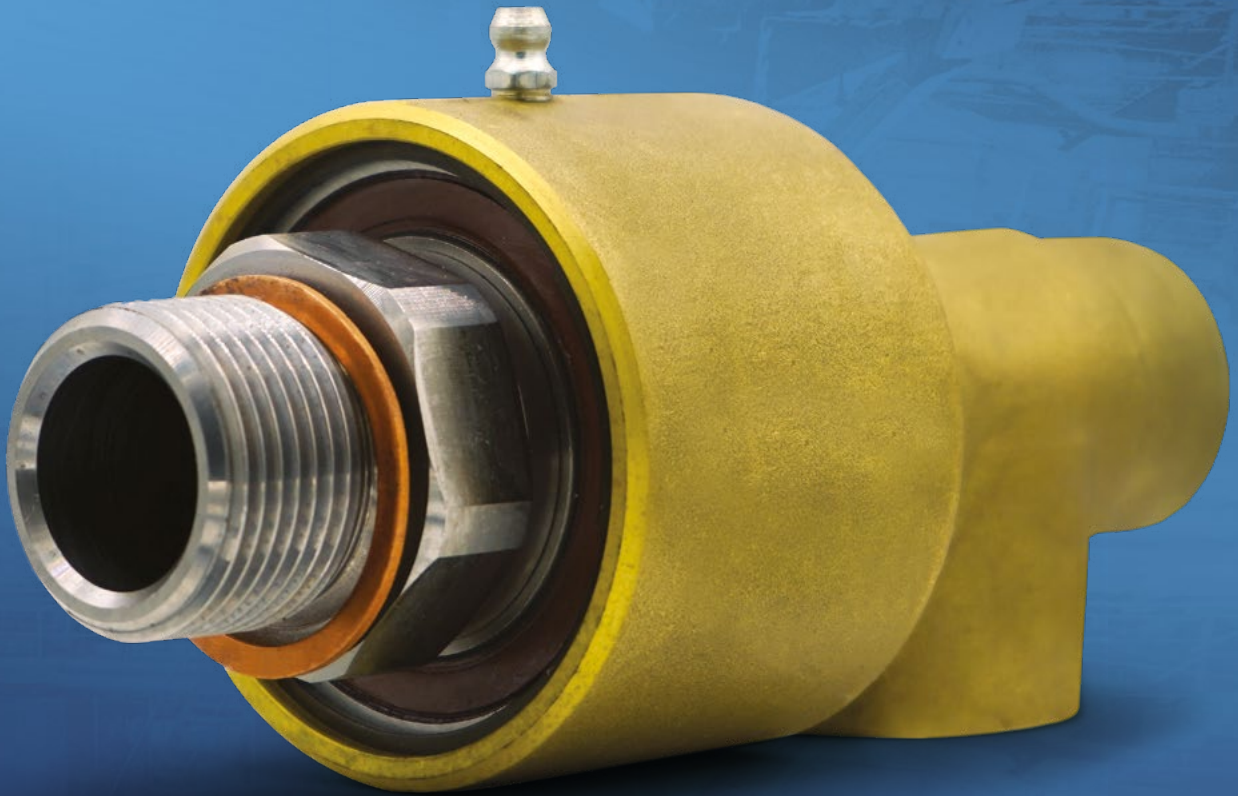




ROTARY UNIONS - GIUNTI ROTANTI

English version  |  Versione italiana



**U**  
series

[www.girol.it/br/](http://www.girol.it/br/)

# U

## UNIVERSAL ROTARY UNIONS

### Giunti rotanti universali

U series Rotary Unions are designed for the passage of water in cooling systems. The adaptability of this series facilitates the use of compressed air, vacuum and hydraulic oil up to a temperature of 100° C. Special versions allow the fluid circulation up to 170°C. U series Rotary Unions are commonly used in iron and steel plants, they can also be used in the paper, food, rubber and textile industries.

I giunti rotanti Girol Serie U sono progettati per il passaggio di acqua nei sistemi di raffreddamento e si distinguono per l'elevata flessibilità, che consente l'impiego anche con aria compressa, vuoto e olio idraulico fino a 100°C. Le versioni speciali resistono fino a 170°C. Trovano largo impiego in siderurgia, industria cartaria, alimentare, tessile e gomma-plastica.

