

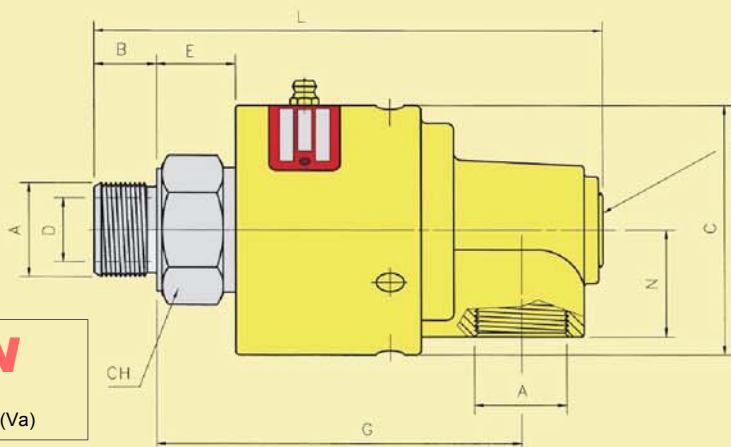
GR

GIUNTI ROTANTI PER ACQUA, ARIA, OLIO, VUOTO
 ROTATING JOINTS FOR WATER, AIR, OIL, VACUUM
 DREHDURCHFÜHRUNGEN FÜR WASSER, LUFT, ÖL, VAKUUM
 RACCORDS TOURNANTS POUR EAU, AIR, HUILE, VIDE
 JUNTAS ROTATIVAS PARA AGUA, AIRE, ACEITE, VACIO

1/4" ÷ 1"

GIUNTI ROTANTI AD UNA VIA
 ONE WAY ROTATING JOINTS
 EINWEG DREHDURCHFÜHRUNGEN

RACCORDS TOURNANTS SIMPLE PASSAGE
 JUNTA ROTATIVA SIMPLE PASO



Filettature Threads	Gewinde Filetages
Rosca	
GR 8	1/4 BSP
GR 10	1/4 BSP
GR 15	3/8 BSP
GR 20	1/2 BSP
GR 25	3/4 BSP

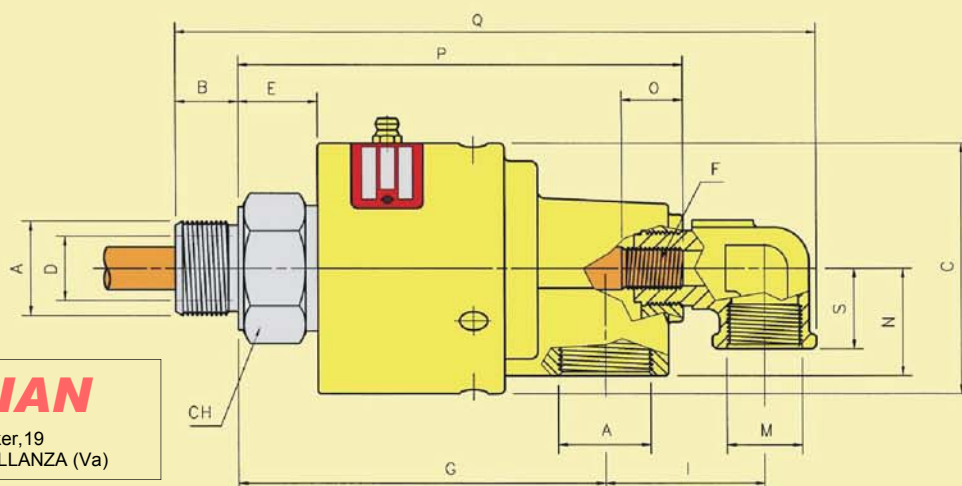
TURIAN

Via Jucker, 19
 I-21053 CASTELLANZA (Va)

GR ..

GIUNTI ROTANTI A DUE VIE - SIFONE FISSO
 TWO WAYS ROTATING JOINTS - FIXED SIPHON
 ZWEIWEG DREHDURCHFÜHRUNGEN
 FÜR STEHENDES SIPHONROHR

RACCORDS TOURNANTS DOUBLE PASSAGE
 POUR TUBE SIPHON FIXE
 JUNTA ROTATIVA DOBLE PASO
 CON SIFON ROSCADO



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GR .. F

TIPO TYPE MODELL	A BSP	B	C	D	E	F BSP	G	I ±1	L	M BSP	N	O	P	Q ±1	S	CH	PESO WEIGHT KG
GR 8	1/4	10	47	7.5	13	-	66.5	-	93	-	20	-	-	-	-	24	0.58
GR 10	3/8	12	47	9	13	-	66.5	-	96	-	20	-	-	-	-	24	0.58
GR 10 F	3/8	12	47	9	13	M6x1	66.5	33	-	1/4	20	12	84	124	20	24	0.70
GR 15	1/2	15	60	13	18	-	89	-	123	-	26	-	-	-	-	32	1.17
GR 15 F	1/2	15	60	13	18	1/8	89	35	-	3/8	26	18	108	150	20	32	1.28
GR 20	3/4	15	70	18	21	-	100	-	137	-	30	-	-	-	-	36	1.70
GR 20 F	3/4	15	70	18	21	1/4	100	39	-	3/8	30	18	124	163	20	36	1.80
GR 25	1"	20	84	24	21.5	-	109	-	161	-	36	-	-	-	-	41	2.50
GR 25 F	1"	20	84	24	21.5	3/8	109	55	-	1/2	36	20	142	198	23	41	2.60

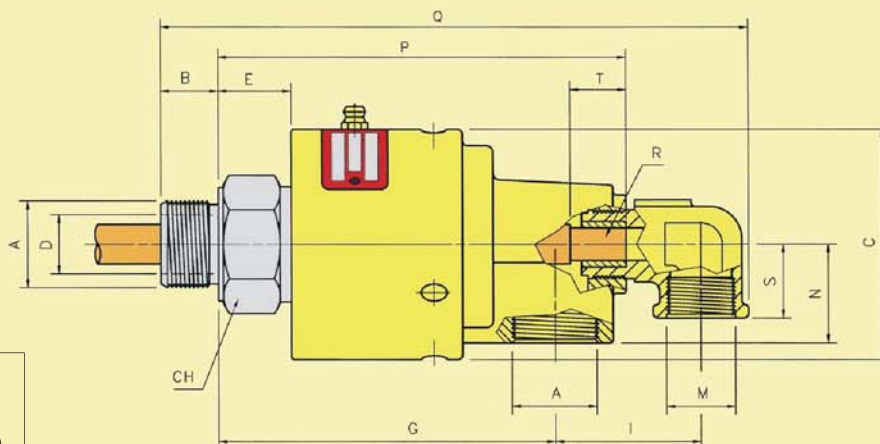
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GIUNTI ROTANTI PER ACQUA, ARIA, OLIO, VUOTO
ROTATING JOINTS FOR WATER, AIR, OIL, VACUUM
DREHDURCHFÜHRUNGEN FÜR WASSER, LUFT, ÖL, VAKUUM
RACCORDS TOURNANTS POUR EAU, AIR, HUILE, VIDE
JUNTAS ROTATIVAS PARA AGUA, AIRE, ACEITE, VACIO

3/8" - 1"

GIUNTI ROTANTI A DUE VIE - SIFONE ROTANTE
TWO WAYS ROTATING JOINTS - ROTATING SIPHON
ZWEIWEG DREHDURCHFÜHRUNGEN
FÜR ROTIERENDES SIPHONROHR

RACCORDS TOURNANTS DOUBLE PASSAGE
POUR TUBE SIPHON ROTATIF
JUNTA ROTATIVA DOBLE PASO
CON SIFON ROTATIVO



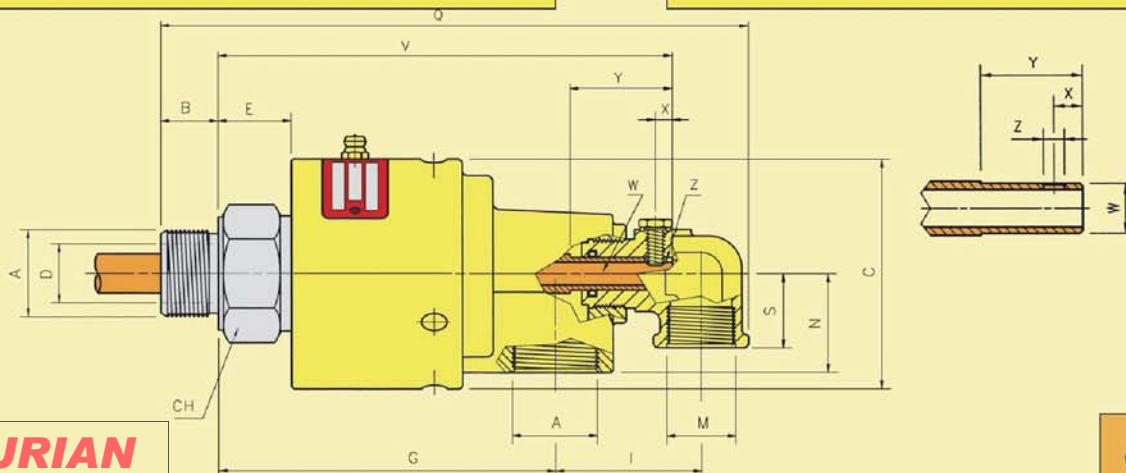
TURIAN

Via Jucker, 19
I-21053 CASTELLANZA (Va)

GR .. R

GIUNTI ROTANTI A DUE VIE - SIFONE FISSO
TWO WAYS ROTATING JOINTS - FIXED SIPHON
ZWEIWEG DREHDURCHFÜHRUNGEN
FÜR LOSE FIXIERTES SIPHONROHR

RACCORDS TOURNANTS DOUBLE PASSAGE
POUR TUBE SIPHON FIXE
JUNTA ROTATIVA DOBLE PASO
CON SIFON FIJO



TURIAN

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I-21053 CASTELLANZA (Va)

GR .. LF

TIPO TYPE MODELL	A BSP	B	C	D	E	G	I ±1	M BSP	N	P	Q ±1	R h13	S	T	V	X	Y	W f7	Z Ø	CH	PESO WEIGHT KG
GR 10 R	3/8	12	47	9	13	66,5	33	1/4	20	84	124	6	20	15	-	-	-	-	-	24	0,7
GR 10 LF	3/8	12	47	9	13	66,5	33	1/4	20	-	124	-	20	-	98	5	26	6	5	24	0,70
GR 15 R	1/2	15	60	13	18	89	35	3/8	26	108	148	9	20	20	-	-	-	-	-	32	1,28
GR 15 LF	1/2	15	60	13	18	89	35	3/8	26	-	148	-	20	-	121	5	30	9	5	32	1,28
GR 20 R	3/4	15	70	18	21	100	39	3/8	30	122	163	12	20	20	-	-	-	-	-	36	1,80
GR 20 LF	3/4	15	70	18	21	100	43	1/2	30	-	171	-	23	-	138	6	35	12	5	36	1,80
GR 25 R	1"	20	82	24	21.5	109	55	1/2	36	145	198	16	23	30	-	-	-	-	-	41	2,60
GR 25 LF	1"	20	82	24	21.5	109	55	1/2	36	-	198	-	23	-	160	6	35	16	5	41	2,60

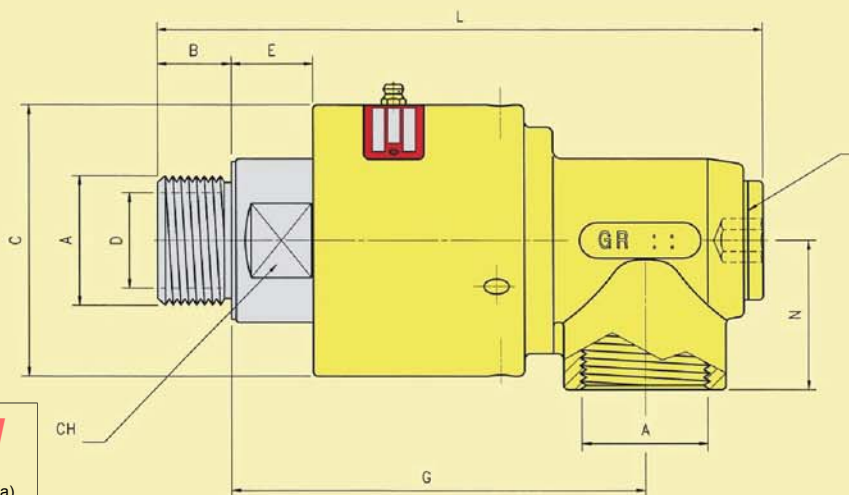
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GIUNTI ROTANTI PER ACQUA, ARIA, OLIO, VUOTO
ROTATING JOINTS FOR WATER, AIR, OIL, VACUUM
DREHDURCHFÜHRUNGEN FÜR WASSER, LUFT, ÖL, VAKUUM
RACCORDS TOURNANTS POUR EAU, AIR, HUILE, VIDE
JUNTAS ROTATIVAS PARA AGUA, AIRE, ACEITE, VACIO

1"1/4 - 2"

GIUNTI ROTANTI AD UNA VIA
 ONE WAY ROTATING JOINTS
 EINWEG DREHDURCHFÜHRUNGEN

RACCORDS TOURNANTS SIMPLE PASSAGE
 JUNTA ROTATIVA SIMPLE PASO



Filettature Threads Rosca	Gewinde Filetages
GR 32	1" BSP
GR 40	1"1/4 BSP
GR 50	1"1/2 BSP

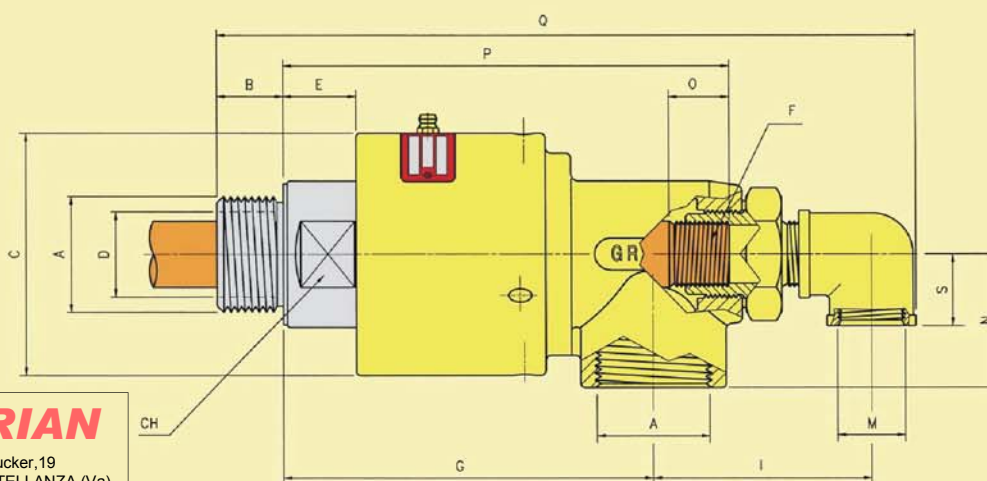
GR ..

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 I-21053 CASTELLANZA (Va)

GIUNTI ROTANTI A DUE VIE - SIFONE FISSO
 TWO WAYS ROTATING JOINTS - FIXED SIPHON
 ZWEIWEG DREHDURCHFÜHRUNGEN
 FÜR STEHENDES SIPHONROHR

RACCORDS TOURNANTS DOUBLE PASSAGE
 POUR TUBE SIPHON FIXE
 JUNTA ROTATIVA DOBLE PASO
 CON SIFON ROSCADO



GR .. F

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TIPO TYPE MODELL	A BSP	B	C	D	E	F BSP	G	I ±1	L	M BSP	N	O	P	Q ±1	S	CH	PESO WEIGHT KG
GR 32	1"1/4	25	91	32	26	-	129	-	193	-	50	-	-	-	-	50	3.5
GR 32 F	1"1/4	25	91	32	26	1/2	129	71	-	1/2	50	25	160	240	27	50	3.70
GR 40	1"1/2	30	108	38	26	-	143	-	216	-	60	-	-	-	-	55	5.00
GR 40 F	1"1/2	30	108	38	26	3/4	143	78	-	3/4	60	28	176	268	31	55	5.30
GR 50	2"	35	127	48	32	-	171	-	256	-	76	-	-	-	-	65	8.50
GR 50 F	2"	35	127	48	32	1"	171	92	-	1"	76	30	211	319	40	65	8.90

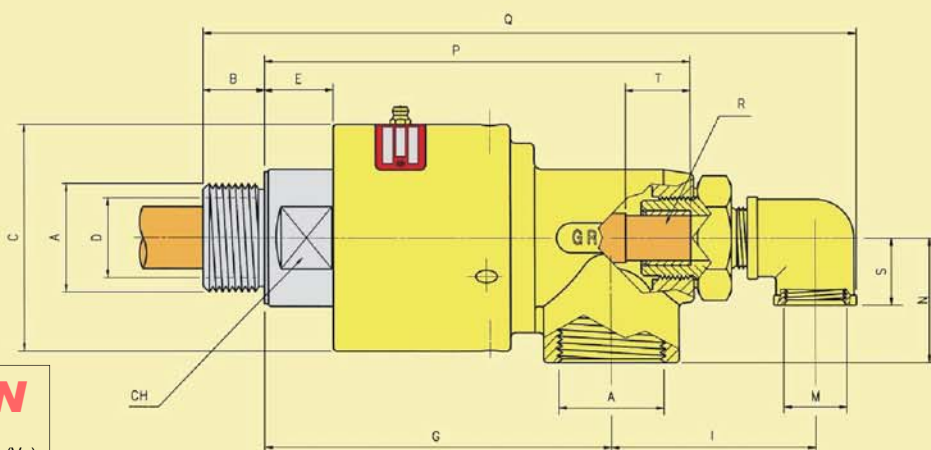
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GIUNTI ROTANTI PER ACQUA, ARIA, OLIO, VUOTO
ROTATING JOINTS FOR WATER, AIR, OIL, VACUUM
DREHDURCHFÜHRUNGEN FÜR WASSER, LUFT, ÖL, VAKUUM
RACCORDS TOURNANTS POUR EAU, AIR, HUILE, VIDE
JUNTAS ROTATIVAS PARA AGUA, AIRE, ACEITE, VACIO

1"1/4 - 2"

GIUNTI ROTANTI A DUE VIE - SIFONE ROTANTE
TWO WAYS ROTATING JOINTS - ROTATING SIPHON
ZWEIWEG DREHDURCHFÜHRUNGEN
FÜR ROTIERENDES SIPHONROHR

RACCORDS TOURNANTS DOUBLE PASSAGE
POUR TUBE SIPHON ROTATIF
JUNTA ROTATIVA DOBLE PASO
CON SIFON ROTATIVO



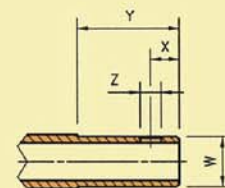
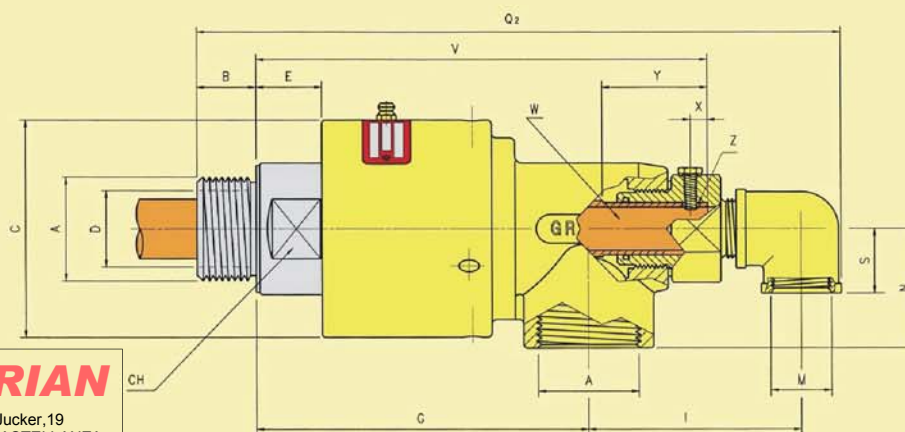
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I-21053 CASTELLANZA (Va)

GR .. R

GIUNTI ROTANTI A DUE VIE - SIFONE FISSO
TWO WAYS ROTATING JOINTS - FIXED SIPHON
ZWEIWEG DREHDURCHFÜHRUNGEN
FÜR LOSE FIXIERTES SIPHONROHR

RACCORDS TOURNANTS DOUBLE PASSAGE
POUR TUBE SIPHON FIXE
JUNTA ROTATIVA DOBLE PASO
CON SIFON FIJO



TURIAN

Via Jucker, 19
I-21053 CASTELLANZA

GR .. LF

TIPO TYPE MODELL	A BSP	B	C	D	E	G	I ±1	M BSP	N	P	Q ±1	Q2 ±1	R h13	S	T	V	X	Y	W f7	Z Ø	CH	PESO WEIGHT KG
GR 32 R	1"1/4	25	91	32	26	129	71	1/2	50	160	240	-	20	27	30	-	-	-	-	-	50	3.70
GR 32 LF	1"1/4	25	91	32	26	129	77	1/2	50	-	-	246	-	27	-	172	6	33	22	6	50	3.70
GR 40 R	1"1/2	30	108	38	26	143	78	3/4	60	176	268	-	25	31	30	-	-	-	-	-	55	5.30
GR 40 LF	1"1/2	30	108	38	26	143	84	3/4	60	-	-	274	-	31	-	187	6	35	26	6	55	5.30
GR 50 R	2"	35	127	48	32	171	92	1"	76	211	319	-	32	40	40	-	-	-	-	-	65	8.90
GR 50 LF	2"	35	127	48	32	171	97	1"	76	-	-	325	-	40	-	222	6	40	32	6	65	8.90

GR

GIUNTI ROTANTI PER ACQUA, ARIA, OLIO, VUOTO
ROTATING JOINTS FOR WATER, AIR, OIL, VACUUM
DREHDURCHFÜHRUNGEN FÜR WASSER, LUFT, ÖL, VAKUUM
RACCORDS TOURNANTS POUR EAU, AIR, HUILE, VIDE
JUNTAS ROTATIVAS PARA AGUA, AIRE, ACEITE, VACIO

2" 1/2 ÷ 4"



Kennzeichnend für diese Modelle sind stabile Rotorführung, Wartungsfreundlichkeit, sowie große Lichtweite. Robuste und auf Abstand gesetzte Wälzlager führen den Rotor sehr präzise. Das geteilte Gehäuse ermöglicht vorort den Dichtungs austausch ohne daß Rotor- und Schlauchanschlüsse zu lösen sind. Das Medium hat druckverlustfreien Durchfluß, da die Gleitringfedern außerhalb liegen. Standardmodelle haben SiC/Kohlegraphit-Dichtungen, Edelstahlrotor und Gehäuse aus Bronze oder Grauguß, SiC/SiC-Dichtungssparung lieferbar auf Anfrage.

Questi giunti rotanti montano una coppia di cuscinetti ampiamente distanziati; permettono la sostituzione delle tenute senza smontare il rotore dalla macchina. La sezione di passaggio è completamente libera. La tenuta meccanica è bilanciata e l'esecuzione standard è carburo di Silicio (SiC)-Grafite, a richiesta SiC-SiC. Il rotore è in acciaio inossidabile, il corpo stazionario in bronzo o ghisa.

These rotating joints use a pair of widely spaced ball bearings. The split-body allows to perform maintenance, for example exchange of seals, without disconnecting the rotor from the machine. The passage is completely free. The standard balanced mechanical seal is Silicon carbide (SiC)-graphite, on request SiC-SiC. The rotor is made in stainless steel, the body in brass or cast iron.

Ces raccords tournants, équipés de deux roulements à billes très largement espacés, peuvent être réparés sur place sans démontage du rotor de la machine.

Des ressorts hélicoïdaux situés en dehors du passage du fluide permettent un débit sans pertes de charges. Les faces de frottement sont en carbure de silicium (SiC) sur graphite, ou sur demande en SiC sur SiC. Le rotor est en acier inox et le boîtier en bronze ou fonte.

Estas juntas rotativas van provistas de dos rodamientos de bolas ampliamente espaciados. Su diseño permite la sustitución de los sellos sin tener que desmontar el rotor de la máquina. El área de paso es completamente libre. El cierre mecánico compensado standard es en Carburo de silicio (SiC)-grafito, y opcionalmente SiC-SiC. El rotor está fabricado en acero inox., el cuerpo en latón o fundición.

Evitare l'impiego alla massima velocità con la massima pressione.

Avoid working at maximum speed with maximum pressure.

Max. Drehzahl gleichzeitig mit max. Druck ist zu vermeiden.

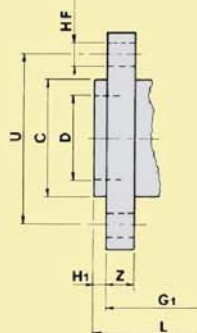
Évitez l'emploi de la pression maximum à la vitesse maximum.

Evitar el trabajo a máxima velocidad combinada con máxima presión.

