



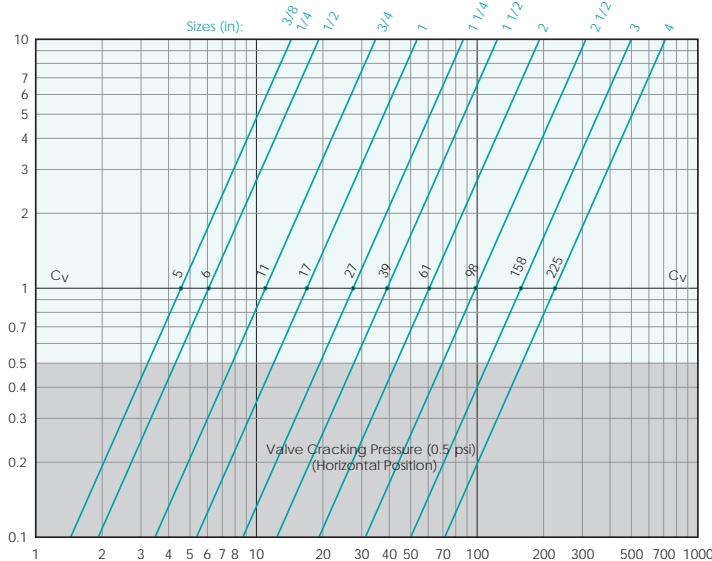
TITAN FLOW CONTROL, INC.

# TECHNICAL AND PERFORMANCE DATA

## PRESSURE DROP CHARTS ♦ CHECK VALVES

### Style: Threaded Ends, Silent Check Valve

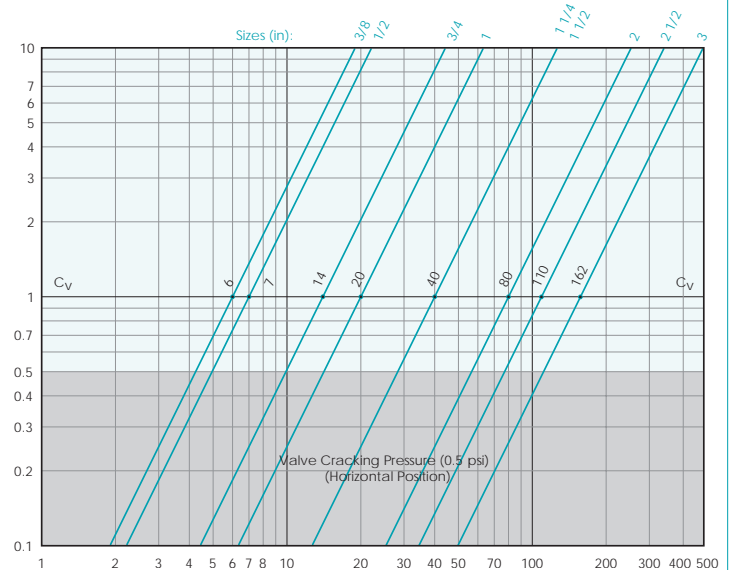
Model: CV 20-BZ (Bronze Unit)



Legend: Pressure Drop - PSI (y - axis) versus Flow Rate - GPM (x - axis)

### Style: Threaded Ends, Silent Check Valve

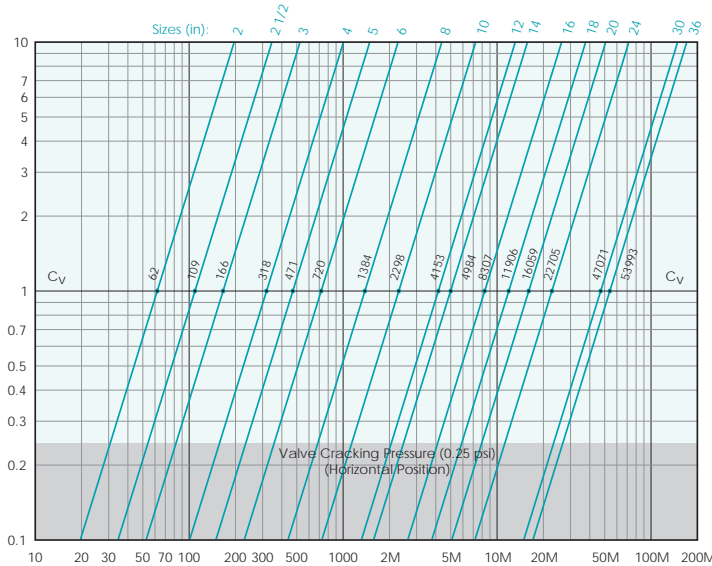
Model: CV 80-SS (Stainless Steel Unit)



