

# HYDRA BIG

self-cleaning filter

## TECHNICAL CATALOGUE

# OPEN TO CLEAN



## CERTIFICATIONS:



HYDRA BIG self-cleaning filter series certified by IAPMO R&T against NSF/ANSI Standards 42, 61, 372 and CSA B483.1 for material safety, structural integrity and lead free requirements.



Self-cleaning filters are tested and certified under the most stringent procedures worldwide, in compliance with the sanitary certifications DM25 -Italy-, ACS -France- and EAC/Ghostreghistracia -Russia-



# HYDRA BIG

## Self-cleaning filters with back-wash

The self-cleaning filter HYDRA BIG is the union of strength, reliability and elegance of a purely Italian style with the highest performance and excellent quality of materials. All this to ensure maximum protection of your system, even at very high flow rates. Cleaning operations are quick and easy: simply open the valve at the bottom of the filter to create a reversal of the water flow. In this way all the impurities are dragged and expelled from the filter. The efficiency of this process is guaranteed by the discharge system designed to block the reflux of the expelled water.



POINT OF ENTRY



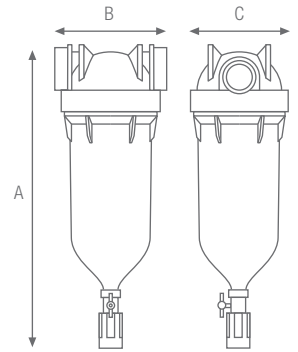
COLD WATER



MAX WORKING PRESSURE  
**8,3 bar (120 psi)**  
MIN WORKING PRESSURE  
**1,8 bar (26 psi)**



MAX WORKING TEMPERATURE  
**45°C (113°F)**  
MIN WORKING TEMPERATURE  
**4°C (39.2°F)**



HYDRA BIG

HYDRA BIG M

### VERSIONS

### TECHNICAL SPECIFICATIONS

Selected raw materials, suitable for drinking water.

Head: reinforced polypropylene.

Bowl: PET.

O-ring: silicone.

Breather-valve: body polypropylene, o-ring EPDM.

In/out brass threads (1" models):

CW617N brass (BSPP) - CW511L "Lead Free" (NPT).

Discharge ball-valve:

CW617N brass nickel plated (BSPP versions);

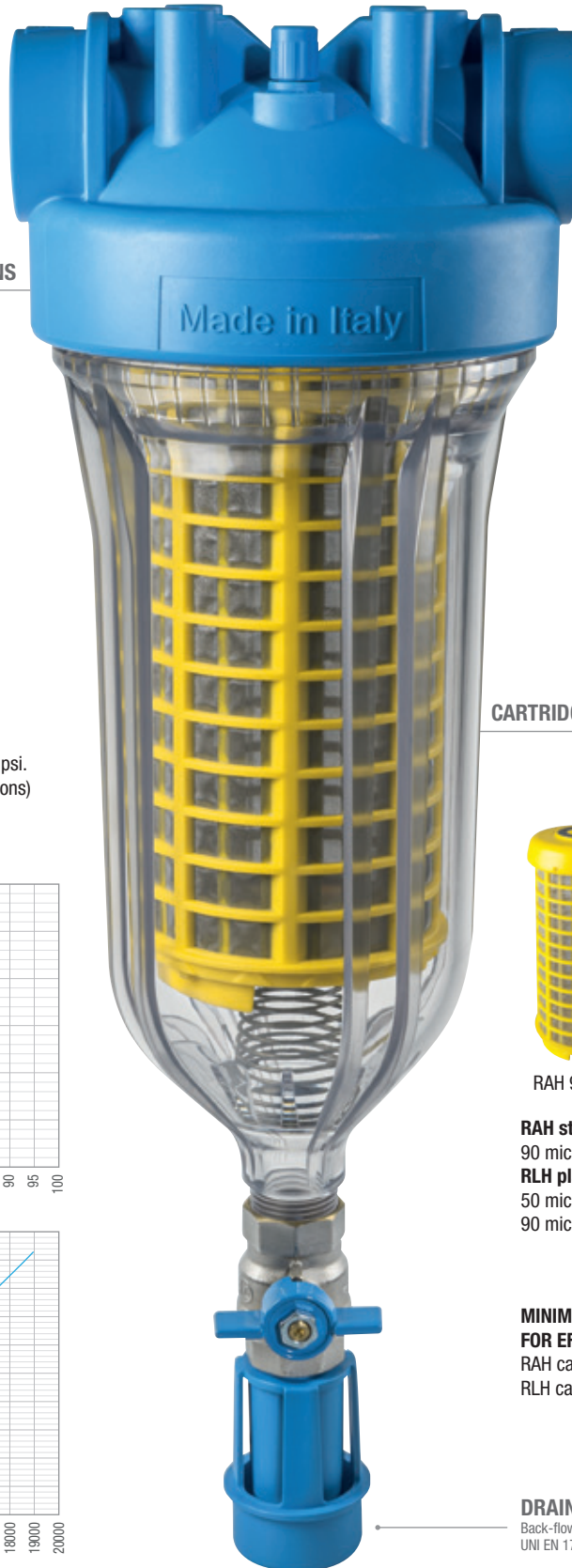
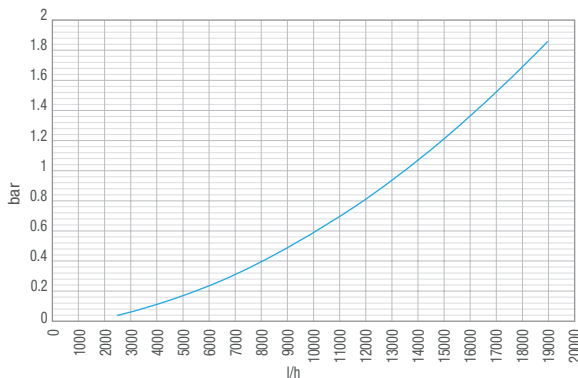
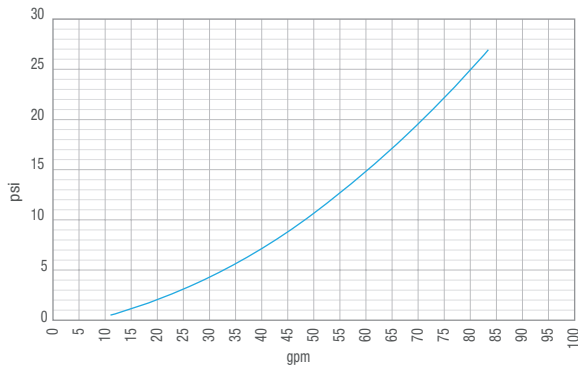
CW511L "Lead Free" brass nickel plated (NPT versions).