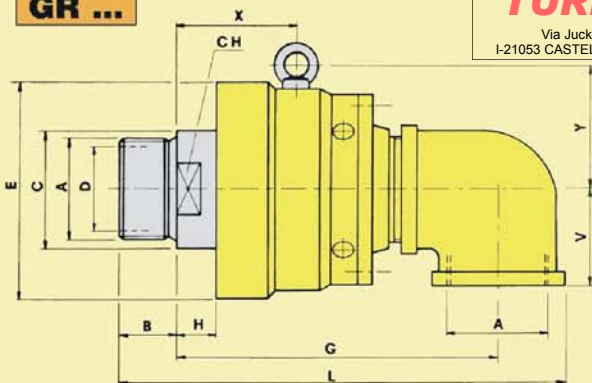
t max 170°C
p max 16 bar
n max 1000 RPM

GRF ... Flangia montata con anello conico
 Flange mounted with conic ring.
 Flansch mit geteiltem Keilring.
 Bride avec bague conique fendue.
 Brida con anillo conico de fijación

GRF ...



GR ...

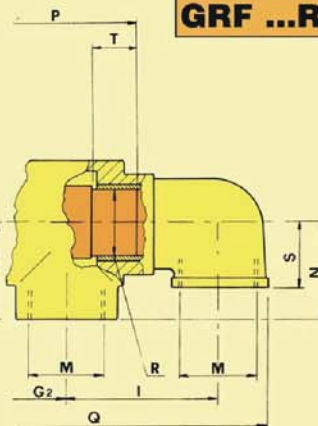
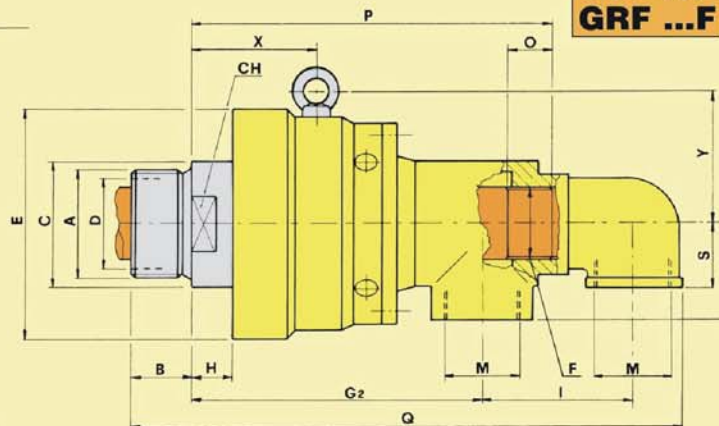
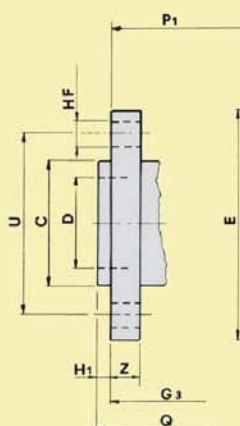


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 I-21053 CASTELLANZA (Va)

GR ...F
GRF ...F

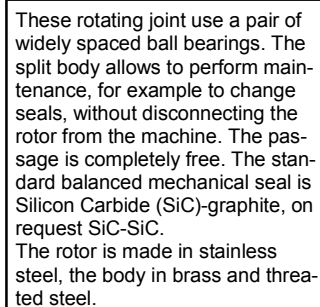
GR ...R
GRF ...R



TIPO TYPE MODELL	A G*	B	C 17	D	E	F G*	G	G ₁	G ₂	G ₃	H	H ₁	HF	I	L	M G*	N	O	P	P ₁	Q	R ROHR TUBE h 13	S	T	U	V	X	Y	Z	CH
GR 65	2" 1/2	35	85	61	160	1" 1/2	230	-	217	-	30	-	-	130	310	1" 1/2	70	30	275	-	412	46	45	60	-	75	80	100	-	80
GRF 65	-	-	85	61	160	1" 1/2	-	255	-	242	-	10	13	130	310	1" 1/2	70	30	-	300	412	46	45	60	120	75	80	100	15	-
GR 80	3"	40	100	72	180	2"	280	-	238	-	30	-	-	140	375	2"	75	30	302	-	468	58,7	50	80	-	80	100	110	-	90
GRF 80	-	-	100	72	180	2"	-	308	-	266	-	12	18	140	375	2"	75	30	-	330	468	58,7	50	80	145	80	128	110	20	-
GRF 100	DN100 PN 10	-	120	95	208	2" 1/2	-	324	-	316	-	12	18	170	446	2" 1/2	95	40	-	389	545	74,8	60	80	180	135	160	130	22	-

* Filettature - Threads - Gewinde - Filetages - Rosca **BSP**

1/2" - 1"



Ces raccords tournants, équipés de deux roulements à billes très largement espacés, peuvent être réparés sur place sans démontage du rotor de la machine. Des ressorts hélicoïdaux situés en dehors du passage du fluide permettent un débit sans pertes de charges. Les faces de frottement sont en Carbone de Silicium (SiC) sur Graphite, ou sur demande en SiC sur SiC. Le rotor est en acier inox et le boîtier en laiton et acier traité.

Estas juntas rotativas van provistas de dos rodamientos a bolas ampliamente espaciados. Su diseño permite la sustitución de los sellos sin tener que desmontar el rotor de la máquina. El área de paso es copletamente libre. El cierre mecánico compensado standard es en Carburo de silicio (SiC)-grafito, y opcionalmente SiC-SiC.

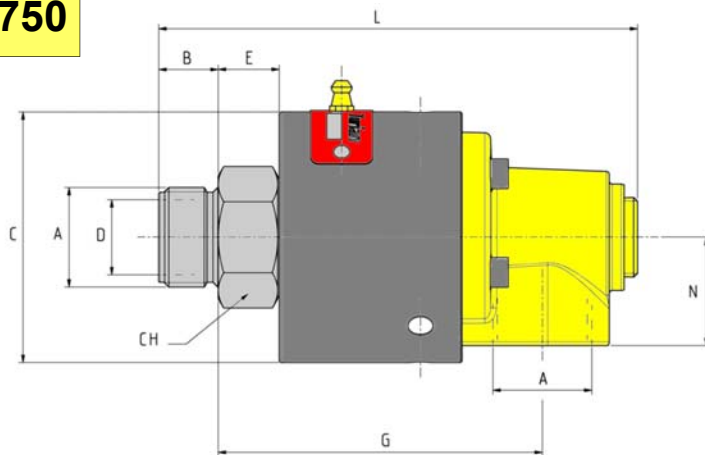
El rotor está fabricado en acero inox, el cuerpo en latón y acero.

Evitare l'impiego alla massima velocità con la massima pressione.
Avoid working at maximum speed with maximum pressure.
 Max.Drehzahl gleichzeitig mit max. Druck ist zu vermeiden.
Évitez l'emploi de la pression maximum à la vitesse maximum.
 Evitar el trabajo a máxima velocidad combinada con máxima presión.

Diese Mehrzweck-Baureihe besitzt sehr stabile und langlebige Wälzlagerung. Das geteilte Gehäuse ermöglicht es die Dichtungen auszuwechseln, ohne den Rotor von der Maschine zu trennen. Der Durchgang des Mediums ist komplett frei. Die Standard-Modelle sind mit entlasteten Hartkohle/Siliziumcarbid (SiC) Dichtungen ausgerüstet. Für extreme Einsatzbedingungen sind SiC/SiC Dichtungen lieferbar. Der Rotor besteht aus Edelstahl, das Gehäuse aus Messing und brüniertem Stahl.

RACCORDS TOURNANTS SIMPLE PASSAGE
JUNTA ROTATIVA SIMPLE PASO

GR ...9750

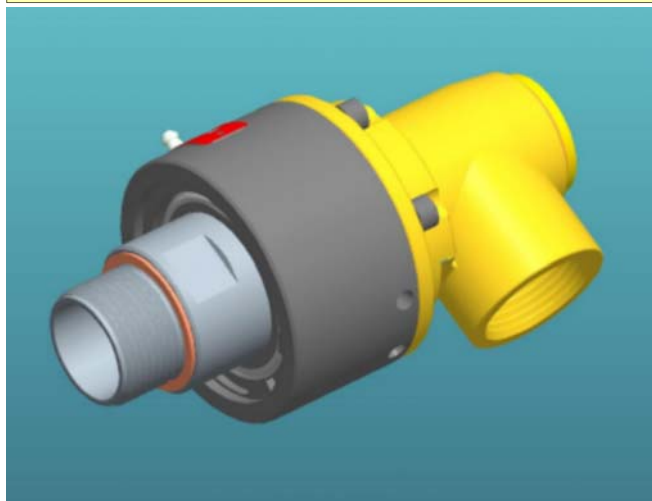


Flangia montata con anello conico.
Flange mounted with conic ring.
 Flansch mit geteiltem Keilring.
Bride avec bague conique fendue.
 Brida con anillo conico de fijación.

[illegible]

GR...-9750

GIUNTI ROTANTI PER ACQUA, ARIA, OLIO, VUOTO
 ROTATING JOINTS FOR WATER, AIR, OIL, VACUUM
 DREHDURCHFÜHRUNGEN FÜR WASSER, LUFT, ÖL, VAKUUM
 RACCORDE TOURNANTS POUR EAU, AIR, HUILE, VIDE
 JUNTAS ROTATIVAS PARA AGUA, AIRE, ACEITE, VACIO 1"¼ - 2"



T max	170 °C
p max	40 bar
N max (GR 32-GR40)	2500 RPM
N max (GR 50)	1000 RPM

Evitare l'impiego alla massima velocità con la massima pressione.
 Avoid working at maximum speed with maximum pressure.
 Max.Drehzahl gleichzeitig mit max. Druck ist zu vermeiden.
 Évitez l'emploi de la pression maximum à la vitesse maximum.
 Evitar el trabajo a máxima velocidad combinada con máxima presión.

Questi giunti rotanti montano una coppia di cuscinetti ampiamente distanziati; permettono la sostituzione delle tenute senza smontare il rotore dalla macchina. La sezione di passaggio è completamente libera. La tenuta meccanica è bilanciata e l'esecuzione standard è carburo di Silicio (SiC)-Grafite, a richiesta SiC-SiC. Il rotore è in acciaio inossidabile, il corpo stazionario in ottone ed acciaio trattato.

These rotating joint use a pair of widely spaced ball bearings. The split body allows to perform maintenance, for example to change seals, without disconnecting the rotor from the machine. The passage is completely free. The standard balanced mechanical seal is Silicon Carbide (SiC)-graphite, on request SiC-SiC. The rotor is made in stainless steel, the body in brass and threaded steel.

Ces raccords tournants, équipés de deux roulements à billes très largement espacés, peuvent être réparés sur place sans démontage du rotor de la machine. Des ressorts hélicoïdaux situés en dehors du passage du fluide permettent un débit sans pertes de charges. Les faces de frottement sont en Carbure de Silicium (SiC) sur Graphit, ou sur demande en SiC sur SiC. Le rotor est en acier inox et le boîtier en laiton et acier traité.

Estas juntas rotativas van provistas de dos rodamientos a bolas ampliamente espaciados. Su diseño permite la sustitución de los sellos sin tener que desmontar el rotor de la máquina. El área de paso es completamente libre. El cierre mecánico compensado standard es en Carburo de silicio (SiC)-grafito, y opcionalmente SiC-SiC. El rotor está fabricado en acero inox, el cuerpo en latón y acero.

Diese Mehrzweck-Baureihe besitzt sehr stabile und langlebige Wälzlagerung. Das geteilte Gehäuse ermöglicht es die Dichtungen auszuwechseln, ohne den Rotor von der Maschine zu trennen. Der Durchgang des Mediums ist komplett frei. Die Standard-Modelle sind mit entlasteten Hartkohle/Siliziumcarbid (SiC) Dichtungen ausgerüstet. Für extreme Einsatzbedingungen sind SiC/SiC Dichtungen lieferbar. Der Rotor besteht aus Edelstahl, das Gehäuse aus Messing und brüniertem Stahl.

GIUNTI ROTANTI AD UNA VIA
 ONE WAYS ROTATING JOINT
 EINWEG DREHDURCHFÜHRUNGEN

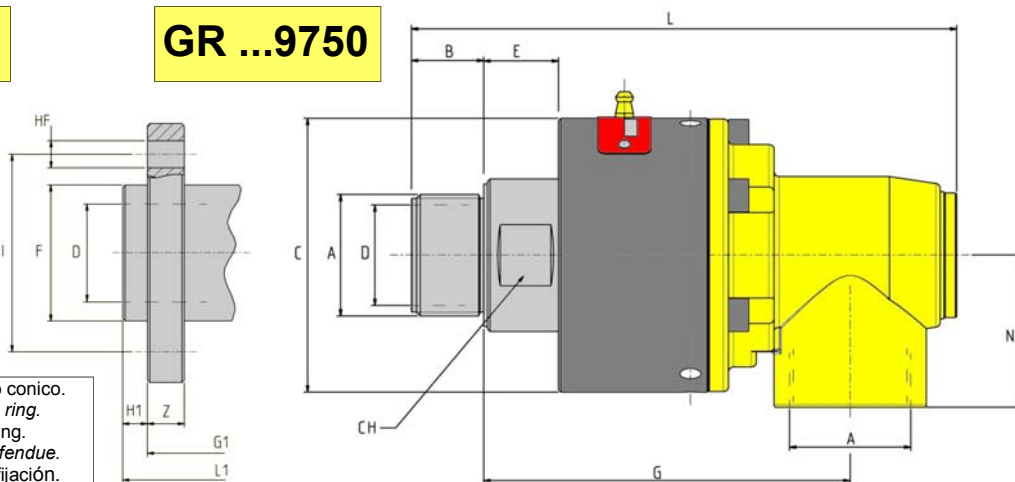
RACCORDE TOURNANTS SIMPLE PASSAGE
 JUNTA ROTATIVA SIMPLE PASO

GRF ...9750

GR ...9750

GRF ...

