

Ref.	Application	PN	Measurements/DN	Øext piping (mm)		
				20	25	32
BH106	Valves with plugs for plastic piping intended for installation in individual drinking water mains meter connections	16	13	•	•	
			20			•

Meter connections made using bushes (Ref. BH401) and tubing nut bush (Ref. BH425)

Ref.		Valve connection		Meter connection						
		DN		LL13	1/2"	3/4"	7/8"	1"	1 1/4"	1 1/2"
BH106	BUSH	13	LL13 Left	•	•	•	•	•		
		20	1" Left	•		•	•	•	•	•
	TUBING NUT BUSH	13	LL13 Left			•	•	•		
		20	1" Left				•	•	•	•

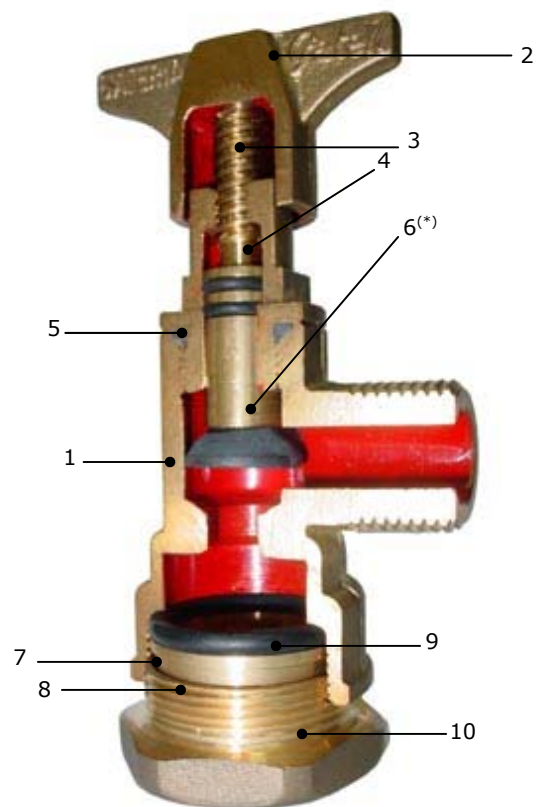
Manual entrance valve

Ref. BH106

Specifications:

Manually operated valve with non-return device included. Valve design allows connection to all types of plastic piping.

- 1. Body** made of pressed brass CW617N in accordance with UNE-EN 12165.
- 2. Lever** made of pressed brass CW617N in accordance with UNE-EN 12165. With drill hole for sealing.
- 3. Bar-turning frame shaft** made of brass in accordance with
- 4. O-rings** made of EPDM in accordance with UNE-EN 681-1.
- 5. O-ring frame** made of EPDM in accordance with UNE-EN 681-1.
- 6. Non-return device** made from EPDM (DN13) (*) or pressed brass CW617N with EPDM seal (DN20) in accordance with UNE-EN 681-1 .
- 7. O-ring** made of EPDM.
- 8. Bar-turning washer** made of brass in accordance with UNE-EN 12166.
- 9. Bar-turning pressure ring** made of brass in accordance with UNE-EN 12166.
- 10. Nut** made of pressed brass CW617N in accordance with UNE-EN 12165.



This valve complies with current UNE 19804 and the basic legislation for Interior Water Supply Installations of the Ministry of Industry published in the Official State Bulletin dated 13th of June 1976, section 1.4.1: "The materials employed in piping and plumbing must be capable, in general and as a minimum, of withstanding a working pressure of 15 kg/cm²".

(*) Also available with metal or vulcanised non-return valve.

- The body thread permits the use of a bush (Ref. BH401) or a tubing nut bush (Ref. BH425).
- It includes a non-return valve:
 - Guarantees public health by preventing undesired return of water.
 - Protects the meters from hot water returns.
 - Maintains hydraulic performance.
 - Does not increase costs.
- Available connection components (Ref. BH401 and Ref. BH425) allow the installation or replacement of any type of meter by simply employing an adjustable spanner (Ref. BH411).

