

## HOW TO SELECT PROPER VALVE SIZE FOR VERTICAL TURBINE PUMP INSTALLATIONS

1. Determine the pump gpm at the no head condition. The no head flow rate usually ranges between 125-150% of the rated flow at operating conditions.
2. Select valve model number from table below corresponding to the given flow rate.
3. Model numbers with the "T" suffix include a dual port throttling device and have a higher capacity. 4" and larger valves include an regulated exhaust device with bronze trim.
4. When a power operated check valve is used, a well service air release valve is recommended and sized to limit the velocity of the water rise to 2 ft/sec.

VALVE SIZE	NO HEAD PUMP CAPACITY, GPM	MODEL NUMBER	
		150 PSI MODEL	300 PSI MODEL
1/2" NPT	0-200	100WS	
	0-350	100ST	
1" NPT	201-500	101WS	
	351-1,350	101ST	
2" NPT	501-1,200	102WS	
	1,351-4,000	102ST	
3" NPT	1,201-2,000	103WS	
	4,001-7,000	103ST	
4" FLG'D	7,001-11,000	104SS	154SS
6" FLG'D	11,001-24,000	106SS	156SS
8" FLG'D	24,001-50,000	108SS	158SS
10" FLG'D	50,001-70,000	110SS	160SS
12" FLG'D	70,001-110,000	112SS	162SS

Revised 9-17-08

WELL SERVICE AIR VALVE SIZING

DATE 8-5-96

**VAL-MATIC<sup>®</sup>** VALVE AND MANUFACTURING CORP.

DRWG. NO.  
**SS-1018**