TENUTE MECCANICHE

MECHANICAL SEALS

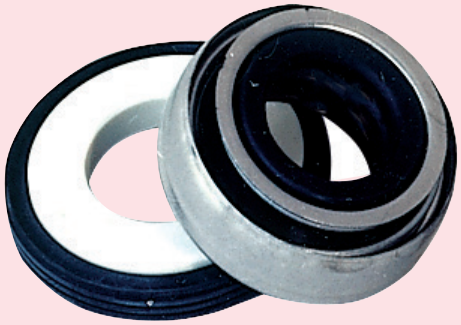
Tutte le caratteristiche tecniche riportate in questo catalogo sono state fornite dalle case costruttrici e sono suscettibili di variazioni senza alcun preavviso.

All the technical specifications shown in the catalogue have been provided by the manufacturers and are subject to change without notice.

TENUTE MECCANICHE

MECHANICAL SEALS

SERIE / *SERIES* **T-C**



TENUTA
Acciaio AISI 304 e carbone sintetico.
Guarnizioni in gomma nitrile.

CONTROFACCIA
Ceramica: C.9; C.22; C.23; C.25; C.29
Allumina: C.10; C.15; C.19; C.20; C.21; C.21S; C.24; C.26; C.27; C.28; TV.229
Acciaio Aisi 420: C.26A; C.29A; C.30A; C.31A; C.32A
Guarnizioni: NBR

APPLICAZIONE
Tenuta meccanica a soffietto a senso di rotazione indipendente usata per pompe d'acqua nel settore industriale e per uso domestico.

LIMITI D'IMPIEGO
p = 6 atm - t = -20°C ÷ +90°C - v = 10 m/s

SEAL
AISI 304 steel and synthetic carbon.
Nitrile rubber gaskets.

COUNTERFACE
Ceramic: C.9; C.22; C.23; C.25; C.29
Alumina: C.10; C.15; C.19; C.20; C.21; C.21S; C.24; C.26; C.27; C.28; TV.229
Aisi 420 steel: C.26A; C.29A; C.30A; C.31A; C.32A;
NBR rubber gaskets

APPLICATION
Bellows-type mechanical seal with independent rotation direction used for water pumps in the industry and for domestic use.

LIMITS OF USE
p = 6 atm - t = -20°C ÷ +90°C - v = 10 m/s.

PER POMPE PEDROLLO / *FOR PEDROLLO PUMPS*

TENUTA / *SEAL*

Articolo *Art.*	d Ø Albero *d Ø Shaft*	D	L Lung. lavoro *L Working length*
T.45	14	28	13

CONTROFACCIA / *COUNTERFACE*

Articolo *Art.*	d Ø Foro *d Ø Hole*	E	L_1
C.15	17	28.5	7.5

PER LAVASTOVIGLIE / *FOR DISHWASHERS*

TENUTA / *SEAL*

Articolo *Art.*	d Ø Albero *d Ø Shaft*	D	L Lung. lavoro *L Working length*
T.40	8	20	11

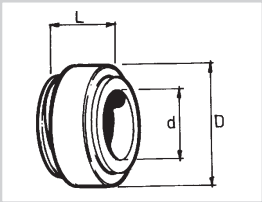
CONTROFACCIA / *COUNTERFACE*

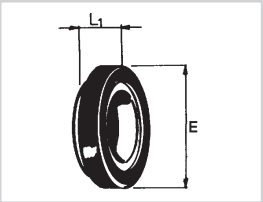
Articolo *Art.*	d Ø Foro *d Ø Hole*	E	L_1
C.9 *	10	26	5.5
C.10	10	22	4

*** IN ESAURIMENTO**
RUNNING OUT

TENUTE MECCANICHE

MECHANICAL SEALS





Articolo Tenuta *Art. Seal*	**d Ø Albero** *d Ø Shaft*	**D**	**L Lung. lavoro** *L Working length*	**Art. Controfaccia** *Art. Counterface*	**d Ø Foro** *d Ø Hole*	**E**	**L_1**
T.49 *	8	18	11.5	**C.19**	9	19	7.5
T.52	10	24	11	**C.20**	13	26	8
T.47	11	24	11				
T.53 *	12	24	13				
T.51	13	24	13	**C.21**	14	26	8
				C.21S	14	26	5.5
T.54	14	28	13	**C.22**	17	35	8
T.55	15	32	13	**C.23**	17	38	8
T.56	16	38	13				
T.57	17	39	13	**C.24**	21	42	8
T.58	18	39	13				
T.59	19	39	13				
T.60	20	39	12				
T.61 *	22	42	13	**C.25**	26	45	10
T.62	23	47	14	**C.26** **C.26A**	27	50	10
T.63	24	47	14				
T.64	25	42	14				
T.65	28	54	15	**C.27**	34	57	10
T.66	30	54	15				
T.67	32	54	15				
T.68	35	60	16	**C.28**	37	63	10
T.69	38	65	18	**C.29** **C.29A**	42	68	12
T.70	40	65	18				
T.71	45	70	20	**C.30A**	47	73	12
T.72	50	85	23	**C.31A**	52	88	15
T.73	60	102	30	**C.32A**	67	110	15

*** MONTATA ANCHE SU POMPE SACEMI /** *SUITABLE FOR SACEMI PUMPS*

TENUTE MECCANICHE VEMA

VEMA MECHANICAL SEALS

SERIE / *SERIES* **TV**

TENUTA / *SEAL*

Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**D**	**L Lung. lavoro** *L Working length*
TV.228	15	32	13

CONTROFACCIA / *COUNTERFACE*

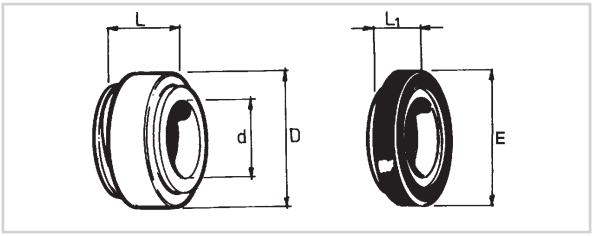
Articolo *Art.*	**d Ø Foro** *d Ø Hole*	**E**	**L_1**
TV.229	17	29,5	8

TENUTE MECCANICHE IN VITON® (FKM)

VITON® (FKM) MECHANICAL SEALS

SERIE / *SERIES* **TCV**





TENUTA
Acciaio AISI 316 e carbone sintetico - Guarnizioni in VITON® (FKM).

CONTROFACCIA
Allumina - Guarnizioni in VITON® (FKM).

APPLICAZIONE
Tenuta meccanica a soffietto per liquidi medio corrosivi a senso di rotazione indipendente.

LIMITI D'IMPIEGO
p = 6 atm - t = - 20°C ÷ +140°C (acqua calda max 120°C) - v = 10 m/s

SEAL
AISI 316 steel and synthetic carbon - VITON® (FKM) gaskets.

COUNTERFACE
Alumina - VITON® (FKM) gasket.

APPLICATION
Bellows-type mechanical seal with independent rotation direction for fairly corrosive fluids.

LIMITS OF USE
p = 6 atm - t = - 20°C ÷ +140°C (hot water max 120°C) - v = 10 m/s

TENUTA COMPLETA DI CONTROFACCIA / *SEAL COMPLETE WITH COUNTERFACE*

Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**D**	**L Lung. lavoro** *L Working length*	**E**	**L_1**
TCV.530	10	24	11	26	8
TCV.531	11	24	11	26	8
TCV.532	12	24	13	26	5.5
TCV.533	12	24	13	26	8
TCV.533L ▲	12	32	13	29.5	8
TCV.534	13	24	13	26	8
TCV.520	14	28	13	28.5	7.5
TCV.535 **	14	28	13	38	8
TCV.536 **	15	32	13	38	8
TCV.537 **	16	32	13	38	8
TCV.538	16	32	13	42	8
TCV.539	17	39	13	42	8
TCV.540	18	39	13	42	8
TCV.541	19	39	13	42	8
TCV.542	20	39	13	42	8
TCV.543 **	20	42	13	45	10
TCV.544 **	22	42	13	45	10
TCV.545 *	23	47	14	50	10
TCV.546	24	47	14	50	10
TCV.547	25	42	14	50	10
TCV.548	28	54	15	57	10
TCV.549	30	54	15	57	10
TCV.550	32	54	15	57	10
TCV.551	35	60	16	63	10
TCV.552 **	40	65	18	68	12

*** MONTATA ANCHE SU POMPE SACEMI**
SUITABLE FOR SACEMI PUMPS

**** CONTROFACCIA IN CERAMICA**
CERAMIC COUNTERFACE

▲ PER LAVANDERIE
For laundry

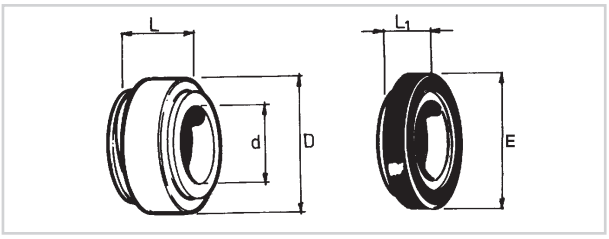
*** IN ESAURIMENTO**
RUNNING OUT

TENUTE MECCANICHE IN CARBURO DI SILICIO

SILICON CARBIDE MECHANICAL SEALS

SERIE / *SERIES* **TSV-CSV**





TENUTA
Carburo di silicio - Guarnizioni in VITON® (FKM).

CONTROFACCIA
Carburo di silicio - Guarnizioni in VITON® (FKM).

APPLICAZIONE
Tenuta meccanica a senso di rotazione indipendente.
Adattabile su qualsiasi tipo d'elettropompa con prestazione speciale e per liquidi abrasivi.

LIMITI D'IMPIEGO
p = 6 atm - t = -20°C ÷ +140°C (acqua calda max 120°C) - v = 10 m/s

SEAL
Silicon carbide - VITON® (FKM) gaskets.

COUNTERFACE
Silicon carbide - VITON® (FKM) gasket.

APPLICATION
Mechanical seal with independent rotation direction.
Adaptable to any type of pump with special performance and for abrasive fluids.

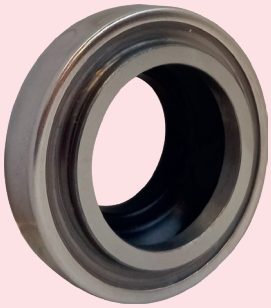
LIMITS OF USE
p = 6 atm - t = -20°C ÷ +140°C (hot water max 120°C) - v = 10 m/s

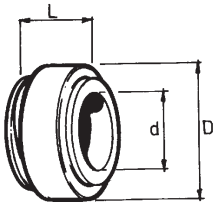
Articolo Tenuta *Art. Seal*	**d Ø Albero** *d Ø Shaft*	**D**	**L Lung. lavoro** *L Working length*	**Art. Controfaccia** *Art. Counterface*	**d Ø Foro** *d Ø Hole*	**E**	**L_1**
TSV.12	12	24	13	**CSV.13**	14	26	8
TSV.13	13	24	13				
TSV.14	14	28	13	**CSV.16**	17	29,5	8
TSV.15	15	32	13				
TSV.16R	16	32	13				
TSV.16	16	39	13	**CSV.20**	21	42	8
TSV.17	17	39	13				
TSV.18	18	39	13				
TSV.19	19	39	13				
TSV.20	20	39	13				
TSV.20S	20	42	13	**CSV.22**	26	45	10
TSV.22	22	42	13				
TSV.25	25	42	14	**CSV.25**	27	50	10
TSV.28	28	54	15	**CSV.32**	34	57	10
TSV.30	30	54	15				
TSV.32	32	54	15				
TSV.35	35	60	16	**CSV.35**	37	63	10
TSV.40	40	65	18	**CSV.40**	42	68	12

TENUTE MECCANICHE IN WIDIA-VITON® (FKM)

WIDIA-VITON® (FKM) MECHANICAL SEALS

SERIE / *SERIES* **TWV**





TENUTA
WIDIA - Guarnizioni in Viton® (FKM).

