

## BALL VALVES

0499EN September 2017

VALVE FOR DANGEROUS GAS AND LIQUID HYDROCARBONS  
FULL PORT - R790B, R792B SERIES



### Description

Ball valve straight or angle, with female-male connections for a nut and tail piece. Specifically designed for domestic gas hydraulic systems. Made of brass. Full port. Complete of pressure outlet with 1/4"F connection, with protection cap, for verifying the seal in internal gas distribution systems (UNI 7129) With reference to the standard UNI 7129-1:2008, the Giacomini ball valve for gas systems must be installed as a starting point and shut-off device. The R790B and R792B valves are fitted with a lock and pressure outlet complete with protective cap. This solution allows the seal test to be carried out as specified in UNI 11137-1, and prevents dangerous domestic accidents caused by leakages.

### Versions and product codes

Series	Product code	Connections	Finishing	Handle type	Handle color	Notes
R790B	R790BY004	3/4"F (Rp, EN 10226) x1 1/4"M (ISO 228)	Brass	T-handle	Yellow	With pressure outlet and lock
	R790BY005	1"F (Rp, EN 10226) x1 1/2"M (ISO 228)	Brass	T-handle	Yellow	With pressure outlet and lock
R792B	R792BY004	3/4"F (Rp, EN 10226) x1 1/4"M (ISO 228)	Brass	T-handle	Yellow	With pressure outlet and lock
	R792BY005	1"F (Rp, EN 10226) x1 1/2"M (ISO 228)	Brass	T-handle	Yellow	With pressure outlet and lock

### Optional or spare parts

Valve	Optional	Valve	Optional
R790BY004 R792BY004	R795FY004 Gasket, nut and female threaded tail piece Rp 3/4" (optional)	R790BY005 R792BY005	R795FY005 Gasket, nut and female threaded tail piece Rp 1" (optional)
	R795MY004 Gasket, nut and male threaded tail piece R 3/4" (optional)		R795MY005 Gasket, nut and male threaded tail piece R 1" (optional)
	R795VY004 Gasket, nut and press tail piece for copper pipe Ø 22 (V profile) (optional)		R795VY005 Gasket, nut and press tail piece for copper pipe Ø 28 (V profile) (optional)
	P790Y001 Pressure outlet, gasket and protection cap (spare part)		P790Y001 Pressure outlet, gasket and protection cap (spare part)
	P790Y002 Adaptor for the connection of the test tool (spare part)		P790Y002 Adaptor for the connection of the test tool (spare part)

### Technical data

#### Main features and materials

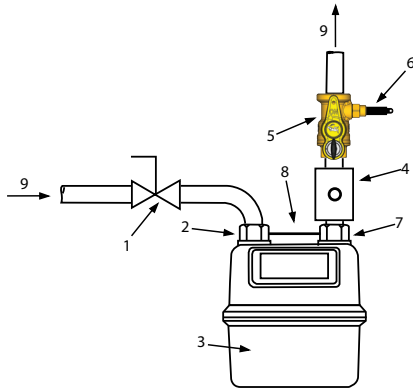
- Specifically designed for domestic gas systems and similar mains systems
- Full port
- Valve made of UNI EN 12165 CW617N brass
- Stem with double O-Ring
- Nut with anti-corrosion coating, with guarantee seal and hologram
- Aluminium T-handle, yellow painted
- Pressure outlet with 1/4"F connection, with protection cap, for verifying the seal in internal gas distribution systems (UNI 7129)

#### Field of applications

- Temperature range: -20÷60 °C
- Max. operating pressure (MOP) with gas: 0,5 MPa (5 bar)



**Layout of measurement group and connection to the gas system linked to the mains distribution**



**Legend**

1	Shut-off device before the meter (generally the responsibility of the distributor)
2	Inlet shank
3	Meter
4	A possible meter pressure outlet; this may be included in the shut-off device (1), or directly on the fixing bracket or outlet shank
5	Starting point and shut-off device (the responsibility of the customer)
6	Pressure outlet complete with cap. May be included directly in the shut-off device (5) (the responsibility of the customer)
7	Outlet shank
8	Fixing bracket
9	Gas

**Note.**

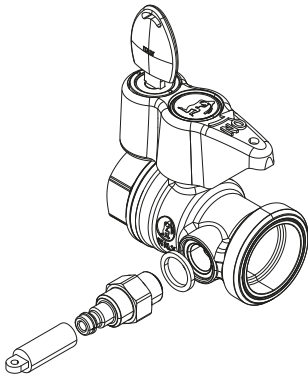
The seal test is regulated by standard UNI 11137-1, which gives the guidelines for verifying and restoring system seal, the seal requisites, the acceptability threshold for any possible gas dispersion, the circumstances necessitating a seal test, the criteria for determining the dispersion value and considering a system suitable or unsuitable, and the seal restoral methods.



**Optional**

**Pressure outlet P790-1**

The pressure outlet P790Y001 with protective cap, must be assembled on the Giacomini ball valve for gas systems which, with reference to standard UNI 7129-1:2008, must be installed as the starting point and shut-off device. The pressure outlet allows the seal test to be carried out as specified in UNI 11137-1, and prevents dangerous domestic accidents caused by leakages.



**Pressure outlet installation**



**Warning.**

The installation must be carried out by qualified personnel.

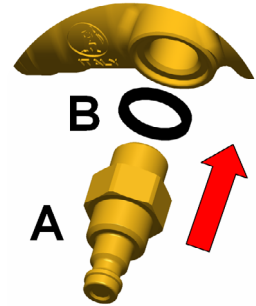
Pay special attention to:

- avoid mechanical stress on the pressure outlet **A**, protective cap **D** and adaptor **C**.
- make sure the components are clean before and after using them, especially the pressure outlet **A**.
- respect standard UNI 11137-1 with regards checking and restoring the system seal.