Accessories:

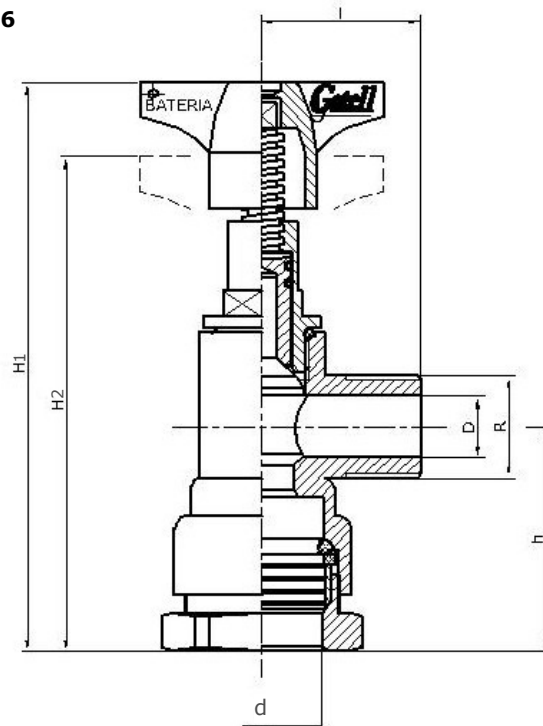
- Bush: Ref. BH401
- Tubing nut bush: Ref. BH425
- Adjustable spanner: Ref. BH411
- Free bore: Ref. BH013
- Anti-fraud box: Ref. BH426 and Ref. BH427

Spare parts:

	Ref.		Ref.
Manual frame	BH403	Vulcanised metal non-return device	BH405
Non-return device	BH404		

TECHNICAL DRAWING FOR THE VALVE

Ref. BH106



Ref.	D (DN)	h (mm)	H1 (mm)	H2 (mm)	d (mm)	l (mm)	R	Weight (kg)
BH106	13	46	120	106	20.5	34	LL13 LEFT	0.37
	13	46	125.5	105.5	25.5	34	LL13 LEFT	0.39
	20	60	151.5	131.5	32.5	34	1" LEFT	0.62

Ref.	Application	PN	Measurements/DN	Øext piping (mm)		
				20	25	32
BH109	Valves with plugs for plastic piping intended for installation in individual drinking water mains meter connections	16	13		•	
			20			•

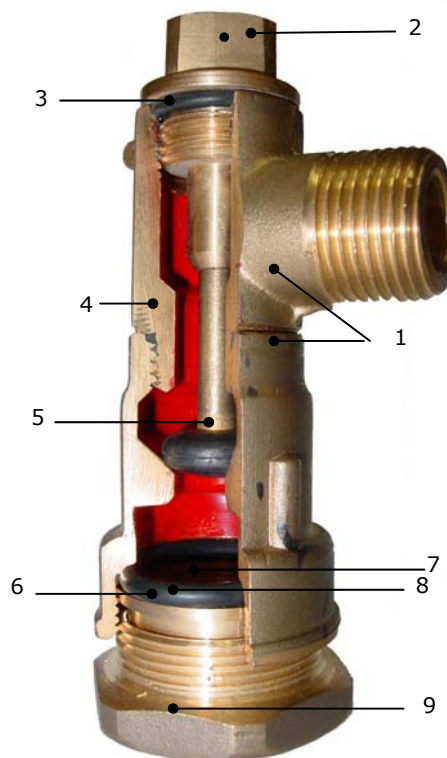
Meter connections made using bushes (Ref. BH401) and tubing nut bush (Ref. BH425)

Ref.		Valve connection		Meter connection						
		DN		LL13	1/2"	3/4"	7/8"	1"	1 1/4"	1 1/2"
BH109	BUSH	13	LL13 Left	•	•	•	•	•		
		20	1" Left	•		•	•	•	•	•
	TUBING NUT BUSH	13	LL13 Left			•	•	•		
		20	1" Left				•	•	•	

Automatic entrance valve
Ref. BH109
Specifications:

Automatic valve with non-return device incorporated. This valve has been designed to be blocked when necessary. By simply changing the non-return device holder an effective anti-fraud system is obtained. Valve design allows connection to all types of plastic piping.

