**Design:**  
W1 14/18/22 series is a family of variable displacement axial piston pumps for use in closed circuits with housing and distributor cover in cast iron. The displacement is continuously variable by means of a tilting swash plate, and the oil flow direction is reversible.  
  
**Features:**  
The following range of controls is available:

* Manual lever with feed-back
* Hydraulic proportional without feed-back
* Hydraulic proportional with feed-back
* Electric two position (ON-OFF)
* Electric impulse
* Electric proportional with feed-back
* Electric proportional without feed-back

Three through drive options for auxiliary pump mounting and two options are available:

* Through drive - Bosch Gr.1
* Through drive - Bosch Gr.2
* Through drive - SAE “A” 9T - 16/32-DP
* Pressure filter
* - By-pass

Peak operations must not excide 1% of every minute.  
A simultaneus maximum pressure and maximum speed are not recommended.

Technical Specifications:

