

MEMBRANE HOUSING

DETAILED OVERVIEW FOR TYPE 'MH-8-12'
LOW PRESSURE - 12 BAR

FOR NF AND RO FILTRATION



In the food and beverage industry membrane housings are often used in systems to reduce or eliminate microbials to make products safe for consumption and to extend their shelf life. We produce membrane housings for membrane filtration in the food industry for liquid-containing products such as juice, beer, soy, whey, milk, milk powder, chocolate etc.

Content

Introduction	3
Regulations and Directives	3
Documentation	3
Group specifications	4
Unit specifications	4
Connections	4
MH-8-12bar-1-element - Model A	5
MH-8-12bar-1-element - Model C	6
MH-8-12bar-2-element - Model A	7
MH-8-12bar-2-element - Model C	8
MH-8-12bar-3-element - Model A	9
MH-8-12bar-3-element - Model C	10
MH-8-12bar-4-element - Model A	11
MH-8-12bar-4-element - Model C	12
MH-8-12bar-5-element - Model A	13
MH-8-12bar-5-element - Model C	14
MH-8-12bar-6-element - Model A	15
MH-8-12bar-6-element - Model C	16

Introduction

This overview is for Membrane Housings with collaring connections manufactured by Wila A/S under the category "MH" hereinafter referred to as "Membrane Housing". A Membrane Housing is a tubular pressure vessel with a single inlet (Feed) on the shell side, an unfiltered outlet (Retentate) on the shell side and a filtered outlet (Permeate) out from one of the end centers.

The membranes and ATD's, that are also required for the filtration process, are not a part of the membrane housing, but Wila's own hygienic, easy to CIP clean, stainless steel ATD's can also be supplied upon request.

The Membrane Housing is made from EN 1.4404 (AISI 316L) stainless steel with a sanitary surface finish. The inside surface roughness is $\leq 0,8 \mu\text{m}$ and the outside surface roughness is $\leq 1,6 \mu\text{m}$.

All fluid media in use with the Membrane housing must be compatible with EN 1.4404 (AISI 316L) Stainless steel.

The Membrane Housing is designed for pressures up to 12 bar and temperatures up to 70°C, but other types, sizes and pressure ratings are also available.

Regulations and Directives

The membrane housing is designed and manufactured in accordance with

- the European Commission regulation No. 2023/2006 (Good Manufacturing Practices)
- the European Parliament directive No. EN 1935/2004 (Food Contact Materials).
- the European Parliament directive No. EN 1907/2006 (Chemical Restrictions (REACH)).
- PED - Article 4.3 (SEP) in the European Parliament directive No. 2014/68/EU (Pressure Equipment Directive). The membrane housing is only designed for fluid group 2 (non-dangerous fluids).

Documentation

1. Customer drawing with description and design data table
2. Declaration of conformity
3. User Manual

As Supplement the following can be provided:

4. 3.1 material certificates according to EN 10204
5. Weld-logs with associated welding certificates according to DS/EN ISO 9601-1.

Group specifications

Group ordering codes and specifications are as listed below. A more detailed group tables with unit codes and main dimensions can be found on the following pages.

MH-8-12bar-X-element – Model _

MH	Membrane Housing with collaring connections for Feed and Retentate.	
8	The membrane housing is designed for 7.9" x 38" (8038) membranes.	
12bar	The Membrane Housing is designed for pressures up to 12 bar and temperatures up to 70°C	
X	From 1 to 6 elements	Indicates the number of elements that can be fitted.
_	Either A or C *	Indicates Feed and Retentate connection arrangement.

*Other connection arrangements are available

Unit specifications

MH-8-12-X-YY-ZZ-_

X	From 1 to 6 elements	Indicates the number of elements that can be fitted.
YY	76 - 65 - 63 - 51 - 50***	Indicates Feed and Retentate collaring connections.
ZZ	38 - 25 - 40 - 26**	Indicates Permeate end clamp ferrule connection.
_	Either A or C *	Indicates Feed and Retentate connection arrangement.

*Other connection arrangements are available

**Clamp ferrule connections sizes - Other types and sizes are available

38 - 25	translates respectively to Ø38 - Ø25	in accordance with ISO 2852-2
40 - 26	translates respectively to DN40 - DN25	in accordance with DIN 32676-A

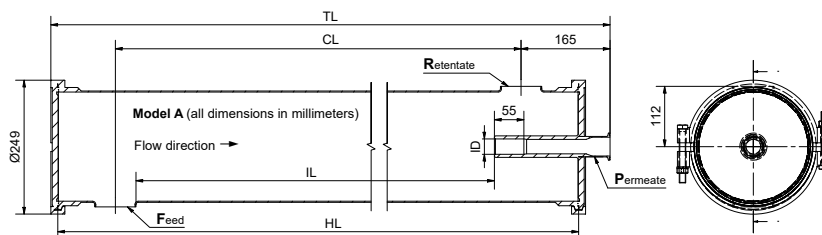
***Collaring connections sizes - Other sizes are available

76 - 63 - 51	translates respectively to Ø76 - Ø63.5 - Ø51
65 - 50	translates respectively to DN65 - DN50

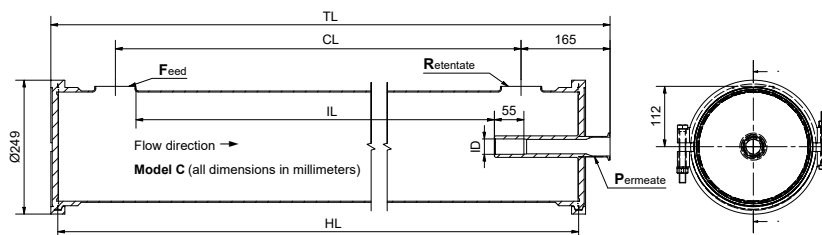
Connections

For Feed and Retentate only use weld ends with a minimum 2 mm wall thickness. For the Permeate connection an SH clamp is recommended, but always follow your fitting supplier guidelines and local legislations. The Membrane Housing should be installed with the Retentate outlet at the highest point for better air venting.

