

Economical Protection

Hydroseal Canada's KIYO Y strainers protect tubing system components from damage caused by dirt or debris in the process media. They cost less than other types of strainers and are light-weight and compact. Because they can often be supported by the pipeline alone, they work in applications where other types of strainers cannot.

Rugged Plastic Screens

Hydroseal Canada's KIYO Y strainers are supplied with a perforated plastic screen. This screen is ultrasonically welded, not glued, for superior performance and strength. Screens fabricated from type 316 stainless steel are also available in openings from 1/2" down to super-fine 325 mesh. All screens have an open area at least twice that of the equivalent tube-size cross sectional area to minimize pressure drop.

Features

- Rated at 150 PSI
- Full Port Design
- True Union Functionality
- Easy Screen Access
- Mesh 20 Default Screens
- Suitable for Vertical and Horizontal Installations
- Suitable for ASTM, DIN, JIS and CNS systems
- NSF Compliant

Easy Clean Out

All sizes of Hydroseal Canada's KIYO Y strainers feature heavy duty caps that permit quick and easy removal of the strainer screen when cleaning is necessary.

Adaptable Design

Hydroseal Canada's KIYO Y strainers will work equally well in horizontal and vertical installations, simplifying tubing installations.

All Plastic Construction

Hydroseal Canada's KIYO Y strainers are all-plastic. They will never rust or corrode - and do not require painting or coating to operate in corrosive environments.

Options

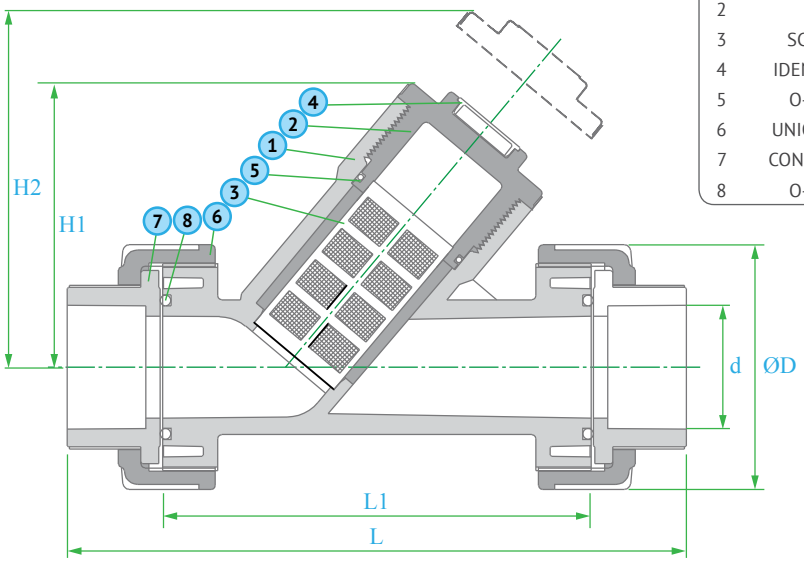
- Mesh 8, 12, 30 Screens
- Stainless Steel Screens
- PVC, CPVC, PP and PVDF
- EPDM, Viton or Nitrile O-Rings

SIZE: 1/2" ~ 4"

JOINT END:
SOCKET - ASTM, DIN, JIS
THREAD - NPT, BSPT

WORKING PRESSURE:
150 PSI

CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
1	BODY	1	PVC, CPVC, PP, PVDF
2	CAP	1	PVC, CPVC, PP, PVDF
3	SCREEN	1	PP, SUS316
4	IDENTIFIER	1	ABS
5	O-RING	1	EPDM, VITON
6	UNION NUT	2	PVC, CPVC, PP, PVDF
7	CONNECTOR	2	PVC, CPVC, PP, PVDF
8	O-RING	2	EPDM, VITON



PART	NOMINAL SIZE	SOCKET, THREAD TYPE				ASTM	DIN	JIS	UNIT OF MEASURE: MM	
		DN	D	L1	L	d	d	d	H1	H2
KYES.0050	1/2"	DN 15	56.0	110.0	172.0	21.5	20.3	22.3	85.0	130.0
KYES.0075	3/4"	DN 20	56.0	110.0	172.0	26.9	25.3	26.3	85.0	130.0
KYES.0100	1"	DN 25	66.0	126.0	197.0	33.7	32.3	32.3	92.0	150.0
KYES.0125	1 1/4"	DN 32	98.0	173.0	254.0	42.4	40.3	38.4	122.0	205.0
KYES.0150	1 1/2"	DN 40	98.0	173.0	254.0	48.6	50.3	48.5	122.0	205.0
KYES.0200	2"	DN 50	120.0	204.0	297.0	60.6	63.3	60.6	141.0	230
KYES.0250	2 1/2"	DN 65	-	-	-	73.8	75.3	76.6	-	-
KYES.0300	3"	DN 80	-	-	-	89.3	90.3	89.6	-	-
KYES.0400	4"	DN 100	-	-	-	114.8	110.3	114.7	-	-

SELECTION CHART				
SIZE	MATERIAL	CONNECTION	SEALS	PRESSURE RATING
1/2" ~ 4"	PVC CPVC PP, PVDF	SOCKET or THREAD	EPDM or VITON	150 PSI @ 73F Non-Shock

CV FACTORS			
SIZE	FACTOR	SIZE	FACTOR
1/2"	3	2"	30
3/4"	5	2 1/2"	-
1"	7	3"	-
1 1/4"	15	4"	-
1 1/2"	20	6"	-

* With 1/32" plastic screen

Pressure Loss Calculation Formula

$$\Delta P = [\frac{Q}{Cv}]^2$$

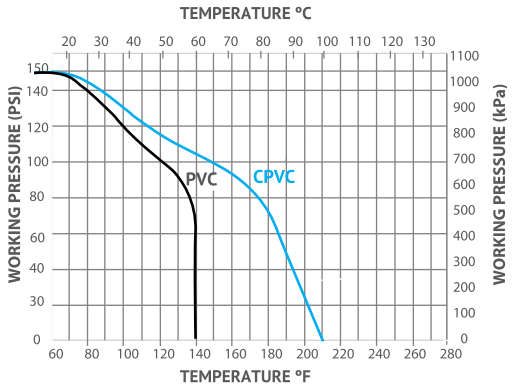
ΔP = Pressure Drop
Q = Flow in GPM
Cv = Flow Coefficient

The pressure drop across the strainer, for water or fluids with a similar viscosity, can be calculated using this formula:

the pressure loss across a valve or filter can be calculated using the system's flow rate and the Cv factor for that valve or filter.

For example, a 1" strainer with a Cv factor of 8 will have a 4 PSI pressure loss in a system with a 16 gpm flow rate (16 / 8)²=4

OPERATING TEMPERATURE/PRESSURE



Strainer Screen Selection

- Y Strainers are furnished with a 1/32" perf plastic screen.
- Stainless steel strainer screen are available in these perfs: 1/32", 3/64", 1/16", 5/64", 7/64", 1/8", 5/32", 3/16", 1/4", 1/2"; and in mesh sizes: 20, 40, 60, 80, 100, 200, 325