

## HydroSOLV®

### Type: MS

### Application

HydroSOLV® filter used for the treatment of drinking and process water, especially for the removal of turbid matter from the water.

Filter used if a fine filtration is not possible by cartridge filters due to excessive dirt contents in the water.

Solid particles of a bigger size than the gaps of the filter bed are retained mechanically.

Thanks to the combination of several filter materials, the absorbency of the filter is increased and a blocking of the filter material avoided. Finest turbidity can partly be removed by bond to the surface of the filter material.

### Function

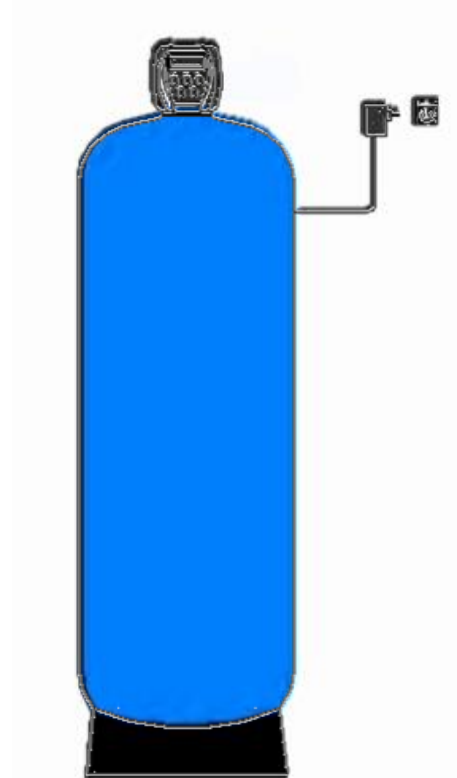
The HydroSOLV® filter designed and constructed as single tank filter.

A fully automatic operation is guaranteed by a modern and efficient micro processor control. Backwash is preferably with time control and, on request, with volume control (option).

The following functions and display monitoring can be requested via the control:

- Diagnose mode
- Days since last regeneration
- Flow (DN 25 only)
- History

A regular backwash guarantees a good absorbency of the special filter material.



### Description / Scope of supply

HydroSOLV® filter consisting of:

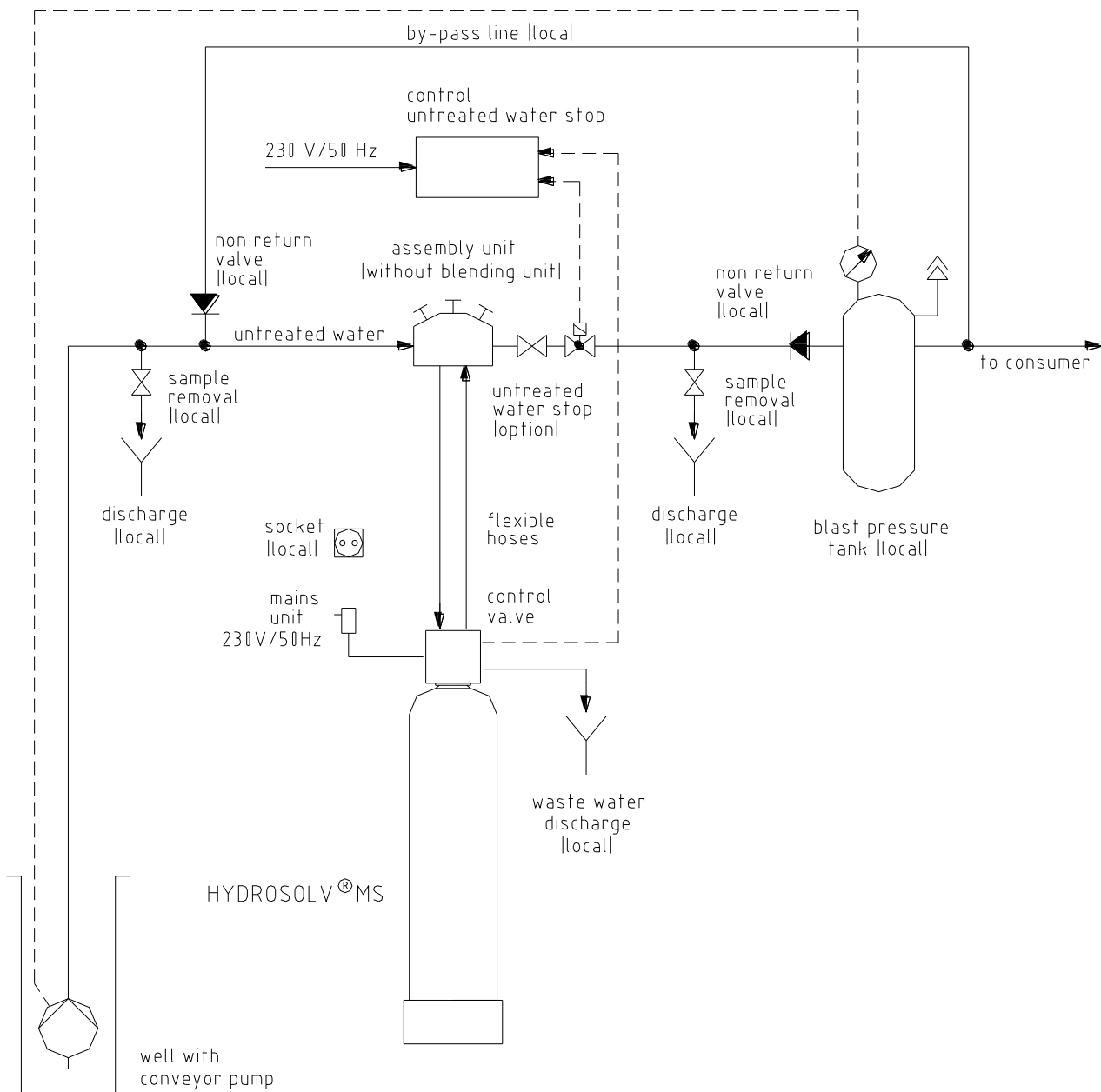
- 1 x pressure vessel
- 1 x filter material (special filter material, quartz gravel in 2 different grain sizes)
- 1 x central control valve
  - 1" - plastic (noryle)
  - 1 ½" – brass with epoxy resin coating
- 1 x vane type water meter (DN 25 only)
- 1 x throttle valve to adjust the volume flow
- 1 x plug power mains unit
- 1 x O&M

