ISOLATION VALVES
Y Strainers - kiyo

Economical Protection
Hydroseal Canada's kiyo strainers protect piping 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 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 pipe-size cross sectional area to minimize pressure drop.

Easy Clean Out
All sizes of Hydroseal Canada 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 Y strainers will work equally well in horizontal and vertical installations, simplifying piping installations.

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

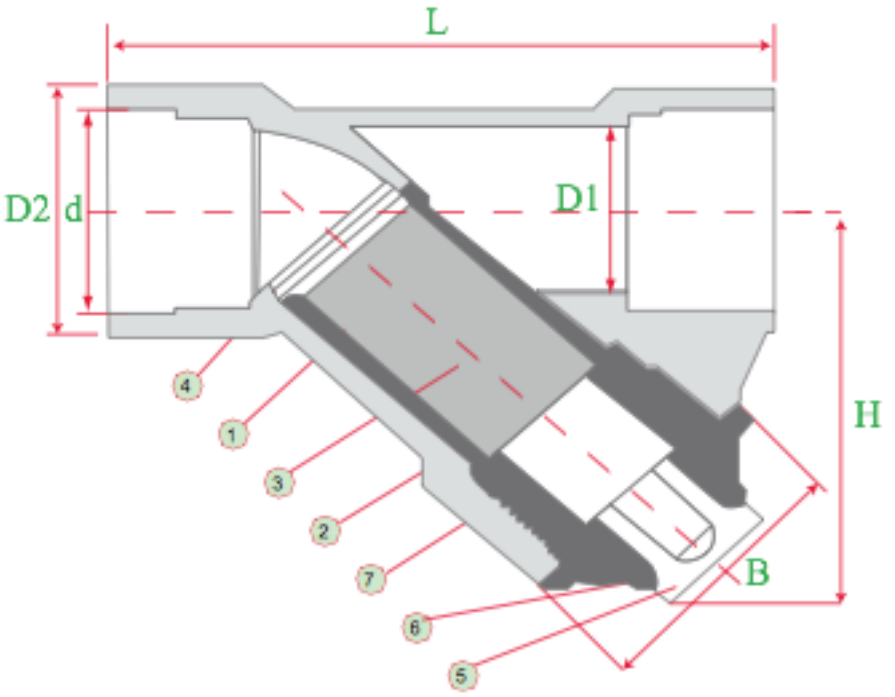
Features
- Rated to 150 PSI
- EPDM Seals
- All-plastic Construction
- Easy Screen Access
- Can be used Horizontally or Vertically

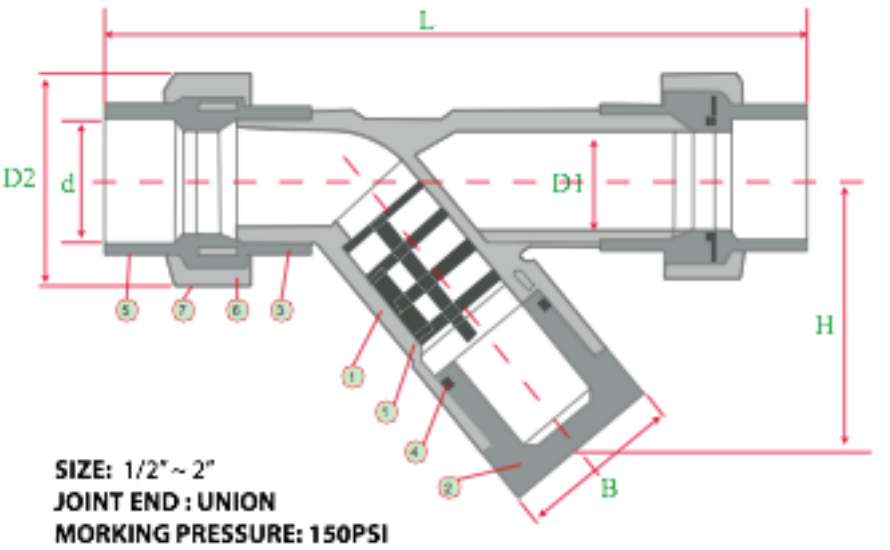
Options
- Stainless Steel screens
- True Union connections available