- 1. Body** made of pressed brass CW617N in accordance with UNE-EN 12165. With drilled lug for sealing.
- 2. Bar-turning plug with shaft** for non-return device holder made of brass in accordance with UNE-EN 12166. With drill hole for sealing.
- 3. O-ring plug** made of EPDM in accordance with UNE-EN 681-1.
- 4. Body joint O-ring** made of EPDM in accordance with UNE-EN 681-1.
- 5. Non-return device** made of vulcanised brass.
- 6. O-ring** made of EPDM.
- 7. Bar-turning pressure ring** made of brass in accordance with UNE-EN 12166.
- 8. Bar-turning washer** made of brass in accordance with UNE-EN 12166.
- 9. Nut** made of pressed brass CW617N in accordance with UNE-EN 12165.



This valve complies with the basic legislation for Interior Water Supply Installations of the Ministry of Industry published in the Official State Bulletin dated 13th of January 1976, section 1.4.1: "The materials employed in piping and plumbing must be capable, in general and as a minimum, of withstanding a working pressure of 15 kg/cm²".

- The body thread permits the use of a bush (Ref. BH401) or a tubing nut bush (Ref. BH425).
- It includes a non-return valve:
 - Guarantees public health by preventing undesired return of water.
 - Protects the meters from hot water returns.
 - Maintains hydraulic performance.
 - Does not increase costs.
- Available connection components (Ref. BH401 and Ref. BH425) allow the installation or replacement of any type of meter by simply employing an adjustable spanner (Ref. BH411).

Accessories:

- Bush: Ref. BH401
- Tubing nut bush: Ref. BH425
- Adjustable spanner: Ref. BH411
- Free bore: Ref. BH013
- Blocking plug: Ref. BH420
- Anti-fraud box: Ref. BH426 and Ref. BH427

Spare parts:

Plug with shaft for automatic entry	Ref. BH421
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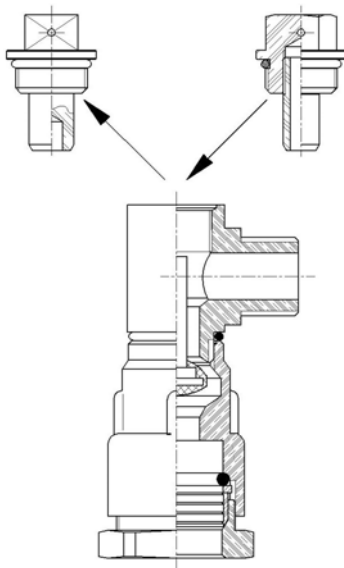
Vulcanised metal non-return device	Ref. BH405
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Instructions for blocking the valve:

1. Using an adjustable spanner (Ref. BH411) unscrew the plug with shaft (Ref. BH421).
2. The actual pressure of the water will maintain the system leak-tight.
3. Screw in the blocking plug: Ref. BH420
4. The blocking plug design enables the water pressure on the non-return device to maintain the valve closed.

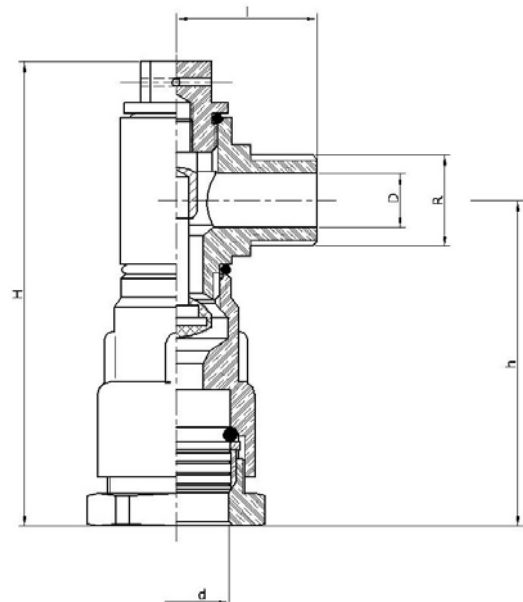
PLUG REPLACEMENT DIAGRAM

Ref. BH421 Ref. BH420



TECHNICAL DRAWING FOR THE VALVE

Ref. BH109



Ref.	D (DN)	h (mm)	H (mm)	d (mm)	l (mm)	R	Weight (kg)
BH109	13	78	110	25.5	34	LL13 LEFT	0.40
	20	93	134	32.5	33	1" LEFT	0.69

