resideo Filter Combinations



Braukmann HS10S

Combination water supply unit

APPLICATION

HS10S combination water supply units integrate a check valve with test point, reverse rinsing fine filter, pressure reducing valve and shut-off valve in one appliance. They ensure a continuous supply of filtered water. The fine filter prevents the ingress of foreign bodies, for example rust particles, strands of hemp and grains of sand and thus reduces the probability of corrosion. The check valve protects the mains water system against back pressure, backflow and back syphonage of health threatening liquids. The pressure reducing valve prevents over-pressure damage and reduces water consumption.

All individual units correspond to the requirements of current DIN/DVGW specifications. Technical features of each unit also apply to the combination assembly.

APPROVALS

- DVGW
- SVGW

approval for all filters with 100 μm mesh sizes

SPECIAL FEATURES

- Double Spin Technology for connection sizes 1/2" to $1^{1}/4$ "
 - Cartridge with external rotor enabling simultaneous cleaning in lower and upper filter areas
 - Visual function check possible
- Especially compact because pressure reducing valve, fine filter, check valve and shut-off valve are combined in one unit
- Filtered water supplied even during reverse rinsing
- Patented reverse rinsing system fast and thorough cleaning of the filter with small amount of water
- Automatic reverse rinsing actuator with bayonet connector can be retrofitted
- Shock resistant clear synthetic material filter bowl enables easy checking of filter contamination
- Inlet pressure balancing no influence on outlet pressure by fluctuating inlet pressure
- Filter and complete filter bowl are replaceable
- The valve insert is of high-quality synthetic material and can be fully exchanged
- ACS certified
- All materials are KTW approved
- Approved by TÜV LGA for low noise, Group 1 without limitations

TECHNICAL DATA

Media					
Medium:	Drinking water				
Connections/Sizes					
Connection sizes:	1/2" - 2"				
Pressure values					
Operating (dynamic) pressure:	1.5 bar				
Max. inlet pressure with clear filter bowl:	16 bar				
Max. inlet pressure with red bronze filter bowl:	25 bar				
Outlet pressure:	1.5 - 6 bar				
Operating temperatures					
Max. operating temperature medium accord. to EN 1567:	30 °C				
Max. operating temperature medium (10 bar/brass filter bowl):	70 °C				
Specifications					
Installation position:	Horizontal with filter bowl downwards				

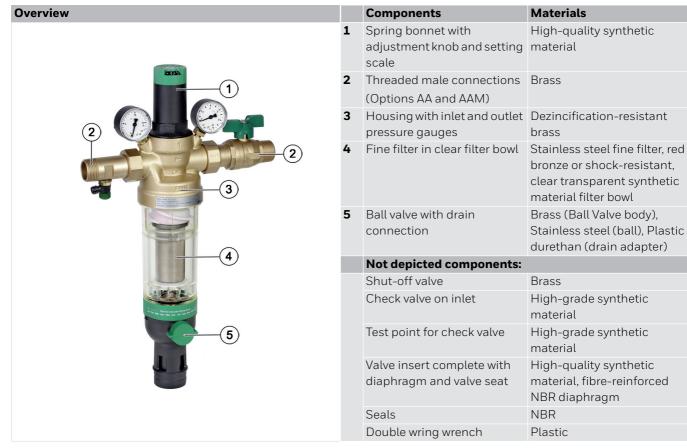
Note: The filter is constructed for drinking water installations. In case of a process water application the filter has to be proven individually.



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CONSTRUCTION



METHOD OF OPERATION

The combination water supply unit combines check valve, reverse rinsing fine filter, pressure reducing valve and shutoff valve in one appliance.

Water flows first through the check valve. This causes the valve stem to push against the spring force and open the valve.

The downstream reverse rinsing fine filter holds back any dirt particles in the water. These particles are then completely flushed out by reverse rinsing.

Filters with Double Spin Technology have turbine blades which circulate the water and thereby set the rotor on the upper filter into a rotational motion. The internal impeller rinses off particles that have adhered to the upper filter at the intersecting points with the rotor.

The integral pressure reducing valve functions on a balanced force principle whereby the force exerted by a diaphragm is balanced against the force of an adjustment spring. The inlet pressure has no influence on opening or closing of the valve. Inlet pressure fluctuation does not therefore affect the outlet pressure.

