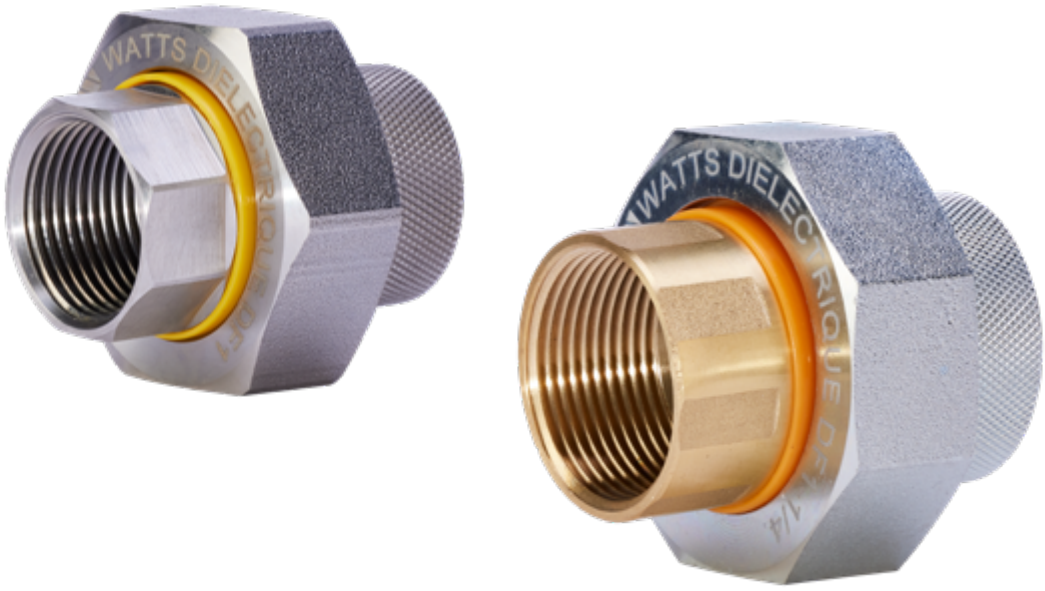
ISO RID Series

Dielectric unions for drinking water installations

Technical Data Sheet



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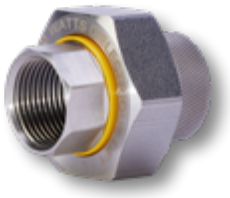
Description

UBA-compliant (German Environment Agency) ISO-RID series dielectric unions are specially developed for use in drinking water installations and offer reliable protection against galvanic corrosion. Depending on the version, these dielectric unions are either made entirely of stainless steel or a combination of stainless steel and brass. The threaded connections are optionally available in internal/internal or external/internal thread version. Each dielectric union is supplied with an EPDM seal and an HD-PE insulator.



ISO-RID VA-VA dielectric union

Dielectric union made of stainless steel to prevent galvanic corrosion in systems with various metallic materials, max. temperature 110 °C, max. pressure 16 bar, UBA-compliant. Seal kits available for all ISO-RID types.

Type		Part no. ISO-RID	Weight	PU	Part no. seal kit
Internal thread - internal thread					
ISO-RID IG-IG	½"	10088723	0.22 kg	1/50	10089027
ISO-RID IG-IG	¾"	10088724	0.30 kg	1/50	10089028
ISO-RID IG-IG	1"	10088725	0.40 kg	1/25	10089029
ISO-RID IG-IG	1¼"	10088727	0.60 kg	1/15	10089030
ISO-RID IG-IG	1½"	10088729	1.34 kg	1/10	10089031
ISO-RID IG-IG	2"	10088730	1.88 kg	1/6	10089032
Internal thread - external thread					
ISO-RID IG-AG	½"	10088721	0.17 kg	1/60	10089033
ISO-RID IG-AG	¾"	10088722	0.23 kg	1/50	10089034

ISO-RID VA-MS dielectric union

Dielectric union made of stainless steel and brass to prevent galvanic corrosion in systems with various metallic materials, max. temperature 110 °C, max. pressure 16 bar, UBA-compliant. Seal kits available for all ISO-RID types.

Type		Part no. ISO-RID	Weight	PU	Part no. seal kit
Internal thread - internal thread					
ISO-RID IG-IG	½"	10088760	0.21 kg	1/50	10089027
ISO-RID IG-IG	¾"	10088761	0.29 kg	1/50	10089028
ISO-RID IG-IG	1"	10088762	0.43 kg	1/25	10089029
ISO-RID IG-IG	1¼"	10088763	0.62 kg	1/15	10089030
ISO-RID IG-IG	1½"	10088764	1.27 kg	1/10	10089031
ISO-RID IG-IG	2"	10088765	1.81 kg	1/6	10089032
Internal thread external thread					
ISO-RID IG-AG	½"	10088766	0.16 kg	1/60	10089033
ISO-RID IG-AG	¾"	10088767	0.22 kg	1/50	10089034

Approvals

The current UBA Declaration of Conformity is available on our website in the "Approvals" section at https://www.watts.eu/de/technical-support/approvals.