#### FLUIDS

Water  
Oil  
Gas

#### ROTATION

5,000 rpm



#### MAX PRESSURE

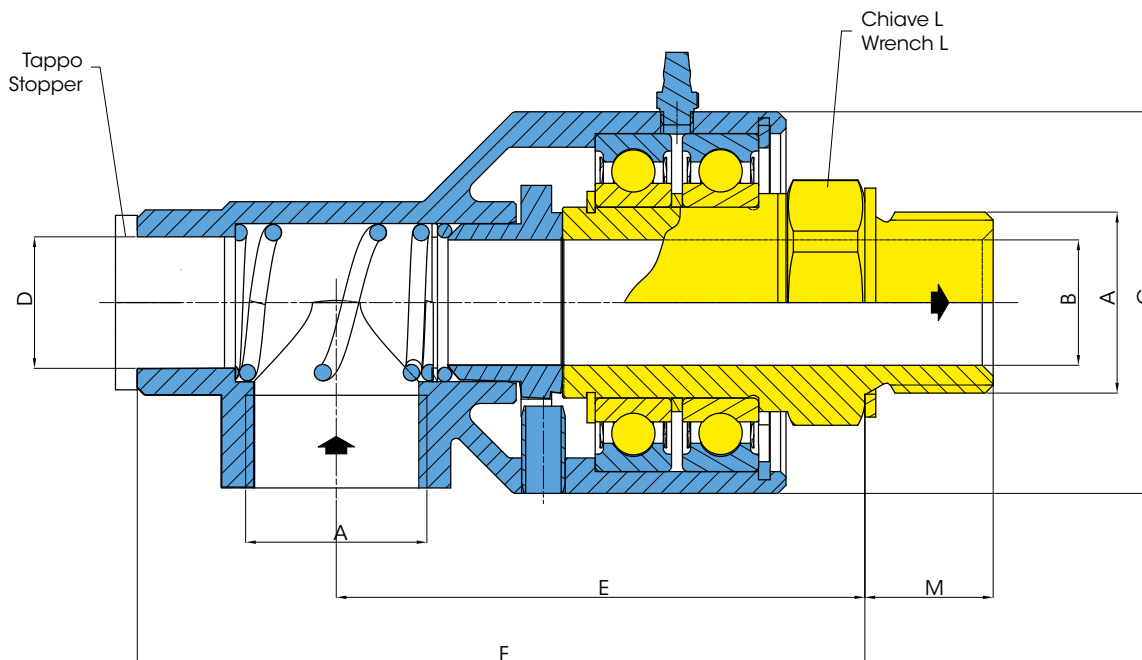
20 bar

play video  
on Youtube

# UNIVERSAL ROTARY UNIONS

## Giunti rotanti universali

# UM



■ FIXED PARTS / Parti fisse    
 ■ ROTARY PARTS / Parti rotanti

For left-hand threads, the third letter of the code changes by replacing "D" with "S".  
 Per filettature sinistre, la terza lettera del codice varia sostituendo "D" con "S"

GRAPHITE-INOX Grafite-Inox	SILICON-SILICON Silicio-Silicio	A	B	C	D	E	F	L	M	WEIGHT peso	RPM G/min
<b>UMD025-GB3GS</b>	<b>UMD025-GB2GS</b>	1/4" BSP	6 0.236	36 1.417	/	60 2.362	74 2.914	17	14,5 0,571	0,4 Kg 0,88 Lb	5.000
<b>UMD037-GB3GS</b>	<b>UMD037-GB2GS</b>	3/8" BSP	10 0.394	44 1.732	1/4" BSP	68 2.677	90 3.543	22	16 0.630	0,6 Kg 1.32 Lb	3.500
<b>UMD050-GB3GS</b>	<b>UMD050-GB2GS</b>	1/2" BSP	13 0.512	52 2.047	3/8" BSP	76 2.992	101 3.976	27	18 0.709	0,8 Kg 1.76 Lb	3.000
<b>UMD075-GB3GS</b>	<b>UMD075-GB2GS</b>	3/4" BSP	18 0.709	57 2.244	1/2" BSP	80 3.150	111 4.370	32	20 0.787	1,1 Kg 2.43 Lb	2.500
<b>UMD100-GB3GS</b>	<b>UMD100-GB2GS</b>	1" BSP	24 0.945	73 2.874	3/4" BSP	97 3.819	134 5.276	41	23 0.906	1,9 Kg 4.19 Lb	2.000
<b>UMD125-GB3GS</b>	<b>UMD125-GB2GS</b>	1 1/4" BSP	32 1.260	87 3.425	1" BSP	113 4.449	158 6.220	50	29 1.142	3,2 Kg 7.05 Lb	1.500
<b>UMD150-GB3GS</b>	<b>UMD150-GB2GS</b>	1 1/2" BSP	38 1.496	94 3.701	1 1/4" BSP	117 4.606	166 6.535	55	31 1.220	3,9 Kg 8.60 Lb	1.000
<b>UMD200-GB3GS</b>	<b>UMD200-GB2GS</b>	2" BSP	48 1.890	108 4.252	1 1/2" BSP	131 5.157	189 7.441	65	35 1.378	5,3 Kg 11,6 Lb	800
<b>UMD250-GC3GS</b>	<b>UMD250-GC2GS</b>	2 1/2" BSP	62 2.441	140 5.512	2" BSP	200 7.874	280 11.02	75	42 1.654	13 Kg 28,6 Lb	500