Tighten the pressure outlet **A** on the valve body, using a 17 mm hexagon wrench and making sure the gasket **B** is correctly positioned in its seat.

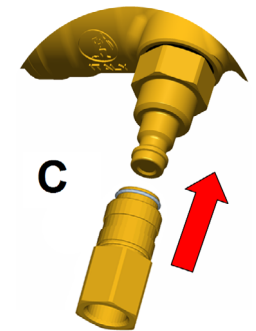
Close the ball valve, making sure the meter is not subjected to any strain, then carry out the seal test with the aid of a suitable test tool.

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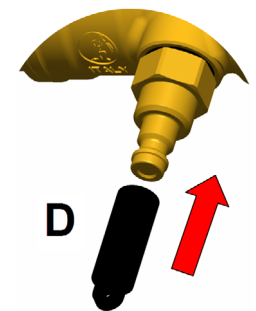


If the test tool is not compatible with the pressure outlet **A**, use the adaptor P790Y002 with a 1/4" F thread (to be purchased separately).

Between the adaptor and the pressure outlet there is a bayonet connection. The adaptor is connected to the test point by pushing it horizontally until you hear a "click". Remove it by pulling the knurled ring nut from the opposite side.



At the end of the test, after disconnecting the test tool, protect the pressure outlet with the cap **D** with fixing slot, which you will find in the package.



**Warning.**

The installer is responsible for protecting the pressure outlet and its cap from any mechanical strain that could jeopardise its good functioning and the restoral of the seal at the end of the test (also in the case of forcing or tampering).



**Dimensions**

R790B		R792B		R795F - optional													
P790Y001 - spare part		P790Y002 - spare part		R795M - optional													
P795Y001 - spare part		P795Y002 - spare part		R795V - optional													
Product code	DN	Rp	A [mm]	I [mm]	B [mm]	J [mm]	C [mm]	H [mm]	P [mm]	G	H' [mm]	H'' [mm]	R	V	L [mm]	M [mm]	N [mm]
R790BY004	20	3/4"	78	44	109	21	78	32	73	1 1/4"	-	-	-	-	-	56	111
R790BY005	25	1"	90	49	117	24	78	40	76	1 1/2"	-	-	-	-	-	56	120
R792BY004	20	3/4"	64	31	127	38	78	32	77	1 1/4"	-	-	-	-	-	56	129
R792BY005	25	1"	75	35	135	42	78	40	81	1 1/2"	-	-	-	-	-	56	137
R795FY004		Rp 3/4"	-	-	-	-	-	-	-	G 1 1/4"	46	32	-	-	22		
R795FY005		Rp 1"	-	-	-	-	-	-	-	G 1 1/2"	53	38	-	-	22		
R795MY004		-	-	-	-	-	-	-	-	G 1 1/4"	46	-	R 3/4"	-	33		
R795MY005		-	-	-	-	-	-	-	-	G 1 1/2"	53	-	R 1"	-	36		
R795VY004		-	-	-	-	-	-	-	-	G 1 1/4"	46	-	-	-	44		
R795VY005		-	-	-	-	-	-	-	-	G 1 1/2"	53	-	-	-	44		



**Warning.**

The shut-off device (the starting point) must only be manoeuvred by the user concerned (ref. UNI 7129-1:2008), for instance in a niche where access is protected by a lock or padlock.



## Product specifications

### R790B

Straight ball valve with female-male connections for a nut or tail piece. Made of UNI EN 12165 CW617N brass. Specifically designed for domestic gas systems and similar mains systems. Full port. Aluminium T-handle, yellow painted, with lockable safety closure. Stem with double O-ring. Nut with anti-corrosion coating, with guarantee seal and hologram. Complete with pressure outlet suitable for verifying the seal in internal gas distribution systems (UNI 7129). Maximum operating pressure (MOP) with gas: 0,5 MPa (5 bar). Temperature range -20÷60 °C.

### R792B

Angled ball valve with female-male connections for a nut or tail piece. Made of UNI EN 12165 CW617N brass. Specifically designed for domestic gas systems and similar mains systems. Full port. Aluminium T-handle, yellow painted, with lockable safety closure. Stem with double O-ring. Nut with anti-corrosion coating, with guarantee seal and hologram. Complete with pressure outlet suitable for verifying the seal in internal gas distribution systems (UNI 7129). Maximum operating pressure (MOP) with gas: 0,5 MPa (5 bar). Temperature range -20÷60 °C.

### P790-1

Pressure outlet with quick connection for verifying the seal in internal gas distribution systems. With seal gasket and rubber protection. For R790 and R792 ball valves.

### P790-2

Adaptor for pressure outlet, with threaded female outlet.

### R795M

Threaded male tail piece with nut and seal gasket, made of brass, to complete ball valves of R790, R790B, R792, R792B series.

### R795F

Threaded female tail piece with nut and seal gasket, made of brass, to complete ball valves of R790, R790B, R792, R792B series.

### R795V

Pressure tail piece with nut and seal gasket, made of brass, to complete ball valves of R790, R790B, R792, R792B series.

#### Additional information

For more information, go to [www.giacomini.com](http://www.giacomini.com) or contact our technical assistance service: ☎ +39 0322 923372 📠 +39 0322 923255 ✉ [consulenza.prodotti@giacomini.com](mailto:consulenza.prodotti@giacomini.com)

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