APPLICAZIONE
Tenuta meccanica a senso di rotazione indipendente. Adattabile su qualsiasi tipo d'elettropompa con prestazione speciale, per liquidi abrasivi e medio corrosivi.

LIMITI D'IMPIEGO
p = 6 atm - t = -20°C ÷ +140°C (acqua calda max 120°C)
v = 10 m/s

SEAL
WIDIA - Viton® (FKM) gaskets.

APPLICATION
Mechanical seal with independent rotation direction. Adaptable to any type of pump with special performance, for abrasive and fairly corrosive fluids.

LIMITS OF USE
p = 6 atm - t = -20°C ÷ +140°C (hot water max 120°C)
v = 10 m/s

TENUTA / *SEAL*

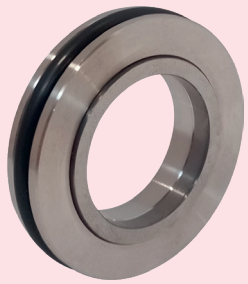
Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**D**	**L Lung. lavoro** *L Working length*
TWV.114	14	32	13
TWV.115	15	32	13
TWV.116	16	32	13
TWV.117	17	39	13
TWV.118	18	39	13
TWV.119	19	39	13
TWV.120	20	39	13
TWV.122	22	42	13
TWV.124	24	47	14
TWV.125	25	42	14
TWV.128	28	54	16
TWV.130	30	54	16
TWV.132	32	54	16
TWV.135	35	60	17
TWV.138	38	65	18
TWV.140	40	65	18
TWV.145	45	70	20
TWV.150	50	85	23
TWV.160 NEW	60	105	30

CONTROFACCE

COUNTERFACES

SERIE / *SERIES* **CWV-CU-CC6-CM60**

CWV



CU



CC6



CM60



DIN 24960 / EN 12756

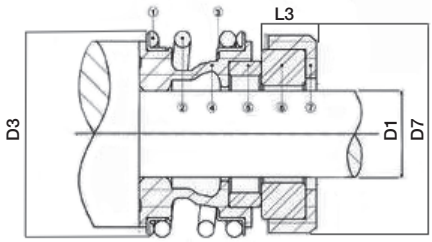
Ø Albero tenuta *Ø Seal shaft*	**Art. Widia Viton** *Art. Widia Viton*	**Art. Allumina NBR** *Art. Alumina NBR*	**d Ø Foro** *d Ø Hole*	**E**	**L_1**	**Art. Silicio Viton** *Art. Silicon carbide Viton*	**Art. Silicio Viton** *Art. Silicon carbide Viton*	**d Ø Foro** *d Ø Hole*	**E**	**L_1**
14	**CWV.115**	**CU.23**	17	38	8	**CC6.15**	**CM60.15**	17	25	6.6
15										
16						**CC6.16**	**CM60.16**	17	27	6.6
17	**CWV.120**	**CU.24**	21	42	8	**CC6.18**	**CM60.18**	19	33	7.5
18										
19						**CC6.20**	**CM60.20**	21	35	7.5
20										
22	**CWV.122**	-	26	45	10	**CC6.22**	**CM60.22**	23	37	7.5
24	**CWV.125**	**CU.26**	27	50	10	**CC6.24**	**CM60.24**	25	39	7.5
25						**CC6.25**	**CM60.25**	27	40	7.5
28	**CWV.132**	**CU.27**	34	57	10	**CC6.28**	**CM60.28**	29	43	7.5
30						**CC6.30**	**CM60.30**	31	45	7.5
32						**CC6.32**	**CM60.32**	34	48	7.5
35	**CWV.135**	**CU.28**	37	63	10	**CC6.35**	**CM60.35**	36	50	7.5
38	**CWV.140**	-	42	68	12	**CC6.38**	**CM60.38**	39	56	9
40						**CC6.40**	**CM60.40**	41	58	9
45	**CWV.145**	-	47	73	12	**CC6.45**	**CM60.45**	46	63	9
50	**CWV.150**	-	52	88	15	**CC6.50**	**CM60.50**	51	70	9.5
60	**CWV.160**	-	61	110	15	**CC6.60**	**CM60.60**	61	80	11

TENUTE MECCANICHE

MECHANICAL SEALS

SERIE / *SERIES* **TTP**





TENUTA: Grafite - Guarnizioni NBR.

CONTROFACCIA: Ceramica. Guarnizioni NBR.

APPLICAZIONE
Tenuta a senso di rotazione indipendente per pompe da piscina, liquidi puliti, acqua.

LIMITI D'IMPIEGO
p = 10 atm - t = -20°C +120°C - v = 10 m/s

SEAL: *Graphite NBR - Rubber gaskets.*

COUNTERFACE: *Ceramic - NBR rubber gaskets.*

APPLICATION
Mechanical seal with independent rotation for swimming pool pumps, clean liquids, water.

LIMITS OF USE
p = 10 atm - t = -20°C +120°C - v = 10 m/s

TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

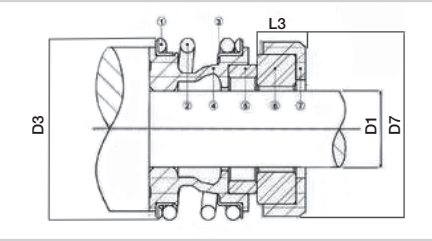
Articolo *Art.*	d Ø Albero inch *d Ø Shaft inch*	Ø D1 mm	D7 mm	D3 mm	L3 mm
TTP.15	5/8"	15.88	31.75	29.8	10.3
TTP.19	3/4"	19.05	35	32	10.3
TTP.25	1"	25.40	41.25	42	11

TENUTA ADATTABILE SU POMPE PER IDROMASSAGGIO TEUCO

COMPATIBLE SEAL FOR TEUCO HYDRO-MASSAGE PUMPS

SERIE / *SERIES* **TE**





TENUTA: Grafite - Guarnizioni NBR.

CONTROFACCIA
Allumina - Guarnizioni NBR.

APPLICAZIONE
Tenuta meccanica per pompe idromassaggio 1 HP/1.2 HP e per pompe vasche idrojet.

SEAL: *Graphite - NBR rubber gaskets.*

COUNTERFACE
Alumina - NBR rubber gaskets.

APPLICATION
Mechanical seal for hydro-massage pump 1 HP/1.2 HP and for pumps tanks hydro-jet.

TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

Articolo *Art.*	D1	D7	D3	L3
TE.16	16	31.75	28.5	10.5

TENUTE MECCANICHE

MECHANICAL SEALS

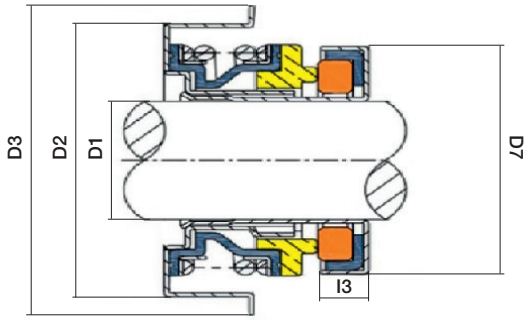
SERIE / *SERIES* **TMP**

PER PISCINA
SWIMMING POOL



PER MOTOPOMPE
FOR MOTOR PUMPS





TENUTA: Grafite - Guarnizioni NBR.

CONTROFACCIA: Ceramica. Guarnizioni NBR.

APPLICAZIONE
Tenuta a senso di rotazione indipendente per acqua, liquidi puliti senza presenza di abrasioni.

LIMITI D'IMPIEGO
4 BAR - t = -20°C +90°C

SEAL: *Graphite - NBR rubber gaskets.*

COUNTERFACE: *Ceramic - NBR rubber gaskets.*

APPLICATION
Mechanical seal with independent rotation for water, clean liquids without abrasion.

LIMITS OF USE
4 BAR - t = -20°C +90°C

TENUTA COMPLETA PER PISCINA
COMPLETE SEAL FOR SWIMMING POOL

Articolo *Art.*	inch Ø *inch Ø*	Ø D1 mm	Ø D2 mm	D3 mm	D7 mm	l3 mm
TMP.13	1/2"	12.70	28.55	35	25.40	8
TMP.16	5/8"	15.88	36.45	41	31.75	10.3
TMP.19	3/4"	19.05	40	44	34.95	10.3

TENUTA COMPLETA PER MOTOPOMPE
COMPLETE SEAL FOR MOTOR PUMPS

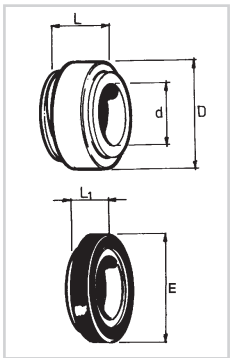
Articolo *Art.*	inch Ø *inch Ø*	Ø D1 mm	Ø D2 mm	D3 mm	D7 mm	l3 mm
TMP.20	-	20	40	44	35	7
TMP.30	-	30	52	57	48	8

TENUTE ADATTABILI PER POMPE BADU

COMPATIBLE MECHANICA SEALS FOR BADU PUMPS

SERIE / *SERIES* **TPB**





TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

Articolo *Art.*	d Ø Albero *d Ø Shaft*	D	L Lung. lavoro *L Working length*	E	L_1
TPB.14	14	28	13	25	7.5
TPB.20	20	30	13	35	7.5

TENUTA
Acciaio AISI 316 e carbone sintetico - Guarnizioni NBR.

CONTROFACCIA
Allumina. Guarnizioni NBR.

APPLICAZIONE
Tenuta meccanica a soffietto per liquidi medio corrosivi a senso di rotazione indipendente.

LIMITI D'IMPIEGO
p = 4 atm - t = - 20°C ÷ +90°C

SEAL
AISI 316 steel and synthetic carbon - NBR rubber gasket.

COUNTERFACE
Alumina. NBR rubber gasket.

APPLICATION
Bellows-type mechanical seal with independent rotation direction for fairly corrosive fluids.

LIMITS OF USE
p = 4 atm - t = - 20°C ÷ +90°C

TENUTE MECCANICHE

MECHANICAL SEALS

SERIE / *SERIES* **AT-CA**



TENUTA
Corpo tenuta in acciaio AISI 431. Molla in acciaio AISI 316. Guarnizioni NBR.

CONTROFACCIA
Carbone sintetico. Guarnizioni NBR.

