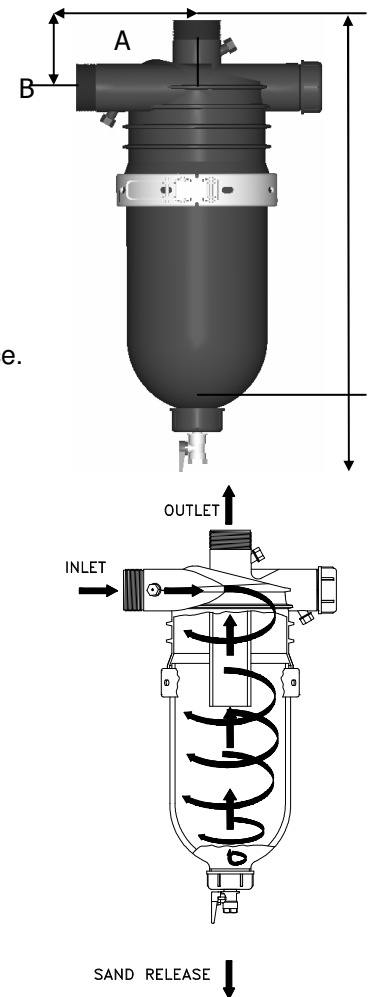


# 2" Sand Separator Hydro Cyclone

- The unit is mounted in a vertical position.
- Water enters through the tangential inlet producing a downward spinning movement. Sediments are pressed against the filter body by centrifugal force.
- Sediments accumulate at the bottom of the filter.
- In order to flush accumulated sediments, a drain valve is installed at the bottom of the unit.



## Applications

- Sand and gravel separation from deep well pumping.
- Pre-filtering of water supplied to laboratories and industry.
- Pre-filtering of drip and micro-sprinkler systems.
- Protective sand removal – prevents wear and tear on sprinkler nozzles.

## Technical Data

|                                   |  |                           |
|-----------------------------------|--|---------------------------|
| Inlet/outlet diameter             | 2" BSPT (male)<br>50 mm – nominal diameter | 2" (male)                 |
| Maximum pressure                  | 12 atm                                     | 168 psi                   |
| Maximum flow rate                 | 25 m <sup>3</sup> /h (7 l/sec)             | 110 gpm                   |
| Minimum flow rate                 | 15 m <sup>3</sup> /h (4 l/sec)             | 66 gpm                    |
| Weight                            | 5.15 kg                                    | 10.4 lbs.                 |
| Sand drainage                     | 20mm thread                                | 3/4" thread               |
| Distance between inlet end outlet | A. 145mm    B. 85mm                        | A. 5 23/32"    B. 3 1/32" |
| Filter length                     | 560mm                                      | 22 1/8"                   |

## Head Loss (metric standard)

## Head Loss (U.S. standard)

|                                 |     |     |      |               |     |     |      |
|---------------------------------|-----|-----|------|---------------|-----|-----|------|
| Flow rate cu. m <sup>3</sup> /h | 15  | 20  | 25   | Flow rate gpm | 60  | 80  | 100  |
| Head loss meter                 | 3.7 | 7.0 | 11.4 | Head loss psi | 4.2 | 8.4 | 12.8 |

## Installation

The Sand Separator may be installed as a single unit or in batteries.

3/4" drain valve must be installed at the bottom of the cover and either manually or hydraulically controlled.

It is highly recommend to install a disc filter after the hydro cyclone to stop organic material.

Periodically open the drain valve so that the sediments can flow out.

## Separation Efficiency (%)

| Flow Rate | Particle size larger than (μ) |     |    |
|-----------|-------------------------------|-----|----|
|           | 150                           | 100 | 50 |
| 15        | 97                            | 94  | 82 |
| 20        | 98                            | 97  | 85 |
| 25        | 99                            | 98  | 90 |

## Parts List

| No. | Description                | Materials |
|-----|----------------------------|-----------|
| 1   | Gauge port nut             | RPP       |
| 2   | Gauge port seal            | EPDM      |
| 3   | 2" Cap                     | RPP       |
| 4   | 2" Nipple                  | PVC       |
| 5   | Clamp                      | SS        |
| 6   | Hydraulic seal             | EPDM      |
| 7   | Erosion preventer          | NR        |
| 8   | Cover                      | RPA       |
| 9   | Sand accumulator           |           |
| 10  | 3/4" Tap                   | BRASS     |
| 11  | Sand accumulator complex   |           |
| 12  | Cover complex              |           |
| 13  | Body complex threaded ends |           |

## Materials

RPP - REINFORCED POLYPROPYLENE

RPA - REINFORCED POLYAMIDE

SS - STAINLESS STEEL

NR - NATURAL RUBBER