Legend: Pressure Drop - PSI (y - axis) versus Flow Rate - GPM (x - axis)

### Style: Wafer Type, Single Disc Check Valve

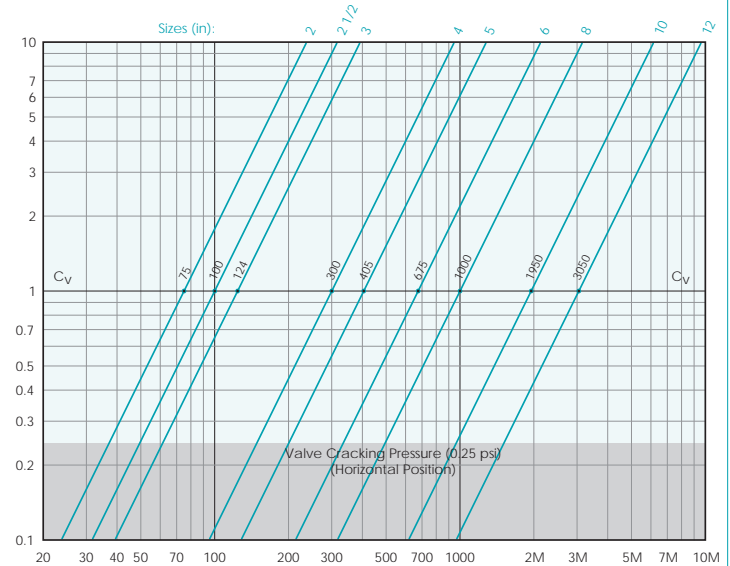
Models: CV 31-DI, CV 32-CS/SS



Legend: Pressure Drop - PSI (y - axis) versus Flow Rate - GPM (x - axis)

### Style: Wafer Type, Short Pattern, Swing Check Valve

Models: CV 12-CS/SS



Legend: Pressure Drop - PSI (y - axis) versus Flow Rate - GPM (x - axis)

### Pressure Drop Equation for Liquids:

$$\Delta P = G \times (Q / C_v)^2$$

$\Delta P$  = Pressure drop (psi)

$C_v$  = Flow coefficient factor

$G$  = Specific gravity of liquid at 60 °F

$Q$  = Flow rate (GPM)

- These curves are theoretical; actual results may vary depending on installation conditions and other variables. Use these values for reference only.
- The above pressure drop charts are based upon 1/8" perforated screens and baskets handling clean water at 60 °F during ideal inlet and outlet conditions. Therefore, they should only be used for estimation purposes.
- For fluids other than water, multiply the pressure drop ( $\Delta P$ ) obtained from the charts by the specific gravity of the fluid in question.
- For mesh lined screens, multiply the pressure drop ( $\Delta P$ ) obtained from the charts by the corresponding correction factor shown in the  $C_v$  correction table.