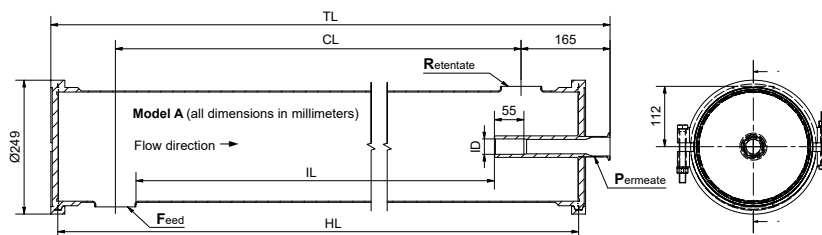
Temperature and pressure limits must be respected at all times !



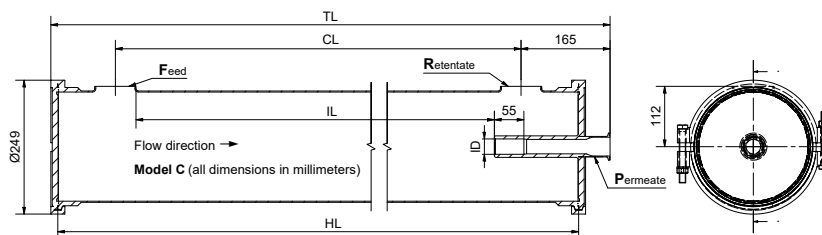
MH-8-12bar-1-element - Model A		Element type 8038		Maximum pressure / Maximum temperature					
		Quantity	Permeate	12 barg / 70°C		Volume 41 liters		Dry weight 30 kg	
Stock number	Drawing number	7.9" dia.	ID	F&R	P	TL	HL	CL	IL
MH-8-12-1-76-38-A	W-022792	1 x 38"	Ø28.9	Ø76	Ø38	1380	1309	1095	1007
MH-8-12-1-63-38-A	W-023993	1 x 38"	Ø28.9	Ø63.5	Ø38	1380	1309	1095	1013
MH-8-12-1-51-38-A	W-023999	1 x 38"	Ø28.9	Ø51	Ø38	1380	1309	1095	1019
MH-8-12-1-65-38-A	W-024005	1 x 38"	Ø28.9	DN65	Ø38	1380	1309	1095	1010
MH-8-12-1-50-38-A	W-024011	1 x 38"	Ø28.9	DN50	Ø38	1380	1309	1095	1018
MH-8-12-1-76-25-A	W-024017	1 x 38"	Ø28.9	Ø76	Ø25	1380	1309	1095	1007
MH-8-12-1-63-25-A	W-024023	1 x 38"	Ø28.9	Ø63.5	Ø25	1380	1309	1095	1013
MH-8-12-1-51-25-A	W-024029	1 x 38"	Ø28.9	Ø51	Ø25	1380	1309	1095	1019
MH-8-12-1-65-25-A	W-024035	1 x 38"	Ø28.9	DN65	Ø25	1380	1309	1095	1010
MH-8-12-1-50-25-A	W-024041	1 x 38"	Ø28.9	DN50	Ø25	1380	1309	1095	1018
MH-8-12-1-76-40-A	W-024047	1 x 38"	Ø28.9	Ø76	DN40	1380	1309	1095	1007
MH-8-12-1-63-40-A	W-024053	1 x 38"	Ø28.9	Ø63.5	DN40	1380	1309	1095	1013
MH-8-12-1-51-40-A	W-024059	1 x 38"	Ø28.9	Ø51	DN40	1380	1309	1095	1019
MH-8-12-1-65-40-A	W-024065	1 x 38"	Ø28.9	DN65	DN40	1380	1309	1095	1010
MH-8-12-1-50-40-A	W-024071	1 x 38"	Ø28.9	DN50	DN40	1380	1309	1095	1018
MH-8-12-1-76-26-A	W-024077	1 x 38"	Ø28.9	Ø76	DN25	1380	1309	1095	1007
MH-8-12-1-63-26-A	W-024083	1 x 38"	Ø28.9	Ø63.5	DN25	1380	1309	1095	1013
MH-8-12-1-51-26-A	W-024089	1 x 38"	Ø28.9	Ø51	DN25	1380	1309	1095	1019
MH-8-12-1-65-26-A	W-024095	1 x 38"	Ø28.9	DN65	DN25	1380	1309	1095	1010
MH-8-12-1-50-26-A	W-024101	1 x 38"	Ø28.9	DN50	DN25	1380	1309	1095	1018



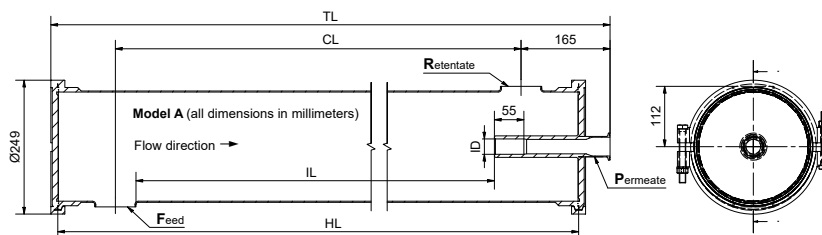
MH-8-12bar-1-element - Model C		Element type 8038		Maximum pressure / Maximum temperature					
		Quantity	Permeate	12 barg / 70°C		Volume 41 liters		Dry weight 30 kg	
Stock number	Drawing number	7.9" dia.	ID	F&R	P	TL	HL	CL	IL
MH-8-12-1-76-38-C	W-024107	1 x 38"	Ø28.9	Ø76	Ø38	1380	1309	1095	1007
MH-8-12-1-63-38-C	W-024113	1 x 38"	Ø28.9	Ø63.5	Ø38	1380	1309	1095	1013
MH-8-12-1-51-38-C	W-024119	1 x 38"	Ø28.9	Ø51	Ø38	1380	1309	1095	1019
MH-8-12-1-65-38-C	W-024125	1 x 38"	Ø28.9	DN65	Ø38	1380	1309	1095	1010
MH-8-12-1-50-38-C	W-024131	1 x 38"	Ø28.9	DN50	Ø38	1380	1309	1095	1018
MH-8-12-1-76-25-C	W-024137	1 x 38"	Ø28.9	Ø76	Ø25	1380	1309	1095	1007
MH-8-12-1-63-25-C	W-024143	1 x 38"	Ø28.9	Ø63.5	Ø25	1380	1309	1095	1013
MH-8-12-1-51-25-C	W-024149	1 x 38"	Ø28.9	Ø51	Ø25	1380	1309	1095	1019
MH-8-12-1-65-25-C	W-024155	1 x 38"	Ø28.9	DN65	Ø25	1380	1309	1095	1010
MH-8-12-1-50-25-C	W-024161	1 x 38"	Ø28.9	DN50	Ø25	1380	1309	1095	1018
MH-8-12-1-76-40-C	W-024167	1 x 38"	Ø28.9	Ø76	DN40	1380	1309	1095	1007
MH-8-12-1-63-40-C	W-024173	1 x 38"	Ø28.9	Ø63.5	DN40	1380	1309	1095	1013
MH-8-12-1-51-40-C	W-024179	1 x 38"	Ø28.9	Ø51	DN40	1380	1309	1095	1019
MH-8-12-1-65-40-C	W-024185	1 x 38"	Ø28.9	DN65	DN40	1380	1309	1095	1010
MH-8-12-1-50-40-C	W-024191	1 x 38"	Ø28.9	DN50	DN40	1380	1309	1095	1018
MH-8-12-1-76-26-C	W-024197	1 x 38"	Ø28.9	Ø76	DN25	1380	1309	1095	1007
MH-8-12-1-63-26-C	W-024203	1 x 38"	Ø28.9	Ø63.5	DN25	1380	1309	1095	1013
MH-8-12-1-51-26-C	W-024209	1 x 38"	Ø28.9	Ø51	DN25	1380	1309	1095	1019
MH-8-12-1-65-26-C	W-024215	1 x 38"	Ø28.9	DN65	DN25	1380	1309	1095	1010
MH-8-12-1-50-26-C	W-024221	1 x 38"	Ø28.9	DN50	DN25	1380	1309	1095	1018