The UBA (German Environment Agency) defines hygienic requirements for products used with drinking water.

Why use dielectric unions?

What happens if you don't use a dielectric union?

The combination of different metallic materials in contact with water creates a galvanic element, which results in a current flow through a chemical reaction. As a result, the less noble metal becomes the anode and decomposes (galvanic corrosion).By using dielectric unions, the different metallic materials are insulated/separated from each other. This means that there is no conductive connection and the risk of galvanic corrosion is reduced.

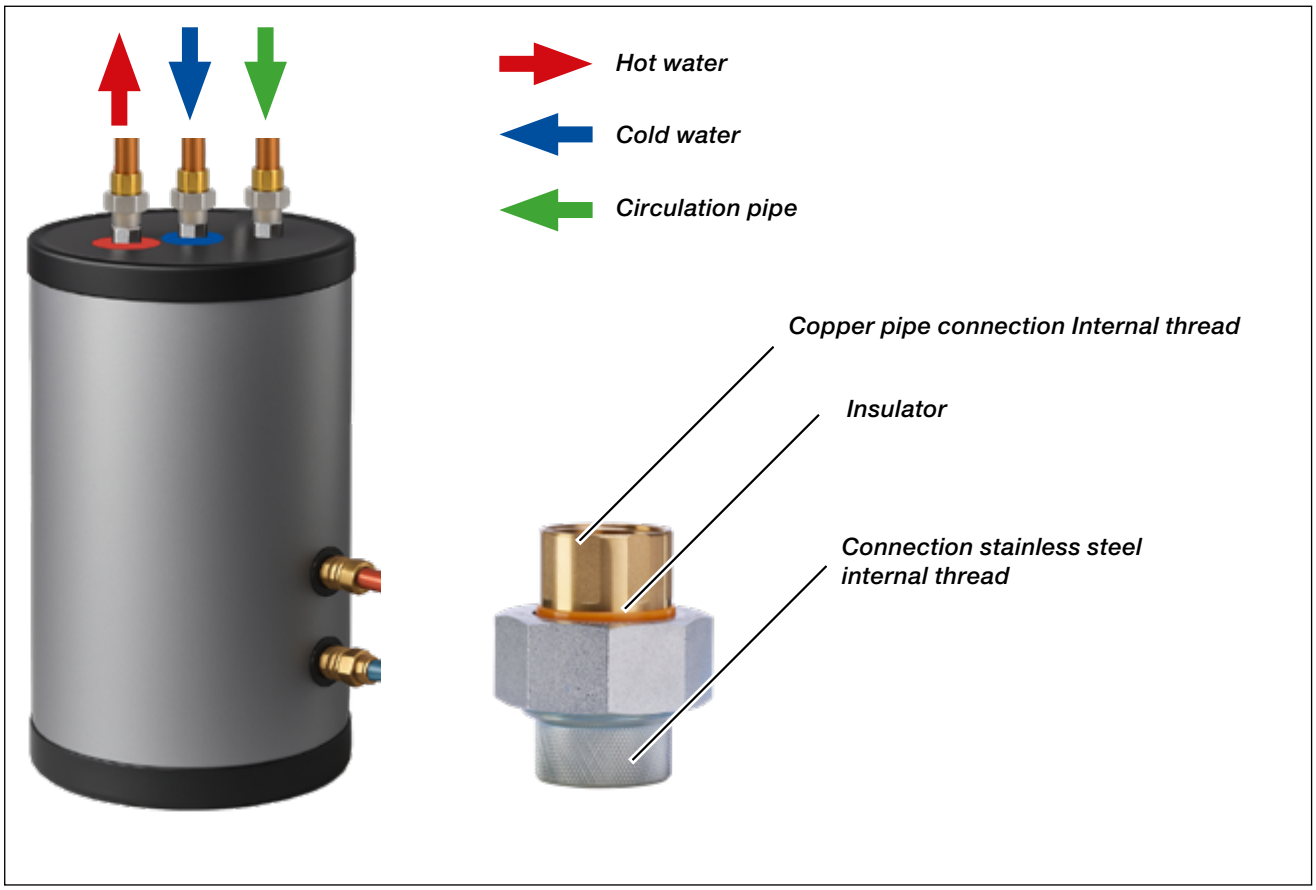
They are used to prevent galvanic corrosion between different metallic materials when using drinking water connections to storage tanks, instantaneous water heaters or heat exchangers. This extends the service life of the sacrificial anode and of the storage tank or the appliances used!

Furthermore, attention must also be paid to the arrangement of the metals in the flow direction. Base metals should be installed before more noble metals (e.g. steel before copper).