Drain funnel: reinforced polypropylene.

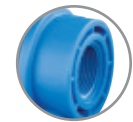
Gauges (M models): radial type, pressure range 0-12 bar, 0-170 psi.

CW617N brass (BSPP versions); CW511L "Lead Free" (NPT versions)

### FLOW RATE vs PRESSURE DROP



### THREADS TYPE



IN PLASTIC BSPP



NPT IN PLASTIC NPT

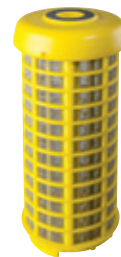


OT BRASS BSPP

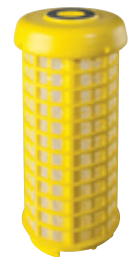


NTP OT BRASS NPT Lead Free

### CARTRIDGES



RAH 90 mcr



RLH 50/90 mcr

### RAH stainless steel net cartridge

90 micron - CODE RA5001020

### RLH plastic net cartridge

50 micron - CODE RA5001005

90 micron - CODE RA5001010

### MINIMUM FLOW RATE

#### FOR EFFECTIVE BACKWASHING:

RAH cartridges = 2000 l/h

RLH cartridges = 2400 l/h

### DRAIN FUNNEL

Back-flow preventing device  
UNI EN 1717-11/2002



## HYDRA BIG single-stage self-cleaning filters

HOUSINGS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	MAX FLOW RATE l/h	MAX FLOW RATE gpm	DIMENSIONS mm		
						A	B	C
RA6310000	HYDRA BIG 1" RLH 50 mcr IN	50	1"	6000	26	500	190	185
RA6310003	HYDRA BIG 1"1/2 RLH 50mcr IN	50	1"1/2	15000	66	500	190	185
RA6310010	HYDRA BIG 1" RLH 90 mcr IN	90	1"	6000	26	500	190	185
RA6310013	HYDRA BIG 1"1/2 RLH 90mcr IN	90	1"1/2	15000	66	500	190	185
RA6310030	HYDRA BIG 1" RAH 90 mcr IN	90	1"	6000	26	500	190	185
RA6310033	HYDRA BIG 1"1/2 RAH 90 mcr IN	90	1"1/2	15000	66	500	190	185

