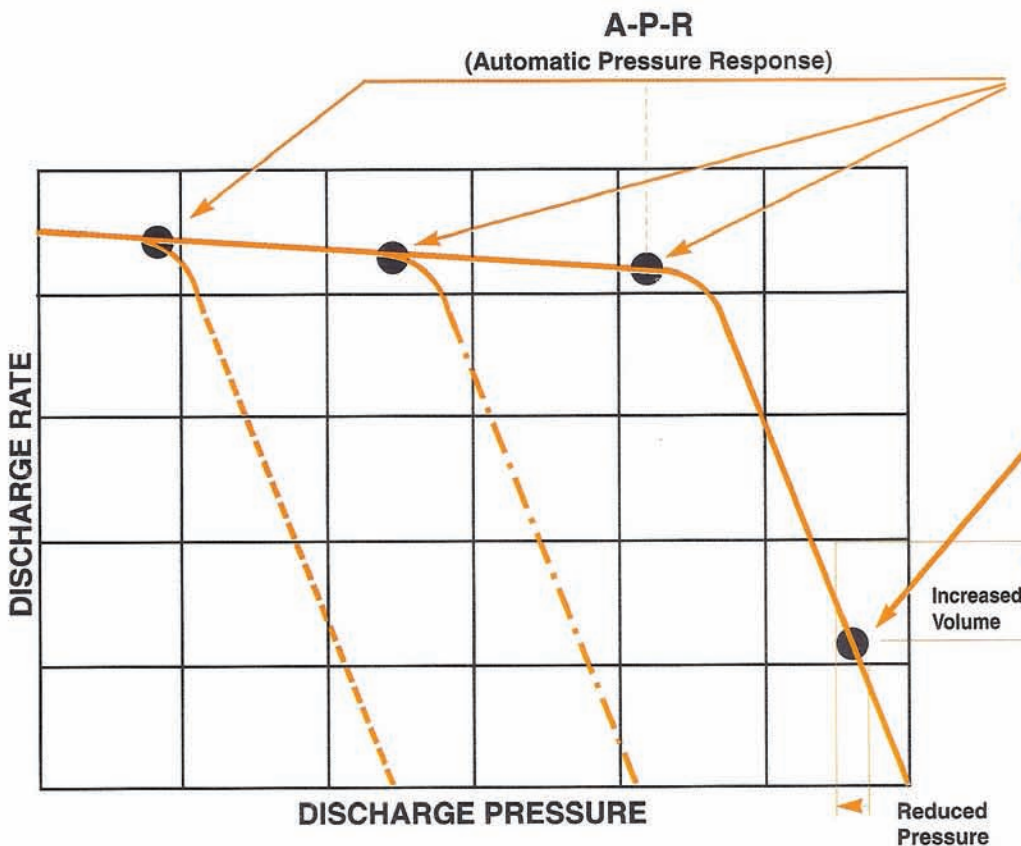
Infinitely Variable Automatic

The Pressure Regulating Control (PRC) allows easy adjustment of the discharge pressure from minimum to maximum without stopping or changing the pump shaft speed.

Up to the A-P-R point, the stroke length of pumping members remains constant to maintain a constant delivery volume.

Above the A-P-R point, the stroke length automatically decreases so the discharge rate drops in direct proportion to the rise in pressure.

The Automatic Volume Control can be adjusted at a pre-selected pressure point. Turning the regulator increases or decreases spring tension of the control mechanism, thereby affording an infinite range of pressure settings.



The discharge rate and pressure levels are automatically maintained at any point along this slope. Should **discharge pressure fluctuate**, for example downward, the automatic volume control mechanism responds by lengthening the pump stroke, increasing the discharge rate. The subsequent increased volume builds the line pressure back to its former level. Sensing this rising pressure, the control mechanism will reverse its action, reducing the flow until the original volume-pressure relationship is restored.

Should the **delivery rate fluctuate**, the control mechanism automatically preserves the volume-pressure relationship in the same manner.

TRI-ROTOR V-HEAD PUMP SELECTION TABLE AND RECOMMENDED SPEEDS

| MODEL NUMBER | PORT SIZE (IN) | 40 - 600 SSU (4 - 125 CpS) | | 5,000 SSU (1,060 CpS) | | 10,000 SSU (2,150 CpS) | | 50,000 SSU (10,800 CpS) | | 100,000 SSU (21,625 CpS) | |
|--------------|----------------|----------------------------|------|-----------------------|-----|------------------------|-----|-------------------------|-----|--------------------------|-----|
| | | GPM | RPM | GPM | RPM | GPM | RPM | GPM | RPM | GPM | RPM |
| 20DV | 1 1/2 x 1 1/2 | 20 | 1140 | 14 | 875 | 12 | 750 | 8 | 450 | 4 | 230 |
| 80BV | 2x2 | 80 | 540 | 53 | 360 | 45 | 300 | 27 | 190 | 18 | 125 |
| 100CV | 3x3 | 100 | 690 | 70 | 480 | 52 | 360 | 38 | 260 | 20 | 135 |
| 120AV | 3x4 | | | 80 | 540 | 65 | 450 | 45 | 300 | 25 | 170 |
| 200AV | 4x4 | 200 | 430 | 140 | 300 | 116 | 250 | 80 | 170 | 56 | 120 |
| 220TV | 4x4 | 200 | 430 | 140 | 300 | 116 | 250 | 80 | 170 | 56 | 120 |