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1036 Series
Wafer Silent Check Valve K_V / C_V Flow Chart

PRESSURE LOSS

THE PRESSURE CAN BE CALCULATED USING THE K_V VALUE AND FLOW RATE

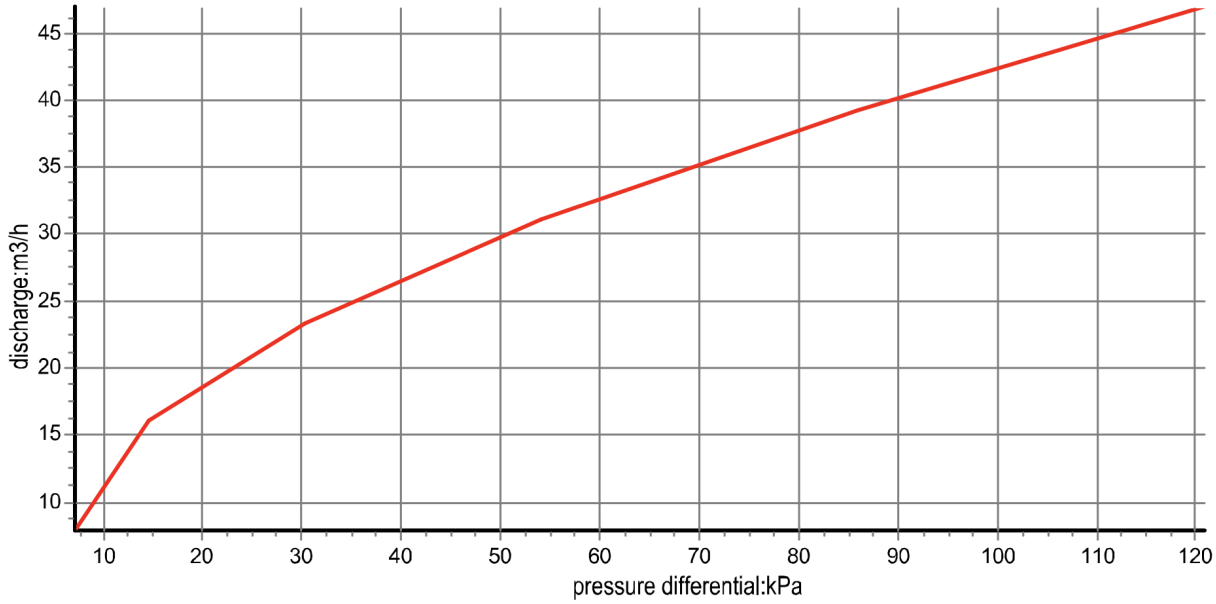
$$K_V = \frac{Q}{\sqrt{\Delta P}} \quad , \quad C_V = 1.167\ K_V$$

WHERE
K_V = FLOW COEFFICIENT - M^3/H @ 1BAR
Q = FLOW RATE - M^3/HR
ΔP = HEADLOSS ATTRIBUTABLE TO VALVE - BAR
C_V = FLOW COEFFICIENT - USGAL/MIN @ $1BF/IN^2$

K_V AND C_V VALUES – FORWARD FLOW								
SIZE	2″	2 1/2″	3″	4″	5″	6″	8″	10″
K_V	42.75	68.81	79.87	141.25	244.63	322.71	367.50	804.67
C_V	50.02	80.51	93.45	165.26	286.22	377.57	429.98	941.46