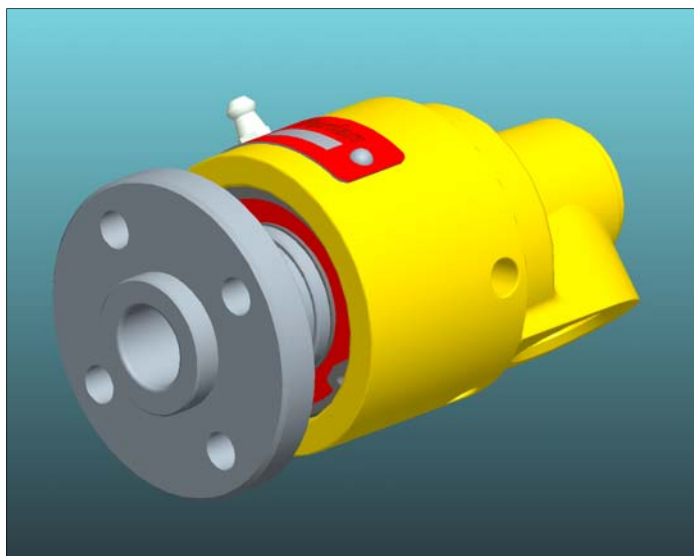
Flangia montata con anello conico.
 Flange mounted with conic ring.
 Flansch mit geteiltem Keilring.
 Bride avec bague conique fendue.
 Brida con anillo conico de fijación.



TYPE	A BSP	B	C	D	E	F f7	G	G1	H1	HF	I	L	L1	N	Z	CH
GR 32-9750	1"¼	23.5	91	32	27	-	130	-	-	-	-	193	-	50	-	50
GRF 32-9750	1"¼	-	91	32	-	48	-	146	8	11	75	-	193	50	12	-
GR 40-9750	1"½	28.5	108	39.5	29.5	-	144.5	-	-	-	-	215	-	60	-	55
GRF 40-9750	1"½	-	108	39.5	-	55	-	163	10	11	80	-	215	60	15	-
GR 50-9750	2"	33.5	128	48	33.5	-	173	-	-	-	-	256	-	76	-	65
GRF 50-9750	2"	-	128	48	-	65	-	196.5	10	13	100	-	256	76	15	-

GRF 10÷25

GIUNTI ROTANTI PER ACQUA, ARIA, OLIO, VUOTO
 ROTATING JOINTS FOR WATER, AIR, OIL, VACUUM
 DREHDURCHFÜHRUNGEN FÜR WASSER, LUFT, ÖL, VAKUUM
 RACCORDS TOURNANTS POUR EAU, AIR, HUILE, VIDE
 JUNTAS ROTATIVAS PARA AGUA, AIRE, ACEITE, VACIO



t_{max} 170 °C **p_{max}** 40 bar

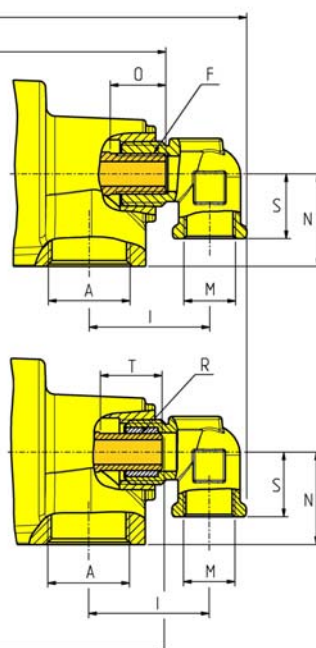
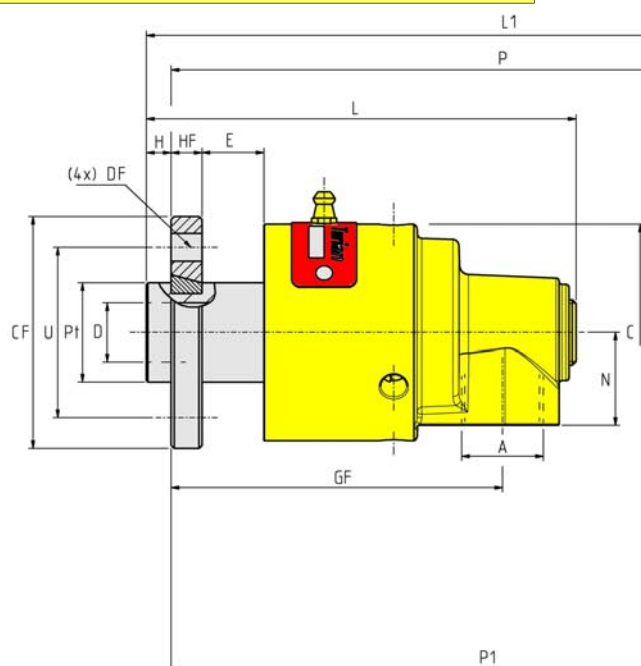
GRF 10 - GRF 15	
n_{max}	3500 RPM
GRF 20 - GRF 25	
n_{max}	3000 RPM
GRF 32 - GRF 40	
n_{max}	2500 RPM
GRF 50	
n_{max}	1000 RPM

Torque Ratings Nm Water 4.2 bar	
GRF 10	0.28
GRF 15	0.32
GRF 20	0.62
GRF 25	1.3
GRF 32	1.6
GRF 40	2.2
GRF 50	3.2

Evitare l'impiego alla massima velocità con la massima pressione.
 Avoid working at maximum speed with maximum pressure.
 Max.Drehzahl gleichzeitig mit max. Druck ist zu vermeiden.
 Evitez l'emploi de la pression maximum à la vitesse maximum.
 Evitar el trabajo a máxima velocidad combinada con máxima presión.

GIUNTI ROTANTI AD UNA VIA
 ONE WAY ROTATING JOINTS
 EINWEG DREHDURCHFÜHRUNGEN
 RACCORDS TOURNANTS SIMPLE PASSAGE
 JUNTA ROTATIVA SIMPLE PASO

GIUNTI ROTANTI A DUE VIE
 TWO WAYS ROTATING JOINTS
 ZWEIWEG DREHDURCHFÜHRUNGEN
 RACCORDS TOURNANTS DOUBLE PASSAGE
 JUNTA ROTATIVA DOBLE PASO



GRF... F

SIFONE FISSO
 FIXED SIPHON
 FÜR STEHENDES SIPHONROHR
 SIPHON FIXE
 SIFON ROSCADO

GRF... R

SIFONE ROTANTE
 ROTATING SIPHON
 FÜR ROTIERENDES SIPHONROHR
 SIPHON ROTATIF
 SIFON ROTATIVO

TYPE	A BSP	C	CF	D	DF	E	F BSP	GF	H	HF	I	L	L1	M BSP	N	O	P	P1	Pt f7	R h13	S	T	U
GRF 10	3/8	47	55	9	7	17	M6x1	80	6	10	33	96	124	1/4	20	12	97	99	20	6	20	15	40
GRF 15	1/2	60	70	13	9	20	1/8	101	6	10	35	123	150	3/8	26	18	119	118	25	9	20	20	50
GRF 20	3/4	70	75	18	9	20	1/4	109	8	10	39	137	163	3/8	30	18	132	131	32	12	20	20	55
GRF 25	1"	84	80	24	9	21	3/8	121	8	12	53	156	198	1/2	36	20	154	157	38	16	23	30	60

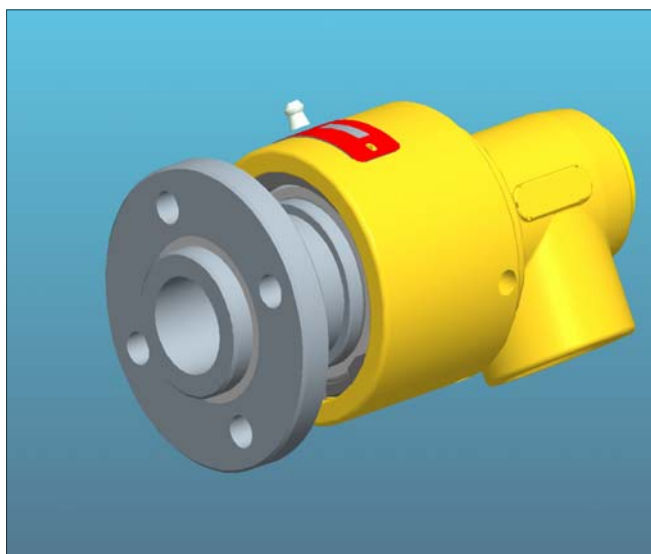
TURIAN

Via Jucker, 19
 I-21053 CASTELLANZA (Va)

tel. +39 0331 501101
 fax +39 0331 505189

GRF 32÷50

GIUNTI ROTANTI PER ACQUA, ARIA, OLIO, VUOTO
 ROTATING JOINTS FOR WATER, AIR, OIL, VACUUM
 DREHDURCHFÜHRUNGEN FÜR WASSER, LUFT, ÖL, VAKUUM
 RACCORDS TOURNANTS POUR EAU, AIR, HUILE, VIDE
 JUNTAS ROTATIVAS PARA AGUA, AIRE, ACEITE, VACIO



t max 170 °C **p max** 40 bar

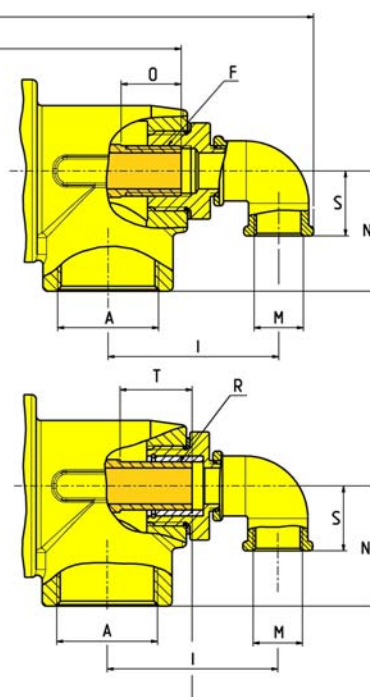
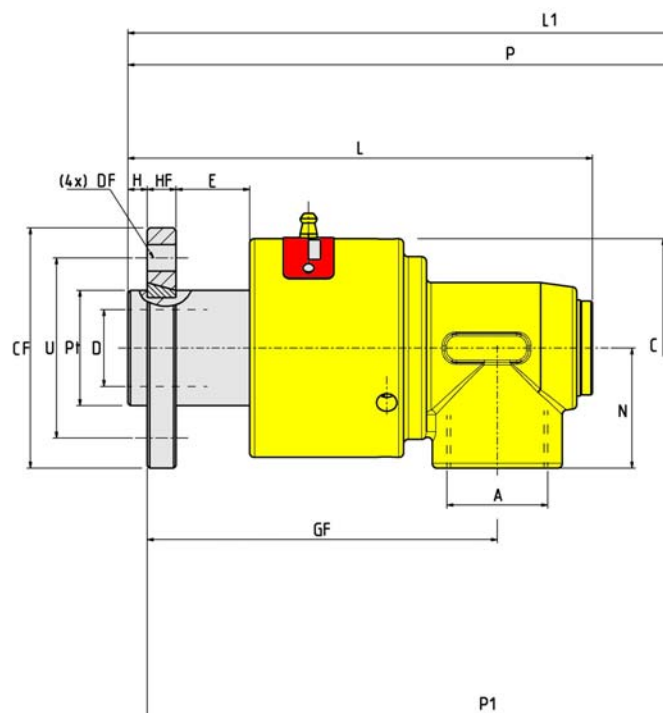
GRF 10 - GRF 15	
n max	3500 RPM
GRF 20 - GRF 25	
n max	3000 RPM
GRF 32 - GRF 40	
n max	2500 RPM
GRF 50	
n max	1000 RPM

Torque Ratings Nm Water 4.2 bar	
GRF 10	0.28
GRF 15	0.32
GRF 20	0.62
GRF 25	1.3
GRF 32	1.6
GRF 40	2.2
GRF 50	3.2

Evitare l'impiego alla massima velocità con la massima pressione.
 Avoid working at maximum speed with maximum pressure.
 Max.Drehzahl gleichzeitig mit max. Druck ist zu vermeiden.
 Evitez l'emploi de la pression maximum à la vitesse maximum.
 Evitar el trabajo a máxima velocidad combinada con máxima presión.