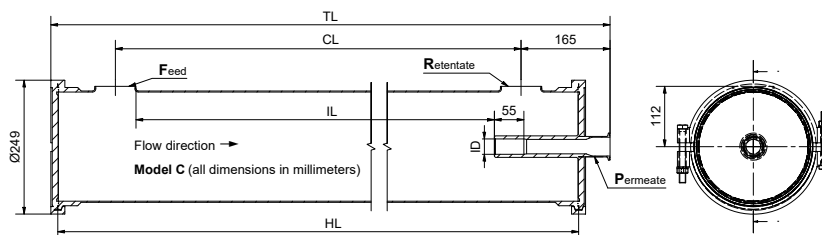
MH-8-12bar-2-element - Model A		Element type 8038		Maximum pressure / Maximum temperature					
		Quantity	Permeate	12 barg / 70°C		Volume 72 liters		Dry weight 42 kg	
Stock number	Drawing number	7.9" dia.	ID	F&R	P	TL	HL	CL	IL
MH-8-12-2-76-38-A	W-022793	2 x 38"	Ø28.9	Ø76	Ø38	2360	2289	2075	1987
MH-8-12-2-63-38-A	W-023994	2 x 38"	Ø28.9	Ø63.5	Ø38	2360	2289	2075	1993
MH-8-12-2-51-38-A	W-024000	2 x 38"	Ø28.9	Ø51	Ø38	2360	2289	2075	1999
MH-8-12-2-65-38-A	W-024006	2 x 38"	Ø28.9	DN65	Ø38	2360	2289	2075	1990
MH-8-12-2-50-38-A	W-024012	2 x 38"	Ø28.9	DN50	Ø38	2360	2289	2075	1998
MH-8-12-2-76-25-A	W-024018	2 x 38"	Ø28.9	Ø76	Ø25	2360	2289	2075	1987
MH-8-12-2-63-25-A	W-024024	2 x 38"	Ø28.9	Ø63.5	Ø25	2360	2289	2075	1993
MH-8-12-2-51-25-A	W-024030	2 x 38"	Ø28.9	Ø51	Ø25	2360	2289	2075	1999
MH-8-12-2-65-25-A	W-024036	2 x 38"	Ø28.9	DN65	Ø25	2360	2289	2075	1990
MH-8-12-2-50-25-A	W-024042	2 x 38"	Ø28.9	DN50	Ø25	2360	2289	2075	1998
MH-8-12-2-76-40-A	W-024048	2 x 38"	Ø28.9	Ø76	DN40	2360	2289	2075	1987
MH-8-12-2-63-40-A	W-024054	2 x 38"	Ø28.9	Ø63.5	DN40	2360	2289	2075	1993
MH-8-12-2-51-40-A	W-024060	2 x 38"	Ø28.9	Ø51	DN40	2360	2289	2075	1999
MH-8-12-2-65-40-A	W-024066	2 x 38"	Ø28.9	DN65	DN40	2360	2289	2075	1990
MH-8-12-2-50-40-A	W-024072	2 x 38"	Ø28.9	DN50	DN40	2360	2289	2075	1998
MH-8-12-2-76-26-A	W-024078	2 x 38"	Ø28.9	Ø76	DN25	2360	2289	2075	1987
MH-8-12-2-63-26-A	W-024084	2 x 38"	Ø28.9	Ø63.5	DN25	2360	2289	2075	1993
MH-8-12-2-51-26-A	W-024090	2 x 38"	Ø28.9	Ø51	DN25	2360	2289	2075	1999
MH-8-12-2-65-26-A	W-024096	2 x 38"	Ø28.9	DN65	DN25	2360	2289	2075	1990
MH-8-12-2-50-26-A	W-024102	2 x 38"	Ø28.9	DN50	DN25	2360	2289	2075	1998