2″ WAFER SILENT CHECK VALVE

FLOW CHART OF HEADLOSS AGAINST FLOW RATE – FORWARD FLOW



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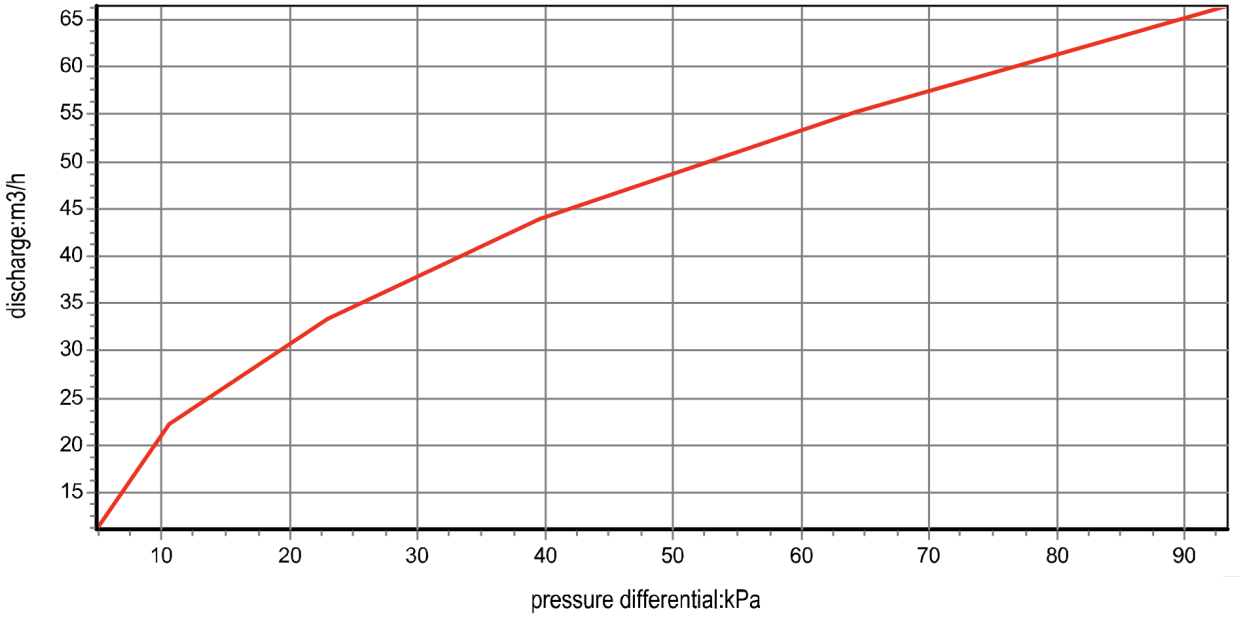
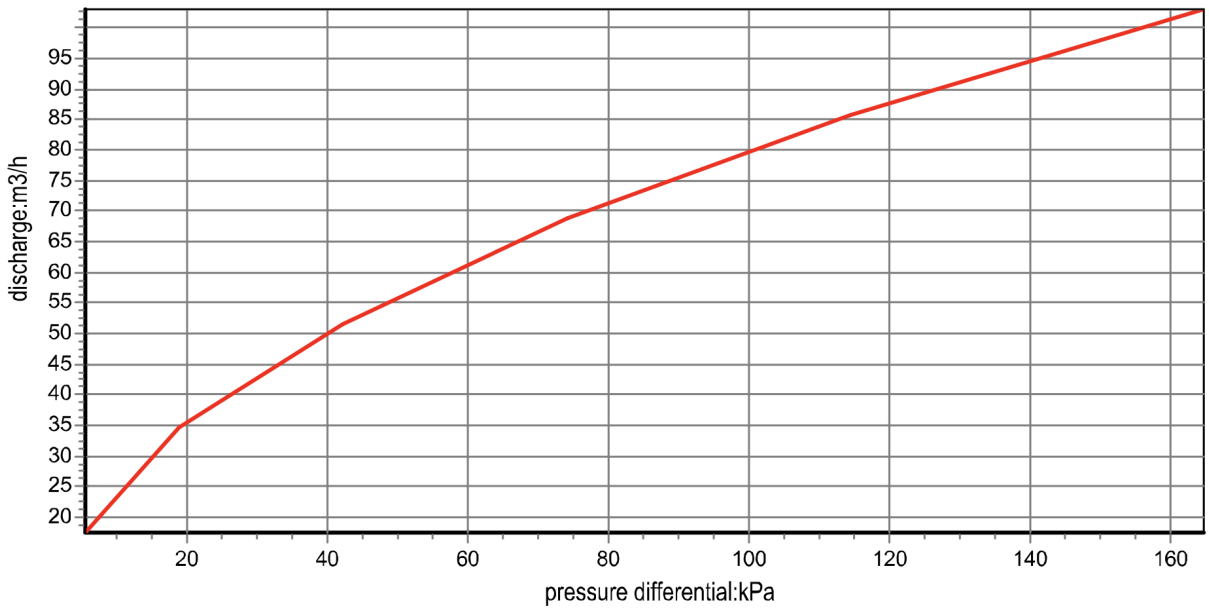
2 1/2" WAFER SILENT CHECK VALVE