GIUNTI ROTANTI AD UNA VIA
 ONE WAY ROTATING JOINTS
 EINWEG DREHDURCHFÜHRUNGEN
 RACCORDS TOURNANTS SIMPLE PASSAGE
 JUNTA ROTATIVA SIMPLE PASO

GIUNTI ROTANTI A DUE VIE
 TWO WAYS ROTATING JOINTS
 ZWEIWEG DREHDURCHFÜHRUNGEN
 RACCORDS TOURNANTS DOUBLE PASSAGE
 JUNTA ROTATIVA DOBLE PASO



GRF... F

SIFONE FISSO
 FIXED SIPHON
 FÜR STEHENDES SIPHONROHR
 SIPHON FIXE
 SIFON ROSCADO

GRF... R

SIFONE ROTANTE
 ROTATING SIPHON
 FÜR ROTIERENDES SIPHONROHR
 SIPHON ROTATIF
 SIFON ROTATIVO

TYPE	A BSP	C	CF	D	DF	E	F BSP	GF	H	HF	I	L	L1	M BSP	N	O	P	P1	Pt f7	R h13	S	T	U
GRF 32	1"1/4	91	100	32	11	31	1/2	146	8	12	71	193	240	1/2	50	25	176	181	48	20	27	30	75
GRF 40	1"1/2	108	105	38	11	31	3/4	163	10	15	78	216	270	3/4	60	28	200	201	55	25	31	30	80
GRF 50	2"	127	130	48	13	42	1"	196	10	15	92	256	319	1"	76	30	239	239	65	32	40	40	100

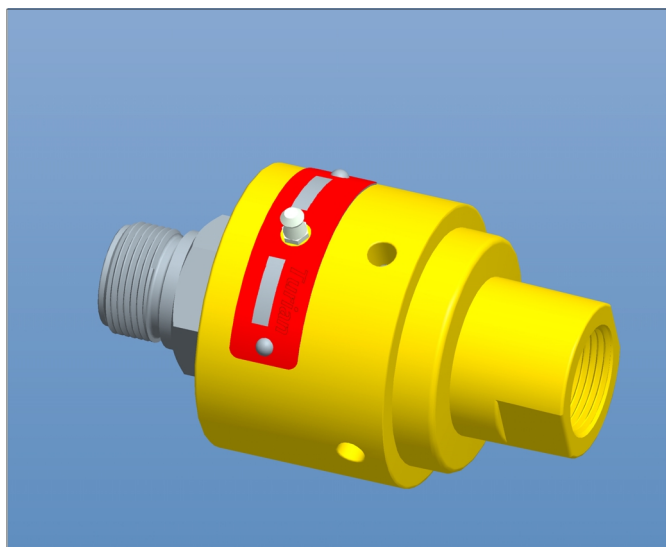
TURIAN

Via Jucker, 19
 I-21053 CASTELLANZA (Va)

tel. +39 0331 501101
 fax +39 0331 505189

GR...B

GIUNTI ROTANTI PER ACQUA, ARIA, OLIO, VUOTO
 ROTATING JOINTS FOR WATER, AIR, OIL, VACUUM
 DREHDURCHFÜHRUNGEN FÜR WASSER, LUFT, ÖL, VAKUUM
 RACCORDE TOURNANTS POUR EAU, AIR, HUILE, VIDE
 JUNTAS ROTATIVAS PARA AGUA, AIRE, ACEITE, VACIO



t_{max}	170 °C	p_{max}	40 bar
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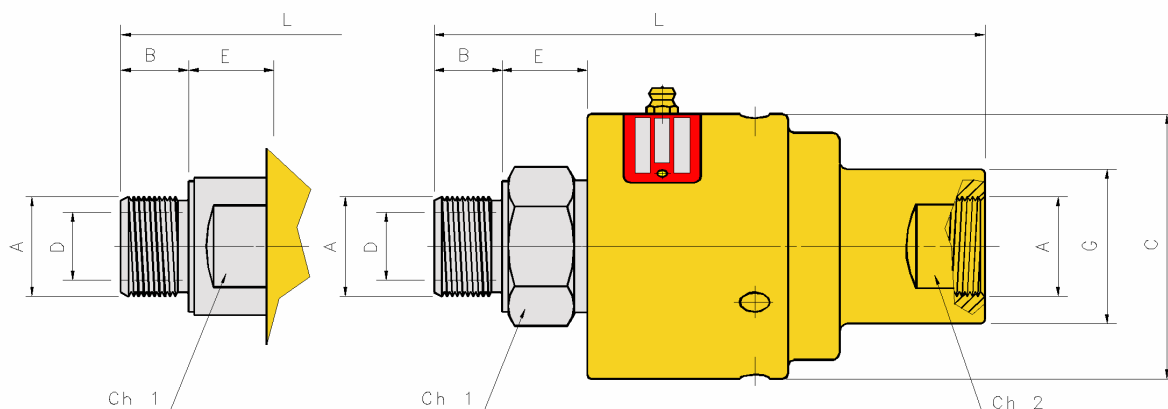
GR 10 B - GR 15 B	
n_{max}	3500 RPM
GR 20 B - GR 25 B	
n_{max}	3000 RPM
GR 32 B - GR 40 B	
n_{max}	2500 RPM
GR 50 B	
n_{max}	1000 RPM

Torque Ratings Nm Water 4.2 bar	
GR 10 B	0.28
GR 15 B	0.32
GR 20 B	0.62
GR 25 B	1.3
GR 32 B	1.6
GR 40 B	2.2
GR 50 B	3.2

Evitare l'impiego alla massima velocità con la massima pressione.
 Avoid working at maximum speed with maximum pressure.
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 Evitez l'emploi de la pression maximum à la vitesse maximum.
 Evitar el trabajo a máxima velocidad combinada con máxima presión.

GIUNTI ROTANTI AD UNA VIA
 ONE WAY ROTATING JOINTS

EINWEG DREHDURCHFÜHRUNGEN
 RACCORDE TOURNANTS SIMPLE PASSAGE
 JUNTA ROTATIVA SIMPLE PASO



GR 32÷50

GR 10÷25

Corpo Gehäuse Housing Boîtier Cuerpo	Ottone Messing Brass Laiton Latón	Corpo Gehäuse Housing Boîtier Cuerpo	Alluminio Aluminium	A BSP	B	C	D	E	G	L	Ch 1	Ch 2	PESO- WEIGHT Kg
GR 10 B		GR 10 B-A		3/8	12	47	9	13	30	90	24	24	0.58
GR 15 B		GR 15 B-A		1/2	15	60	13	18	35	120	32	32	1.3
GR 20 B		GR 20 B-A		3/4	15	70	18	21	42	138	36	36	1.7
GR 25 B		GR 25 B-A		1"	20	84	24	21.5	47	148	41	41	2.3
GR 32 B		GR 32 B-A		1"1/4	25	90	32	26	60	165	50	55	3.4
GR 40 B		GR 40 B-A		1"1/2	30	108	38	26	75	181	55	70	4.8
GR 50 B		GR 50 B-A		2"	35	127	48	32	80	207	65	75	8.0

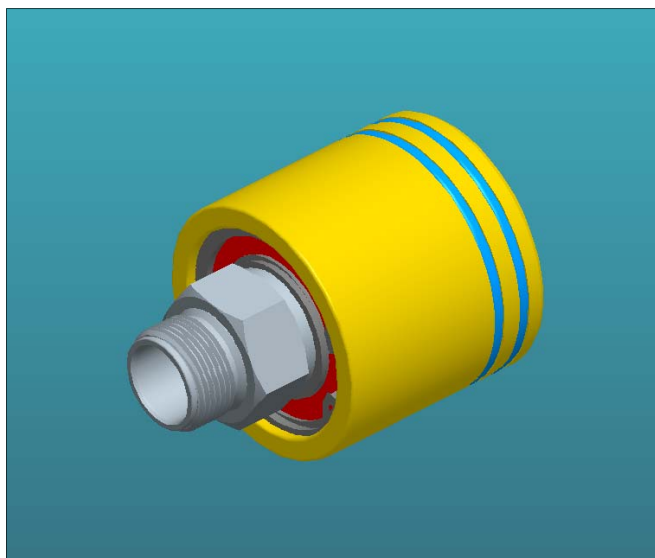
TURIAN

Via Jucker,19
 I-21053 CASTELLANZA (Va)

tel. ++39 0331 501101
 fax ++39 0331 505189

GRI ...

GIUNTI ROTANTI PER ACQUA, ARIA, OLIO, VUOTO
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 DREHDURCHFÜHRUNGEN FÜR WASSER, LUFT, ÖL, VAKUUM
 RACCORDE TOURNANTS POUR EAU, AIR, HUILE, VIDE
 JUNTAS ROTATIVAS PARA AGUA, AIRE, ACEITE, VACIO



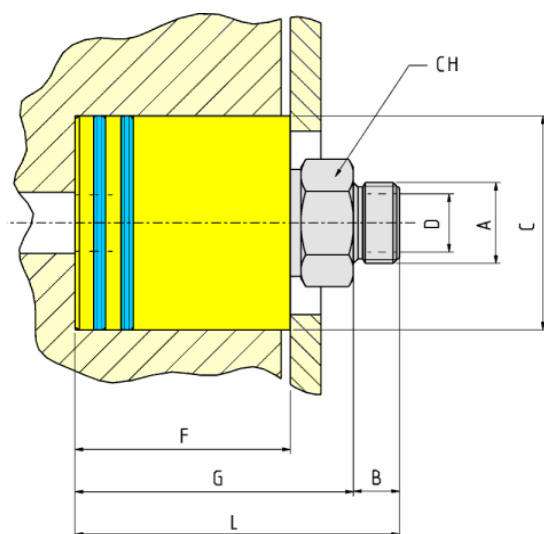
t_{max}	170 °C	p_{max}	40 bar
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GRI 08 - GRI 15	
n_{max}	3500 RPM
GRI 20 - GRI 25	
n_{max}	3000 RPM
GRI32 - GRI 40	
n_{max}	2500 RPM
GRI 50	
n_{max}	1000 RPM

Torque Ratings Nm Water 4.2 bar	
GRI 10	0.28
GRI 15	0.32
GRI 20	0.62
GRI 25	1.3
GRI32	1.6
GRI 40	2.2
GRI 50	3.2

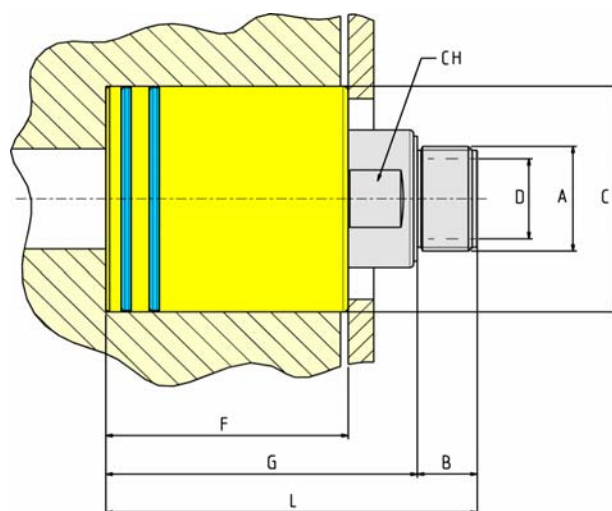
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GIUNTI ROTANTI AD UNA VIA
 ONE WAY ROTATING JOINTS