The specifications for corrosion protection and installation conditions of the respective appliances, in particular storage tanks and boilers, must be observed. Compliance with the generally accepted rules of engineering practice is required.

Application example

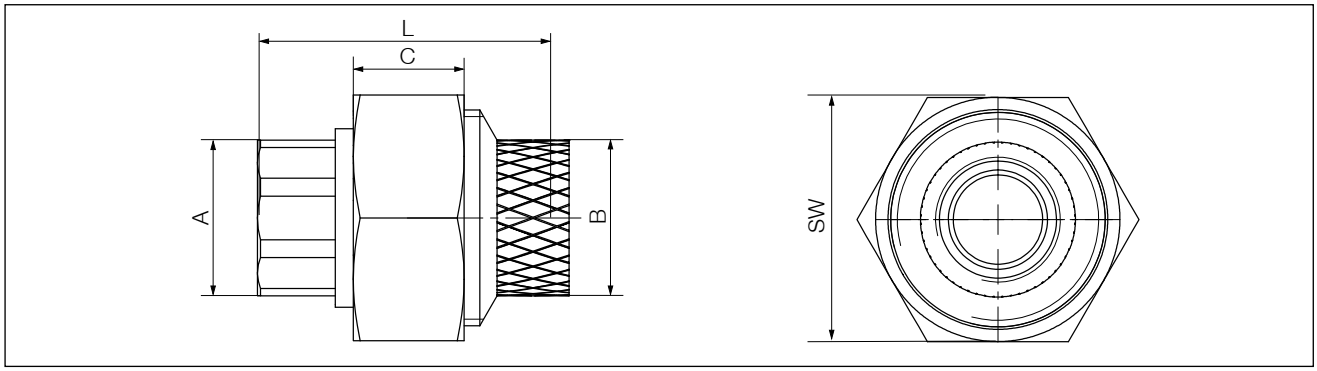
Dielectric unions connect copper pipes and stainless steel pipes to hot water storage tanks, for example at the connections for hot water, cold water and circulation.



Technical data

Hydraulic data	
Max. temperature	110 °C
Max. pressure	16 bar
Materials	
Housing	Stainless steel (ISO RID VA-VA) Stainless steel / brass CW511N (ISO RID VA-MS)
Gasket	EPDM
Separator / insulator	HD-PE ring

Overall dimensions [mm]



Type	Part no.		A	B	C	L	SW
	VA-VA	VA-MS	Internal thread	Internal thread	[mm]	[mm]	[mm]
ISO-RID IG-IG	10088723	10088760	G ½	G ½	18,5	52	41
ISO-RID IG-IG	10088724	10088761	G ¾	G ¾	20	56	48
ISO-RID IG-IG	10088725	10088762	G 1	G 1	22	62,5	58
ISO-RID IG-IG	10088727	10088763	G 1¼	G 1¼	24,5	69,5	70
ISO-RID IG-IG	10088729	10088764	G 1½	G 1½	26,5	70,5	89
ISO-RID IG-IG	10088730	10088765	G 2	G 2	30	78	102
	VA-VA	VA-MS	Internal thread	External thread			
ISO-RID IG-AG	10088721	10088766	G ½	G ½ B	18,5	55	36
ISO-RID IG-AG	10088722	10088767	G ¾	G ¾ B	18,5	60	41

Specification texts

ISO-RID VA-MS IG IG dielectric union
WATTS dielectric union made of stainless steel and brass, for preventing galvanic corrosion in systems with various metallic materials. Internal thread on both sides. Dimensions: ½" (part no. 10088723), ¾" (10088724), 1" (10088725), 1¼" (10088727), 1½" (10088729), 2" (10088729). Max. temperature: 110 °C Pressure rating: PN 16.

ISO-RID VA-MS IG AG dielectric union
WATTS dielectric union made of stainless steel and brass, for preventing galvanic corrosion in systems with various metallic materials. Internal thread (stainless steel) external thread (brass). Dimensions: ½" (part no. 10088721), ¾" (10088722). Max. temperature: 110 °C. Pressure rating: PN 16.

ISO-RID VA-VA IG IG dielectric union
WATTS stainless steel dielectric union, for preventing galvanic corrosion in systems with various metallic materials. Internal thread on both sides. Dimensions: ½" (part no. 10088760), ¾" (10088761), 1" (10088762), 1¼" (10088763), 1½" (10088764), 2" (10088765). Max. temperature: 110 °C. Pressure rating: PN 16.

ISO-RID VA-VA IG AG dielectric union
WATTS stainless steel dielectric union, for preventing galvanic corrosion in systems with various metallic materials. Internal thread (stainless steel), external thread (brass). Dimensions: ½" (part no. 10088766), ¾" (10088767). Max. temperature: 110 °C. Pressure rating: PN 16.

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