FLOW CHART OF HEADLOSS AGAINST FLOW RATE – FORWARD FLOW



3" WAFER SILENT CHECK VALVE

FLOW CHART OF HEADLOSS AGAINST FLOW RATE – FORWARD FLOW



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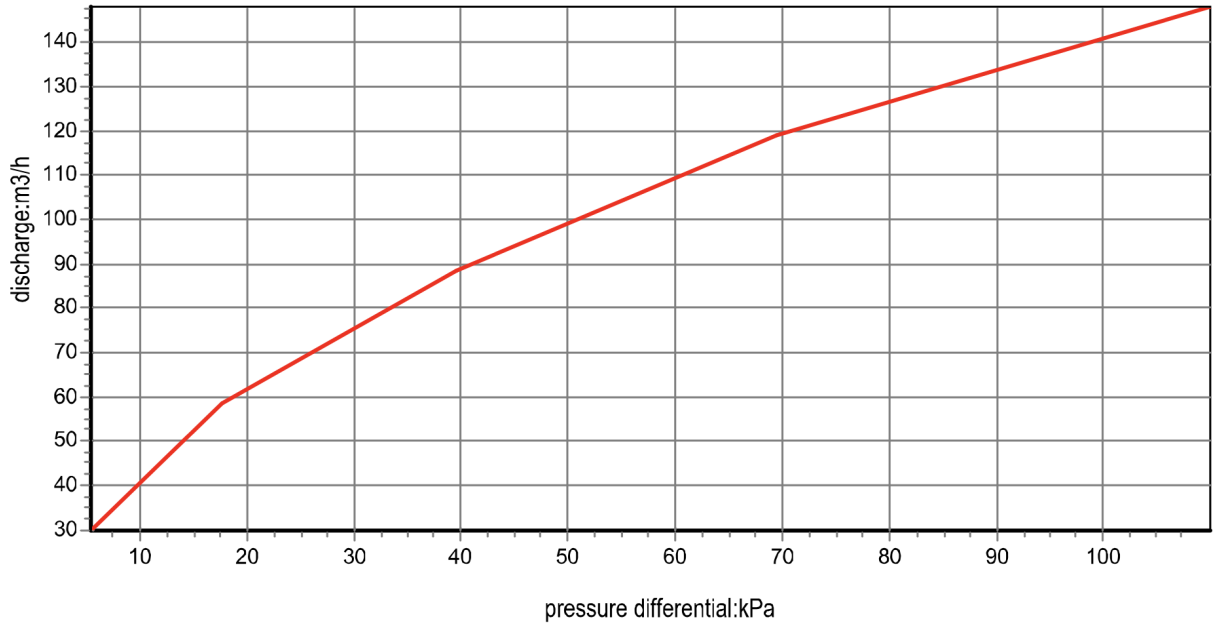
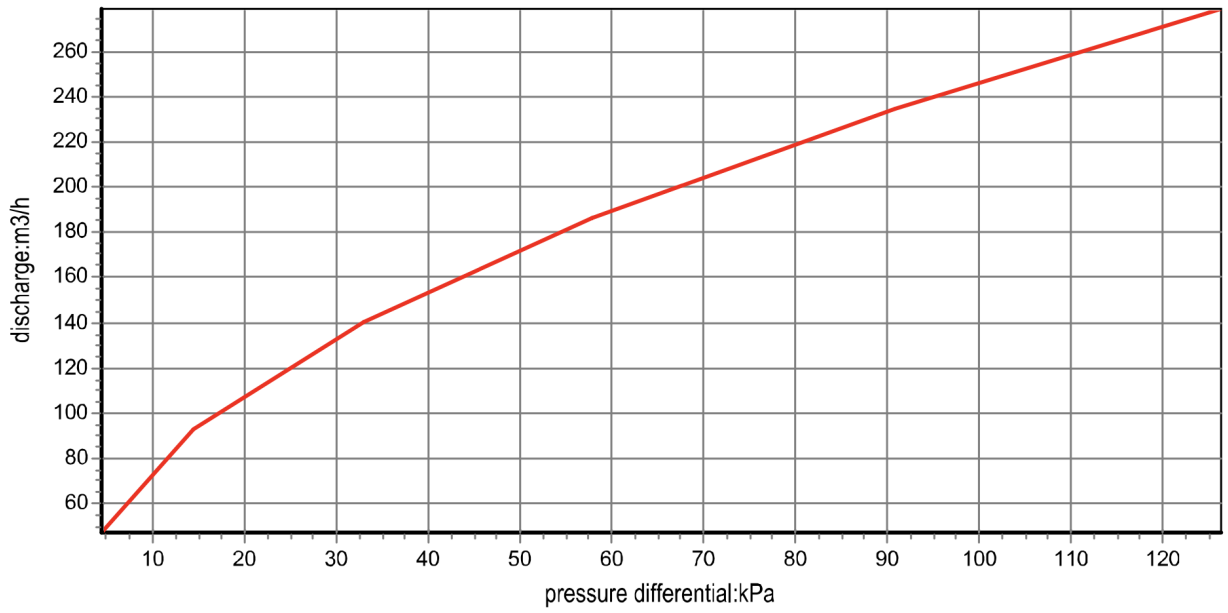
4" WAFER SILENT CHECK VALVE