GR 08÷25

EINWEG DREHDURCHFÜHRUNGEN
 RACCORDE TOURNANTS SIMPLE PASSAGE
 JUNTA ROTATIVA SIMPLE PASO



GR 32÷50

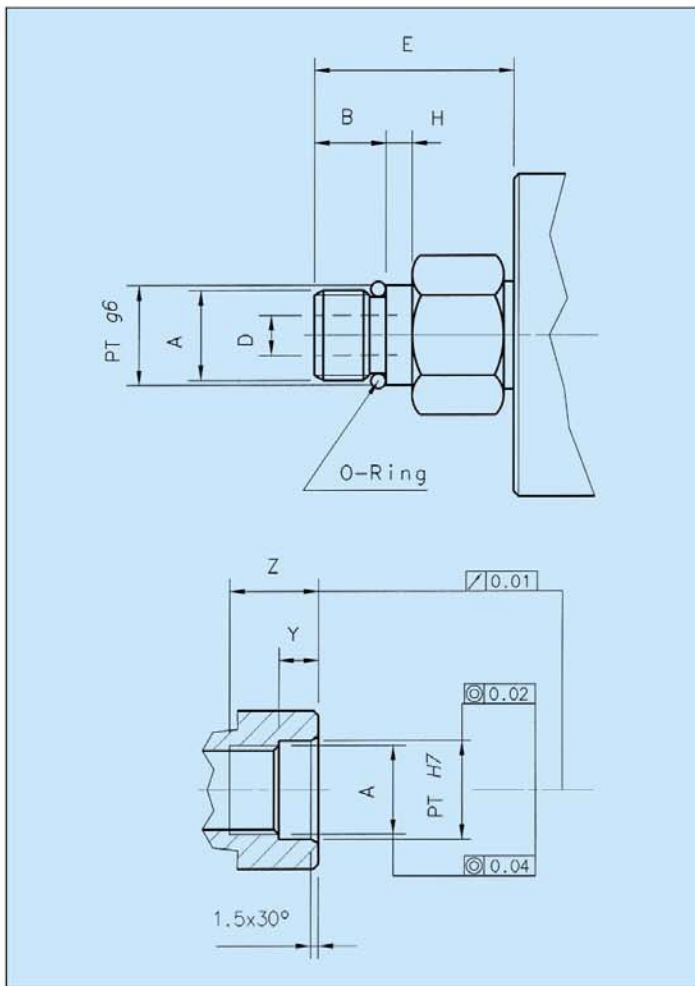
TIPO TYPE MODELL	A BSP	B	C f7-H8	D	F	G	L	Ch
GRI 08	1/4	11	48	7	52.5	65.5	76.5	24
GRI 10	3/8	12	48	9	52.5	64.5	76.5	24
GRI 15	1/2	15	60	13	67.5	83.3	98.3	32
GRI 20	3/4	15	70	19	70	90.5	105.5	36

TIPO TYPE MODELL	A BSP	B	C f7-H8	D	F	G	L	Ch
GRI 25	1"	20	80	25	76	96.5	116.5	41
GRI 32	1 1/4"	23.5	90	32	95	122.1	145.6	50
GRI 40	1 1/2"	28.5	108	38	103	132.5	161	55
GRI 50	2"	35	125	48	116	149.5	183	65

TURIAN

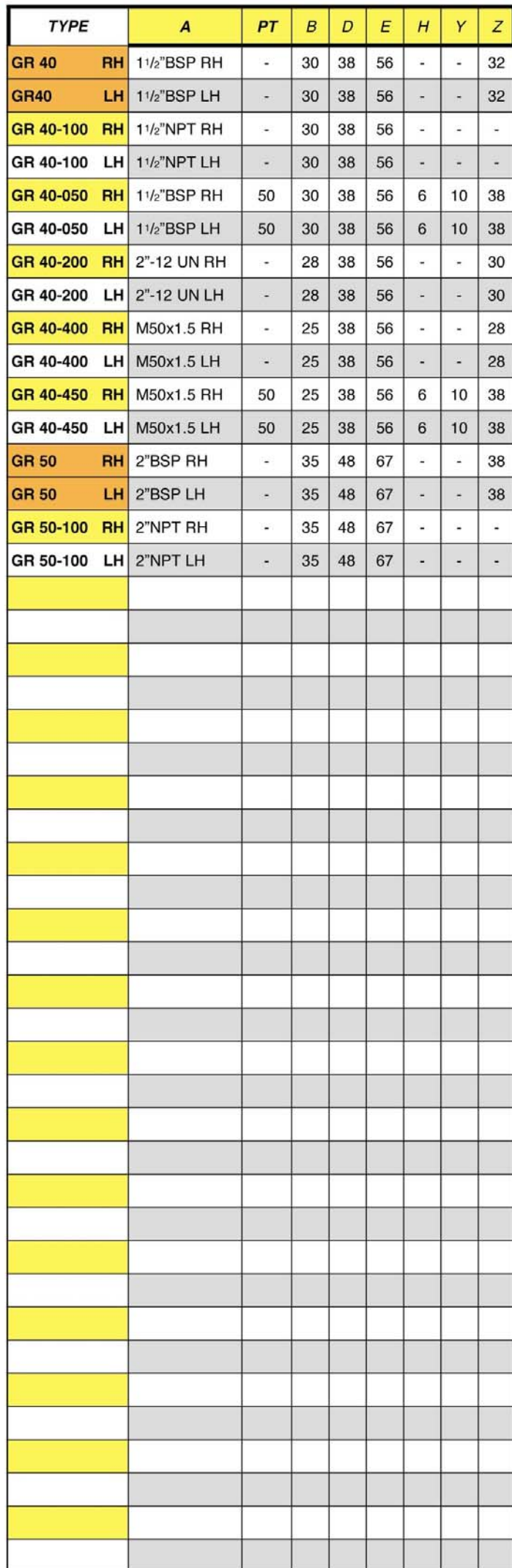
Via Jucker, 19
 I-21053 CASTELLANZA (Va)

tel. ++39 0331 501101
 fax ++39 0331 505189



TYPE		A	PT	B	D	E	H	Y	Z
GR 15	RH	1/2 BSP RH	-	15	13	33	-	-	17
GR 15	LH	1/2 BSP LH	-	15	13	33	-	-	17
GR 15-050	RH	1/2 BSP RH	22	15	13	33	3	6.5	20
GR 15-050	LH	1/2 BSP LH	22	15	13	33	3	6.5	20
GR 15-100	RH	1/2 NPT RH	-	15	13	33	-	-	-
GR 15-100	LH	1/2 NPT LH	-	15	13	33	-	-	-
GR 15-200	RH	3/4-16UNF RH	-	19	13	33	-	-	21
GR 15-200	LH	3/4-16UNF LH	-	19	13	33	-	-	21
GR 15-201	RH	1"-14UNS RH	-	19	13	33	-	-	21
GR 15-201	LH	1"-14UNS LH	-	19	13	33	-	-	21
GR 15-251	RH	1"-14UNS RH	31.7	19	13	50	12.7	16.5	33
GR 15-251	LH	1"-14UNS LH	31.7	19	13	50	12.7	16.5	33
GR 15-400	RH	M20x1.5 RH	-	14	13	33	-	-	16
GR 15-400	LH	M20x1.5 LH	-	14	13	33	-	-	16
GR 15-450	RH	M20x1.5 RH	22	14	13	33	5	8.5	20
GR 15-450	LH	M20x1.5 LH	22	14	13	33	5	8.5	20
GR 15-401	RH	M22x1.5 RH	-	14	13	33	-	-	16
GR 15-401	LH	M22x1.5 LH	-	14	13	33	-	-	16
GR 15-451	RH	M22x1.5 RH	27	14	13	33	3	7	18
GR 15-451	LH	M22x1.5 LH	27	14	13	33	3	7	18
GR 20	RH	3/4 BSP RH	-	15	18	36	-	-	17
GR 20	LH	3/4 BSP LH	-	15	18	36	-	-	17
GR 20-050	RH	3/4 BSP RH	28	15	18	36	4	7.5	21
GR 20-050	LH	3/4 BSP LH	28	15	18	36	4	7.5	21
GR 20-100	RH	3/4 NPT RH	-	15	18	36	-	-	-
GR 20-100	LH	3/4 NPT LH	-	15	18	36	-	-	-
GR 20-200	RH	1"-14UNS RH	-	19	18	36	-	-	21
GR 20-200	LH	1"-14UNS LH	-	19	18	36	-	-	21
GR 20-250	RH	1"-14UNS RH	31.7	19	18	50	12.7	16.5	33
GR 20-250	LH	1"-14UNS LH	31.7	19	18	50	12.7	16.5	33
GR 20-400	RH	M22x1.5 RH	-	14	18	36	-	-	16
GR 20-400	LH	M22x1.5 LH	-	14	18	36	-	-	16
GR 20-450	RH	M22x1.5 RH	27	14	18	36	3	7	18
GR 20-450	LH	M22x1.5 LH	27	14	18	36	3	7	18
GR 20-401	RH	M27x1.5 RH	-	15	18	36	-	-	17
GR 20-401	LH	M27x1.5 LH	-	15	18	36	-	-	17
GR 20-451	RH	M27x1.5 RH	28	15	18	36	6	9.5	22
GR 20-451	LH	M27x1.5 LH	28	15	18	36	6	9.5	22
GR 20-402	RH	M35x1.5 RH	-	15	18	36	-	-	17
GR 20-402	LH	M35x1.5 LH	-	15	18	36	-	-	17
GR 20-452	RH	M35x1.5 RH	40	15	18	36	6	10	22
GR 20-452	LH	M35x1.5 LH	40	15	18	36	6	10	22

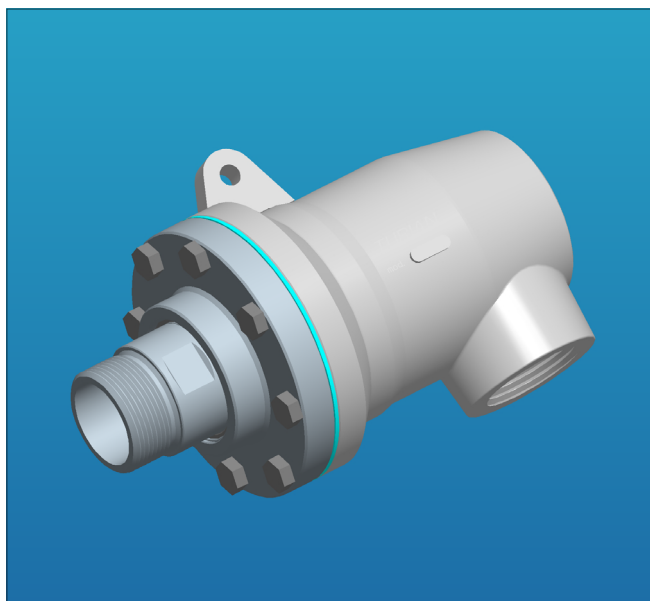
TYPE		A	PT	B	D	E	H	Y	Z
GR 08	RH	1/4 BSP RH	-	10	7.5	23	-	-	12
GR 08	LH	1/4 BSP LH	-	10	7.5	23	-	-	12
GR 08-050	RH	1/4 BSP RH	15	10	7.5	23	3	6	14
GR 08-050	LH	1/4 BSP LH	15	10	7.5	23	3	6	14
GR 08-100	RH	1/4 NPT RH	-	10	7.5	23	-	-	-
GR 08-100	LH	1/4 NPT LH	-	10	7.5	23	-	-	-
GR 10	RH	3/8 BSP RH	-	12	9	25	-	-	14
GR 10	LH	3/8 BSP LH	-	12	9	25	-	-	14
GR 10-050	RH	3/8 BSP RH	18	12	9	25	3	6.5	16
GR 10-050	LH	3/8 BSP LH	18	12	9	25	3	6.5	16
GR 10-100	RH	3/8 NPT RH	-	12	9	25	-	-	-
GR 10-100	LH	3/8 NPT LH	-	12	9	25	-	-	-
GR 10-200	RH	5/8-18 UNF RH	-	14	9	25	-	-	16
GR 10-200	LH	5/8-18 UNF LH	-	14	9	25	-	-	16
GR 10-250	RH	5/8-18 UNF RH	16.66	14	9	29	4.8	8.5	20
GR 10-250	LH	5/8-18 UNF LH	16.66	14	9	29	4.8	8.5	20
GR 10-400	RH	M16x1.5 RH	-	11	9	25	-	-	13
GR 10-400	LH	M16x1.5 LH	-	11	9	25	-	-	13
GR 10-450	RH	M16x1.5 RH	18	11	9	26	5	8.5	17
GR 10-450	LH	M16x1.5 LH	18	11	9	26	5	8.5	17
GR 10-401	RH	M16x2 RH	-	14	9	25	-	-	17
GR 10-401	LH	M16x2 LH	-	14	9	25	-	-	17
GR 10-451	RH	M16x2 RH	18	14	9	29	5	8.5	22
GR 10-451	LH	M16x2 LH	18	14	9	29	5	8.5	22



TYPE		A	PT	B	D	E	H	Y	Z
GR 25	RH	1" BSP RH	-	20	24	41.5	-	-	22
GR 25	LH	1" BSP LH	-	20	24	41.5	-	-	22
GR 25-050	RH	1" BSP RH	35	20	24	41.5	5	9	27
GR 25-050	LH	1" BSP LH	35	20	24	41.5	5	9	27
GR 25-051	RH	1" BSP RH	36	20	24	41.5	5	9	27
GR 25-051	LH	1" BSP LH	36	20	24	41.5	5	9	27
GR 25-100	RH	1" NPT RH	-	20	24	41.5	-	-	-
GR 25-100	LH	1" NPT LH	-	20	24	41.5	-	-	-
GR 25-200	RH	1 1/2"-12UNF RH	-	25	24	41.5	-	-	27
GR 25-200	LH	1 1/2"-12UNF LH	-	25	24	41.5	-	-	27
GR 25-250	RH	1 1/2"-12UNF RH	39.65	25	24	55	12.7	16.5	40
GR 25-250	LH	1 1/2"-12UNF LH	39.65	25	24	55	12.7	16.5	40
GR 25-400	RH	M35x1.5 RH	-	16	24	41.5	-	-	18
GR 25-400	LH	M35x1.5 LH	-	16	24	41.5	-	-	18
GR 25-450	RH	M35x1.5 RH	40	16	24	41.5	11	15	28
GR 25-450	LH	M35x1.5 LH	40	16	24	41.5	11	15	28
GR 32	RH	1 1/4" BSP RH	-	25	32	51	-	-	27
GR 32	LH	1 1/4" BSP LH	-	25	32	51	-	-	27
GR 32-050	RH	1 1/4" BSP RH	44	25	32	51	5	9	32
GR 32-050	LH	1 1/4" BSP LH	44	25	32	51	5	9	32
GR 32-100	RH	1 1/4" NPT RH	-	25	32	51	-	-	-
GR 32-100	LH	1 1/4" NPT LH	-	25	32	51	-	-	-
GR 32-200	RH	1 3/4"-12 UN RH	-	22	32	51	-	-	24
GR 32-200	LH	1 3/4"-12 UN LH	-	22	32	51	-	-	24

HTP ...

