


The check valve, SS-CHS4-10, shown as item 2 is available in cracking pressures of 5 psig through 100 psig in 5 psig increments. To be sized properly, the cracking pressure must be greater than the head pressure the pump sees by being placed at different water depths. This is so that the pump will not flood until the vacuum is applied to it. To size the check valve for a particular depth range use : cracking pressure = (max depth +5)/2.3
 The minimum depth will be approx: max depth - 18.5 ft (assuming 26 in Hg vac)

Some examples are tabulated below:

10 psig: 12 ft max, 00 ft min	60 psig: 127 ft max, 108 ft min
20 psig: 35 ft max, 16 ft min	70 psig: 150 ft max, 131 ft min
30 psig: 58 ft max, 39 ft min	80 psig: 173 ft max, 154 ft min
40 psig: 81 ft max, 62 ft min	90 psig: 196 ft max, 177 ft min
50 psig: 92 ft max, 74 ft min	100 psig: 219 ft max, 200 ft min

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