### General assembling warnings

- 1) Connections to the joint body must always be made using flexible hoses.
- 2) Supply lines to the joint and cylinders must be completely clean and free of chips, welding residues, or other contaminants.
- 3) Avoid operating the joint under more than one maximum service condition simultaneously.

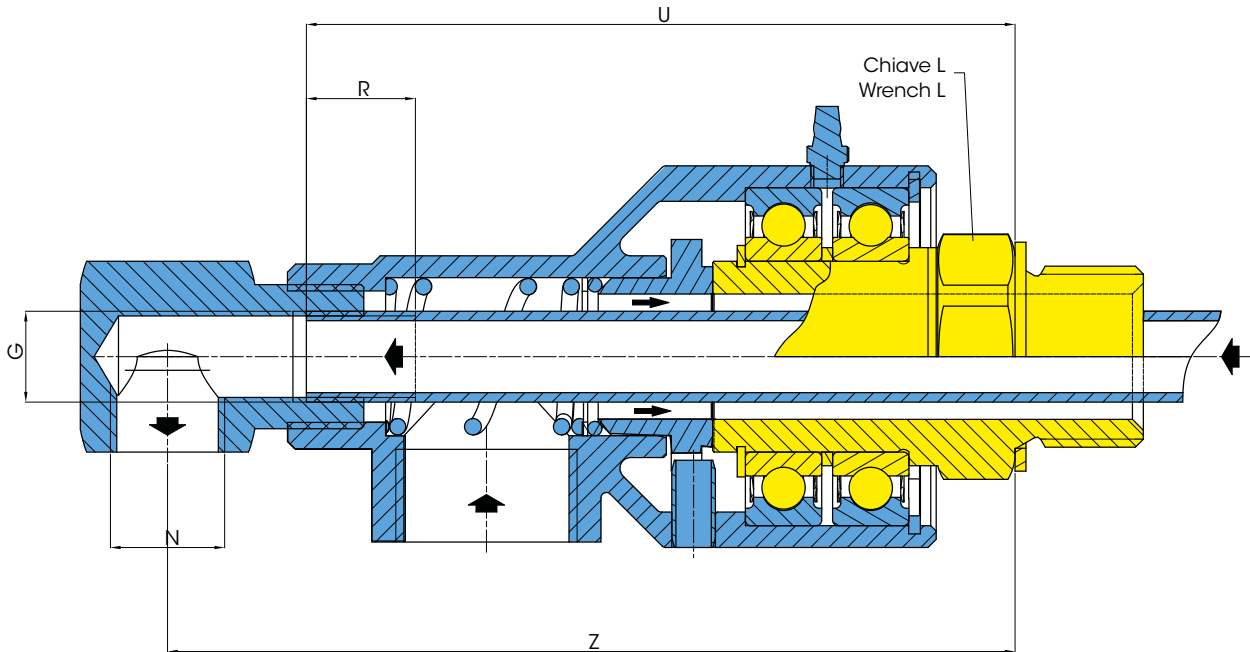
### Avvertenze generali di montaggio

- 1) I collegamenti al corpo del giunto devono essere realizzati esclusivamente con tubi flessibili.
- 2) Le tubazioni di adduzione al giunto e ai cilindri devono essere perfettamente pulite, prive di trucioli, residui di saldatura o altre impurità.
- 3) Evitare l'utilizzo del giunto con più di una condizione massima di esercizio contemporaneamente.