Ref.	Application	PN	Measurements/DN	Øext piping (mm)		
				20	25	32
BH113	Valves are intended for installation in individual drinking water mains meter connections	16	15		•	
			20			•

Meter connections made using bushes (Ref. BH401) and tubing nut bush (Ref. BH425)

Ref.	Valve connection		Meter connection							
		DN	LL13	1/2"	3/4"	7/8"	1"	1 1/4"	1 1/2"	
BH113	BUSH	13	LL13 Left	•	•	•	•	•		
	TUBING NUT BUSH	13	LL13 Left			•	•	•		

Knead ball entrance valve
Specifications:

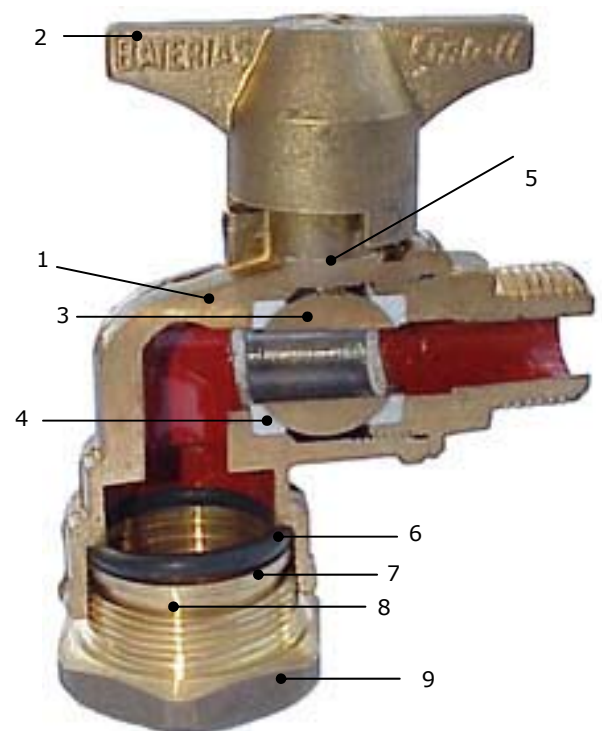
Knead valve designed avoiding right angles, so that the liquid flows without any turbulence, which produced a low load loss coefficient and consequently a high hydraulic performance.

By simply replacing the operating shaft with the blocking shaft an effective anti-fraud system is obtained.

Valve design allows connection to all types of plastic piping.

- 1. Body** made of pressed brass CW617N in accordance with UNE-EN 12165.
- 2. Lever** made of pressed brass CW617N in accordance with UNE-EN 12165.
- 3. Sphere** made of chrome-plated brass in accordance with UNE-EN 12166.
- 4. Leak-tight seal** made of Teflon.
- 5. Bar-turning operating shaft** made of brass. Includes O-ring.
- 6. O-ring** made of EPDM.
- 7. Bar-turning washer** made of brass in accordance with UNE-EN 12166.
- 8. Bar-turning pressure ring** made of brass in accordance with UNE-EN 12166.
- 9. Nut** made of pressed brass CW617N in accordance with UNE-EN 12165.

This valve complies with the basic legislation for Interior Water Supply Installations of the Ministry of Industry published in the Official State Bulletin dated 13th of January 1976, section 1.4.1.: "The materials employed in piping and plumbing must be capable, in general and as a minimum, of withstanding a working pressure of 15 kg/cm²".

Ref. BH113


- The body thread permits the use of a bush (Ref. BH401) or a tubing nut bush (Ref. BH425).
- Available connection components (Ref. BH401 and Ref. BH425) allow the installation or replacement of any type of meter by simply employing an adjustable spanner (Ref. BH411).