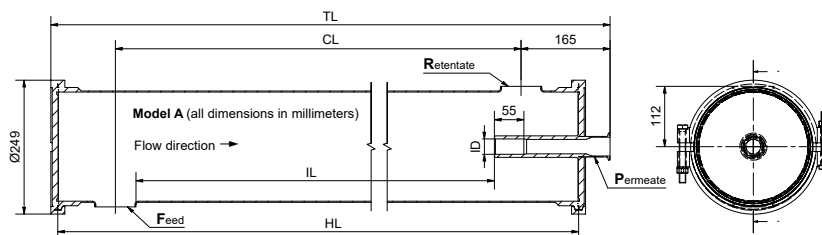
MH-8-12bar-2-element - Model C		Element type 8038		Maximum pressure / Maximum temperature					
		Quantity	Permeate	12 barg / 70°C		Volume 72 liters		Dry weight 42 kg	
Stock number	Drawing number	7.9" dia.	ID	F&R	P	TL	HL	CL	IL
MH-8-12-2-76-38-C	W-024108	2 x 38"	Ø28.9	Ø76	Ø38	2360	2289	2075	1987
MH-8-12-2-63-38-C	W-024114	2 x 38"	Ø28.9	Ø63.5	Ø38	2360	2289	2075	1993
MH-8-12-2-51-38-C	W-024120	2 x 38"	Ø28.9	Ø51	Ø38	2360	2289	2075	1999
MH-8-12-2-65-38-C	W-024126	2 x 38"	Ø28.9	DN65	Ø38	2360	2289	2075	1990
MH-8-12-2-50-38-C	W-024132	2 x 38"	Ø28.9	DN50	Ø38	2360	2289	2075	1998
MH-8-12-2-76-25-C	W-024138	2 x 38"	Ø28.9	Ø76	Ø25	2360	2289	2075	1987
MH-8-12-2-63-25-C	W-024144	2 x 38"	Ø28.9	Ø63.5	Ø25	2360	2289	2075	1993
MH-8-12-2-51-25-C	W-024150	2 x 38"	Ø28.9	Ø51	Ø25	2360	2289	2075	1999
MH-8-12-2-65-25-C	W-024156	2 x 38"	Ø28.9	DN65	Ø25	2360	2289	2075	1990
MH-8-12-2-50-25-C	W-024162	2 x 38"	Ø28.9	DN50	Ø25	2360	2289	2075	1998
MH-8-12-2-76-40-C	W-024168	2 x 38"	Ø28.9	Ø76	DN40	2360	2289	2075	1987
MH-8-12-2-63-40-C	W-024174	2 x 38"	Ø28.9	Ø63.5	DN40	2360	2289	2075	1993
MH-8-12-2-51-40-C	W-024180	2 x 38"	Ø28.9	Ø51	DN40	2360	2289	2075	1999
MH-8-12-2-65-40-C	W-024186	2 x 38"	Ø28.9	DN65	DN40	2360	2289	2075	1990
MH-8-12-2-50-40-C	W-024192	2 x 38"	Ø28.9	DN50	DN40	2360	2289	2075	1998
MH-8-12-2-76-26-C	W-024198	2 x 38"	Ø28.9	Ø76	DN25	2360	2289	2075	1987
MH-8-12-2-63-26-C	W-024204	2 x 38"	Ø28.9	Ø63.5	DN25	2360	2289	2075	1993
MH-8-12-2-51-26-C	W-024210	2 x 38"	Ø28.9	Ø51	DN25	2360	2289	2075	1999
MH-8-12-2-65-26-C	W-024216	2 x 38"	Ø28.9	DN65	DN25	2360	2289	2075	1990
MH-8-12-2-50-26-C	W-024222	2 x 38"	Ø28.9	DN50	DN25	2360	2289	2075	1998



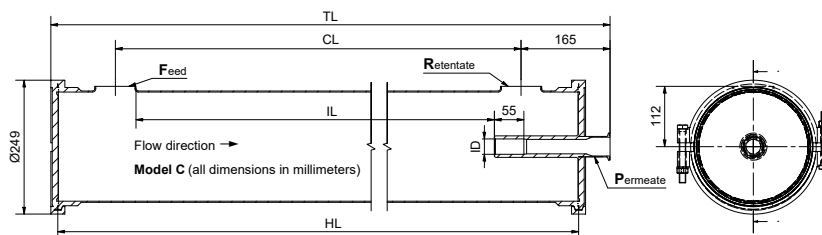
MH-8-12bar-3-element - Model A		Element type 8038		Maximum pressure / Maximum temperature					
		Quantity	Permeate	12 barg / 70°C		Volume 104 liters		Dry weight 53 kg	
Stock number	Drawing number	7.9" dia.	ID	F&R	P	TL	HL	CL	IL
MH-8-12-3-76-38-A	W-022794	3 x 38"	Ø28.9	Ø76	Ø38	3345	3274	3060	2972
MH-8-12-3-63-38-A	W-023995	3 x 38"	Ø28.9	Ø63.5	Ø38	3345	3274	3060	2978
MH-8-12-3-51-38-A	W-024001	3 x 38"	Ø28.9	Ø51	Ø38	3345	3274	3060	2984
MH-8-12-3-65-38-A	W-024007	3 x 38"	Ø28.9	DN65	Ø38	3345	3274	3060	2975
MH-8-12-3-50-38-A	W-024013	3 x 38"	Ø28.9	DN50	Ø38	3345	3274	3060	2983
MH-8-12-3-76-25-A	W-024019	3 x 38"	Ø28.9	Ø76	Ø25	3345	3274	3060	2972
MH-8-12-3-63-25-A	W-024025	3 x 38"	Ø28.9	Ø63.5	Ø25	3345	3274	3060	2978
MH-8-12-3-51-25-A	W-024031	3 x 38"	Ø28.9	Ø51	Ø25	3345	3274	3060	2984
MH-8-12-3-65-25-A	W-024037	3 x 38"	Ø28.9	DN65	Ø25	3345	3274	3060	2975
MH-8-12-3-50-25-A	W-024043	3 x 38"	Ø28.9	DN50	Ø25	3345	3274	3060	2983
MH-8-12-3-76-40-A	W-024049	3 x 38"	Ø28.9	Ø76	DN40	3345	3274	3060	2972
MH-8-12-3-63-40-A	W-024055	3 x 38"	Ø28.9	Ø63.5	DN40	3345	3274	3060	2978
MH-8-12-3-51-40-A	W-024061	3 x 38"	Ø28.9	Ø51	DN40	3345	3274	3060	2984
MH-8-12-3-65-40-A	W-024067	3 x 38"	Ø28.9	DN65	DN40	3345	3274	3060	2975
MH-8-12-3-50-40-A	W-024073	3 x 38"	Ø28.9	DN50	DN40	3345	3274	3060	2983
MH-8-12-3-76-26-A	W-024079	3 x 38"	Ø28.9	Ø76	DN25	3345	3274	3060	2972
MH-8-12-3-63-26-A	W-024085	3 x 38"	Ø28.9	Ø63.5	DN25	3345	3274	3060	2978
MH-8-12-3-51-26-A	W-024091	3 x 38"	Ø28.9	Ø51	DN25	3345	3274	3060	2984
MH-8-12-3-65-26-A	W-024097	3 x 38"	Ø28.9	DN65	DN25	3345	3274	3060	2975
MH-8-12-3-50-26-A	W-024103	3 x 38"	Ø28.9	DN50	DN25	3345	3274	3060	2983