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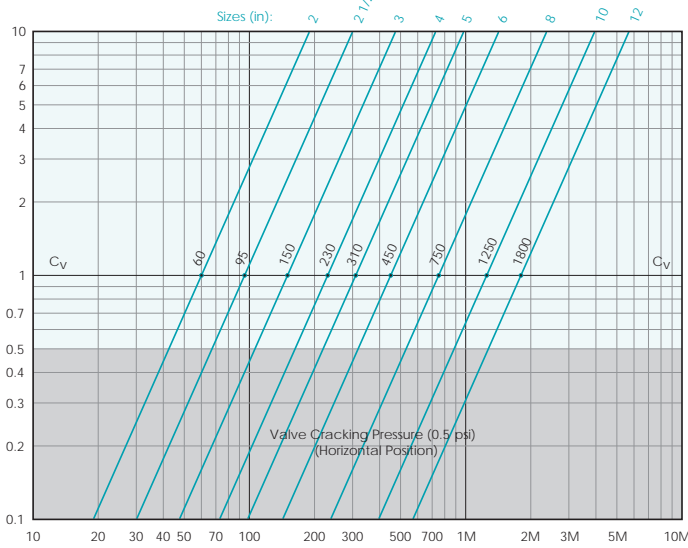
Tel: 910-735-0000 ♦ Fax: 910-738-3848 ♦ titan@titanfci.com ♦ www.titanfci.com  
290 Corporate Drive ♦ PO Box 7408 ♦ Lumberton, NC 28358



# TITAN FLOW CONTROL, INC ❖ CHECK VALVE PRESSURE DROP CHARTS

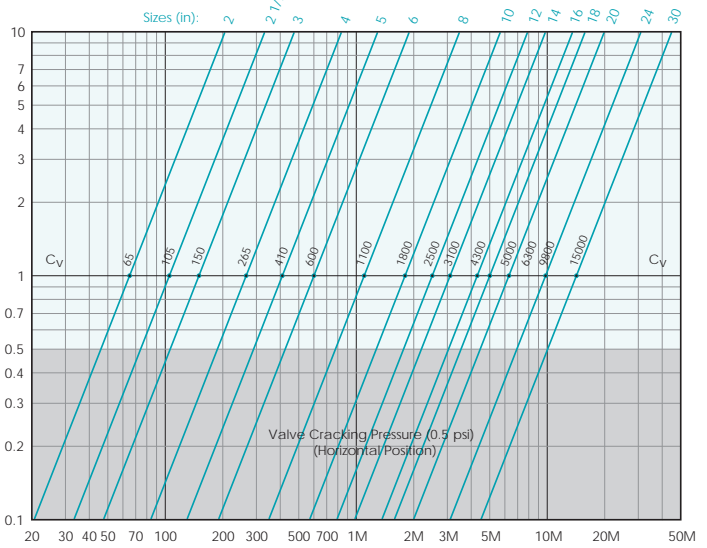
## Style: Wafer Type, Silent Check Valve

Models: CV 90-DB/DS, CV 91-SS



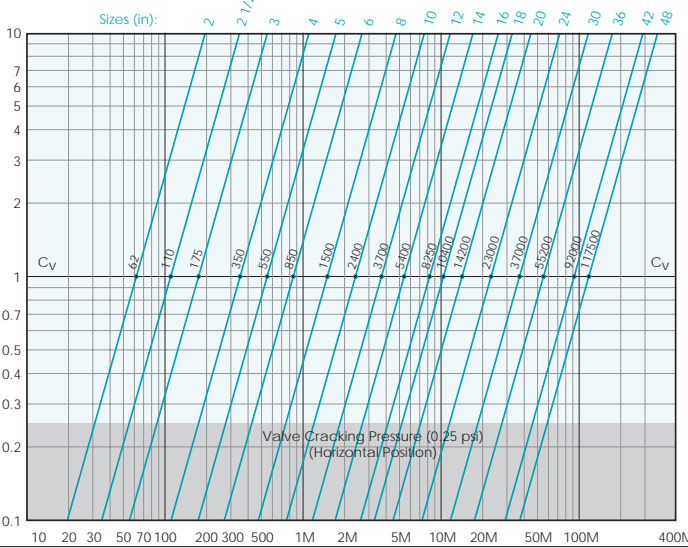
## Style: Globe Type, Silent Check Valve

