

Pressure Drop regarding **Accellence's** Y-Strainer

Cv Value of Y-Strainer

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
Cv	8	9.5	18	30.5	41.4	68	102	138

The Cv factor is a physical measurement specifies the number of gallons per minute (GPM) that can pass through a piping component (Y-Strainer) with 1 psi pressure drop across the piping component. These factors are based upon clean screens (20 mesh) handling water.

Pressure Drop in psi at 900 , 1700 and 3400 SCFM - Inlet Air Pressure 100, 150 and 200 psi

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
900SCFM	100		12.18	4.09	2.22	0.80	0.36	0.20
	150		11.90	4.06	2.20	0.80	0.36	0.20
	200		11.78	4.05	2.20	0.80	0.36	0.20
1700SCFM	100				8.16	2.90	1.31	0.71
	150				8.05	2.89	1.31	0.71
	200				8.00	2.87	1.31	0.71
3400SCFM	100					12.16	5.32	2.86
	150					11.90	5.26	2.84
	200					11.77	5.25	2.83

Pressure Drop in psi at 900 , 1700 and 3400 SCFM - Inlet Gas Pressure 100, 150 and 200 psi

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
900SCFM	100		10.12	3.422	1.86	0.68	0.30	0.01
	150		9.95	3.41	1.86	0.68	0.30	0.01
	200		9.86	3.39	1.86	0.67	0.30	0.01
1700SCFM	100			12.83	6.82	2.44	1.09	0.59
	150			12.53	6.73	2.42	1.09	0.59
	200			12.40	6.70	2.42	1.09	0.59
3400SCFM	100					10.12	4.45	2.39
	150					9.93	4.41	2.38
	200					9.85	4.39	2.38

Note! Pressure Drops above 1 bar or 14-15 psi are in general not relevant.