APPLICAZIONE
Tenuta meccanica a senso di rotazione dipendente (di serie con molla destra) particolarmente usata in pompe per acqua e liquidi medio corrosivi.

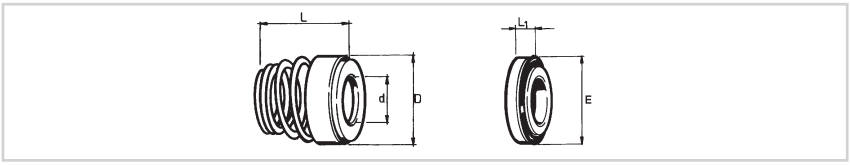
LIMITI D'IMPIEGO
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s

SEAL
Seal body in AISI 431 steel. Spring in AISI 316 steel. NBR rubber gaskets.

COUNTERFACE
Synthetic carbon. NBR rubber gaskets.

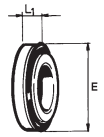
APPLICATION
Mechanical seal with dependent rotation direction (standard with right spring) particularly used in water pumps and fairly corrosive fluids.

LIMITS OF USE
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s



TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUXNTERFACE

Articolo *Art.*	d Ø Albero *d Ø Shaft*	D	L Lung. lavoro *L Working length*	E	L_1
AT.101	10	18	15	18.1	5.5
AT.102	11	20	18	20.6	5.5
AT.103	12	20	18	20.6	5.5
AT.104	13	22	22	23.1	6
AT.105	14	22	22	23.1	6
AT.106	15	24	22	26.9	7
AT.107	16	26	23	26.9	7
AT.108	17	26	23	26.9	7
AT.109	18	29	24	30.9	8
AT.110	19	30	25	30.9	8
AT.111	20	31	25	30.9	8
AT.112	21	32	25	35.4	8
AT.113	22	32	25	35.4	8
AT.114	23	35	27	35.4	8
AT.115	24	35	27	35.4	8
AT.116	25	36	27	38.2	8.5
AT.117	26	37	27	38.2	8.5
AT.118 *	27	38	27	38.2	8.5
AT.119	28	42	29	43.3	9
AT.120	29	42	30	43.3	9
AT.121	30	44	30	43.3	9
AT.122	32	44	30	43.3	9
AT.123	33	47	39	53.5	11.5
AT.124	34	48	39	53.5	11.5
AT.125	35	49	39	53.5	11.5
AT.126 *	36	50	39	53.5	11.5
AT.127 *	37	52	39	53.5	11.5
AT.128	38	54	39	60.5	11.5
AT.129	39	55	39	60.5	11.5
AT.130	40	56	39	60.5	11.5
AT.131	42	59	39	60.5	11.5
AT.132	44	60	41	65.5	11.5
AT.133	45	61	41	65.5	11.5
AT.134	48	64	41	65.5	11.5
AT.135 *	49	65	41	65.5	11.5
AT.136	50	66	45	72.5	11.5
AT.137	55	71	47	72.5	11.5
AT.138	60	80	49	79.3	11.5
AT.139	65	85	51	84.5	11.5
AT.140	70	90	51	89.5	11.5
AT.141	75	98	57	94.5	11.5
AT.142	80	104	59	99.5	11.5
AT.144	110	143	75	132.2	17.5



SOLO CONTROFACCIA
COUNTERFACE ONLY

Articolo *Art.*	d Ø Albero *d Ø Shaft*	E	L_1
CA.262	11	18.1	5.5
CA.264	13	20.6	5.5
CA.266	14	23.1	6
CA.268	17	26.9	7
CA.269	18	26.9	7
CA.270	19	30.9	8
CA.272	21	30.9	8
CA.274	23	35.4	8
CA.276	25	35.4	8
CA.277	26	38.2	8.5
CA.278	27	38.2	8.5
CA.279 *	28	38.2	8.5
CA.282	31	43.3	9
CA.283	33	43.3	9
CA.286	36	53.5	11.5
CA.288 *	38	53.5	11.5
CA.289	39	60.5	11.5
CA.291	41	60.5	11.5
CA.292	44	60.5	11.5
CA.294	46	65.5	11.5
CA.295	49	65.5	11.5
CA.296 *	50	65.5	11.5
CA.297	51	72.5	11.5
CA.298	56	72.5	11.5
CA.299	61	79.3	11.5
CA.230	66	84.5	11.5
CA.231	71	89.5	11.5
CA.232	76	94.5	11.5
CA.233	81	99.5	11.5
CA.234 *	91	111.5	13.5
CA.235	112	132.2	17.5

*** IN ESAURIMENTO**
RUNNING OUT

TENUTE MECCANICHE

MECHANICAL SEALS

SERIE / *SERIES* **TD-CA**



A NORMATIVA TEDESCA
UNIFICAZIONE TABELLA
DIN 24960
AGGIORNATA CON
NORMATIVA EUROPEA EN 12756

ACCORDING TO GERMAN
REGULATIONS TABLE
DIN 24960
AMENDED ACCORDING
TO EUROPEAN EN 12756

TENUTA
Corpo tenuta in acciaio AISI 431. Molla in acciaio AISI 316. Guarnizioni NBR.

CONTROFACCIA
Carbone sintetico. Guarnizioni NBR.

APPLICAZIONE
Tenuta meccanica a senso di rotazione dipendente (di serie con molla destra) costruttivamente simile alla "SERIE AT" ma con dimensioni secondo la normativa tedesca d'unificazione, tabella DIN 24960 adottata nei modelli di pompe delle più importanti case costruttrici europee.

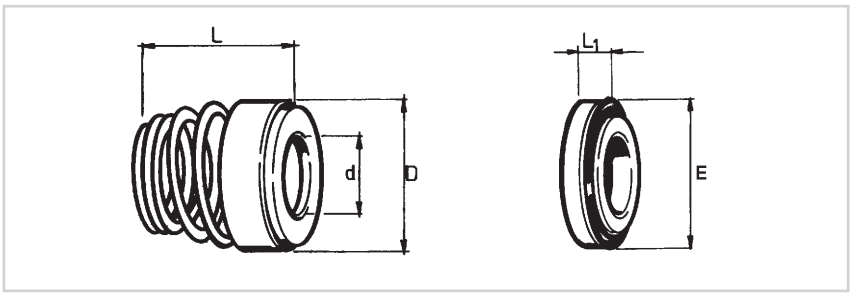
LIMITI D'IMPIEGO
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s

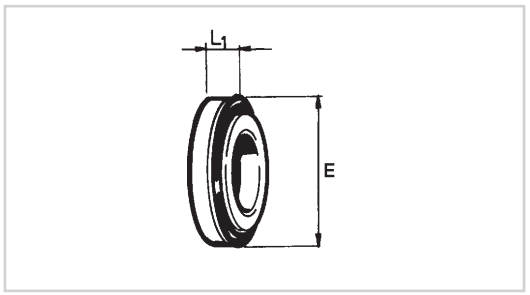
SEAL
Seal body in AISI 431 steel. Spring in AISI 316 steel. NBR rubber gaskets.

COUNTERFACE
Synthetic carbon. NBR rubber gaskets.

APPLICATION
Mechanical seal with dependent rotation direction (standard with right spring) similar in construction to the "SERIES AT" but with dimensions according to German regulations, table DIN 24960 adopted in the models of pumps of the major European manufacturers.

LIMITS OF USE
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s





TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

Articolo *Art.*	d Ø Albero *d Ø Shaft*	D	L Lung. lavoro *L Working length*	E	L_1
TD.710	10	18	15	21	7
TD.711	12	20	18	23	7
TD.712	14	22	22	25	7
TD.713	16	26	23	27	7
TD.714	18	29	24	33	10
TD.715	20	31	25	35	10
TD.716	22	32	25	37	10
TD.717	24	35	27	39	10
TD.718	25	36	27	40	10
TD.719	28	42	29	43	10
TD.720	30	44	30	45	10
TD.721	32	44	30	48	10
TD.722	33	47	39	48	10
TD.723	35	49	39	50	10
TD.724	38	54	42	56	13
TD.725	40	56	42	58	13
TD.726	43	59	47	61	13
TD.727	45	61	47	63	13
TD.728	48	64	47	66	13
TD.729	50	66	46	70	14
TD.730	53	69	56	73	14
TD.731	55	71	56	75	14
TD.732	58	78	56	78	14
TD.733	60	80	56	80	14
TD.734	63	83	56	83	14
TD.735	65	85	66	85	14
TD.736	68	88	64	90	16
TD.737	70	90	64	92	16
TD.738	75	98	64	97	16
TD.739	80	104	72	105	18
TD.740	95	119	72	120	18
TD.741	100	124	72	125	18

SOLO CONTROFACCIA
COUNTERFACE ONLY

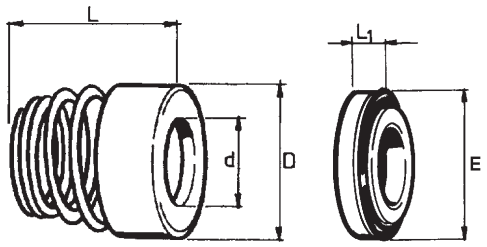
Articolo *Art.*	d Ø Albero *d Ø Shaft*	E	L_1
CA.310	11	21	7
CA.311	13	23	7
CA.312	15	25	7
CA.313	17	27	7
CA.314	19	33	10
CA.315	21	35	10
CA.316	23	37	10
CA.317	25	39	10
CA.318	26	40	10
CA.319	29	43	10
CA.320	31	45	10
CA.321	33	48	10
CA.322	34	48	10
CA.323	36	50	10
CA.324	39	56	13
CA.325	41	58	13
CA.326	44	61	13
CA.327	46	63	13
CA.328	49	66	13
CA.329	51	70	14
CA.330	54	73	14
CA.331	56	75	14
CA.332	59	78	14
CA.333	61	80	14
CA.334	64	83	14
CA.335	66	85	14
CA.336	69	90	16
CA.337	71	92	16
CA.338	76	97	16
CA.339	81	105	18
CA.340	96	120	18
CA.341	101	125	18

TENUTE MECCANICHE IN VITON® (FKM)

VITON® (FKM) MECHANICAL SEALS

SERIE / *SERIES* **ATV-CAV**





TENUTA
Acciaio AISI 316 - Guarnizioni in VITON® (FKM).

CONTROFACCIA
Carbone sintetico - Guarnizioni in VITON® (FKM).

APPLICAZIONE
Tenuta meccanica a senso di rotazione dipendente (di serie con molla destra). Adatta per liquidi medio corrosivi.

LIMITI D'IMPIEGO
p = 10 atm - t = -20°C ÷ +200°C (in acqua calda max 120°C)
v = 20 m/s

SEAL
AISI 316 steel - VITON® (FKM) gaskets.

COUNTERFACE
Synthetic carbon - VITON® (FKM) gaskets.

APPLICATION
Mechanical seal with dependent rotation direction (standard with right spring). Suitable for fairly corrosive fluids.

