

MB-VF-V 20210618 en.docx

**ECO-FRIENDLY**  
**MONOBLOCK**  
**MB-VF-V**

FUNCTIONAL, COMPACT, EASY TO MAINTAIN, MODERN DESIGN

**SUITABLE FOR UP TO 30% H<sub>2</sub> FEED INTO THE GAS NETWORK**

## Monoblock

- Filter and preheater in welded steel construction combined into one pressure device
- For cleaning and preheating of gases in reducer stations upstream of gas pressure regulators
- Suitable for natural gas, related combustible gases, hydrogen and non-aggressive gases
- Pipe bundle tubes made of seamless stainless steel

## Benefits

- Suitable for up to 30% H<sub>2</sub> feed into the gas network
- The compact design enables smaller station sizes when compared to typical standard devices
- The horizontal design allows strands to be placed on top of one another
- Stable fine cartridges guarantee high separation rates – the same as in the HPF cartridge filter
- Customised design with free nozzle position
- Lower differential pressure when compared to separately constructed filter and heat exchanger
- Minimised effort for regular pressure device monitoring
- Pre-pressure-resistant water chamber design – also with hot water SSV
- Tube bundles, heat exchanger tubes in stainless steel
- Increased wall thicknesses and corrosion additions
- Optionally with quick-release fastener
- Special design also for hot water and gas temperatures of up to 120°C

## Functional description

- Cleaning of dry gases with solid particle impurities through the cartridge insert
- Compensation for the Joule/Thompson effect by the heat exchanger – upstream of the gas pressure regulator
- Filter cartridge with galvanised outer and inner support cage, with impregnated, reinforced and folded cellulose, cartridge sealing reliably released by upper and lower perbunan ring
- Cleaning solids: 99.6% > 2 µm 99.9% 3 µm
- Differential pressure, clean cartridge: 10 - 20 mbar Cartridge change at max: 800 mbar
- Bursting differential pressure of the cartridge: min. 2.0 bar

## Design and calculation

- Design in accordance with PED2014/68/EU, EN13445, AD2000; with CE marking
- Optional design in accordance with ASME Section VIII, with/without U-stamp, further specific country codes
- Continuous application of ISO9001 with regularly audited quality system
- Process-engineering design in accordance with own adapted calculation programmes
- TEMA design applicable as standard
- NACE design possible as an option
- Low temperature and maximum pressure design available according to customer requirements
- Preliminary examination/construction testing, material testing, non-destructive material testing in accordance with design standard
- Customer-specific acceptance requirements optionally selectable, e.g. helium leak test
- Acceptance by experts such as TÜV, Lloyd, etc., also by a customer expert

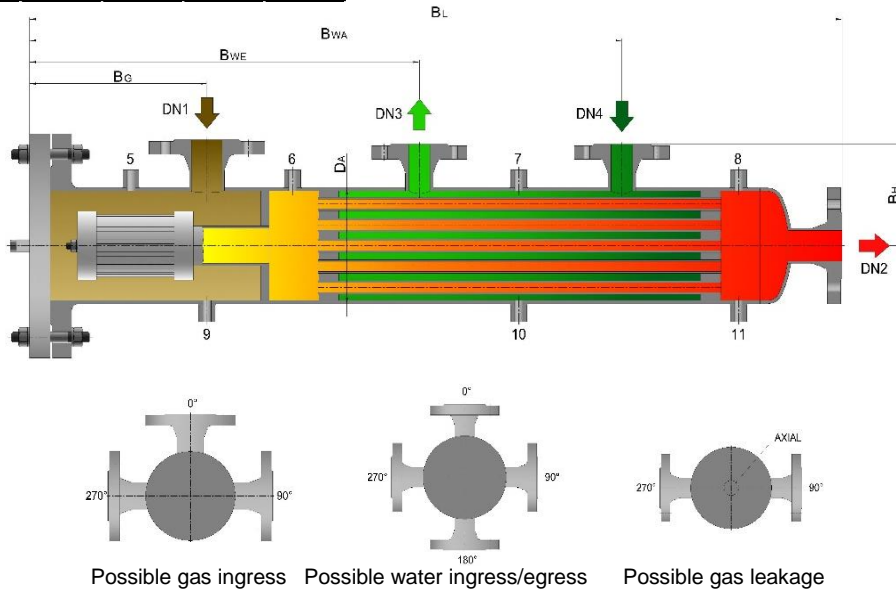
## Optional accessories

- Hot water SSV SV422 in conjunction with the pre-pressure-resistant water jacket
- Pressure safety valves for gas and water, pressure gauges, thermometers
- Drain and vent cocks G1/2" for gas and water
- Temperature control of the natural gas outlet temperature, blanking discs, insulation
- Structure as combination with SSV, monitor and pressure regulator

MB-VF-V Ø Da / Press <sub>min</sub>	Bm <sup>3</sup> /h <sub>max</sub> at p <sub>min</sub> [bar(ü)]				
	0-10	11-16	17-25	26-40	41-50
100	55	55	55	53	48
125	55	55	55	53	48
150	98	98	98	98	98
200	220	220	220	190	170
250	610	540	440	280	255
300	785	735	595	470	425
400	1000	810	655	525	470

## Technical data

DN 1, 2 Gas flanges also in different nominal widths  
 DN 3, 4 Hot water flange lengths according to insulation  
 Connections 5, 6, 7 + 10,11,12 optional G ½" internal  
 Connections 8, 9 from Ø Da 200 G ½" internal/pipe 12 mm



## Standard sizes Customised solutions available – detailed design always in accordance with quote

MB-VF-V Type	DN <sub>Gas</sub> 1,2	DN <sub>ww</sub> 3,4	Ø Da mm	B Overall height Gas / Water				BL <sub>total</sub> mm	BG mm	BWE mm	BWA mm	Heating area m <sup>2</sup>	Filter cartridge 1pc	
				PN100	A600RF	PN40	A300RF						m <sup>2</sup>	D/d *L
100	25	25	114,3	190	190	190	1030	250	420	830	0,41	0,31	75/45 *194	
							1260							
							1490							
125	50	25	139,7	220	220	220	1060	270	440	810	0,64	0,31	75/45 *194	
							1310							
							1510							
							1720							
150	50	25	168,3	235	235	235	1150	270	475	875	1,00	1,00	122/60 *200	
							1300							
							1620							
							1755							
							2045							
200	80	50	219,1	275	275	275	1505	490	785	1155	1,75	1,00	152/90 *200	
							1705							
							1955							
							2075							
							2165							
250	100	50	273	325	300	300	1660	540	880	1220	2,97	1,50	212/150 *200	
							1870							
							2100							
							2350							
							2600							
300	100	50	323,9	385	325	325	1840	620	980	1390	4,62	2,51	232/170 *300	
							2030							
							2280							
							2530							
							2730							
400	150	80	406,4	450	390	390	1950	660	1040	1440	6,50	2,77	280/220 *300	
							2150							
							2400							
							2650							
							2850							

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