TRANSPORTATION AND STORAGE

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	5 °C
Max. ambient temperature:	55 °C
Min. ambient relative humidity:	25 % *
Max. ambient relative humidity:	85 % *

*non condensing

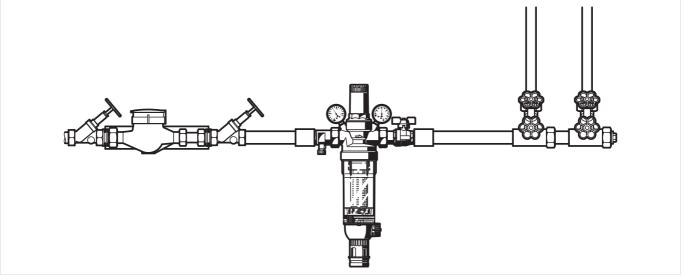
INSTALLATION GUIDELINES

Setup requirements

- Install in horizontal pipework with filter bowl downwards
 This position ensures optimum filter efficiency
- Install shut-off valve at the inlet
- These filters are armatures which need to be maintained regularly
- Ensure good access
 - Pressure gauge can be read off easily
 - Degree of contamination can be easily seen with clear filter bowl
 - Simplifies maintenance and inspection

Installation Example

- Related to the EN 806-2 it is recommended to install the filter immediately after the water meter
- In order to avoid flooding, it is recommended to arrange a permanent, professionally dimensioned wastewater connection

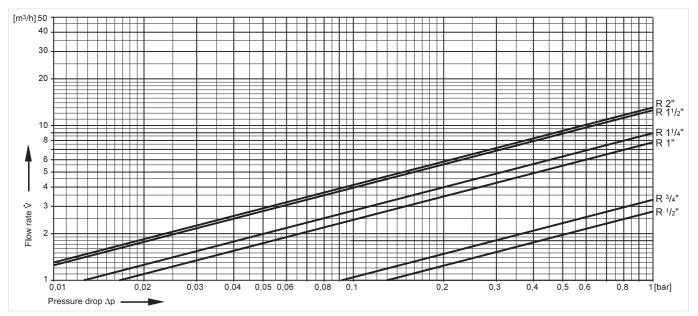


TECHNICAL CHARACTERISTICS

kvs-Values

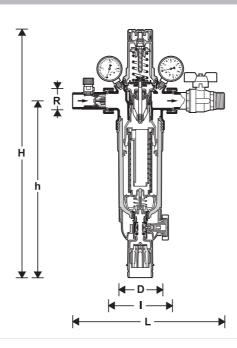
Connection sizes:	15	20	25	32	40	50
k _{vs} -value (m ³ /h):	2.7	3.2	7.6	8.9	12.6	13.0

Pressure drop characteristics



DIMENSIONS

Overview



Parameter		Values					
Connection sizes:	R	1/2"	3/4"	1"	1 ¹ /4"	$1^{1}/_{2}$ "	2"
Nominal size diameter:	DN	15	20	25	32	40	50
Dimensions:	L	255	268	305	327	370	408
	1	110	110	130	130	150	150
	Н	439	439	493	493	590	590
	h	350	350	353	353	417	417
	D	97	97	97	97	120	120
Weight:	kg	4.0	4.1	5.7	6.3	8.1	10
DVGW registration number: DW-9321 AT 2318							
Double Spin Technology:		Yes	Yes	Yes	Yes	No	No

Note: All dimensions in mm unless stated otherwise.

ORDERING INFORMATION

The following tables contain all the information you need to make an order of an item of your choice. When ordering, please always state the type, the ordering or the part number.

Options

The water station is available in the following sizes: 1/2", 3/4", 1", 11/4" 11/2" and "2.

- standard
- not available

		HS10SAA	HS10SAAM
Connection type:	Threaded male connections, filter mesh size 100 μm	•	-
	Red bronze filter bowl, threaded male connections, filter mesh size 100 µ m	-	•

Note: ... = space holder for connection size

Note: Ordering number example for 1" and type AA valve: HS10S-1AA

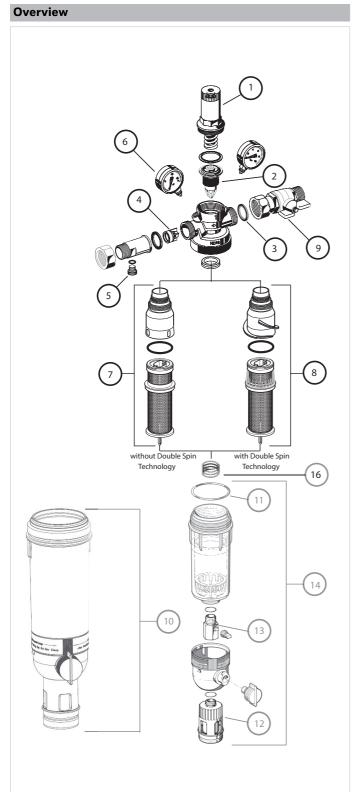
Note: Filters with other mesh widths available on request

Accessories

	Descriptio	n	Dimension	Part No.		
	Z11S	Automatic reverse rinsing actuator				
		For automatic filter cleaning at presettable intervals				
0 <u>0</u>		230 V, 50/60 Hz, 10 with moulded Schuko elect	trical plug	Z11S-A		
Internet in the second s		24 V, 50/60 Hz, 10 without electrical plug		Z11S-B		
		230 V, 50/60 Hz, 10 with moulded Type 12 elec	trical plug for	Z11S-Z		
)		Switzerland				
	VST06B	Connection set				
8		Solder connections				
			1/2"	VST06-1/2B		
			3/4"	VST06-3/4B		
			1"	VST06-1B		
			1 ¹ /4"	VST06-11/4B		
			$1^{1}/2^{"}$	VST06-11/2B		
			2"	VST06-2B		
	DDS76	Differential pressure switch				
			1/2" + 3/4"	DDS76-1/2		
			$1" + 1^{1}/4"$	DDS76-1		
+ -			$1^{1}/_{2}$ " + 2"	DDS76-1 ¹ /2		
	ZR10K	Double ring wrench for removing the filter bo	owl			
			¹ / ₂ " + ³ / ₄ "	ZR10K-3/4		
			$1" + 1^{1}/4"$	ZR10K-1		
			$1^{1/2}$ " + 2"	ZR10K-11/2		