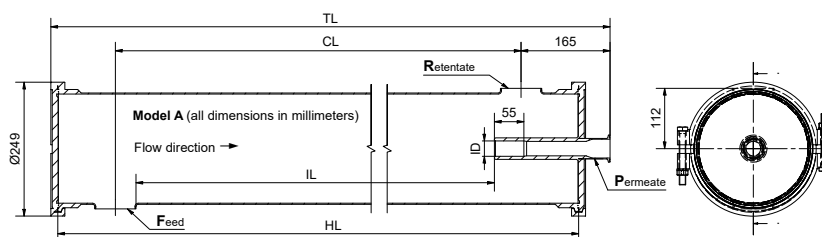
MH-8-12bar-3-element - Model C		Element type 8038		Maximum pressure / Maximum temperature					
		Quantity	Permeate	12 barg / 70°C		Volume 104 liters		Dry weight 53 kg	
Stock number	Drawing number	7.9" dia.	ID	F&R	P	TL	HL	CL	IL
MH-8-12-3-76-38-C	W-024109	3 x 38"	Ø28.9	Ø76	Ø38	3345	3274	3060	2972
MH-8-12-3-63-38-C	W-024115	3 x 38"	Ø28.9	Ø63.5	Ø38	3345	3274	3060	2978
MH-8-12-3-51-38-C	W-024121	3 x 38"	Ø28.9	Ø51	Ø38	3345	3274	3060	2984
MH-8-12-3-65-38-C	W-024127	3 x 38"	Ø28.9	DN65	Ø38	3345	3274	3060	2975
MH-8-12-3-50-38-C	W-024133	3 x 38"	Ø28.9	DN50	Ø38	3345	3274	3060	2983
MH-8-12-3-76-25-C	W-024139	3 x 38"	Ø28.9	Ø76	Ø25	3345	3274	3060	2972
MH-8-12-3-63-25-C	W-024145	3 x 38"	Ø28.9	Ø63.5	Ø25	3345	3274	3060	2978
MH-8-12-3-51-25-C	W-024151	3 x 38"	Ø28.9	Ø51	Ø25	3345	3274	3060	2984
MH-8-12-3-65-25-C	W-024157	3 x 38"	Ø28.9	DN65	Ø25	3345	3274	3060	2975
MH-8-12-3-50-25-C	W-024163	3 x 38"	Ø28.9	DN50	Ø25	3345	3274	3060	2983
MH-8-12-3-76-40-C	W-024169	3 x 38"	Ø28.9	Ø76	DN40	3345	3274	3060	2972
MH-8-12-3-63-40-C	W-024175	3 x 38"	Ø28.9	Ø63.5	DN40	3345	3274	3060	2978
MH-8-12-3-51-40-C	W-024181	3 x 38"	Ø28.9	Ø51	DN40	3345	3274	3060	2984
MH-8-12-3-65-40-C	W-024187	3 x 38"	Ø28.9	DN65	DN40	3345	3274	3060	2975
MH-8-12-3-50-40-C	W-024193	3 x 38"	Ø28.9	DN50	DN40	3345	3274	3060	2983
MH-8-12-3-76-26-C	W-024199	3 x 38"	Ø28.9	Ø76	DN25	3345	3274	3060	2972
MH-8-12-3-63-26-C	W-024205	3 x 38"	Ø28.9	Ø63.5	DN25	3345	3274	3060	2978
MH-8-12-3-51-26-C	W-024211	3 x 38"	Ø28.9	Ø51	DN25	3345	3274	3060	2984
MH-8-12-3-65-26-C	W-024217	3 x 38"	Ø28.9	DN65	DN25	3345	3274	3060	2975
MH-8-12-3-50-26-C	W-024223	3 x 38"	Ø28.9	DN50	DN25	3345	3274	3060	2983