LIMITS OF USE
p = 10 atm - t = -20°C ÷ +200°C (in hot water max 120°C)
v = 20 m/s

Articolo Tenuta *Art. Seal*	**d Ø Albero** *d Ø Shaft*	**D**	**L Lung. lavoro** *L Working length*	**Art. Controfaccia** *Art. Counterface*	**d Ø Albero** *d Ø Shaft*	**E**	**L_1**
ATV.12	12	20	18	**CAV.112**	13	20.6	5.5
ATV.14	14	22	22	**CAV.114**	15	23.1	6
ATV.15	15	24	22	**CAV.116**	17	26.9	7
ATV.16	16	26	23				
ATV.17	17	26	23	**CAV.117**	18	26.9	7
ATV.18	18	29	24	**CAV.118**	19	30.9	8
ATV.19	19	30	25	**CAV.120**	21	30.9	8
ATV.20	20	31	25				
ATV.22	22	32	25	**CAV.122**	23	35.4	8
ATV.24	24	35	27	**CAV.124**	25	35.4	8
ATV.25	25	36	27	**CAV.125**	26	38.2	8.5
ATV.26	26	37	27	**CAV.126**	27	38.2	8.5
ATV.28	28	42	29	**CAV.130**	31	43.3	9
ATV.30	30	44	30				
ATV.32	32	44	30	**CAV.132**	33	43.3	9
ATV.34	34	48	39	**CAV.135**	36	53.5	11.5
ATV.35	35	49	39				
ATV.38	38	54	39	**CAV.140**	41	60.5	11.5
ATV.40	40	56	39				
ATV.42	42	59	39	**CAV.142**	44	60.5	11.5
ATV.44	44	60	41	**CAV.145**	46	65.5	11.5
ATV.45	45	61	41				
ATV.50	50	66	45	**CAV.150**	51	72.5	11.5
ATV.55	55	71	47	**CAV.155**	56	72.5	11.5
ATV.60	60	80	49	**CAV.160**	61	79.3	11.5

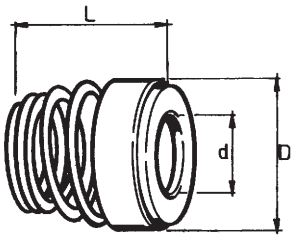
TENUTE MECCANICHE IN PTFE (TEFLON)

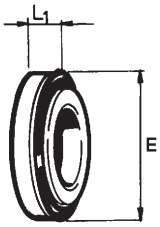
PTFE (TEFLON) MECHANICAL SEALS

SERIE / *SERIES* **ATF**

SOLO SU RICHIESTA
ON REQUEST ONLY







TENUTA
Acciaio AISI 316 - Guarnizioni in TEFLON.

CONTROFACCIA
Carbone sintetico - Guarnizioni in TEFLON.

APPLICAZIONE
Tenuta meccanica a senso di rotazione dipendente (di serie con molla destra). Usata nelle pompe per l'industria chimica, per raffinerie e per solventi.

LIMITI D'IMPIEGO
p = 10 atm - t = -40°C ÷ +200°C - v = 20 m/s

SEAL
AISI 316 steel - TEFLON gaskets.

COUNTERFACE
Synthetic carbon - TEFLON gaskets.

APPLICATION
Mechanical seal with dependent rotation direction (standard with right spring). Used in pumps for the chemical industry, refineries and for solvents.

LIMITS OF USE
p = 10 atm - t = -40°C ÷ +200°C - v = 20 m/s

TENUTA COMPLETA DI CONTROFACCIA / *SEAL COMPLETE WITH COUNTERFACE*

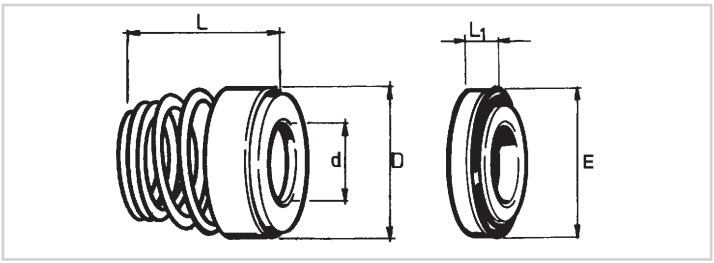
Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**D**	**L Lung. lavoro** *L Working length*	**E**	**L_1**
ATF.410	12	20	18	20.6	5.5
ATF.413	15	24	22	26.9	7
ATF.417	19	30	25	30.9	8
ATF.418	20	31	25	30.9	8
ATF.420	22	32	25	35.4	8
ATF.428	30	44	30	43.3	9
ATF.430	32	44	30	43.3	9
ATF.433	35	49	39	53.5	11.5

TENUTE MECCANICHE IN WIDIA

WIDIA MECHANICAL SEALS

SERIE / *SERIES* **TW-CW**





TENUTA: Corpo tenuta in acciaio AISI 304. Faccia di scivolo in WIDIA. Molla in acciaio AISI 316. Guarnizioni NBR.

CONTROFACCIA: In acciaio AISI 304. Faccia di scivolo in WIDIA. Guarnizioni NBR.

APPLICAZIONE: Tenuta meccanica a senso di rotazione dipendente (di serie con molla destra). Adattabile su qualsiasi tipo d'elettropompa con prestazione speciale e per liquidi abrasivi.

LIMITI D'IMPIEGO
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s

SEAL: *Seal body in AISI 304 steel. Sliding face in WIDIA. AISI 316 steel spring. NBR rubber gaskets.*

COUNTERFACE: *AISI 304 steel. Sliding face in WIDIA. NBR rubber gaskets.*

APPLICATION: *Mechanical seal with dependent rotation direction (standard with right spring). Adaptable to any type of pump with special performance and for abrasive fluids.*

LIMITS OF USE
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s

Articolo Tenuta *Art. Seal*	**d Ø Albero** *d Ø Shaft*	**D**	**L Lung. lavoro** *L Working length*	**Art. Controfaccia** *Art. Counterface*	**d Ø Albero** *d Ø Shaft*	**E**	**L_1**
TW.210	10	18	15	**CW.810**	11	18.1	5.5
TW.212	12	20	18	**CW.812**	13	20.6	5.5
TW.214	14	22	22	**CW.814**	15	23.1	6
TW.215	15	26	22	**CW.816**	17	26.9	7
TW.216	16	26	23				
TW.217	17	26	23	**CW.817**	18	26.9	7
TW.218	18	30	24	**CW.818**	19	30.9	8
TW.219	19	30	25	**CW.820**	21	30.9	8
TW.220	20	31	25				
TW.222	22	32	25	**CW.822**	23	35.4	8
TW.224	24	35	27	**CW.824**	25	35.4	8
TW.225	25	36	27	**CW.825**	27	38.2	8.5
TW.226	26	37	27				
TW.227 *	27	38	28	**CW.827** *	28	38.2	8.5
TW.228	28	42	29	**CW.828**	29	43.3	9
TW.230	30	44	30	**CW.830**	31	43.3	9
TW.232	32	44	30	**CW.832**	33	43.3	9
TW.233	33	47	39	**CW.835**	36	53.5	11.5
TW.235	35	49	39				
TW.238	38	54	39	**CW.838**	39	60.5	11.5
TW.240	40	56	39	**CW.840**	41	60.5	11.5
TW.245	45	61	41	**CW.845**	46	65.5	11.5
TW.248	48	64	41	**CW.848**	49	65.5	11.5
TW.250	50	66	45	**CW.850**	51	72.5	11.5
TW.255	55	71	47	**CW.855**	56	72.5	11.5
TW.260	60	80	49	**CW.860**	61	79.3	11.5
TW.265	65	85	51	**CW.865**	66	84.5	11.5
TW.270	70	90	51	**CW.870**	71	89.5	11.5
TW.290	80	104	59	**CW.880**	81	99.5	11.5

* **IN ESAURIMENTO** / *RUNNING OUT*

TENUTE MECCANICHE IN WIDIA

WIDIA MECHANICAL SEALS

SERIE / *SERIES* **TW-TWD-CWD**



A NORMATIVA TEDESCA UNIFICAZIONE TABELLA DIN 24960 AGGIORNATA CON NORMATIVA EUROPEA EN 12756

ACCORDING TO GERMAN REGULATIONS TABLE DIN 24960 AMENDED ACCORDING TO EUROPEAN EN 12756

TENUTA: Corpo tenuta in acciaio AISI 304. Faccia di scivolo in WIDIA. Molla in acciaio AISI 316. Guarnizioni NBR.

CONTROFACCIA: In acciaio AISI 304. Faccia di scivolo in WIDIA. Guarnizioni NBR.

APPLICAZIONE: Tenuta meccanica a senso di rotazione dipendente (di serie con molla destra) con dimensioni secondo la normativa tedesca d'unificazione, tabella DIN 24960 (EN 12756) adottata nei modelli di pompe delle più importanti case costruttrici europee.

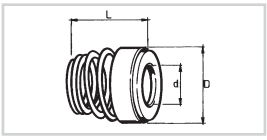
LIMITI D'IMPIEGO
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s

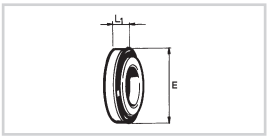
SEAL: *Seal body in AISI 304 steel. Sliding face in WIDIA. AISI 316 steel spring. NBR rubber gaskets.*

COUNTERFACE: *AISI 304 steel. Sliding face in WIDIA. NBR rubber gaskets.*

APPLICATION: *Mechanical seal with dependent rotation direction (standard with right spring) with dimensions according to German regulations, table DIN 24960 (EN 12756) adopted in the pump models of the major European manufacturers.*

LIMITS OF USE
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s





Articolo Tenuta *Art. Seal*	**d Ø Albero** *d Ø Shaft*	**D**	**L Lung. lavoro** *L Working length*	**Art. Controfaccia** *Art. Counterface*	**d Ø Foro** *d Ø Hole*	**E**	**L_1**
TW.210	10	18	15	**CWD.10**	11	21	7
TW.212	12	20	18	**CWD.12**	13	23	7
TW.214	14	22	22	**CWD.14**	15	25	7
TW.216	16	26	23	**CWD.16**	17	27	7
TW.218	18	30	24	**CWD.18**	19	33	10
TW.220	20	31	25	**CWD.20**	21	35	10
TW.222	22	32	25	**CWD.22**	23	37	10
TW.224	24	35	27	**CWD.24**	25	39	10
TW.225	25	36	27	**CWD.25**	26	40	10
TW.228	28	42	29	**CWD.28**	29	43	10
TW.230	30	44	30	**CWD.30**	31	45	10
TW.232	32	44	30	**CWD.32**	33	48	10
TW.233	33	47	39	**CWD.33**	34	48	10
TW.235	35	49	39	**CWD.35**	36	50	10
TWD.38	38	54	42	**CWD.38**	39	56	13
TWD.40	40	56	42	**CWD.40**	41	58	13
TWD.43	43	59	47	**CWD.43**	44	61	13
TWD.45	45	61	47	**CWD.45**	46	63	13
TWD.48	48	64	47	**CWD.48**	49	66	13
TWD.50	50	66	46	**CWD.50**	51	70	14
TWD.55	55	71	56	**CWD.55**	54	75	14
TWD.60	60	80	56	**CWD.60**	61	80	14
TWD.70	70	90	64	**CWD.70**	71	92	16
TWD.90 *	90	114	72	**CWD.90**	91	115	18

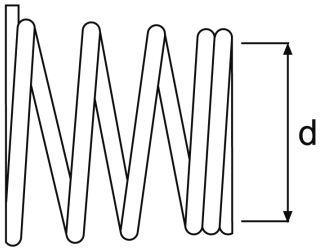
*** Con guarnizioni in Viton® (FKM) /** *With Viton (FKM)® gaskets*

MOLLE SINISTRE PER TENUTE

LEFT SPRINGS FOR SEALS

SERIE / *SERIES* **ML**





APPLICAZIONE
Molle in acciaio AISI 316 per serie AT - TW - ATV
(TD - fino al ø 35).