# UF

## DUAL FLOW - FIXED SYPHON

Due vie - Tubo sifone fisso



■ FIXED PARTS / Parti fisse    
 ■ ROTARY PARTS / Parti rotanti

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 Per filettature sinistre, la terza lettera del codice varia sostituendo "D" con "S"

GRAPHITE-INOX Grafite-Inox	SILICON-SILICON Silicio-Silicio	G1 (Optional)	G	N	R	U	Z
UFD039-GB3GS	UFD039-GB2GS	/	M6	1/8" BSP	15 0,591	105 4,133	122 4,803
UFD052-GB3GS	UFD052-GB2GS	/	1/8" BSP	1/4" BSP	15 0,591	100 3,937	134 5,276
UFD077-GB3GS	UFD077-GB2GS	1/8" BSP	1/4" BSP	3/8" BSP	15 0,591	110 4,331	147 5,787
UFD102-GB3GS	UFD102-GB2GS	1/4" BSP	3/8" BSP	1/2" BSP	15 0,591	130 5,118	174 6,850
UFD127-GB3GS	UFD127-GB2GS	3/8" BSP	1/2" BSP	3/4" BSP	25 0,984	155 6,102	203 7,992
UFD152-GB3GS	UFD152-GB2GS	1/2" BSP	3/4" BSP	1" BSP	25 0,984	165 6,495	222 8,740
UFD202-GB3GS	UFD202-GB2GS	3/4" BSP	1" BSP	1" 1/4 BSP	25 0,984	185 7,283	248 9,764
UFD252-GC3GS	UFD252-GC2GS	1" BSP	1" 1/4 BSP	1" 1/2 BSP	30 1,181	280 11,02	348 13,70

### Threaded pipe

The elbow of the UF Series joints serves as a support for the siphon pipe, which is screwed onto it. The thread must be perfectly concentric with the joint axis to avoid misalignment with the roller axis.

### Tubo filettato

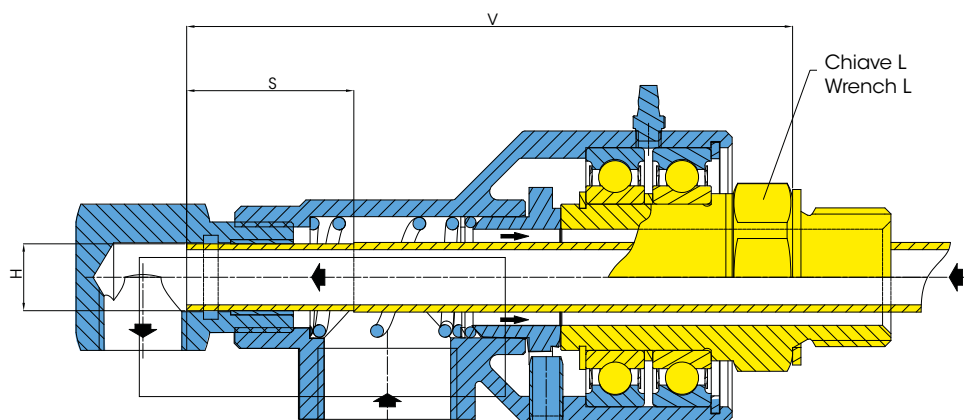
La curva dei giunti Serie UF funge da supporto per il tubo sifone, che vi viene avvitato. Il filetto deve risultare perfettamente concentrico all'asse del giunto per evitare disallineamenti rispetto all'asse del rullo.

## ROTARY SIPHON Tubo sifone rotante

# UR

### Turning pipe

Rotating siphon pipes are mounted inside the roll to rotate together with it. The UR elbow supports the pipe and helps minimize crossflow between passages. The pipe must be straight and concentric with the joint centerline to prevent excessive load on the Rotary Union. Rotational speeds above 1,000 rpm should be avoided.



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### Tubo tornito

I tubi rotanti sono fissati internamente al rullo per ruotare solidalmente con esso. La curva UR funge da supporto per il sifone e contribuisce a limitare interferenze tra i passaggi. Il tubo deve essere perfettamente dritto e concentrico rispetto all'asse del giunto per evitare carichi eccessivi sulla tenuta. È sconsigliato l'utilizzo a velocità di rotazione superiori a 1.000 giri/min.

