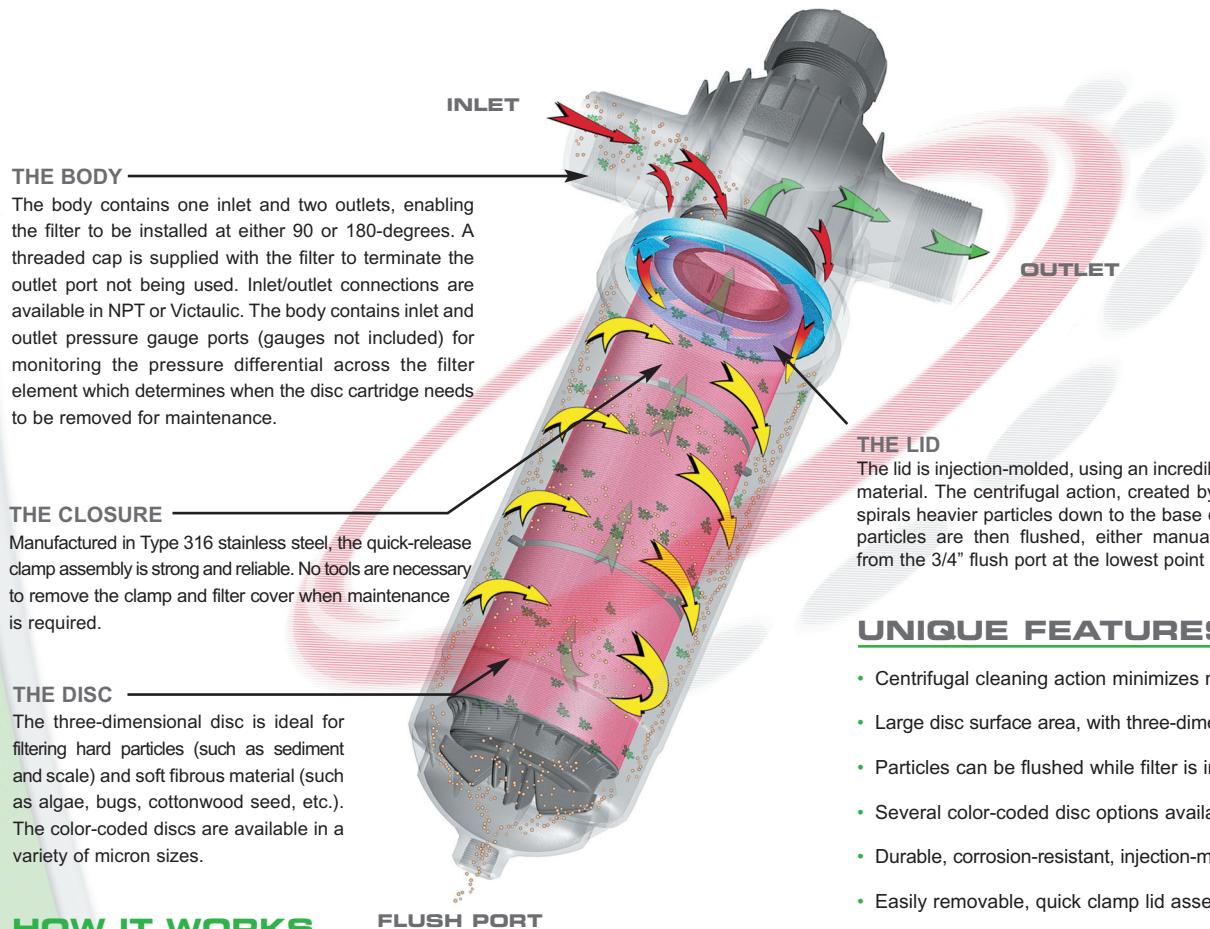




**HD
SERIES**

Miller Leaman's Helix Disc filter models are available in three different sizes: 2", 2" Super and 3" model. The filters can be installed in any orientation; however, it is preferable to install them in the inverted position (3/4" flush port at bottom). This helps the filtration system work at its optimum. As water enters the filter housing, a high velocity centrifugal action occurs, spiraling heavier particles (sediment, scale, etc.) away from the disc cartridge, down to the base of the filter. These accumulated particles are then flushed from the filter via the 3/4" flush port connection at the base of the filter (valve not included).



UNIQUE FEATURES

- Centrifugal cleaning action minimizes maintenance
- Large disc surface area, with three-dimensional depth
- Particles can be flushed while filter is in operation
- Several color-coded disc options available
- Durable, corrosion-resistant, injection-molded housing
- Easily removable, quick clamp lid assembly
- Pressure gauge ports molded into housing

HOW IT WORKS

1. Dirty water enters the filter housing through the inlet connection.
2. As dirty water passes through the Helix-Element, the water starts to spin at high velocity. This centrifugal action spins the particles away from the disc media, minimizing manual cleaning frequency.
3. As particles are spun down to the base of the filter, they are flushed via the 3/4" female threaded flush port connection.
4. The dirty water passes from the outside to the inside of the discs. The grooves, molded into the surface of the three-dimensional discs, trap the remaining contaminants in the water.
5. After passing through the discs, the filtered water flows upward and exits the filter through one of the outlets. The outlet not being used is terminated with a threaded cap.