Accessories:

- Bush: Ref. BH401
- Tubing nut bush: Ref. BH425
- Adjustable spanner: Ref. BH411
- Free bore: Ref. BH013
- Blocking shaft: Ref. BH412
- Anti-fraud box: Ref. BH426 and Ref. BH427

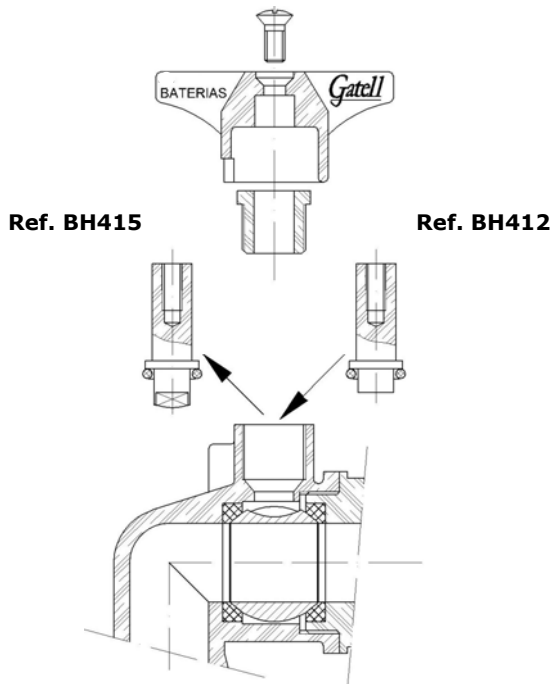
Spare parts:

Operating shaft	Ref. BH415
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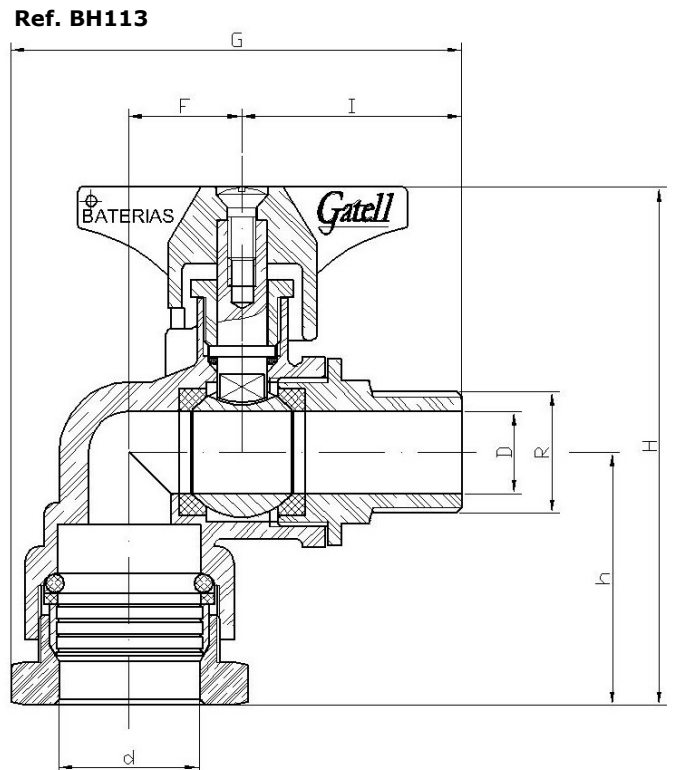
Instructions for blocking the valve:

1. Close off the water.
2. Remove the securing screw and extract the lever.
3. Remove the locking nut and remove the operating shaft.
4. Insert the blocking shaft and screw in the locking nut.
5. Replace the lever and screw in the securing screw.

SHAFT REPLACEMENT DIAGRAM



TECHNICAL DRAWING FOR THE VALVE



Ref.	D (DN)	d (mm)	h (mm)	F (mm)	G (mm)	H (mm)	I (mm)	R	Weight (kg)
BH113	15	20.5	46	20.5	79	94.5	40	LL13 LEFT	0.46
		25.5	46	20.5	82	94.5	40	LL13 LEFT	0.48
		32.5	57.5	20.5	85.75	100	40	LL13 LEFT	0.56