Technical Information

MATERIALS OF CONSTRUCTION			
NO.	PARTS	PCS	MATERIALS
1	BODY	1	PVC
2	LID	1	PVC
3	SCREEN	1	PVC
4	BODY O-RING	1	EPDM, VITON
5	CONNECTOR	2	PVC
6	UNION NUT	2	PVC
7	UNION O-RING	2	EPDM, VITON

SIZE: 2 1/2" ~ 4"
JOINT END : SOKET (ASTM. DIN. JIS)
MORKING PRESSURE: 150PSI





SIZE: 1/2" ~ 2"
JOINT END : UNION
MORKING PRESSURE: 150PSI

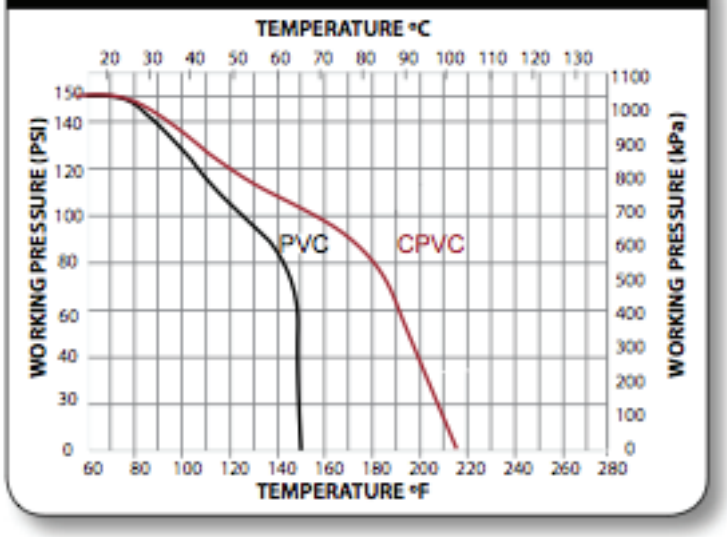
PART	NOMINAL SIZE	SOCKET, THREAD TYPE				ASTM	DIN	JIS	UNIT OF MEASURE: MM	
		DN	D1	D2	L	d	d	d	H	B
60115	1/2"	DN 15	15.0	46.0	205.0	21.54	20.3	22.30	70.0	35.0
60116	3/4"	DN 20	20.0	61.0	234.0	26.87	25.3	26.30	80.0	39.0
60117	1"	DN 25	26.0	70.0	250.0	33.66	32.3	32.36	95.0	47.0
60118	1 1/4"	DN 32	32.0	88.0	283.0	42.42	40.3	38.43	110.0	55.0
60119	1 1/2"	DN 40	40.0	88.0	312.0	48.56	50.3	48.46	132.0	70.0
60120	2"	DN 50	50.0	101.0	350.0	60.63	63.3	60.56	155.0	81.0
60121	2 1/2"	DN 65	61.0	90.0	209.5	73.78	75.3	76.60	137.1	89.5
60122	3"	DN 80	80.0	109.0	244.5	89.31	90.3	89.60	163.9	109.3
60123	4"	DN 100	100.0	138.0	297.0	114.76	110.3	114.70	199.3	136.2

SELECTION CHART				
SIZE	MATERIAL	END CONN.	SEALS	RATING
1/2"~4"	PVC , CPVC	Thd, Skt, Flg.	EPDM/VITON	150 PSI @ 70°F

CV FACTORS			
SIZE	FACTOR	SIZE	FACTOR
1/2"	4.0	2"	28.0
3/4"	6.8	2 1/2"	40.0
1"	9.0	3"	65.0
1 1/4"	12.0	4"	100.0
1 1/2"	28.0		

* With 1/32" plastic screen

OPERATING TEMPERATURE/PRESSURE



Pressure Loss Calculation Formula

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

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 $(16 / 8)^2 = 4$

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