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**HD
SERIES**

TECHNICAL DATA

Flow Rates for a Single Filter Housing

2"/100 GPM Max.*

2" Super/100 GPM Max.*

3"/200 GPM Max.*

Multiple pods are manifolded for higher flow rates

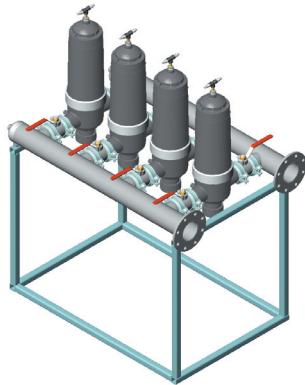
- * Maximum flow rates should be derated for high solids loading, particularly for finer disc media.

Pressure Rating

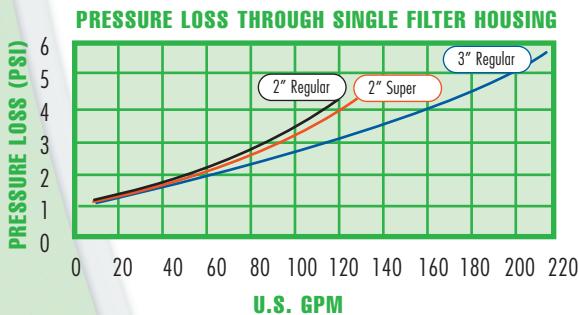
All units rated to 125 PSI

Temperature Rating

All units rated to 140° F



Please contact your dealer about modular capabilities.



Inlet/Outlet Configurations

2" and 3" models available with NPT and/or

Victaulic inlet/outlet connections

In-line and 90-degree configurations standard

(Filter is supplied with a cap for outlet port not being used)

Construction Materials

Housing: Polyamide

Discs: Polypropylene

Gaskets: EPDM

Filter Pod Clamp: Stainless Steel (Type 316)

Micron Options Available

200 Micron (80 Mesh)	100 Micron (150 Mesh)
130 Micron (120 Mesh)	50 Micron (250 Mesh)

Filter Components

- A. BAND-CLAMP ASSEMBLY
- B. REMOVABLE FILTER LID
- C. FILTER BODY
- D. MICRON/MESH DATA PLATE
- E. OUTLET GAUGE PORT (GAUGE NOT INCLUDED)
- F. INLET GAUGE PORT (GAUGE NOT INCLUDED)
- G. FILTER DISC CARTRIDGE
- H. HELIX-ELEMENT
- I. O-RING SEAL
- J. CARTRIDGE COVER PLATE
- K. THREADED WING BOLT
- X. SEE TABLE BELOW
- Y. SEE TABLE BELOW
- Z. SEE TABLE BELOW



MODEL NUMBER	MODEL TYPE	INLET/OUTLET SIZE & TYPE	FILTER SURFACE AREA (SQ. IN.)	FLUSH PORT CONNECTION SIZE	MAXIMUM FLOW (GPM)	MAXIMUM PRESSURE RATING (PSI)	X	Y (SEE DIAGRAM ABOVE)	Z
HD-2NA*	Regular	2"/NPT	186	3/4"	100	125 PSI	12 1/8"	24 1/8"	18"
HD-2SA*	Super	2"/NPT	263	3/4"	100	125 PSI	12 1/8"	28 3/4"	22 15/16"
HD-3NA*	Regular	3"/NPT	263	3/4"	200	125 PSI	13 1/4"	30"	22 15/16"
HD-2NW*	Regular	2"/Victaulic	186	3/4"	100	125 PSI	12 1/8"	24 1/8"	18"
HD-2SW*	Super	2"/Victaulic	263	3/4"	100	125 PSI	12 1/8"	28 3/4"	22 15/16"
HD-3NW*	Regular	3"/Victaulic	263	3/4"	200	125 PSI	13 1/4"	30"	22 15/16"

* 50, 100, 130, & 200 micron options available. Please specify disc size when ordering. Example: HD-2SA-130 = 2" NPT Super with 130 - micron discs.

** Disc cartridges for 2" regular models (HD-2NA and HD-2NW) and 2" super models (HD-2SA and HD-2SW) vary in size. The cartridge for the 2" regular models is 15.5" in height; The cartridge for the 2" super models is 20.5" in height. This means that the 2" super models have approximately 40% more surface area for filtration (186 sq. inches vs. 263 sq. inches).