R850-U

Valve for water for heating/ cooling systems, compressed air, natural gas and LPG

Gas Distribution

Energy Management

Datasheet
0918US 06/2026



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 plumbing systems, compressed air, natural gas and LPG* systems
- Full port
- Valve made of ASTM C37700 (EN 12165 CW617N) untreated or chrome plated brass
- 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 temperat.: 0 °F (-20 °C) with 50 % glycol solutions
- Max. working temperature with dry saturated steam: 350 °F (185 °C) with 150 psi (10,5 bar)
- Max. working pressure at 68 °F (20 °C) with water and compressed air:
  500 psi (35 bar) for 1/4", 3/8", 1/2", 3/4"
  400 psi (28 bar) for 1", 1-1/4", 1-1/2", 2"

Use with natural gas and LPG

- Temperature range: 0÷140 °F (-20÷60 °C)
- Max. working pressure at 68 °F (20 °C) with LPG*: 175 psi (12 bar)
- Max. operating pressure (MOP) with gas: 70 psi (5 bar)

GIACOMINI WATER E-MOTION

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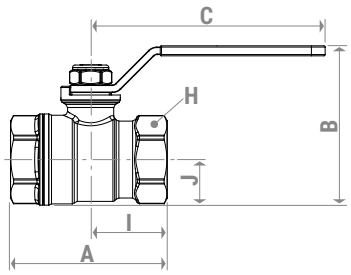
Versions and product codes

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
R850UX001	1/4"NPT-F x 1/4"NPT-F	Chrom plated brass	Lever	Red
R850UX002	3/8"NPT-F x 3/8"NPT-F	Chrom plated brass	Lever	Red
R850UX003	1/2"NPT-F x 1/2"NPT-F	Chrom plated brass	Lever	Red
R850UX004	3/4"NPT-F x 3/4"NPT-F	Chrom plated brass	Lever	Red
R850UX005	1"NPT-F x 1"NPT-F	Chrom plated brass	Lever	Red
R850UX006	1-1/4"NPT-F x 1-1/4"NPT-F	Chrom plated brass	Lever	Red
R850UX007	1-1/2"NPT-F x 1-1/2"NPT-F	Chrom plated brass	Lever	Red
R850UX008	2"NPT-F x 2"NPT-F	Chrom plated brass	Lever	Red

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Dimensions

PRODUCT CODE	SIZE [in. mm]	A [in. mm]	I [in. mm]	B [in. mm]	J [in. mm]	C [in. mm]	H (wrench) [in. mm]	Cv
R850UY001	1/4" 8	1.69 43	0.83 21	1.42 36	0.39 10	1.69 43	0.67 17	7.7
R850UY002	3/8" 10	1.81 46	0.91 23	1.77 45	0.51 13	3.03 77	0.79 20	7.8
R850UY003	1/2" 15	2.09 53	1.06 27	2.01 51	0.63 16	3.03 77	0.98 25	14.7
R850UY004	3/4" 20	2.36 60	1.18 30	2.64 67	0.79 20	3.74 95	1.22 31	28.5
R850UY005	1" 25	2.91 74	1.46 37	2.99 76	0.98 25	3.74 95	1.50 38	56.3
R850UY006	1-1/4" 32	3.31 84	1.65 42	3.35 85	1.14 29	3.74 95	1.85 47	114
R850UY007	1-1/2" 40	3.74 95	1.85 47	4.09 104	1.38 35	5.39 137	2.13 54	162
R850UY008	2" 50	4.29 109	2.13 54	4.72 120	1.69 43	5.39 137	2.60 66	245
R850UY181	1/4" 8	1.69 43	0.83 21	1.42 36	0.39 10	1.69 43	0.67 17	7.7
R850UY182	3/8" 10	1.81 46	0.91 23	1.77 45	0.51 13	3.03 77	0.79 20	7.8
R850UY183	1/2" 15	2.09 53	1.06 27	2.01 51	0.63 16	3.03 77	0.98 25	14.7
R850UY184	3/4" 20	2.36 60	1.18 30	2.64 67	0.79 20	3.74 95	1.22 31	28.5
R850UY185	1" 25	2.91 74	1.46 37	2.99 76	0.98 25	3.74 95	1.50 38	56.3
R850UY186	1-1/4" 32	3.31 84	1.65 42	3.35 85	1.14 29	3.74 95	1.85 47	114
R850UY187	1-1/2" 40	3.74 95	1.85 47	4.09 104	1.38 35	5.39 137	2.13 54	162
R850UY188	2" 50	4.29 109	2.13 54	4.72 120	1.69 43	5.39 137	2.60 66	245
R850UY093	1/2" 15	2.09 53	1.06 27	2.01 51	0.63 16	3.03 77	0.98 25	14.7
R850UY094	3/4" 20	2.36 60	1.18 30	2.64 67	0.79 20	3.74 95	1.22 31	28.5
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R850UY098	2" 50	4.29 109	2.13 54	4.72 120	1.69 43	5.39 137	2.60 66	245
R850UX001	1/4" 8	1.69 43	0.83 21	1.42 36	0.39 10	1.69 43	0.67 17	7.7
R850UX002	3/8" 10	1.81 46	0.91 23	1.77 45	0.51 13	3.03 77	0.79 20	7.8
R850UX003	1/2" 15	2.09 53	1.06 27	2.01 51	0.63 16	3.03 77	0.98 25	14.7
R850UX004	3/4" 20	2.36 60	1.18 30	2.64 67	0.79 20	3.74 95	1.22 31	28.5
R850UX005	1" 25	2.91 74	1.46 37	2.99 76	0.98 25	3.74 95	1.50 38	56.3
R850UX006	1-1/4" 32	3.31 84	1.65 42	3.35 85	1.14 29	3.74 95	1.85 47	114
R850UX007	1-1/2" 40	3.74 95	1.85 47	4.09 104	1.38 35	5.39 137	2.13 54	162
R850UX008	2" 50	4.29 109	2.13 54	4.72 120	1.69 43	5.39 137	2.60 66	245



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Product specifications

R850-U

Ball valve with female-female threaded connections (NPT, ASME B1.20.1). Suitable for plumbing systems, compressed air, natural gas and LPG systems. Valve made of ASTM C37700 (EN 12165 CW617N) untreated or chrome plated 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 compressed air: Min. working temperature: 0 °F with 50 % glycol solutions. Max. working temperature with dry saturated steam: 350 °F with 150 psi. Max. working pressure at 68 °F with water and compressed air: 500 psi for 1/4", 3/8", 1/2", 3/4"; 400 psi for 1", 1-1/4", 1-1/2", 2". Use with natural gas and LPG: Temperature range: 0÷140 °F. Max. working pressure at 68 °F with LPG: 175 psi. Max. operating pressure (MOP) with gas: 70 psi.

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.

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