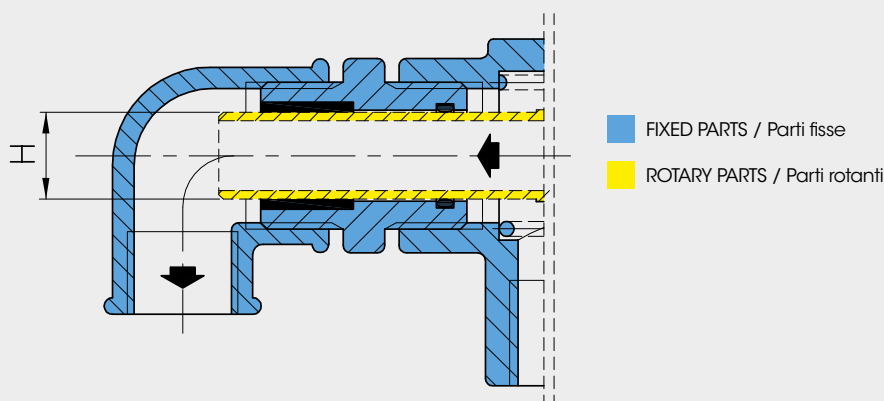
GRAPHITE-INOX Grafito-Inox	SILICON-SILICON Silicio-Silicio	H (h7)	S	V
URD039-GB3GS	URD039-GB2GS	$\frac{6}{0,263}$	$\frac{40}{1,575}$	$\frac{95}{3,740}$
URD052-GB3GS	URD052-GB2GS	$\frac{9}{0,354}$	$\frac{40}{1,575}$	$\frac{105}{4,133}$
URD077-GB3GS	URD077-GB2GS	$\frac{12}{0,472}$	$\frac{50}{1,969}$	$\frac{115}{4,527}$
URD102-GB3GS	URD102-GB2GS	$\frac{16}{0,630}$	$\frac{40}{1,969}$	$\frac{145}{5,496}$
URD127-GB3GS	URD127-GB2GS	$\frac{20}{0,787}$	$\frac{60}{2,362}$	$\frac{190}{7,480}$
URD152-GB3GS	URD152-GB2GS	$\frac{25}{0,984}$	$\frac{60}{2,362}$	$\frac{200}{7,874}$
URD202-GB3GS	URD202-GB2GS	$\frac{32}{1,260}$	$\frac{60}{2,362}$	$\frac{222}{8,898}$
URD252-GC3GS	URD252-GC2GS	$\frac{40}{1,575}$	$\frac{60}{2,362}$	$\frac{320}{12,98}$

## ROTARY SIPHON PIPE WITH SEAL Tubo sifone rotante con tenuta

# UT

For the UT series, the concept is the same as for the UR series, with the difference that the elbow includes a seal allowing two independent flow passages.

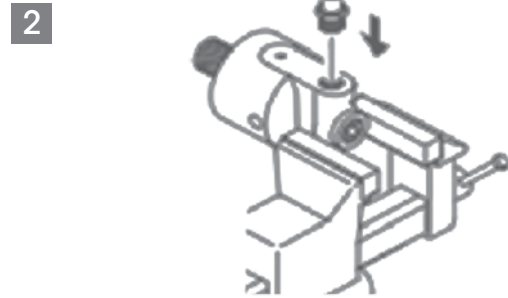
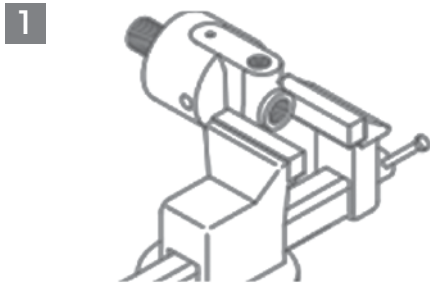
Per la serie UT vale lo stesso principio della serie UR, con la differenza che la curva è dotata di una guarnizione che consente il passaggio di due circuiti indipendenti.



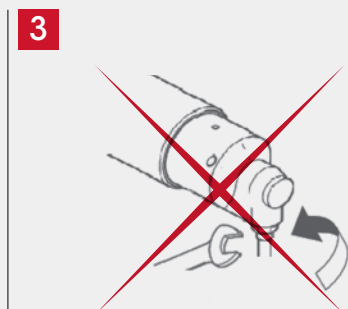
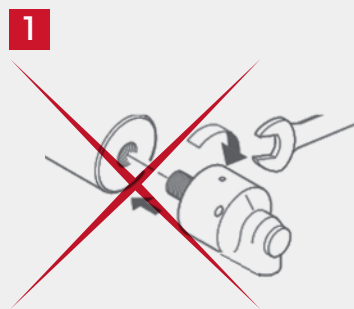


## INSTALLATION installazione

### HOW TO INSTALL // COME INSTALLARE



### HOW TO **NOT** INSTALL // COME **NON** INSTALLARE



**PIPES MUST BE FLEXIBLE!**  
**ITUBI DEVONO ESSERE FLESSIBILI**



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## RETAILERS

Open retailers  
map

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Tel: +358 040 366 0376  
info@lopital.fi

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