

Application of Check Valves

Type Flow	Media Type	Velocity Range FPS (m/s)	Recommended Check Valve Type
Uniform With Insignificant Reversal	Water Or Oil	1 to 6 (0.3 to 2)	Swing Check w/ Lever and ctrl wt.
	Steam, Water, Gas	7 to 100 (2 to 30)	Simple Swing
Uniform	Water Or Oil	5 to 10 Max (a 5 to 3)	In-line Guided Disc
Pulsating	Air Or Gas	5 to 10 Max (a 5 to 3)	In-line Guided Disc w/ Cushion Chamber
Uniform With Normal Reversal	Water Or Oil	7 to 10 (2 to 3)	Swing w/ Spring Assist To Close
Uniform With Severe Reversal	Water Or Oil	7 to 10 (2 to 3)	Swing w/ Dashpot
Uniform Or Pulsating	Steam, Water Or Gas	8 to 160 (2.5 to 50)	Tee- Or Inclined- Pattern Lift
Uniform Or Pulsating (Severe Reversal)	Steam, Water Or Gas	10 to 160 (3 to 50)	Tee- Pattern Lift w/ Dashpot
Uniform	Steam, Water Or Gas	12 to 250 (4 to 75)	Tilting Disc
Uniform Or Pulsating	Steam, Water, Gas Or Oil	20 to 250 (6 to 75)	Wye-Pattern Lift
Uniform Or Pulsating (Severe Reversal)			Wye-Pattern Lift w/ dashpot

Valve Application Guide

Julia Schneider



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