GIUNTI ROTANTI PER VAPORE ED OLIO DIATERMICO ROTATING JOINTS FOR STEAM AND HOT OIL



I giunti «HT» sono autoportanti grazie alla doppia supportazione su cuscinetti in carbone sintetico surdimensionati ed ampiamente distanziati per assicurare un rigido allineamento corpo-albero. Questi cuscinetti (quello nel corpo è assiale-radiale) sono esenti da manutenzione ed altamente resistenti all'usura. L'anello di tenuta autoallineante su sede sferica evita fratture dello stesso a causa di improvvisi "shocks" poichè essendo di costruzione convessa sfrutta le migliori qualità del carbone in fatto di resistenza ai carichi di compressione rispetto a quelli di trazione (4.5:1). L'anello di tenuta, in carbone sintetico con impregnazione metallica, garantisce un'elevata resistenza meccanica unitamente ad un alto potere auto-lubrificante e ad una buona capacità termoisolante ed è adatto per alte pressioni (24 bars), temperature (350°C) e numero di giri (500 g/1'). La molla ha la funzione di mantenere in sede solo inizialmente l'anello di tenuta, poichè in esercizio è la stessa pressione che garantisce la spinta per la tenuta. L'albero e la controfaccia sono in lega inossidabile e garantiscono al giunto una lunga durata in esercizio anche in presenza di fluidi aggressivi e sfavorevoli condizioni di lavoro. La serie standard prevede il corpo in ghisa sferoidale. Il fissaggio del giunto al perno del cilindro è previsto con filettatura Gas cilindrica (BSP) o a flangia girevole (altri tipi a richiesta).

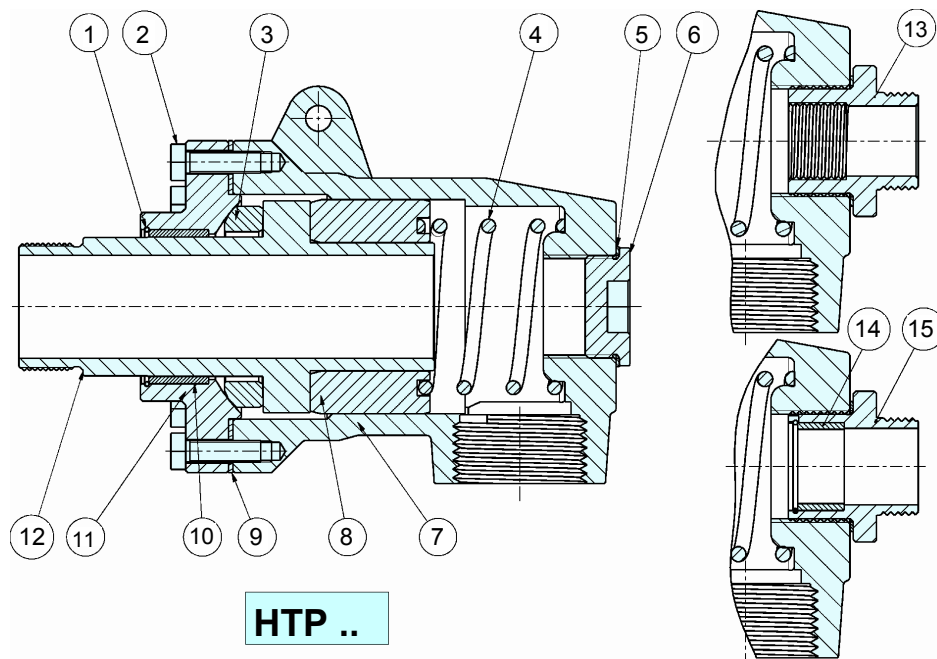
The rotating joints of serie «HT» are self-supporting with the double support of overdimensioned artificial carbon bearings that are amply spaced for a rigid alignment stationary body-rotor. These bearings (one of them a combined axial-radial bearing) are self-lubricating and highly wear-resistant so that the joints are free of maintenance.

The self-alignment seal ring on semi-spherical counterface avoid breaks of seal ring for sudden shocks because its construction is convex and take advantage from better quality of carbon at compression loads than traction (4-5:1). The artificial carbon seal ring with metal impregnated combine an highly mechanical resistant with highly self-lubricating power and good loss of heat capacity. It's good for high pressure (24 bars), temperature (350°C) and number of revolutions (500 RPM). The spring has the function to make in seat the seal ring only at beginning, because in working is the fluid pressure that makes the force to seal. The rotor and counterface are of stainless steel and guarantee a long life of work also with aggressive fluid and hard work conditions.

The standard stationary body is made in cast iron with spheroidal graphite. The rotor extremity is threaded right or left BSP or with rotating flange (other types on request).

t max	350 °C
p max	24 bar
n max	500 RPM

Evitare l'impiego alla massima velocità con la massima pressione.
Avoid working at maximum speed with maximum pressure.
Max.Drehzahl gleichzeitig mit max. Druck ist zu vermeiden.
Évitez l'emploi de la pression maximum à la vitesse maximum.
Evitar el trabajo a máxima velocidad combinada con máxima presión.



HTP ..SF

HTP ..SR

HTP ..

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Anello elastico	Viti	Anello di tenuta	Molla	Guarnizione	Tappo	Corpo	Cuscinetto	Tenuta piana	Cuscinetto	Controfaccia sferica	Rotore	Sifone Fisso	Tenuta separaz. flussi	Sifone rotante
Circlip	Screws	Sealing ring	Spring	Gasket	Plug	Housing	Slide bearing	Flat seal	Cover bearing	Spherical counterface	Rotor	Fixed siphon	Sealing slide bearing	Rotating siphon

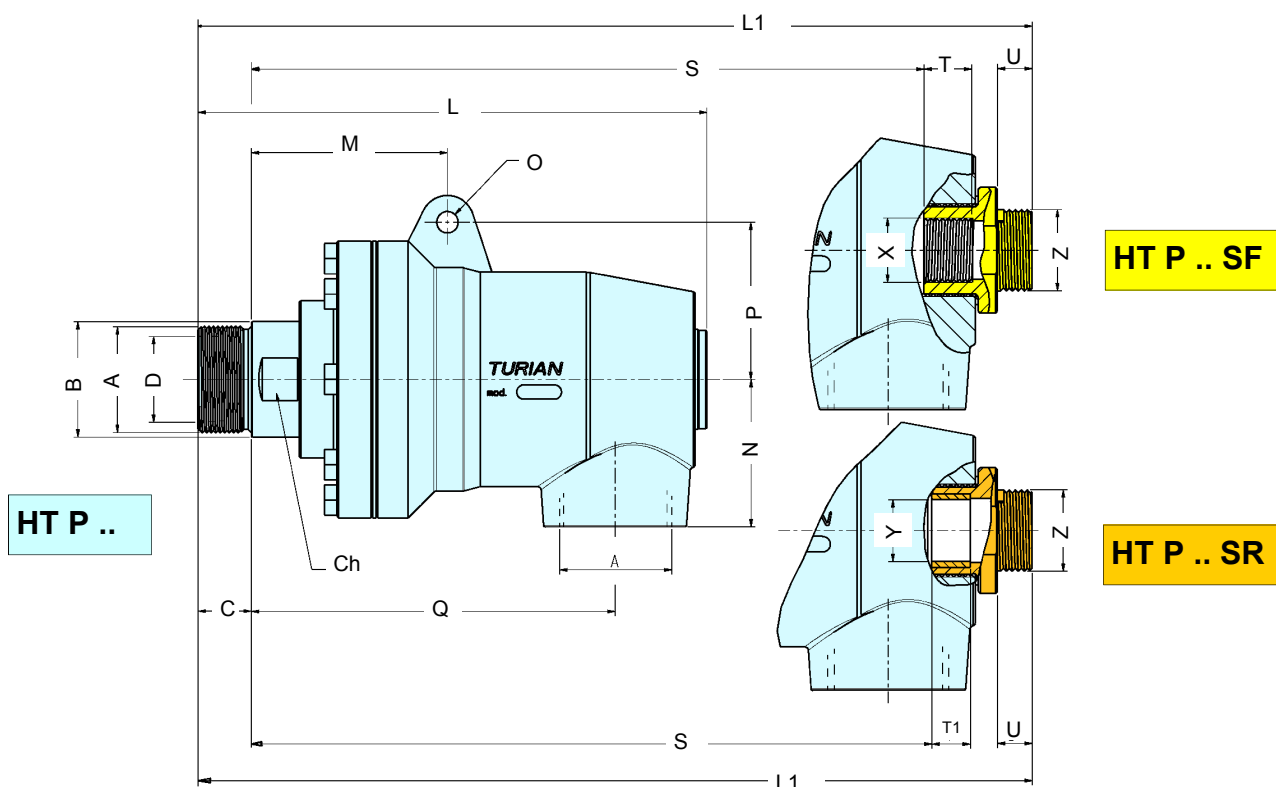
TURIAN

Via Jucker, 19
I-21053 CASTELLANZA (Va)

tel. ++39 0331 501101
fax ++39 0331 505189

HTP...

GIUNTI ROTANTI PER VAPORE ED OLIO DIATERMICO
ROTATING JOINTS FOR STEAM AND HOT OIL



TIPO TYPE	A BSP	B	C	D	L	L1	M	N	O	P	Q	S	T	T1	U	X BSP	Y H8	Z BSP	Ch
HT P 15	1/2	25	20	13	142	-	68	39	8.5	37	94	-	-	-	-	-	-	-	22
HT P 15 SF	1/2	25	20	13	-	155	68	39	8.5	37	94	104	12	-	12	1/8	-	3/8	22
HT P 15 SR	1/2	25	20	13	-	155	68	39	8.5	37	94	104	-	12	12	-	9	3/8	22
HT P 20	3/4	32	20	19	164	-	78	48	8.5	43	115	-	-	-	-	-	-	-	27
HT P 20 SF	3/4	32	20	19	-	179	78	48	8.5	43	115	123	15	-	15	1/4	-	1/2	27
HT P 20 SR	3/4	32	20	19	-	179	78	48	8.5	43	115	123	-	16	15	-	12	1/2	27
HT P 25	1"	38	20	24	197	-	79	55	8.5	48	135	-	-	-	-	-	-	-	32
HT P 25 SF	1"	38	20	24	-	213	79	55	8.5	48	135	152	15	-	15	3/8	-	3/4	32
HT P 25 SR	1"	38	20	24	-	213	79	55	8.5	48	135	152	-	20	15	-	16	3/4	32
HT P 32	1 1/4"	48	22	31	231	-	95	59	10.5	65	165	-	-	-	-	-	-	-	42
HT P 32 SF	1 1/4"	48	22	31	-	246	95	59	10.5	65	165	184	18	-	15	1/2	-	1"	42
HT P 32 SR	1 1/4"	48	22	31	-	246	95	59	10.5	65	165	184	-	22	15	-	20	1"	42
HT P 40	1 1/2"	55	30	40	256	-	100	72	10.5	65	176	-	-	-	-	-	-	-	50
HT P 40 SF	1 1/2"	55	30	40	-	271	100	72	10.5	65	176	198	20	-	15	3/4	-	1"	50
HT P 40 SR	1 1/2"	55	30	40	-	271	100	72	10.5	65	176	198	-	22	15	-	25	1"	50
HT P 50	2"	65	30	48	288	-	107	83	12.5	78	205	-	-	-	-	-	-	-	60
HT P 50 SF	2"	65	30	48	-	306	107	83	12.5	78	205	218	20	-	18	1"	-	1 1/4"	60
HT P 50 SR	2"	65	30	48	-	306	107	83	12.5	78	205	218	-	32	18	-	32	1 1/4"	60
HT P 65	2 1/2"	85	35	62	309	-	121	100	15	100	207	-	-	-	-	-	-	-	75
HT P 65 SF	2 1/2"	85	35	62	-	333	121	100	15	100	207	229	25	-	24	1 1/4"	-	1 1/2"	75
HT P 65 SR	2 1/2"	85	35	62	-	333	121	100	15	100	207	229	-	36	24	-	40	1 1/2"	75
HT P 80	3"	100	40	72	360	-	135	130	15	120	242	-	-	-	-	-	-	-	90
HT P 80 SF	3"	100	40	72	-	390	135	130	15	120	242	275	30	-	30	1 1/2"	-	2"	90
HT P 80 SR	3"	100	40	72	-	390	135	130	15	120	242	275	-	36	30	-	46	2"	90