FLOW CHART OF HEADLOSS AGAINST FLOW RATE – FORWARD FLOW



5" WAFER SILENT CHECK VALVE

FLOW CHART OF HEADLOSS AGAINST FLOW RATE – FORWARD FLOW



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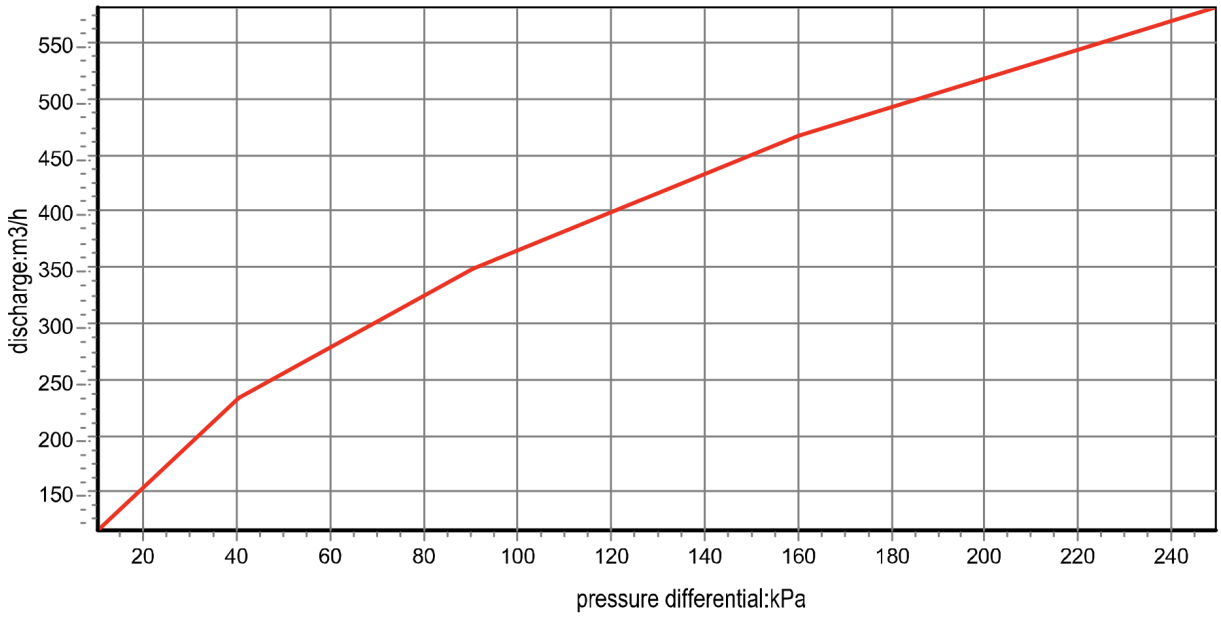
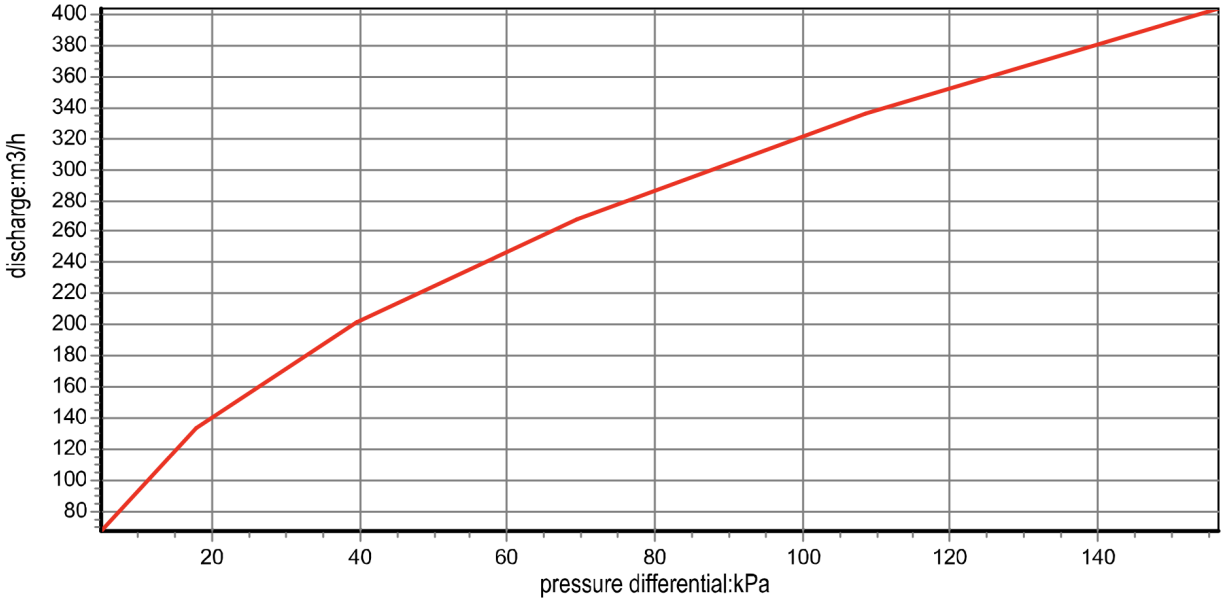
6" WAFER SILENT CHECK VALVE

FLOW CHART OF HEADLOSS AGAINST FLOW RATE – FORWARD FLOW



8" WAFER SILENT CHECK VALVE

FLOW CHART OF HEADLOSS AGAINST FLOW RATE – FORWARD FLOW



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10" WAFER SILENT CHECK VALVE

FLOW CHART OF HEADLOSS AGAINST FLOW RATE – FORWARD FLOW