

R850-U



Gas
Distribution



Energy
Management

Valve for water for heating/cooling systems, dangerous and not dangerous gas, liquid hydrocarbons

Datasheet
0918EN  06/2025



Ball valve, with female-female threaded connections.
Full port.

 **NOTE.** For information about product certification (applicability, field of use, terms of approval), please contact Giacomini technical support.

Technical data

Main features and materials

- Suitable for water for heating/cooling systems, dangerous and not dangerous gas, liquid hydrocarbons*
- Full port
- Valve made of UNI EN 12165 CW617N
- Stem with double O-Ring
- Steel lever handle with anti-corrosion treatment and PVC coating
- Nut with anti-corrosion coating, with guarantee seal and hologram

* Please consult Giacomini technical support, to check the compatibility of the product with the specific hydrocarbon.

Fields of applications

Use with water and not dangerous gas

- Min. working temperature: -20 °C with 50 % glycol solutions
- Max. working temperature with dry saturated steam: 185 °C with 1,05 MPa (10,5 bar)
- Max. work. pressure at 20 °C with water and not dangerous gas: 3,5 MPa (35 bar) for 1/4", 3/8", 1/2", 3/4"
2,8 MPa (28 bar) for 1", 1-1/4", 1-1/2", 2"

Use with gas and liquid hydrocarbons

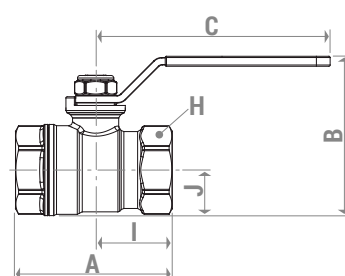
- Temperature range: -20÷60 °C
- Max. working pressure at 20 °C with liquid hydrocarbons*: 1,2 MPa (12 bar)
- Max. operating pressure (MOP) with gas: 0,5 MPa (5 bar)

➤ Versions and product codes

PRODUCT CODE	CONNECTIONS	FINISHING	HANDLE TYPE	HANDLE COLOR
R850UY001	1/4"NPT-F x 1/4"NPT-F	Brass	Lever	Red
R850UY002	3/8"NPT-F x 3/8"NPT-F	Brass	Lever	Red
R850UY003	1/2"NPT-F x 1/2"NPT-F	Brass	Lever	Red
R850UY004	3/4"NPT-F x 3/4"NPT-F	Brass	Lever	Red
R850UY005	1"NPT-F x 1"NPT-F	Brass	Lever	Red
R850UY006	1-1/4"NPT-F x 1-1/4"NPT-F	Brass	Lever	Red
R850UY007	1-1/2"NPT-F x 1-1/2"NPT-F	Brass	Lever	Red
R850UY008	2"NPT-F x 2"NPT-F	Brass	Lever	Red
R850UY181	1/4"NPT-F x 1/4"NPT-F	Brass	Lever	Yellow
R850UY182	3/8"NPT-F x 3/8"NPT-F	Brass	Lever	Yellow
R850UY183	1/2"NPT-F x 1/2"NPT-F	Brass	Lever	Yellow
R850UY184	3/4"NPT-F x 3/4"NPT-F	Brass	Lever	Yellow
R850UY185	1"NPT-F x 1"NPT-F	Brass	Lever	Yellow
R850UY186	1-1/4"NPT-F x 1-1/4"NPT-F	Brass	Lever	Yellow
R850UY187	1-1/2"NPT-F x 1-1/2"NPT-F	Brass	Lever	Yellow
R850UY188	2"NPT-F x 2"NPT-F	Brass	Lever	Yellow
R850UY093	1/2"NPT-F x 1/2"NPT-F	Brass	Lever	Blue
R850UY094	3/4"NPT-F x 3/4"NPT-F	Brass	Lever	Blue
R850UY095	1"NPT-F x 1"NPT-F	Brass	Lever	Blue
R850UY096	1-1/4"NPT-F x 1-1/4"NPT-F	Brass	Lever	Blue
R850UY097	1-1/2"NPT-F x 1-1/2"NPT-F	Brass	Lever	Blue
R850UY098	2"NPT-F x 2"NPT-F	Brass	Lever	Blue

➤ Dimensions


PRODUCT CODE	DN [mm]	A [mm]	I [mm]	B [mm]	J [mm]	C [mm]	H [mm]	Kv
R850UY001	8	43	21	36	10	43	17	6,6
R850UY002	10	46	23	45	13	77	20	6,7
R850UY003	15	53	27	51	16	77	25	12,7
R850UY004	20	60	30	67	20	95	31	24,6
R850UY005	25	74	37	76	25	95	38	48,5
R850UY006	32	84	42	85	29	95	47	98
R850UY007	40	95	47	104	35	137	54	140
R850UY008	50	109	54	120	43	137	66	211
R850UY181	8	43	21	36	10	43	17	6,6
R850UY182	10	46	23	45	13	77	20	6,7
R850UY183	15	53	27	51	16	77	25	12,7
R850UY184	20	60	30	67	20	95	31	24,6
R850UY185	25	74	37	76	25	95	38	48,5
R850UY186	32	84	42	85	29	95	47	98
R850UY187	40	95	47	104	35	137	54	140
R850UY188	50	109	54	120	43	137	66	211
R850UY093	15	53	27	51	16	77	25	12,7
R850UY094	20	60	30	67	20	95	31	24,6
R850UY095	25	74	37	76	25	95	38	48,5
R850UY096	32	84	42	85	29	95	47	98
R850UY097	40	95	47	104	35	137	54	140
R850UY098	50	109	54	120	43	137	66	211





Product specifications


R850-U

Ball valve with female-female threaded connections (NPT, ASME B1.20.1). Suitable for water for heating/cooling systems, dangerous and not dangerous gas, liquid hydrocarbons. Valve made of UNI EN 12165 CW617N brass. Full port. Steel lever handle with anti-corrosion treatment and red, yellow or blue PVC coating. Stem with double O-Ring. Nut with anti-corrosion coating, with guarantee seal and hologram. Use with water and not dangerous gas: Min. working temperature: -20 °C with 50 % glycol solutions. Max. working temperature with dry saturated steam: 185 °C with 1,05 MPa (10,5 bar). Max. working pressure at 20 °C with water and not dangerous gas: 3,5 MPa (35 bar) for 1/4", 3/8", 1/2", 3/4"; 2,8 MPa (28 bar) for 1", 1-1/4", 1-1/2", 2". Use with gas and liquid hydrocarbons: Temperature range: -20÷60 °C. Max. working pressure at 20 °C with liquid hydrocarbons: 1,2 MPa (12 bar). Max. operating pressure (MOP) with gas: 0,5 MPa (5 bar).

 **Safety Warning.** Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

 **Package Disposal.** Carton boxes: paper recycling. Plastic bags and bubble wrap: plastic recycling.

 **Additional information.** For more information, go to giacomini.com or contact our technical assistance service. This document provides only general indications. Giacomini S.p.A. may change at any time, without notice and for technical or commercial reasons, the items included herewith. The information included in this technical sheet do not exempt the user from strictly complying with the rules and good practice standards in force.

 **Product Disposal.** Do not dispose of product as municipal waste at the end of its life cycle. Dispose of product at a special recycling platform managed by local authorities or at retailers providing this type of service.