### Accessories

- Mounting unit DN 25 (excl. blending) – Art. No. 510.016
- Mounting unit DN 40 (excl. blending) – Art. No. 511.100
- Flexible hoses 1" – Art. No. 001.034
- Flexible hoses 1 ½" – Art. No. 001.038
- Mains water stop DN 25 – Art. No. 550.145
- Mains water stop DN 40 – Art. No. 520.156
- Vane-type water meter DN 40 – Art. No. 590.446

### Note / Installation conditions

- The technical data and any general technical regulation as well as local installation rules shall be considered and guaranteed.
- The ambient temperature as well as any possible radiation heat shall not exceed 40°C.
- The installation site shall be resistant to frost.
- The installation site shall be free from fumes from solvents, color, lacquer and chemicals.
- A mains socket (230 V / 50 Hz) shall be provided adjacent to the system.
- A drain shall be provided (DN 100 min.) for backwash water.



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Technical data		HYDRO SOLV <sup>®</sup> MS						
Type		1054	1354	1465	1665	1865	2162	2472
Connection feed / outlet		DN 25 (R 1" M)					DN 40 (R 1 1/2" F)	
Connection waste water		3/4"	1"	1"	1"	1"	1"	1"
Drain line (min.)		DN 100						
Connected load		230 V / 50 Hz AC						
Electrical connection		12 V AC / 500 mA						
Operational pressure min. / max.		2,0 bar / 8,0 bar						
Water temperature min. / max.		5 °C / 30 °C						
Ambient temperature max.		5 °C / 40 °C						
Resin vessel volume	Ltr.	63	105	150	194	257	330	473
Diameter pressure tank	mm	257	336	363	413	486	550	626
<b>Filling</b>								
Anthrazit filter material	Ltr.	12	20	30	40	60	70	80
Quartz gravel (1 - 2 mm)	kg	12,5	12,5	25	25	38	50	70
Quartz gravel (0,4-0,8 mm)		25	50	62,5	75	100	125	175
Backwash	Min.	10	10	10	10	10	10	10
Rinse	Min.	5	5	5	5	5	5	5
Flow *)	m <sup>3</sup> /h	1,0	1,5	2,2	3,0	3,5	4,5	5,0
Min. required backwash flow volume	m <sup>3</sup> /h	1,7	2,5	3,4	3,9	4,5	5,7	7,7
Backwash water volume	m <sup>3</sup>	0,4	0,6	0,9	1,0	1,1	1,4	1,9
<b>Dimensions</b>								
H = Height max.	mm	1800	1800	2100	2100	2150	2150	2350
H1 = Height pressure tank	mm	1386	1393	1674	1671	1722	1721	1915
H2 = Height feed / outlet control valve	mm	1441	1448	1729	1726	1777	1786	1980
H3 = Height with control valve	mm	1566	1573	1854	1851	1902	1901	2095
B = Width max.	mm	300	350	380	420	500	600	650
T = Depth max.	mm	300	350	380	420	500	600	650
Operational weight max.	kg	72	117	171	217	291	375	533

\*) Actual flow dependent on water quality and local installation.

**Note:** Technical layout necessary.

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Hydro**SOLV**<sup>®</sup> MS Dimensions