APPLICATION
AISI 316 steel springs for series AT - TW - ATV
(TD - up to ø 35).

Articolo *Art.*	**d Ø Albero** *d Ø Shaft*
ML.10	10
ML.11	11
ML.12	12
ML.13	13
ML.15	15
ML.16	16
ML.18	18
ML.20	20
ML.21 *	21
ML.22	22
ML.23 *	23
ML.24	24
ML.25	25
ML.26 *	26
ML.27 *	27

Articolo *Art.*	**d Ø Albero** *d Ø Shaft*
ML.28	28
ML.29 *	29
ML.30	30
ML.32	32
ML.38	38
ML.39 *	39
ML.40	40
ML.43	43
ML.45	45
ML.48	48
ML.50 *	50
ML.65	65
ML.70	70
ML.75	75

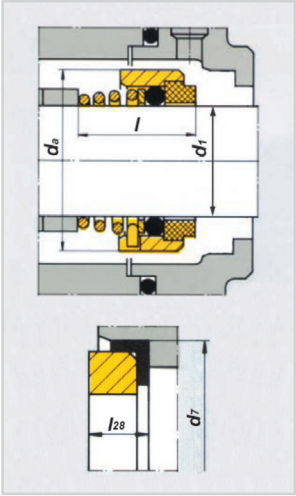
* **IN ESAURIMENTO**
RUNNING OUT

TENUTE ORIGINALI BURGMANN

ORIGINAL BURGMANN SEALS

SERIE / *SERIES* **M32N69**





SERIE M32N69 PER POMPE KSB
- Tenuta a molla conica per liquidi puliti e acidi;
- Guarnizione controfaccia con cuffia;
- Senso di rotazione dipendente;
- Materiali facce di scivolo: carbone grafite/carburo di silicio;
- Materiale guarnizioni: fluoroelastomero (Viton® FKM);
- Temperatura di esercizio: -30°+200°C (120°C in acqua);
- Pressione max 10 bar.

SERIES M32N69 FOR KSB PUMPS
- *Seal Conical spring for clean liquids and acids;*
- *Gasket Counterface with cap;*
- *Direction Dependent rotation;*
- *Materials Sliding faces: carbon graphite/silicon carbide;*
- *Material gaskets: fluoroelastomer (Viton® FKM);*
- *Temperature: -30° to +200°C (120°C in water);*
- *Pressure Max 10 bar.*

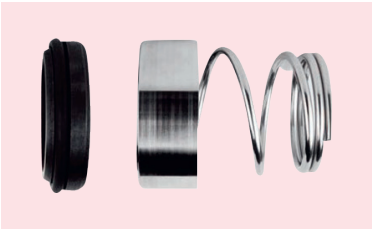
TENUTA COMPLETA DI CONTROFACCIA / *SEAL COMPLETE WITH COUNTERFACE*

Articolo *Art.*	**Dimensioni girante** *Dimensions Seal*			**Dimensioni controfaccia** *Dimensions Counterface*	
	d^1 Ø Albero *Ø Shaft*	**d^3 Ø Esterno** *Ø External*	**L^1 Lungezza lavoro** *Working length*	**d^7 Ø Esterno** *Ø External*	**l^{28} Spessore tot.** *Total thickness*
M32N6928	28	42	42.5	43	7.5
M32N6938	38	54	46	57	9

TENUTE PER POMPE LOWARA

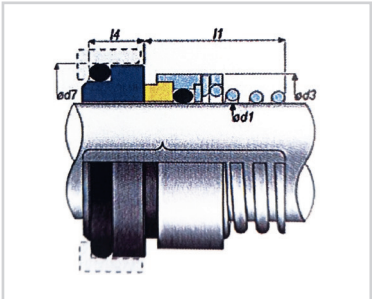
SEALS FOR LOWARA PUMPS

SERIE / *SERIES* **TLW**



- Tenuta a molla conica per liquidi puliti e acidi;
- Dimensioni unificate DIN 24960 EN 12756;
- Senso di rotazione dipendente;
- Materiali facce di scivolo: silicio/carbone;
- Guarnizioni: EPDM;
- Temperatura di esercizio: -30°C +140°C;
- Pressione max 10 bar.

- *Seal Conical spring for clean liquids and acids;*
- *Unified dimensions DIN 24960 EN 1276;*
- *Direction Dependent rotation;*
- *Materials Sliding faces: graphite/silicon carbide;*
- *Gaskets: EPDM;*
- *Temperature: -30°C to +140°C;*
- *Pressure Max 10 bar.*



TENUTA COMPLETA DI CONTROFACCIA / *SEAL COMPLETE WITH COUNTERFACE*

Articolo *Art.*	**Dimensioni girante** *Dimensions Seal*			**Dimensioni controfaccia** *Dimensions Counterface*	
	d^1 Ø Albero *Ø Shaft*	**d^3 Ø Esterno** *Ø External*	**L^1 Lungezza lavoro** *Working length*	**d^7 Ø Esterno** *Ø External*	**l^4**
TLW.12	12	21	25.5	23	7
TLW.16	16	26	28	27	7
TLW.25	25	36	30	40	10

TENUTA PER POMPE LOWARA

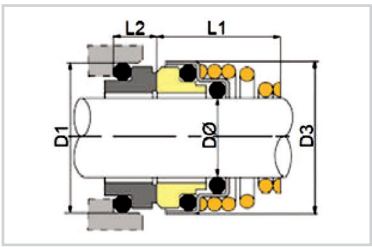
SEAL FOR LOWARA PUMPS

SERIE / *SERIES* **TEL**



- Tenuta a molla conica per liquidi abrasivi e acidi;
- Materiali facce di scivolo: carburo di silicio/carburo di silicio;
- Materiale guarnizioni: fluoroelastomero VITON® (FKM);
- Temperatura di esercizio: -30° +200°C (120° in acqua);
- Pressione max 10 bar;
- Per pompe Lowara CE e CO.

- *Mechanical seal conical spring for clean liquid and acids;*
- *Materials sliding faces: silicon carbide/silicon carbide;*
- *Gasket: Viton® (FKM);*
- *Temperature: -30°C to +200°C (120°C in water);*
- *Pressure MAX: 10 Bar;*
- *Compatible Lowara pumps CE and CO.*



TENUTA COMPLETA DI CONTROFACCIA / *SEAL COMPLETE WITH COUNTERFACE*

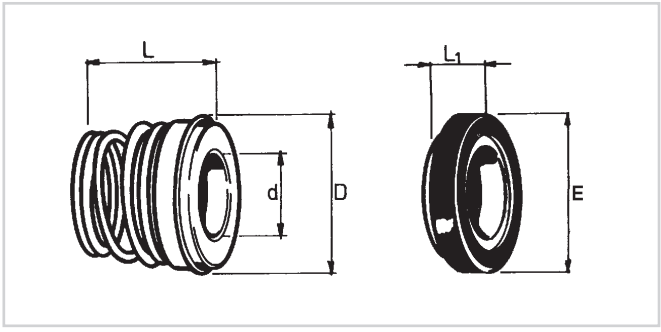
Articolo *Art.*	**Dimensioni girante** *Dimensions Seal*			**Dimensioni controfaccia** *Dimensions Counterface*	
	D^1 Ø Albero *Ø Shaft*	**D^3 Ø Esterno** *Ø External*	**L^1 Lungezza lavoro** *Working length*	**D^1 Ø Esterno** *Ø External*	**L^2**
TEL.14	14	24	16.6	23.1	6

TENUTE MECCANICHE TIPO EBARA

EBARA MECHANICAL SEALS TYPE

SERIE / *SERIES* **TEB**





TENUTA
Corpo tenuta in acciaio AISI 316 e ceramica. Guarnizioni in EPDM.

CONTROFACCIA
Grafite - Guarnizioni in EPDM.

APPLICAZIONE
Tenuta meccanica per impieghi universali, a senso di rotazione dipendente (di serie con molla destra).

LIMITI D'IMPIEGO
p = 10 atm - t = -40°C ÷ +120°C - v = 20 m/s

SEAL
Seal body in AISI 316 steel and ceramic. EPDM gaskets.

COUNTERFACE
Graphite - EPDM rubber gaskets.

APPLICATION
Mechanical seal for universal use with dependent rotation direction (standard with right spring).

LIMITS OF USE
p = 10 atm - t = -40°C ÷ +120°C - v = 20 m/s

TENUTA COMPLETA DI CONTROFACCIA / *SEAL COMPLETE WITH COUNTERFACE*

Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**D**	**L Lung. lavoro** *L Working length*	**E**	**L_1**
TEB.15	15	29	22	26	7

TENUTE MECCANICHE

MECHANICAL SEALS

SERIE / *SERIES* **RT-CA**



TENUTA
Corpo tenuta in acciaio AISI 304 e ceramica.
Molla in acciaio AISI 316 - Guarnizioni in gomma nitrile.

CONTROFACCIA
Carbone sintetico - Guarnizioni in gomma nitrile.

APPLICAZIONE
Tenuta meccanica a senso di rotazione dipendente (di serie con molla destra) di grande impiego per pompe nel settore industriale e per uso domestico.

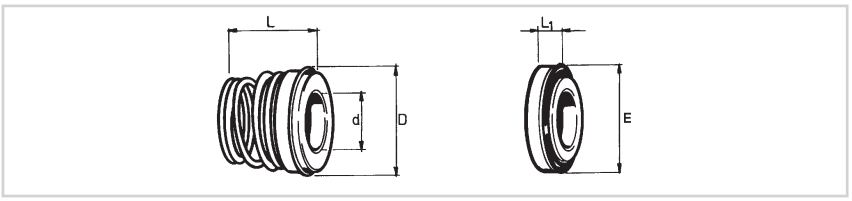
LIMITI D'IMPIEGO
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s

SEAL
Seal body in AISI 304 steel and ceramic.
Spring in AISI 316 steel - Nitrile rubber gaskets.

COUNTERFACE
Synthetic carbon - Nitrile rubber gaskets.

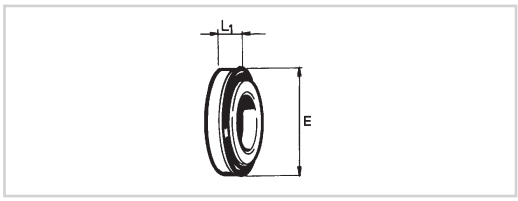
APPLICATION
Mechanical seal with dependent rotation direction (standard with right spring) widely used for pumps in the industry and for domestic use.

LIMITS OF USE
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s.



TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

Articolo *Art.*	d Ø Albero *d Ø Shaft*	D	L Lung. lavoro *L Working length*	E	L_1
RT.302	10	19.5	15	18.1	5.5
RT.303	12	22.5	18	20.6	5.5
RT.304	13	24.5	22	23.1	6
RT.305	14	24.5	22	23.1	6
RT.306	15	29	22	26.9	7
RT.307	16	29	23	26.9	7
RT.308	17	29	23	26.9	7
RT.309	18	32.5	24	30.9	8
RT.310	19	32.5	25	30.9	8
RT.311	20	32.5	25	30.9	8
RT.312	22	37.5	25	35.4	8
RT.313	24	37.5	27	35.4	8
RT.314	25	40	27	38.2	8.5
RT.315	28	46	29	43.3	9
RT.316	30	46	30	43.3	9
RT.317	32	46	30	43.3	9
RT.318	35	50	39	53.5	11.5
RT.319 *	38	58	39	60.5	11.5
RT.320 *	40	58	39	60.5	11.5

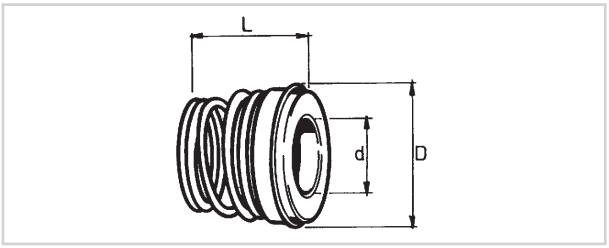


SOLO CONTROFACCIA
COUNTERFACE ONLY

Articolo *Art.*	d Ø Albero *d Ø Shaft*	E	L_1
CA.262	10	18.1	5.5
CA.264	12	20.6	5.5
CA.266	14	23.1	6
CA.268	16	26.9	7
CA.269	17	26.9	7
CA.270	18	30.9	8
CA.272	20	30.9	8
CA.274	22	35.4	8
CA.276	24	35.4	8
CA.277	25	38.2	8.5
CA.282	30	43.3	9
CA.283	32	43.3	9
CA.286	35	53.5	11.5
CA.289	38	60.5	11.5
CA.291	40	60.5	11.5

*** ALLUMINA /** *ALUMINA*





TENUTA
Corpo tenuta in acciaio AISI 304 e Allumina.
Molla in acciaio AISI 316 - Guarnizioni NBR.

APPLICAZIONE
Tenuta meccanica a senso di rotazione dipendente (di serie con molla destra) di grande impiego per pompe nel settore industriale e per uso domestico.

LIMITI D'IMPIEGO
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s

SEAL
Seal body in AISI 304 steel and Alumina.
Spring in AISI 316 steel - NBR rubber gaskets.

APPLICATION
Mechanical seal with dependent rotation direction (standard with right spring) widely used for pumps in the industry and for domestic use.

LIMITS OF USE
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s.

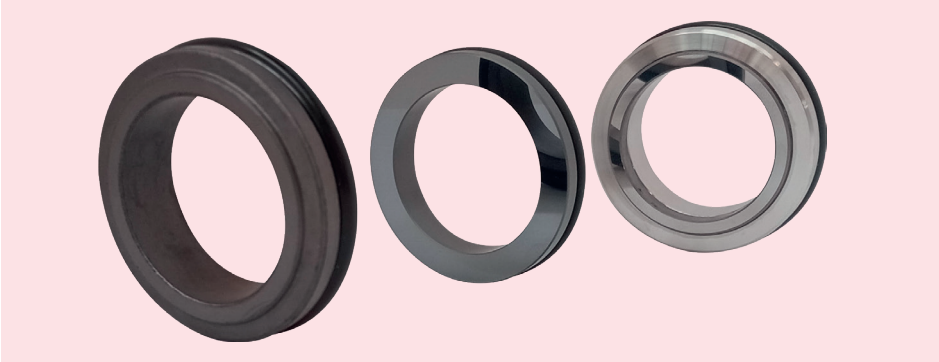
SOLO TENUTA / *SEAL ONLY*

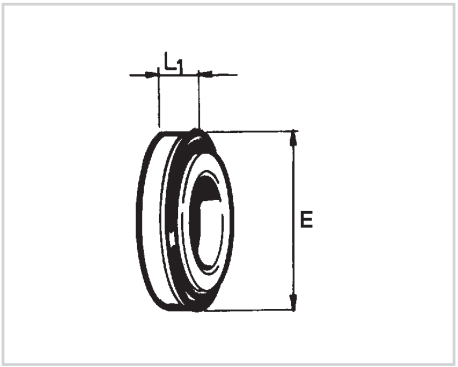
Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**D**	**L Lung. lavoro** *L Working length*
RA.12	12	22.5	18
RA.14	14	24.5	22
RA.15	15	29	22
RA.16	16	29	23
RA.18	18	32.5	24
RA.20	20	32.5	25
RA.22	22	37.5	25
RA.24	24	37.5	27
RA.25	25	40	27
RA.28	28	46	29
RA.30	30	46	30
RA.32	32	46	30
RA.35	35	50	39
RA.38	38	58	39
RA.40	40	58	39

CONTROFACCE PER SERIE RA

COUNTERFACE FOR RA SERIES

SERIE / *SERIES* **CA-CW-CC6-CWD**





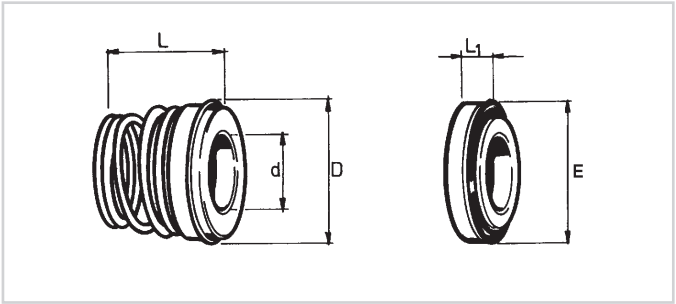
Controfaccia in grafite Guarnizioni NBR *Counterface in graphite NBR rubber gaskets*				**Controfaccia in carburo di silicio Guarnizioni NBR** *Counterface in silicon carbide NBR rubber gaskets*				**Controfaccia in Widia Guarnizioni NBR** *Counterface in Widia NBR rubber gaskets*			
Articolo *Art.*	**d Ø Foro** *d Ø Hole*	**E**	**L_1**	**Articolo** *Art.*	**d Ø Foro** *d Ø Hole*	**E**	**L_1**	**Articolo** *Art.*	**d Ø Foro** *d Ø Hole*	**E**	**L_1**
CA.264	13	20.6	5.5	**CA.464**	13	20.6	5.5	**CW.812**	13	20.6	5.5
CA.266	15	23.1	6	**CA.466**	15	23.1	6	**CW.814**	15	23.1	6
CA.268	17	26.9	7	**CA.467**	17	26.9	7	**CW.816**	17	26.9	7
				CA.468	17	26.9	7				
CA.270	19	309	8	**CA.470**	19	309	8	**CW.818**	19	309	8
CA.272	21	30.9	8	**CA.472**	21	30.9	8	**CW.820**	21	30.9	8
CA.274	23	35.4	8	**CA.474**	23	35.4	8	**CW.822**	23	35.4	8
CA.276	25	35.4	8	**CA.476**	25	35.4	8	**CW.824**	25	35.4	8
CA.277	27	38.2	8.5	**CA.477**	27	38.2	8.5	**CW.825**	27	38.2	8.5
CA.282	31	43.3	9	**CA.480**	29	43.3	9	**CW.828**	29	43.3	9
				CA.482	31	43.3	9	**CW.830**	31	43.3	9
CA.283	33	43.3	9	**CA.483**	33	43.3	9	**CW.832**	33	43.3	9
CA.286	36	53.5	11.5	**CA.486**	36	53.5	11.5	**CW.835**	36	53.5	11.5
CA.289	39	60.5	11.5	**CA.489**	39	60.5	11.5	**CW.838**	39	60.5	11.5
CA.291	41	60.5	11.5	**CA.491**	41	60.5	11.5	**CW.840**	41	60.5	11.5
DIN 24960 - EN 12756											
CA.311	13	23	7	**CC6.12**	13	23	6.6	**CWD.12**	13	23	7
CA.312	15	25	7	**CC6.14**	15	25	6.6	**CWD.14**	15	25	7
-	-	-	-	**CC6.15**	17	25	6.6	**-**	-	-	-
CA.313	17	27	7	**CC6.16**	17	27	6.6	**CWD.16**	17	27	7
CA.314	19	33	10	**CC6.18**	19	33	7.5	**CWD.18**	19	33	10
CA.315	21	35	10	**CC6.20**	21	35	7.5	**CWD.20**	21	35	10
CA.316	23	37	10	**CC6.22**	23	37	7.5	**CWD.22**	23	37	10
CA.317	25	39	10	**CC6.24**	25	39	7.5	**CWD.24**	25	39	10
CA.318	27	40	10	**CC6.25**	27	40	7.5	**CWD.25**	27	40	10
CA.319	29	43	10	**CC6.28**	29	43	7.5	**CWD.28**	29	43	10
CA.320	31	45	10	**CC6.30**	31	45	7.5	**CWD.30**	31	45	10
CA.321	33	48	10	**CC6.32**	33	48	7.5	**CWD.32**	33	48	10
CA.323	36	50	10	**CC6.35**	36	50	7.5	**CWD.35**	36	50	10
CA.324	39	56	13	**CC6.38**	39	56	9	**CWD.38**	39	56	13
CA.325	41	58	13	**CC6.40**	41	58	9	**CWD.40**	41	58	13

TENUTE MECCANICHE IN CARBURO DI SILICIO CON GUARNIZIONI VITON® (FKM)

SILICON CARBIDE MECHANICAL SEALS WITH VITON® (FKM) GASKETS

SERIE / *SERIES* **RTS-CRS**





TENUTA
Carburo di silicio - Guarnizioni in VITON® (FKM).

CONTROFACCIA
Carburo di silicio - Guarnizioni in VITON® (FKM).

APPLICAZIONE
Tenuta meccanica a senso di rotazione dipendente (di serie con molla destra). Adattabile su qualsiasi tipo di elettropompa con prestazione speciale e per liquidi abrasivi.

LIMITI D'IMPIEGO
p = 10 atm - t = -20°C ÷ +180°C - v = 20 m/s
(acqua calda max 120°C)

SEAL
Silicon carbide - VITON® (FKM) gasket.

COUNTERFACE
Silicon carbide - VITON® (FKM) gasket.

APPLICATION
Mechanical seal with dependent rotation direction (standard with right spring). Adaptable to any type of pump with special performance and for abrasive fluids.