Spare Parts

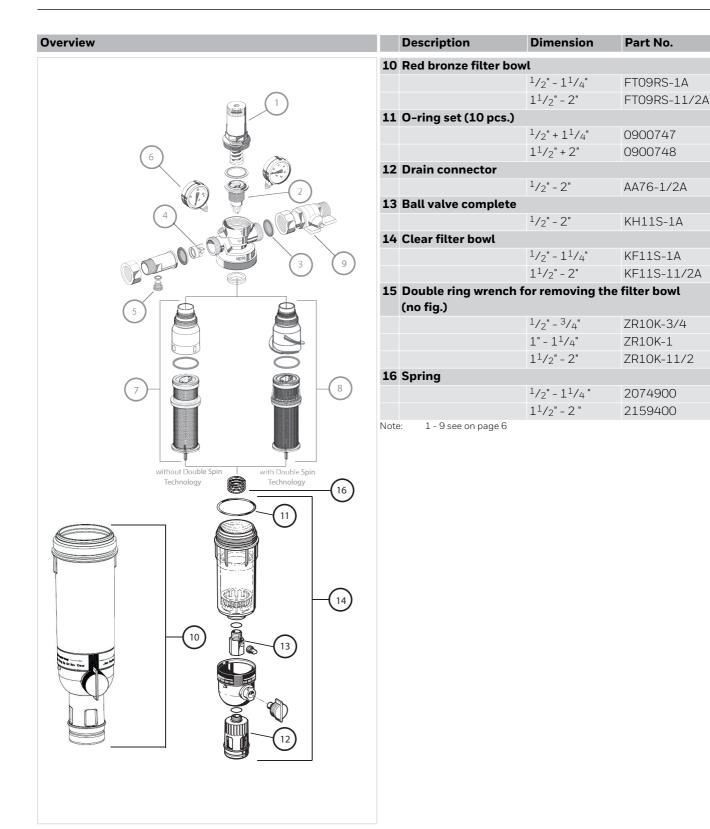
HS10S Filter Combinations from 2007 onwards



	Description	Dimension	Part No.
	-		
1	Spring bonnet complet		
		$\frac{1}{2} + \frac{3}{4}$	0901515
		$1" + 1^{1}/4"$	0901516
•		1 ¹ / ₂ " + 2"	0901518
2	Valve insert complete (
		1/2" + 3/4"	D06FA-1/2
		$1" + \frac{1}{4}"$	D06FA-1A
2	11.1	1 ¹ / ₂ " + 2"	D06FA-11/2
3	Union seal washer (10		0001/0/0
		$\frac{1}{2} + \frac{3}{4}$	0901444
		1"	0901445
		1 ¹ /4"	0901446
		1 ¹ / ₂ "	0901447
		2"	0901448
4	Check valve cartridge		
		1/2"	2166200
		3/4"	2110200
		1"	2164400
		1 ¹ /4"	2164500
		$1^{1/2}$ "	2164600
		2"	2164700
5	Test valve		
		¹ / ₂ " - 2"	2421100
6	Pressure gauge		
		0 - 10 bar	M38K-A10
		0 - 16 bar	M38K-A16
		0 - 25 bar	M38K-A25
7	Filter insert complete*,		-
		¹ / ₂ " - ³ / ₄ "	AF11S-1/2A
		$1" - 1^{1}/4"$	AF11S-1A
		1 ¹ / ₂ " - 2"	AF11S-11/2A
8	Filter insert complete*,		Double Spin
	Technology, Filter mes		
		1/2" - $3/4$ "	AF11DS-1/2A
		$1" - 1^{1}/4"$	AF11DS-1A
9	Shut-off valve (not incl		
		1/2"	2192900
		3/4"	2193100
		1"	2193200
		11/4"	2193300
		$1^{1/2}$ "	2193400
		2"	2193500
*Th	e filter quide (either with	double spin or w	ithout double

*The filter guide (either with double spin or without double spin feature) is included in the packaging of the replacement filter inserts (AF11DS and AF11S) only for the sizes 1/2" up to $1^{1}/4$ "!

Note: 10 - 16 see on page 7





Manufactured for and on behalf of Pittway Sàrl, Z.A., La Pièce 4, 1180 Rolle, Switzerland by its authorised representative Ademco 1 GmbH

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For more information

Subject to change. EN0H-1101GE23 R0420

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