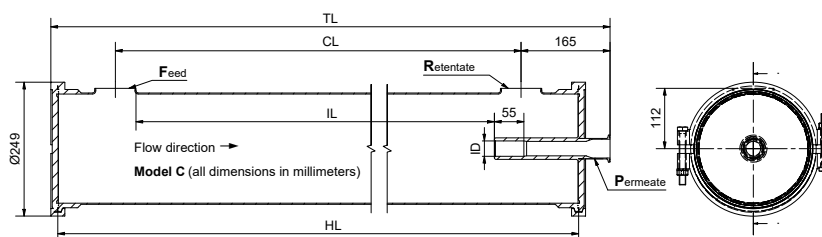
MH-8-12bar-4-element - Model A		Element type 8038		Maximum pressure / Maximum temperature					
		Quantity	Permeate	12 barg / 70°C		Volume 136 liters		Dry weight 64 kg	
Stock number	Drawing number	7.9" dia.	ID	F&R	P	TL	HL	CL	IL
MH-8-12-4-76-38-A	W-022795	4 x 38"	Ø28.9	Ø76	Ø38	4325	4254	4040	3952
MH-8-12-4-63-38-A	W-023996	4 x 38"	Ø28.9	Ø63.5	Ø38	4325	4254	4040	3958
MH-8-12-4-51-38-A	W-024002	4 x 38"	Ø28.9	Ø51	Ø38	4325	4254	4040	3964
MH-8-12-4-65-38-A	W-024008	4 x 38"	Ø28.9	DN65	Ø38	4325	4254	4040	3955
MH-8-12-4-50-38-A	W-024014	4 x 38"	Ø28.9	DN50	Ø38	4325	4254	4040	3963
MH-8-12-4-76-25-A	W-024020	4 x 38"	Ø28.9	Ø76	Ø25	4325	4254	4040	3952
MH-8-12-4-63-25-A	W-024026	4 x 38"	Ø28.9	Ø63.5	Ø25	4325	4254	4040	3958
MH-8-12-4-51-25-A	W-024032	4 x 38"	Ø28.9	Ø51	Ø25	4325	4254	4040	3964
MH-8-12-4-65-25-A	W-024038	4 x 38"	Ø28.9	DN65	Ø25	4325	4254	4040	3955
MH-8-12-4-50-25-A	W-024044	4 x 38"	Ø28.9	DN50	Ø25	4325	4254	4040	3963
MH-8-12-4-76-40-A	W-024050	4 x 38"	Ø28.9	Ø76	DN40	4325	4254	4040	3952
MH-8-12-4-63-40-A	W-024056	4 x 38"	Ø28.9	Ø63.5	DN40	4325	4254	4040	3958
MH-8-12-4-51-40-A	W-024062	4 x 38"	Ø28.9	Ø51	DN40	4325	4254	4040	3964
MH-8-12-4-65-40-A	W-024068	4 x 38"	Ø28.9	DN65	DN40	4325	4254	4040	3955
MH-8-12-4-50-40-A	W-024074	4 x 38"	Ø28.9	DN50	DN40	4325	4254	4040	3963
MH-8-12-4-76-26-A	W-024080	4 x 38"	Ø28.9	Ø76	DN25	4325	4254	4040	3952
MH-8-12-4-63-26-A	W-024086	4 x 38"	Ø28.9	Ø63.5	DN25	4325	4254	4040	3958
MH-8-12-4-51-26-A	W-024092	4 x 38"	Ø28.9	Ø51	DN25	4325	4254	4040	3964
MH-8-12-4-65-26-A	W-024098	4 x 38"	Ø28.9	DN65	DN25	4325	4254	4040	3955
MH-8-12-4-50-26-A	W-024104	4 x 38"	Ø28.9	DN50	DN25	4325	4254	4040	3963



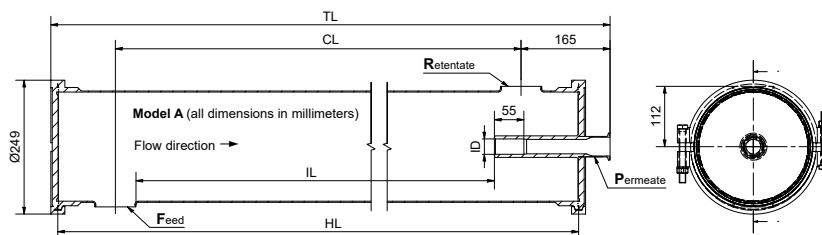
MH-8-12bar-4-element - Model C		Element type 8038		Maximum pressure / Maximum temperature					
		Quantity	Permeate	12 barg / 70°C		Volume 136 liters		Dry weight 64 kg	
Stock number	Drawing number	7.9" dia.	ID	F&R	P	TL	HL	CL	IL
MH-8-12-4-76-38-C	W-024110	4 x 38"	Ø28.9	Ø76	Ø38	4325	4254	4040	3952
MH-8-12-4-63-38-C	W-024116	4 x 38"	Ø28.9	Ø63.5	Ø38	4325	4254	4040	3958
MH-8-12-4-51-38-C	W-024122	4 x 38"	Ø28.9	Ø51	Ø38	4325	4254	4040	3964
MH-8-12-4-65-38-C	W-024128	4 x 38"	Ø28.9	DN65	Ø38	4325	4254	4040	3955
MH-8-12-4-50-38-C	W-024134	4 x 38"	Ø28.9	DN50	Ø38	4325	4254	4040	3963
MH-8-12-4-76-25-C	W-024140	4 x 38"	Ø28.9	Ø76	Ø25	4325	4254	4040	3952
MH-8-12-4-63-25-C	W-024146	4 x 38"	Ø28.9	Ø63.5	Ø25	4325	4254	4040	3958
MH-8-12-4-51-25-C	W-024152	4 x 38"	Ø28.9	Ø51	Ø25	4325	4254	4040	3964
MH-8-12-4-65-25-C	W-024158	4 x 38"	Ø28.9	DN65	Ø25	4325	4254	4040	3955
MH-8-12-4-50-25-C	W-024164	4 x 38"	Ø28.9	DN50	Ø25	4325	4254	4040	3963
MH-8-12-4-76-40-C	W-024170	4 x 38"	Ø28.9	Ø76	DN40	4325	4254	4040	3952
MH-8-12-4-63-40-C	W-024176	4 x 38"	Ø28.9	Ø63.5	DN40	4325	4254	4040	3958
MH-8-12-4-51-40-C	W-024182	4 x 38"	Ø28.9	Ø51	DN40	4325	4254	4040	3964
MH-8-12-4-65-40-C	W-024188	4 x 38"	Ø28.9	DN65	DN40	4325	4254	4040	3955
MH-8-12-4-50-40-C	W-024194	4 x 38"	Ø28.9	DN50	DN40	4325	4254	4040	3963
MH-8-12-4-76-26-C	W-024200	4 x 38"	Ø28.9	Ø76	DN25	4325	4254	4040	3952
MH-8-12-4-63-26-C	W-024206	4 x 38"	Ø28.9	Ø63.5	DN25	4325	4254	4040	3958
MH-8-12-4-51-26-C	W-024212	4 x 38"	Ø28.9	Ø51	DN25	4325	4254	4040	3964
MH-8-12-4-65-26-C	W-024218	4 x 38"	Ø28.9	DN65	DN25	4325	4254	4040	3955
MH-8-12-4-50-26-C	W-024224	4 x 38"	Ø28.9	DN50	DN25	4325	4254	4040	3963



