TRISEP DS MV020

Food & Dairy Spiral Microfiltration

TRISEP sanitary membrane elements for food & dairy applications have a long history of outstanding, stable field performance. NADIR MV020 polyvinylidene fluoride (PVDF) microfiltration membrane with a nominal 0.20 µm pore size offers consistent performance for applications requiring a PVDF MF membrane. TRISEP elements are available with a number of different feed spacers and in all sizes common in the industry. TRISEP DS elements are built with FDA compliant materials, are compliant with European food regulations (EU 10/2011 and EC 1935/2004) and comply with USDA standards.

MEMBRANE CHARACTERISTICS

Membrane	NADIR MV020
Membrane Chemistry	PVDF
Pore Size	0.20 µm

MODULE SPECIFICATIONS

Model	Membrane Area-m^2 (ft^2)	Feed Spacer Thickness (mil)[a]
TRISEP DS MV020 3838-46	5.7 (61)	46
TRISEP DS MV020 6338-31	20.5 (221)	31
TRISEP DS MV020 6338-46	17.1 (184)	46
TRISEP DS MV020 8038-31	33.9 (365)	31
TRISEP DS MV020 8038-46	29.2 (314)	46
TRISEP DS MV020 8038-65	23.0 (248)	65
TRISEP DS MV020 8038-80	19.8 (213)	80

a. All models on this sheet have a netting outer wrap and diamond shaped feed spacers.

OPERATING PARAMETERS

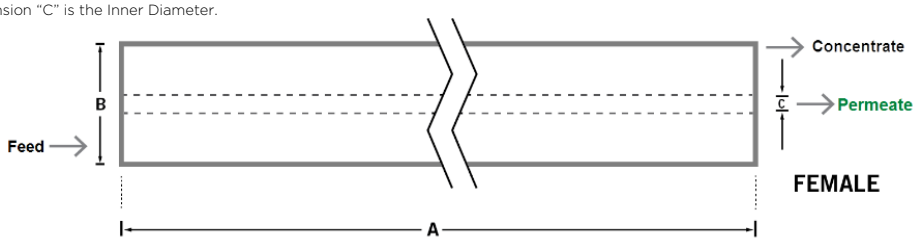
Maximum Operating Pressure	10 bar (145 psi)
Maximum Operating Temperature	50°C (122°F)
Cleaning pH/Temperature Range[1]	1.5 – 11.5 at 50°C (122°F)
Cleaning Chlorine Tolerance	200 ppm for sanitization at pH ≥ 10.5
Maximum Pressure Drop	1 bar (15 psi) per element; 4 bar (60 psi) per housing

1 Refer to temperature and pH limits in Membrane Cleaning Guide – Food & Dairy: UF & MF Elements (TSG-C-004).

PHYSICAL DIMENSIONS

Model	Element Weight - kg (lb)[b]	Dim. A-mm (inches)	Dim. B-mm (inches)	Dim. C-mm (inches)[c]	Permeate Tube
TRISEP DS MV020 3838-46	4 (9)	965 (38.0)	96 (3.8)	21.1 (0.83)	Female
TRISEP DS MV020 6338-31	11 (24)	965 (38.0)	162 (6.3)	28.9 (1.138)	Female
TRISEP DS MV020 6338-46	11 (24)	965 (38.0)	162 (6.3)	28.9 (1.138)	Female
TRISEP DS MV020 8038-31	16 (36)	965 (38.0)	201 (7.9)	28.9 (1.138)	Female
TRISEP DS MV020 8038-46	16 (36)	965 (38.0)	201 (7.9)	28.9 (1.138)	Female
TRISEP DS MV020 8038-65	16 (36)	965 (38.0)	201 (7.9)	28.9 (1.138)	Female
TRISEP DS MV020 8038-80	16 (36)	965 (38.0)	201 (7.9)	28.9 (1.138)	Female

b Shipping weight is dependent on packaging material and quantity shipped.
c Dimension "C" is the Inner Diameter.



IMPORTANT INFORMATION

Start-up: MANN+HUMMEL Water & Fluid Solutions recommends flushing elements for 30 minutes at low pressure and discarding permeate during the flush prior to operation. For a more detailed start-up procedure, please see Element Start-Up Guide – System Start-Up (TSG-O-005).

Cleaning: TRISEP membrane elements must be cleaned periodically to ensure proper operation and to prevent membrane damage. Please see Membrane Cleaning Guide – Food & Dairy: UF & MF Elements (TSG-C-004).

Storage: TRISEP membrane elements must be stored appropriately to ensure proper operation and to prevent membrane damage. Please see Element Storage Guides (TSG-O-009 & TSG-O-010).

Regulatory: All models on this sheet conform to USDA 3A sanitary standard 45-03, use FDA (CFR Title 21) compliant materials, comply with EU regulation (EC) No. 1935/2004 and No. 10/2011, and have Halal and Kosher certifications.

CUSTOMIZABLE SPECIALTY ELEMENTS

MANN+HUMMEL Water & Membrane Solutions offers a full range of membranes and element designs for challenging water and process applications. Technologies include low-fouling RO, submerged and pressurized UF, continuous high temperature, ultra-high pressure, unique sanitary designs and more. Contact us to customize a product that satisfies your specific requirement

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