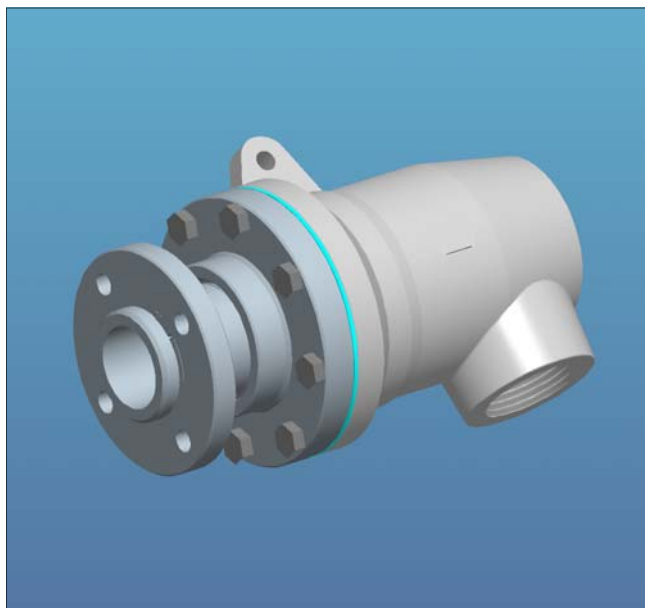
TURIAN

Via Jucker, 19
I-21053 CASTELLANZA (Va)

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HTF ...

GIUNTI ROTANTI PER VAPORE ED OLIO DIATERMICO ROTATING JOINTS FOR STEAM AND HOT OIL



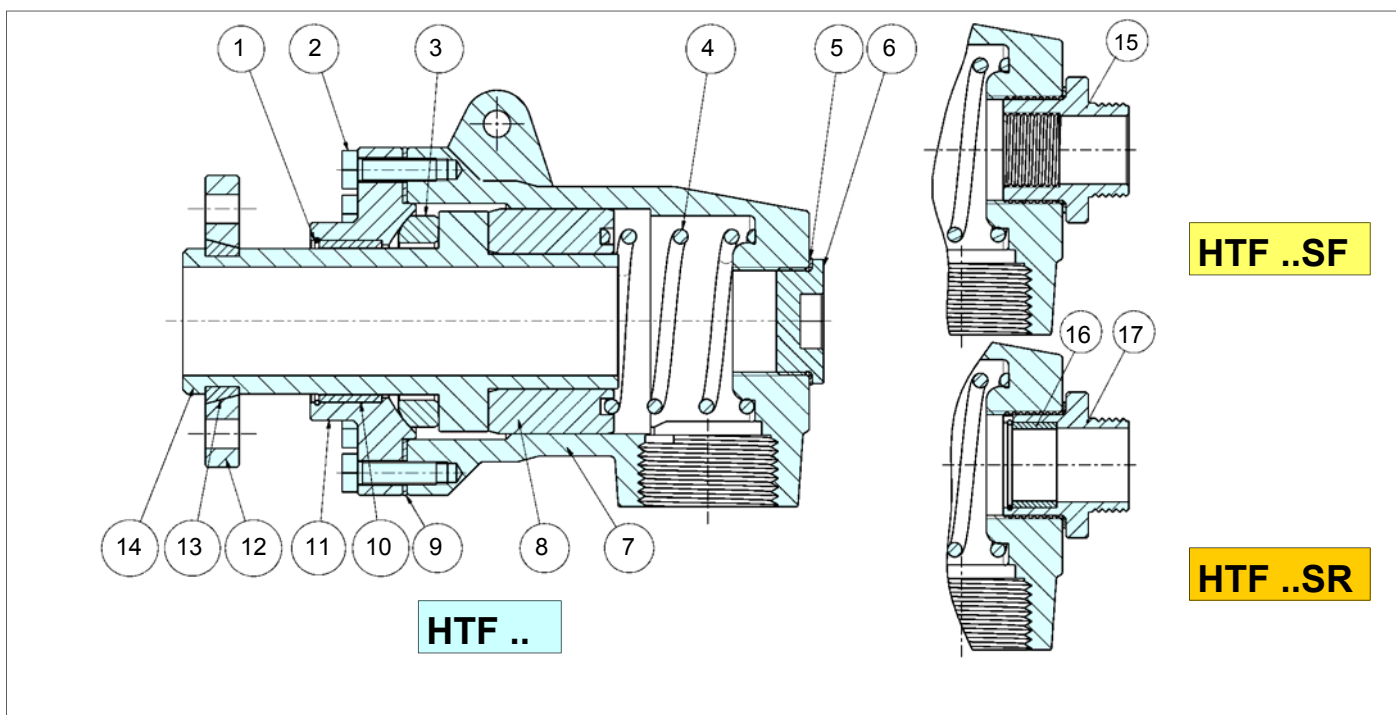
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HTF ..SF

HTF ..SR

HTF ..

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Anello elastico	Viti	Anello di tenuta	Molla	Guarnizione	Tappo	Corpo	Cuscinetto	Tenuta piana	Cuscinetto	Controfaccia sferica	Flangia	Semi-anello	Rotore	Sifone Fisso	Tenuta separaz. flussi	Sifone rotante
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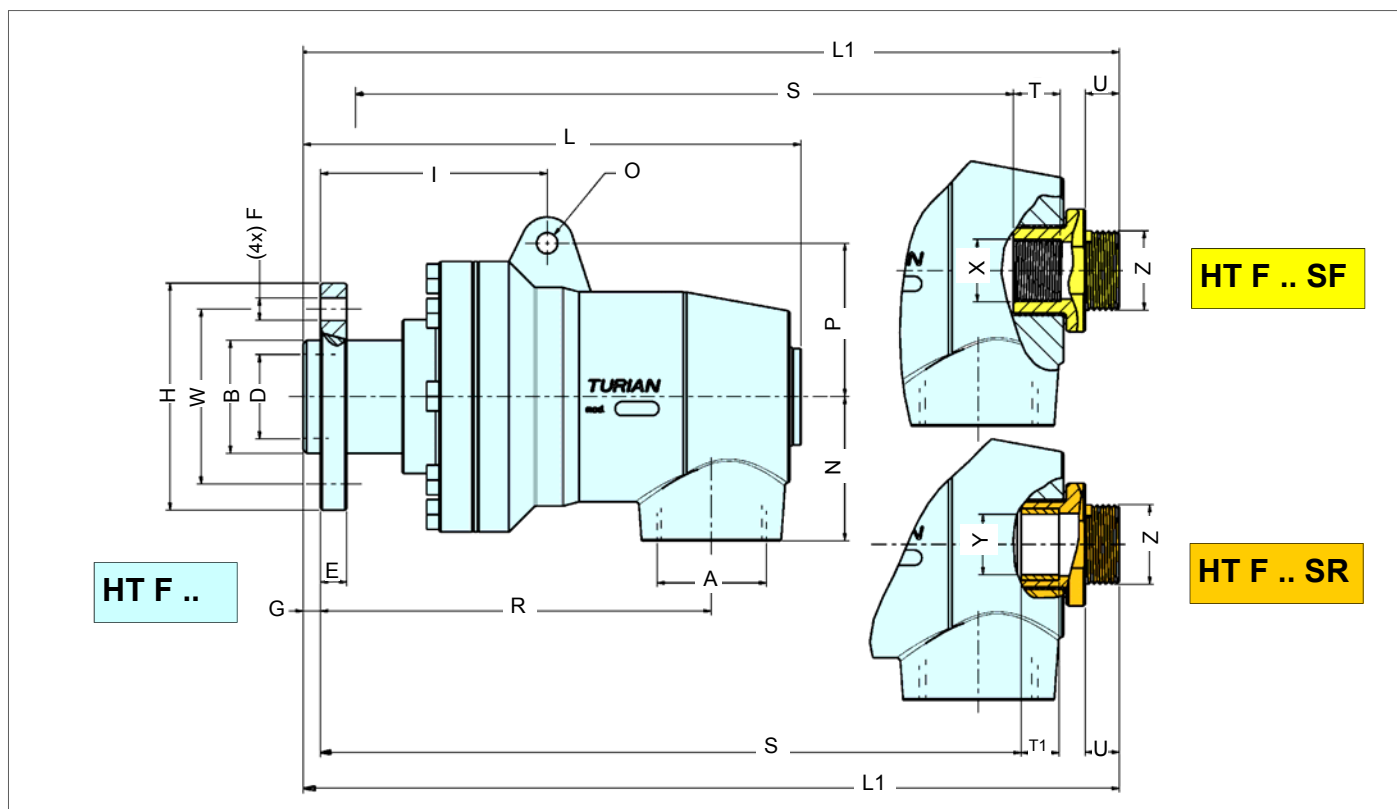
TURIAN

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ROTATING JOINTS FOR STEAM AND HOT OIL



TIPO TYPE	A BSP	B IT	D	E	F	G	H	I	L	L1	N	O	P	R	S	T	T1	U	W	X BSP	Y H8	Z BSP
HT F 20	3/4	32	19	10	9	6	75	92	164	-	48	8.5	43	129	-	-	-	-	55	-	-	-
HT F 20 SF	3/4	32	19	10	9	6	75	92	-	179	48	8.5	43	129	123	15	-	15	55	1/4	-	1/2
HT F 20 SR	3/4	32	19	10	9	6	75	92	-	179	48	8.5	43	129	123	-	16	15	55	-	12	1/2
HT F 25	1"	38	24	12	9	8	80	92	197	-	55	8.5	48	147	-	-	-	-	60	-	-	-
HT F 25 SF	1"	38	24	12	9	8	80	92	-	213	55	8.5	48	147	152	15	-	15	60	3/8	-	3/4
HT F 25 SR	1"	38	24	12	9	8	80	92	-	213	55	8.5	48	147	152	-	20	15	60	-	16	3/4
HT F 32	1 1/4"	48	31	12	11	8	100	109	231	-	59	10.5	65	179	-	-	-	-	75	-	-	-
HT F 32 SF	1 1/4"	48	31	12	11	8	100	109	-	246	59	10.5	65	179	184	18	-	15	75	1/2	-	1"
HT F 32 SR	1 1/4"	48	31	12	11	8	100	109	-	246	59	10.5	65	179	184	-	22	15	75	-	20	1"
HT F 40	1 1/2"	55	40	15	11	10	105	120	256	-	72	10.5	65	196	-	-	-	-	80	-	-	-
HT F 40 SF	1 1/2"	55	40	15	11	10	105	120	-	271	72	10.5	65	196	198	20	-	15	80	3/4	-	1"
HT F 40 SR	1 1/2"	55	40	15	11	10	105	120	-	271	72	10.5	65	196	198	-	22	15	80	-	25	1"
HT F 50	2"	65	48	15	13	10	130	127	288	-	83	12.5	78	225	-	-	-	-	100	-	-	-
HT F 50 SF	2"	65	48	15	13	10	130	127	-	306	83	12.5	78	225	218	20	-	18	100	1"	-	1 1/4"
HT F 50 SR	2"	65	48	15	13	10	130	127	-	306	83	12.5	78	225	218	-	32	18	100	-	32	1 1/4"
HT F 65	2 1/2"	85	62	15	13	10	150	146	309	-	100	15	100	232	-	-	-	-	120	-	-	-
HT F 65 SF	2 1/2"	85	62	15	13	10	150	146	-	333	100	15	100	232	229	25	-	24	120	1 1/4"	-	1 1/2"
HT F 65 SR	2 1/2"	85	62	15	13	10	150	146	-	333	100	15	100	232	229	-	36	24	120	-	40	1 1/2"
HT F 80	3"	100	72	20	18	12	178	163	360	-	130	15	120	270	-	-	-	-	145	-	-	-
HT F 80 SF	3"	100	72	20	18	12	178	163	-	390	130	15	120	270	275	30	-	30	145	1 1/2"	-	2"
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