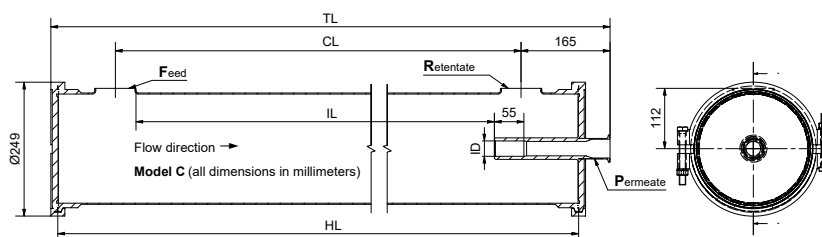
MH-8-12bar-5-element - Model A		Element type 8038		Maximum pressure / Maximum temperature					
		Quantity	Permeate	12 barg / 70°C		Volume 168 liters		Dry weight 76 kg	
Stock number	Drawing number	7.9" dia.	ID	F&R	P	TL	HL	CL	IL
MH-8-12-5-76-38-A	W-022796	5 x 38"	Ø28.9	Ø76	Ø38	5310	5239	5025	4937
MH-8-12-5-63-38-A	W-023997	5 x 38"	Ø28.9	Ø63.5	Ø38	5310	5239	5025	4943
MH-8-12-5-51-38-A	W-024003	5 x 38"	Ø28.9	Ø51	Ø38	5310	5239	5025	4949
MH-8-12-5-65-38-A	W-024009	5 x 38"	Ø28.9	DN65	Ø38	5310	5239	5025	4940
MH-8-12-5-50-38-A	W-024015	5 x 38"	Ø28.9	DN50	Ø38	5310	5239	5025	4948
MH-8-12-5-76-25-A	W-024021	5 x 38"	Ø28.9	Ø76	Ø25	5310	5239	5025	4937
MH-8-12-5-63-25-A	W-024027	5 x 38"	Ø28.9	Ø63.5	Ø25	5310	5239	5025	4943
MH-8-12-5-51-25-A	W-024033	5 x 38"	Ø28.9	Ø51	Ø25	5310	5239	5025	4949
MH-8-12-5-65-25-A	W-024039	5 x 38"	Ø28.9	DN65	Ø25	5310	5239	5025	4940
MH-8-12-5-50-25-A	W-024045	5 x 38"	Ø28.9	DN50	Ø25	5310	5239	5025	4948
MH-8-12-5-76-40-A	W-024051	5 x 38"	Ø28.9	Ø76	DN40	5310	5239	5025	4937
MH-8-12-5-63-40-A	W-024057	5 x 38"	Ø28.9	Ø63.5	DN40	5310	5239	5025	4943
MH-8-12-5-51-40-A	W-024063	5 x 38"	Ø28.9	Ø51	DN40	5310	5239	5025	4949
MH-8-12-5-65-40-A	W-024069	5 x 38"	Ø28.9	DN65	DN40	5310	5239	5025	4940
MH-8-12-5-50-40-A	W-024075	5 x 38"	Ø28.9	DN50	DN40	5310	5239	5025	4948
MH-8-12-5-76-26-A	W-024081	5 x 38"	Ø28.9	Ø76	DN25	5310	5239	5025	4937
MH-8-12-5-63-26-A	W-024087	5 x 38"	Ø28.9	Ø63.5	DN25	5310	5239	5025	4943
MH-8-12-5-51-26-A	W-024093	5 x 38"	Ø28.9	Ø51	DN25	5310	5239	5025	4949
MH-8-12-5-65-26-A	W-024099	5 x 38"	Ø28.9	DN65	DN25	5310	5239	5025	4940
MH-8-12-5-50-26-A	W-024105	5 x 38"	Ø28.9	DN50	DN25	5310	5239	5025	4948



MH-8-12bar-5-element - Model C		Element type 8038		Maximum pressure / Maximum temperature					
		Quantity	Permeate	12 barg / 70°C		Volume 168 liters		Dry weight 76 kg	
Stock number	Drawing number	7.9" dia.	ID	F&R	P	TL	HL	CL	IL
MH-8-12-5-76-38-C	W-024111	5 x 38"	Ø28.9	Ø76	Ø38	5310	5239	5025	4937
MH-8-12-5-63-38-C	W-024117	5 x 38"	Ø28.9	Ø63.5	Ø38	5310	5239	5025	4943
MH-8-12-5-51-38-C	W-024123	5 x 38"	Ø28.9	Ø51	Ø38	5310	5239	5025	4949
MH-8-12-5-65-38-C	W-024129	5 x 38"	Ø28.9	DN65	Ø38	5310	5239	5025	4940
MH-8-12-5-50-38-C	W-024135	5 x 38"	Ø28.9	DN50	Ø38	5310	5239	5025	4948
MH-8-12-5-76-25-C	W-024141	5 x 38"	Ø28.9	Ø76	Ø25	5310	5239	5025	4937
MH-8-12-5-63-25-C	W-024147	5 x 38"	Ø28.9	Ø63.5	Ø25	5310	5239	5025	4943
MH-8-12-5-51-25-C	W-024153	5 x 38"	Ø28.9	Ø51	Ø25	5310	5239	5025	4949
MH-8-12-5-65-25-C	W-024159	5 x 38"	Ø28.9	DN65	Ø25	5310	5239	5025	4940
MH-8-12-5-50-25-C	W-024165	5 x 38"	Ø28.9	DN50	Ø25	5310	5239	5025	4948
MH-8-12-5-76-40-C	W-024171	5 x 38"	Ø28.9	Ø76	DN40	5310	5239	5025	4937
MH-8-12-5-63-40-C	W-024177	5 x 38"	Ø28.9	Ø63.5	DN40	5310	5239	5025	4943
MH-8-12-5-51-40-C	W-024183	5 x 38"	Ø28.9	Ø51	DN40	5310	5239	5025	4949
MH-8-12-5-65-40-C	W-024189	5 x 38"	Ø28.9	DN65	DN40	5310	5239	5025	4940
MH-8-12-5-50-40-C	W-024195	5 x 38"	Ø28.9	DN50	DN40	5310	5239	5025	4948
MH-8-12-5-76-26-C	W-024201	5 x 38"	Ø28.9	Ø76	DN25	5310	5239	5025	4937
MH-8-12-5-63-26-C	W-024207	5 x 38"	Ø28.9	Ø63.5	DN25	5310	5239	5025	4943
MH-8-12-5-51-26-C	W-024213	5 x 38"	Ø28.9	Ø51	DN25	5310	5239	5025	4949
MH-8-12-5-65-26-C	W-024219	5 x 38"	Ø28.9	DN65	DN25	5310	5239	5025	4940
MH-8-12-5-50-26-C	W-024225	5 x 38"	Ø28.9	DN50	DN25	5310	5239	5025	4948