LIMITS OF USE
p = 10 atm - t = -20°C ÷ +180°C - v = 20 m/s
(hot water max 120°C)

Articolo Tenuta *Art. Seal*	**d** **Ø Albero** *Ø Shaft*	**D**	**L** **Lung. lavoro** *Working length*
RTS.12	12	22.5	18
RTS.14 NEW	14	24.5	22
RTS.15	15	29	22
RST.16	16	29	23
RTS.18	18	32.5	24
RTS.20	20	32.5	25
RTS.22	22	37.5	25
RTS.24	24	37.5	27
RTS.25	25	40	27
RTS.28	28	46	29
RTS.30	30	46	30
RTS.32	32	46	30
RTS.33 NEW	33	46	30
RTS.35 NEW	35	50	39
RTS.38 NEW	38	58	39
RTS.40 NEW	40	58	39

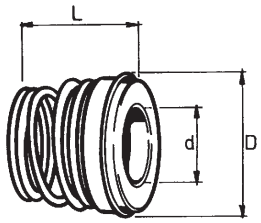
Art. Controfaccia *Art. Counterface*	**d** **Ø Foro** *Ø Hole*	**E**	**L_1**
CRS.12	13	20.6	5.5
CRS.14 NEW	15	23.1	6
CRS.15	16	26.9	7
CRS.16	17	26.9	7
CRS.18	19	30.9	8
CRS.20	21	30.9	8
CRS.22	23	35.4	8
CRS.24	25	35.4	8
CRS.25	27	38.2	8.5
CRS.28	29	43.3	9
CRS.30	31	43.3	9
CRS.32	33	43.3	9
CRS.35 NEW	36	53.5	11.5
CRS.40 NEW	41	60.5	11.5

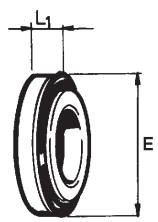
TENUTE MECCANICHE IN CARBURO DI SILICIO CON GUARNIZIONI VITON® (FKM)

SILICON CARBIDE MECHANICAL SEALS WITH VITON® (FKM) GASKETS

SERIE / *SERIES* **RTS-CC6**







TENUTA
Carburo di silicio - Guarnizioni in VITON® (FKM).

CONTROFACCIA
Carburo di silicio - Guarnizioni in VITON® (FKM).

APPLICAZIONE
Tenuta meccanica a senso di rotazione dipendente (di serie con molla destra). Adattabile su qualsiasi tipo di elettropompa con prestazione speciale e per liquidi abrasivi.

LIMITI D'IMPIEGO
p = 10 atm - t = -20°C ÷ +180°C - v = 20 m/s
(acqua calda max 120°C)

SEAL
Silicon carbide - VITON® (FKM) gasket.

COUNTERFACE
Silicon carbide - VITON® (FKM) gasket.

APPLICATION
Mechanical seal with dependent rotation direction (standard with right spring). Adaptable to any type of pump with special performance and for abrasive fluids.

LIMITS OF USE
p = 10 atm - t = -20°C ÷ +180°C - v = 20 m/s
(hot water max 120°C)

DIN 24960 - EN 12756

Articolo Tenuta *Art. Seal*	**d Ø Albero** *Ø Shaft*	**D**	**L Lung. lavoro** *Working length*
RTS.12	12	22.5	18
RTS.14 NEW	14	24.5	22
RTS.15	15	29	22
RST.16	16	29	23
RTS.18	18	32.5	24
RTS.20	20	32.5	25
RTS.22	22	37.5	25
RTS.24	24	37.5	27
RTS.25	25	40	27
RTS.28	28	46	29
RTS.30	30	46	30
RTS.32	32	46	30
RTS.33 NEW	33	46	30
RTS.35 NEW	35	50	39
RTS.38 NEW	38	58	39
RTS.40 NEW	40	58	39

Art. Controfaccia *Art. Counterface*	**d Ø Foro** *d Ø Hole*	**E**	**L_1**
CC6.12	13	23	6.6
CC6.14	15	25	6.6
CC6.15	16	25	6.6
CC6.16	17	27	6.6
CC6.18	19	33	7.5
CC6.20	21	35	7.5
CC6.22	23	37	7.5
CC6.24	25	39	7.5
CC6.25	27	40	7.5
CC6.28	29	43	7.5
CC6.30	31	45	7.5
CC6.32	33	48	7.5
CC6.33	34	48	7.5
CC6.35	36	50	7.5
CC6.38	39	56	10
CC6.40	41	58	10

DIMENSIONI UNIFICATE
DIN 24960 - EN 12756

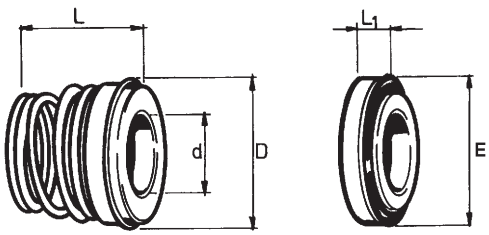
UNIFIED DIMENSIONS
DIN 24960 - EN 12756

TENUTE MECCANICHE IN WIDIA

WIDIA MECHANICAL SEALS

SERIE / *SERIES* **RTW-CTW**





TENUTA
WIDIA - Guarnizioni NBR.

CONTROFACCIA
WIDIA - Guarnizioni NBR.

APPLICAZIONE
Tenuta meccanica a senso di rotazione dipendente (di serie con molla destra). Adattabile su qualsiasi tipo d'elettropompa con prestazione speciale e per liquidi abrasivi.
Si sconsiglia l'utilizzo in bagno d'olio.

LIMITI D'IMPIEGO
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s

SEAL
WIDIA - NBR rubber gaskets.

COUNTERFACE
WIDIA - NBR rubber gaskets.

APPLICATION
Mechanical seal with dependent rotation direction (standard with right spring). Adaptable to any type of pump with special performance and for abrasive fluids.
Use in oil bath is NOT recommended.

LIMITS OF USE
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s

Articolo Tenuta *Art. Seal*	**d** **Ø Albero** *Ø Shaft*	**D**	**L** **Lung. lavoro** *Working length*
RTW.10	10	19.5	15
RTW.12	12	22.5	18
RTW.13	13	24.5	22
RTW.14	14	24.5	22
RTW.15	15	29	22
RTW.16	16	29	23
RTW.17	17	29	23
RTW.18	18	32.5	24
RTW.19	19	32.5	25
RTW.20	20	32.5	25
RTW.22	22	37.5	25
RTW.24	24	37.5	27
RTW.25	25	40	27
RTW.28	28	46	29
RTW.30	30	46	30
RTW.32	32	46	30
RTW.33	33	48	39
RTW.35	35	50	39
RTW.38	38	55	39
RTW.40	40	55	39

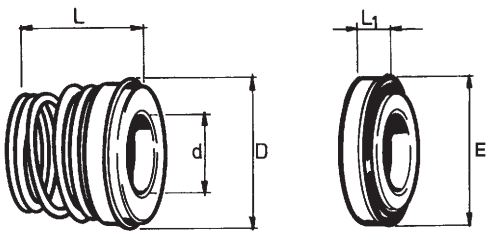
Art. Controfaccia *Art. Counterface*	**d** **Ø Foro** *Ø Hole*	**E**	**L_1**
CTW.10	11	18.1	5.5
CTW.12	13	20.6	5.5
CTW.13	14	23.1	6
CTW.14	15	23.1	6
CTW.15	17	26.9	7
CTW.16	17	26.9	7
CTW.17	18	26.9	7
CTW.18	19	30.9	8
CTW.19	21	30.9	8
CTW.20	21	30.9	8
CTW.22	23	35.4	8
CTW.24	25	35.4	8
CTW.25	27	38.2	8.5
CTW.28	29	43.3	9
CTW.30	31	43.3	9
CTW.32	33	43.3	9
CTW.33	34	53.5	11.5
CTW.35	36	53.5	11.5
CTW.38	39	60.5	11.5
CTW.40	41	60.5	11.5

TENUTE MECCANICHE IN WIDIA

WIDIA MECHANICAL SEALS

SERIE / *SERIES* **RTW-CWD**





TENUTA
WIDIA - Guarnizioni NBR.

CONTROFACCIA
WIDIA - Guarnizioni NBR.

APPLICAZIONE
Tenuta meccanica a senso di rotazione dipendente (di serie con molla destra). Adattabile su qualsiasi tipo d'elettropompa con prestazione speciale e per liquidi abrasivi.
Si sconsiglia l'utilizzo in bagno d'olio.

LIMITI D'IMPIEGO
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s

SEAL
WIDIA - NBR rubber gaskets.

COUNTERFACE
WIDIA - NBR rubber gaskets.

APPLICATION
Mechanical seal with dependent rotation direction (standard with right spring). Adaptable to any type of pump with special performance and for abrasive fluids.
Use in oil bath is NOT recommended.

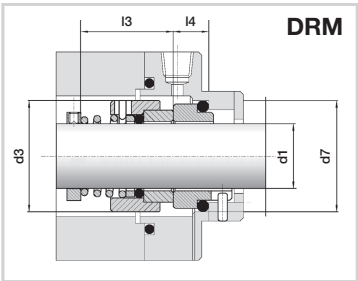
LIMITS OF USE
p = 10 atm - t = -20°C ÷ +90°C - v = 20 m/s

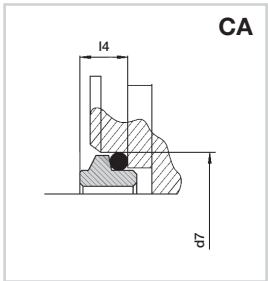
DIN 24960 - EN 12756

Articolo Tenuta *Art. Seal*	**d Ø Albero** *Ø Shaft*	**D**	**L Lung. lavoro** *Working length*
RTW.10	10	19.5	15
RTW.12	12	22.5	18
RTW.14	14	24.5	22
RTW.16	16	29	23
RTW.18	18	32.5	24
RTW.20	20	32.5	25
RTW.22	22	37.5	25
RTW.24	24	37.5	27
RTW.25	25	40	27
RTW.28	28	46	29
RTW.30	30	46	30
RTW.32	32	46	30
RTW.33	33	48	39
RTW.35	35	50	39
RTW.38	38	55	39
RTW.40	40	55	39

Art. Controfaccia *Art. Counterface*	**d Ø Foro** *Ø Hole*	**E**	**L_1**
CWD.10	11	21	7
CWD.12	13	23	7
CWD.14	15	25	7
CWD.16	17	27	7
CWD.18	19	33	10
CWD.20	21	35	10
CWD.22	23	37	10
CWD.24	25	39	10
CWD.25	27	40	10
CWD.28	29	43	10
CWD.30	31	45	10
CWD.32	33	48	10
CWD.33	34	48	10
CWD.35	36	50	10
CWD.38	39	56	13
CWD.40	41	58	13







PER UTILIZZI MEDI E GRAVOSI
FOR MEDIUM AND HEAVY USE

DRM: Tenuta non bilanciata

TENUTA
Carburo di silicio e acciao AISI 316. Guarnizioni in VITON® (FKM).

CONTROFACCIA
Carburo di silicio. Guarnizioni in VITON® (FKM).

SENSO DI ROTAZIONE: Dipendente destra

LIMITI D'IMPIEGO
p = 12 bar - v = 15 m/s - t = -20°C +200°C (acqua calda max 120°C)

DRM: *Unbalanced seal*

SEAL
Silicon-Carbide and AISI 316 steel. VITON® (FKM) gasket.