Models: CV 50-DI, CV 51-CS/SS, CV 52-DB/DS



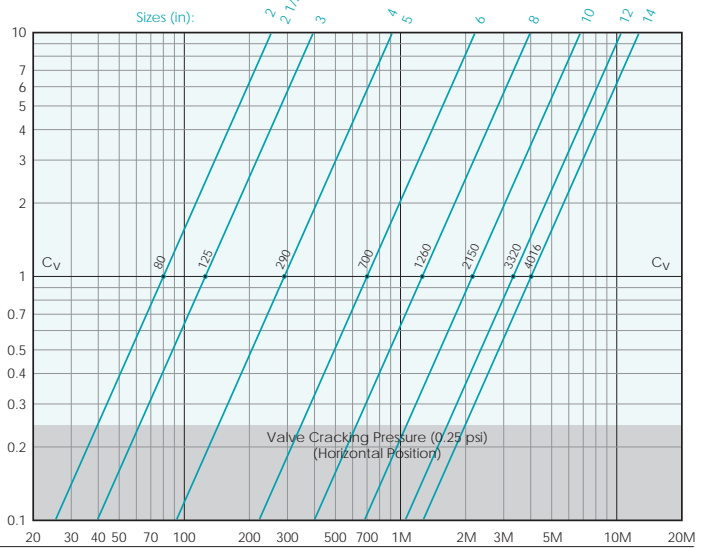
## Style: Wafer Type, Double Disc Check Valve

Models: CV 41-DI, CV 42-CS/SS, CV 44-CS/SS



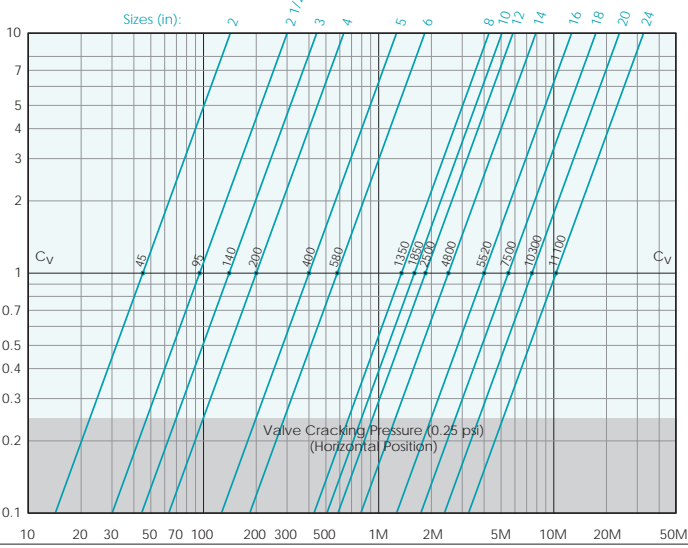
## Style: Flanged, Control Check Valve (Tri-Flow)

Model: TF 21-CI (Disc in the full open position)



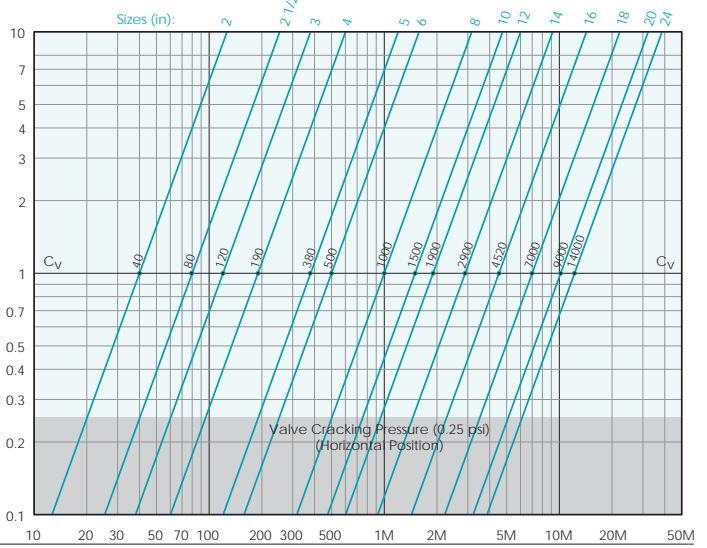
## Style: High Pressure - Wafer Type, Double Disc CV

Model: CV 46-CS/SS



## Style: High Pressure - Wafer Type, Double Disc CV

Model: CV 47-CS/SS



Legend: Pressure Drop - PSI (y - axis) versus Flow Rate - GPM (x - axis)