MH-8-12bar-6-element - Model A		Element type 8038		Maximum pressure / Maximum temperature					
		Quantity	Permeate	12 barg / 70°C		Volume 200 liters		Dry weight 88 kg	
Stock number	Drawing number	7.9" dia.	ID	F&R	P	TL	HL	CL	IL
MH-8-12-6-76-38-A	W-022797	6 x 38"	Ø28.9	Ø76	Ø38	6290	6219	6005	5917
MH-8-12-6-63-38-A	W-023998	6 x 38"	Ø28.9	Ø63.5	Ø38	6290	6219	6005	5923
MH-8-12-6-51-38-A	W-024004	6 x 38"	Ø28.9	Ø51	Ø38	6290	6219	6005	5929
MH-8-12-6-65-38-A	W-024010	6 x 38"	Ø28.9	DN65	Ø38	6290	6219	6005	5920
MH-8-12-6-50-38-A	W-024016	6 x 38"	Ø28.9	DN50	Ø38	6290	6219	6005	5928
MH-8-12-6-76-25-A	W-024022	6 x 38"	Ø28.9	Ø76	Ø25	6290	6219	6005	5917
MH-8-12-6-63-25-A	W-024028	6 x 38"	Ø28.9	Ø63.5	Ø25	6290	6219	6005	5923
MH-8-12-6-51-25-A	W-024034	6 x 38"	Ø28.9	Ø51	Ø25	6290	6219	6005	5929
MH-8-12-6-65-25-A	W-024040	6 x 38"	Ø28.9	DN65	Ø25	6290	6219	6005	5920
MH-8-12-6-50-25-A	W-024046	6 x 38"	Ø28.9	DN50	Ø25	6290	6219	6005	5928
MH-8-12-6-76-40-A	W-024052	6 x 38"	Ø28.9	Ø76	DN40	6290	6219	6005	5917
MH-8-12-6-63-40-A	W-024058	6 x 38"	Ø28.9	Ø63.5	DN40	6290	6219	6005	5923
MH-8-12-6-51-40-A	W-024064	6 x 38"	Ø28.9	Ø51	DN40	6290	6219	6005	5929
MH-8-12-6-65-40-A	W-024070	6 x 38"	Ø28.9	DN65	DN40	6290	6219	6005	5920
MH-8-12-6-50-40-A	W-024076	6 x 38"	Ø28.9	DN50	DN40	6290	6219	6005	5928
MH-8-12-6-76-26-A	W-024082	6 x 38"	Ø28.9	Ø76	DN25	6290	6219	6005	5917
MH-8-12-6-63-26-A	W-024088	6 x 38"	Ø28.9	Ø63.5	DN25	6290	6219	6005	5923
MH-8-12-6-51-26-A	W-024094	6 x 38"	Ø28.9	Ø51	DN25	6290	6219	6005	5929
MH-8-12-6-65-26-A	W-024100	6 x 38"	Ø28.9	DN65	DN25	6290	6219	6005	5920
MH-8-12-6-50-26-A	W-024106	6 x 38"	Ø28.9	DN50	DN25	6290	6219	6005	5928



MH-8-12bar-6-element - Model C		Element type 8038		Maximum pressure / Maximum temperature					
		Quantity	Permeate	12 barg / 70°C		Volume 200 liters		Dry weight 88 kg	
Stock number	Drawing number	7.9" dia.	ID	F&R	P	TL	HL	CL	IL
MH-8-12-6-76-38-C	W-024112	6 x 38"	Ø28.9	Ø76	Ø38	6290	6219	6005	5917
MH-8-12-6-63-38-C	W-024118	6 x 38"	Ø28.9	Ø63.5	Ø38	6290	6219	6005	5923
MH-8-12-6-51-38-C	W-024124	6 x 38"	Ø28.9	Ø51	Ø38	6290	6219	6005	5929
MH-8-12-6-65-38-C	W-024130	6 x 38"	Ø28.9	DN65	Ø38	6290	6219	6005	5920
MH-8-12-6-50-38-C	W-024136	6 x 38"	Ø28.9	DN50	Ø38	6290	6219	6005	5928
MH-8-12-6-76-25-C	W-024142	6 x 38"	Ø28.9	Ø76	Ø25	6290	6219	6005	5917
MH-8-12-6-63-25-C	W-024148	6 x 38"	Ø28.9	Ø63.5	Ø25	6290	6219	6005	5923
MH-8-12-6-51-25-C	W-024154	6 x 38"	Ø28.9	Ø51	Ø25	6290	6219	6005	5929
MH-8-12-6-65-25-C	W-024160	6 x 38"	Ø28.9	DN65	Ø25	6290	6219	6005	5920
MH-8-12-6-50-25-C	W-024166	6 x 38"	Ø28.9	DN50	Ø25	6290	6219	6005	5928
MH-8-12-6-76-40-C	W-024172	6 x 38"	Ø28.9	Ø76	DN40	6290	6219	6005	5917
MH-8-12-6-63-40-C	W-024178	6 x 38"	Ø28.9	Ø63.5	DN40	6290	6219	6005	5923
MH-8-12-6-51-40-C	W-024184	6 x 38"	Ø28.9	Ø51	DN40	6290	6219	6005	5929
MH-8-12-6-65-40-C	W-024190	6 x 38"	Ø28.9	DN65	DN40	6290	6219	6005	5920
MH-8-12-6-50-40-C	W-024196	6 x 38"	Ø28.9	DN50	DN40	6290	6219	6005	5928
MH-8-12-6-76-26-C	W-024202	6 x 38"	Ø28.9	Ø76	DN25	6290	6219	6005	5917
MH-8-12-6-63-26-C	W-024208	6 x 38"	Ø28.9	Ø63.5	DN25	6290	6219	6005	5923
MH-8-12-6-51-26-C	W-024214	6 x 38"	Ø28.9	Ø51	DN25	6290	6219	6005	5929
MH-8-12-6-65-26-C	W-024220	6 x 38"	Ø28.9	DN65	DN25	6290	6219	6005	5920
MH-8-12-6-50-26-C	W-024226	6 x 38"	Ø28.9	DN50	DN25	6290	6219	6005	5928