HOUSINGS WITH PLASTIC NPT THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	MAX FLOW RATE l/h	MAX FLOW RATE gpm	DIMENSIONS mm		
						A	B	C
RA6314000	HYDRA BIG 1" RLH 50 mcr NPT IN	50	1"	6000	26	500	190	185
RA6314003	HYDRA BIG 1"1/2 RLH 50 mcr NPT IN	50	1"1/2	15000	66	500	190	185
RA6314010	HYDRA BIG 1" RLH 90 mcr NPT IN	90	1"	6000	26	500	190	185
RA6314013	HYDRA BIG 1"1/2 RLH 90 mcr NPT IN	90	1"1/2	15000	66	500	190	185
RA6314030	HYDRA BIG 1" RAH 90 mcr NPT IN	90	1"	6000	26	500	190	185
RA6314033	HYDRA BIG 1"1/2 RAH 90 mcr NPT IN	90	1"1/2	15000	66	500	190	185

HOUSINGS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	MAX FLOW RATE l/h	MAX FLOW RATE gpm	DIMENSIONS mm		
						A	B	C
RA6312000	HYDRA BIG 1" RLH 50 mcr OT	50	1"	6000	26	500	190	185
RA6312010	HYDRA BIG 1" RLH 90 mcr OT	90	1"	6000	26	500	190	185
RA6312030	HYDRA BIG 1" RAH 90 mcr OT	90	1"	6000	26	500	190	185

HOUSINGS WITH BRASS NPT THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	MAX FLOW RATE l/h	MAX FLOW RATE gpm	DIMENSIONS mm		
						A	B	C
RA6316000	HYDRA BIG 1" RLH 50 mcr NPT OT	50	1"	6000	26	500	190	185
RA6316010	HYDRA BIG 1" RLH 90 mcr NPT OT	90	1"	6000	26	500	190	185
RA6316030	HYDRA BIG 1" RAH 90 mcr NPT OT	90	1"	6000	26	500	190	185



## HYDRA BIG M single-stage self-cleaning filters with 2 gauges

HOUSINGS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	MAX FLOW RATE l/h	MAX FLOW RATE gpm	DIMENSIONS mm		
						A	B	C
RA6310300	HYDRA BIG M 1" RLH 50 mcr IN	50	1"	6000	26	570	190	185
RA6310303	HYDRA BIG M 1"1/2 RLH 50 mcr IN	50	1"1/2	15000	66	570	190	185
RA6310310	HYDRA BIG M 1" RLH 90 mcr IN	90	1"	6000	26	570	190	185
RA6310313	HYDRA BIG M 1"1/2 RLH 90 mcr IN	90	1"1/2	15000	66	570	190	185
RA6310330	HYDRA BIG M 1" RAH 90 mcr IN	90	1"	6000	26	570	190	185
RA6310333	HYDRA BIG M 1"1/2 RAH 90 mcr IN	90	1"1/2	15000	66	570	190	185

HOUSINGS WITH PLASTIC NPT THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	MAX FLOW RATE l/h	MAX FLOW RATE gpm	DIMENSIONS mm		
						A	B	C
RA6314300	HYDRA BIG M 1" RLH 50 mcr NPT IN	50	1"	6000	26	570	190	185
RA6314303	HYDRA BIG M 1"1/2 RLH 50 mcr NPT IN	50	1"1/2	15000	66	570	190	185
RA6314310	HYDRA BIG M 1" RLH 90 mcr NPT IN	90	1"	6000	26	570	190	185
RA6314313	HYDRA BIG M 1"1/2 RLH 90 mcr NPT IN	90	1"1/2	15000	66	570	190	185
RA6314330	HYDRA BIG M 1" RAH 90 mcr NPT IN	90	1"	6000	26	570	190	185
RA6314333	HYDRA BIG M 1"1/2 RAH 90 mcr NPT IN	90	1"1/2	15000	66	570	190	185

HOUSINGS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	MAX FLOW RATE l/h	MAX FLOW RATE gpm	DIMENSIONS mm		
						A	B	C
RA6312300	HYDRA BIG M 1" RLH 50 mcr OT	50	1"	6000	26	570	190	185
RA6312310	HYDRA BIG M 1" RLH 90 mcr OT	90	1"	6000	26	570	190	185
RA6312330	HYDRA BIG M 1" RAH 90 mcr OT	90	1"	6000	26	570	190	185

HOUSINGS WITH BRASS NPT THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	MAX FLOW RATE l/h	MAX FLOW RATE gpm	DIMENSIONS mm		
						A	B	C
RA6316300	HYDRA BIG M 1" RLH 50 mcr NPT OT	50	1"	6000	26	570	190	185
RA6316310	HYDRA BIG M 1" RLH 90 mcr NPT OT	90	1"	6000	26	570	190	185
RA6316330	HYDRA BIG M 1" RAH 90 mcr NPT OT	90	1"	6000	26	570	190	185



HYDRA **BIG**  
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