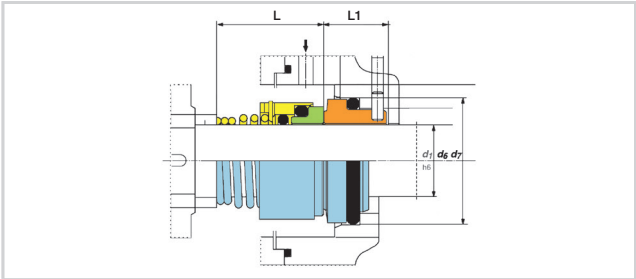
COUNTERFACE
Silicon-Carbide. VITON® (FKM) gasket.

DIRECTION OF ROTATION: *Dependent standard right*

LIMITS OF USE
p = 12 bar - v = 15 m/s - t = -20°C +200°C (hot water max 120°C)

DIN 24960 - EN 12756						
Articolo Tenuta *Art. Seal*	**d1**	**d3**	**l3**	**Art. Controfaccia** *Art. Counterface*	**d7**	**l4**
DRM.20	20	34	23.5	**CA.20**	35	10
DRM.22	22	36	23	**CA.22**	37	10
DRM.24	24	38	25	**CA.24**	39	10
DRM.25	25	39	28	**CA.25**	40	10
DRM.28	28	42	28	**CA.28**	43	10
DRM.30	30	44	28	**CA.30**	45	10
DRM.32	32	46	30	**CA.32**	48	10
DRM.33	33	47	30	**CA.33**	48	10
DRM.35	35	49	30	**CA.35**	50	10
DRM.38	38	54	36.5	**CA.38**	56	11
DRM.40	40	56	39	**CA.40**	58	11
DRM.43	43	59	41.5	**CA.43**	61	11
DRM.45	45	61	42.5	**CA.45**	63	11
DRM.48	48	64	49	**CA.48**	66	11
DRM.50	50	66	47	**CA.50**	70	13
DRM.53	53	69	49	**CA.53**	73	13
DRM.55	55	71	51	**CA.55**	75	13
DRM.58	58	78	57	**CA.58**	78	13
DRM.60	60	80	57	**CA.60**	80	13
DRM.63	63	83	57	**CA.63**	83	13
DRM.65	65	85	57	**CA.65**	85	13
DRM.68	68	88	60	**CA.68**	90	13
DRM.70	70	90	60	**CA.70**	92	15
DRM.75	75	99	65	**CA.75**	97	15
DRM.80	80	104	64	**CA.80**	105	16
DRM.85	85	109	64	**CA.85**	110	16
DRM.90	90	114	69	**CA.90**	115	16
DRM.95	95	119	69	**CA.95**	120	16
DRM.100	100	124	69	**CA.100**	125	16





PER UTILIZZI MEDI E GRAVOSI
FOR MEDIUM AND HEAVY USE

TENUTA
Carburo di silicio e acciaio AISI 316. Guarnizioni in Viton® (FKM).

CONTROFACCE
CAV: Grafite, guarnizioni in Viton® (FKM)
CRS: Silicio, guarnizioni in Viton® (FKM)
CC6: Silicio, guarnizioni in Viton® (FKM) DIN 2490 - EN 12756
CA: Silicio, guarnizioni in Viton® (FKM) DIN 2490 - EN 12756

SEAL
Silicon-Carbide and AISI 316 steel. Viton® (FKM) gaskets.

COUNTERFACE
CAV: Graphite, Viton® (FKM) gasket
CRS: Silicon-carbide, Viton® (FKM) gasket
CC6: Silicon-carbide, Viton® (FKM) gasket DIN 2490 - EN 12756
CA: Silicon-carbide, Viton® (FKM) gasket DIN 2490 - EN 12756

			Grafite, guarnizioni in Viton® (FKM) *Graphite, Viton® (FKM) gasket*				**Silicio, guarnizioni in Viton® (FKM)** *Silicon-carbide, Viton® (FKM) gasket*				**Silicio, guarnizioni in Viton® (FKM)** *Silicon-carbide, Viton® (FKM) gasket*							
											DIN 24960 - EN 12756							
Articolo Tenuta *Article Seal*	**d Ø Albero** *Shaft*	**L**	**Articolo Controfaccia** *Article Counterface*	**d Ø Foro** *Hole*	**E**	**L_1**	**Articolo Controfaccia** *Article Counterface*	**d Ø Foro** *Hole*	**E**	**L_1**	**Articolo Controfaccia** *Article Counterface*	**d Ø Foro** *Hole*	**E**	**L_1**	**Articolo Controfaccia** *Article Counterface*	**d Ø Foro** *Hole*	**E**	**L_1**
R5.12	12	18	**CAV.112**	13	20.6	5.5	**CRS.12**	13	20.6	5.5	**CC6.12**	13	23	6.6	**CA.12**	13	23	7
R5.14	14	22	**CAV.114**	15	23.1	6	**CRS.14**	15	23.1	6	**CC6.14**	15	25	6.6	**CA.14**	15	25	7
R5.16	16	23	**CAV.116**	17	26.9	7	**CRS.16**	17	26.9	7	**CC6.16**	17	27	6.6	**CA.16**	17	27	7
R5.18	18	24	**CAV.118**	19	30.9	8	**CRS.18**	19	30.9	8	**CC6.18**	19	33	7.5	**CA.18**	19	33	7
R5.20	20	25	**CAV.120**	21	30.9	8	**CRS.20**	21	30.9	8	**CC6.20**	21	35	7.5	**CA.20**	20	35	10
R5.22	22	25	**CAV.122**	23	35.4	8	**CRS.22**	23	35.4	8	**CC6.22**	23	37	7.5	**CA.22**	23	37	10
R5.24	24	27	**CAV.124**	25	35.4	8	**CRS.24**	25	35.5	8	**CC6.24**	25	39	7.5	**CA.24**	25	39	10
R5.25	25	27	**CAV.125**	26	38.2	8.5	**CRS.25**	27	38.2	8.5	**CC6.25**	27	40	7.5	**CA.25**	27	40	10
R5.28	28	29	**CAV.130**	31	43.3	9	**CRS.28**	29	43.3	9	**CC6.28**	29	43	7.5	**CA.28**	29	43	10
R5.30	30	30					**CRS.30**	31	43.3	9	**CC6.30**	31	45	7.5	**CA.30**	31	45	10
R5.32	32	30	**CAV.132**	33	43.3	9	**CRS.32**	33	43.3	9	**CC6.32**	33	48	7.5	**CA.32**	33	48	10
R5.33	33	39	**CAV.135**	36	53.5	11.5	**CRS.35**	36	53.5	11.5	**CC6.33**	34	48	7.5	**CA.33**	34	48	10
R5.35	35	39									**CC6.35**	36	50	7.5	**CA.35**	36	50	10
R5.38	38	42	**CAV.140**	41	60.5	11.5	**CRS.40**	41	60.5	11.5	**CC6.38**	39	56	10	**CA.38**	39	56	11
R5.40	40	42									**CC6.40**	41	58	10	**CA.40**	41	58	11
R5.43	43	47	-	-	-	-	-	-	-	-	**CC6.43**	44	61	10	**CA.43**	44	61	11
R5.45	45	47	**CAV.145**	46	65.5	11.5	-	-	-	-	**CC6.45**	46	63	10	**CA.45**	46	63	11
R5.48	48	47	-	-	-	-	-	-	-	-	**CC6.48**	49	66	10	**CA.48**	49	66	11
R5.50	50	46	**CAV.150**	51	72.5	11.5	-	-	-	-	**CC6.50**	51	70	13	**CA.50**	51	70	13

GUARNIZIONI IN VITON® (FKM) / EPDM

(FKM) VITON® / EPDM O-RINGS

SERIE / *SERIES* **AT/TD-TW-TDW**

VITON® (FKM)

IMPIEGHI
Solventi, acidi, idrocarburi (NO acetati, chetoni, eteri)
-30°C +180°C

USES
Solvents, acids, Hydrocarbons (NO acetate, ketone, ether)
-30°C +180°C

TABELLA O-RING VITON®			
AT/TD - TW/TDW			
d Ø Albero *d Ø Shaft*	**Articolo Tenuta** *Article Seal*	**Articolo Controfaccia** *Article Counterface*	**DIN Articolo Controfaccia** *Article Counterface*
12	**ORV.12**	**OFV.12**	**OFDV.12**
13	**ORV.13**	**OFV.13**	**-**
14	**ORV.14**	**OFV.14**	**OFDV.14**
15	**ORV.15**	**OFV.15**	**-**
16	**ORV.16**	**OFV.16**	**OFDV.16**
17	**ORV.17**	**OFV.17**	**-**
18	**ORV.18**	**OFV.18**	**OFDV.18**
19	**ORV.19**	**OFV.19**	**-**
20	**ORV.20**	**OFV.20**	**OFDV.20**
22	**ORV.22**	**OFV.22**	**OFDV.22**
24	**ORV.24**	**OFV.24**	**OFDV.24**
25	**ORV.25**	**OFV.25**	**OFDV.25**
26	**ORV.26**	**OFV.26**	**-**
28	**ORV.28**	**OFV.28**	**OFDV.28**
30	**ORV.30**	**OFV.30**	**OFDV.30**
32	**ORV.32**	**OFV.32**	**OFDV.32**
33	**ORV.33**	**OFV.33**	**OFDV.33**
35	**ORV.35**	**OFV.35**	**OFDV.35**
38	**ORV.38**	**OFV.38**	**OFDV.38**
40	**ORV.40**	**OFV.40**	**OFDV.40**
42	**ORV.42**	**OFV.42**	**-**
43	**ORV.43**	**-**	**OFDV.43**
44	**ORV.44**	**OFV.44**	**-**
45	**ORV.45**	**OFV.45**	**OFDV.45**
48	**ORV.48**	**-**	**OFDV.48**
50	**ORV.50**	**OFV.50**	**OFDV.50**

EPDM

IMPIEGHI
Acqua, acidi, alcoli, acetati, vapori (NO idrocarburi)
-45°C +150°C

USES
Water, acids, alcohol, acetate, vapor (NO hydrocarbons)
-45°C +150°C

TABELLA O-RING EPDM			
AT/TD - TW/TDW			
d Ø Albero *d Ø Shaft*	**Articolo Tenuta** *Article Seal*	**Articolo Controfaccia** *Article Counterface*	**DIN Articolo Controfaccia** *Article Counterface*
12	**ORE.12**	**OFE.12**	**OFDE.12**
13	**-**	**-**	**-**
14	**ORE.14**	**OFE.14**	**OFDE.14**
15	**ORE.15**	**OFE.15**	**-**
16	**ORE.16**	**OFE.16**	**OFDE.16**
17	**ORE.17**	**OFE.17**	**-**
18	**ORE.18**	**OFE.18**	**OFDE.18**
19	**ORE.19**	**OFE.19**	**-**
20	**ORE.20**	**OFE.20**	**OFDE.20**
22	**ORE.22**	**OFE.22**	**OFDE.22**
24	**ORE.24**	**OFE.24**	**OFDE.24**
25	**ORE.25**	**OFE.25**	**OFDE.25**
26	**-**	**-**	**-**
28	**ORE.28**	**OFE.28**	**OFDE.28**
30	**ORE.30**	**OFE.30**	**OFDE.30**
32	**ORE.32**	**OFE.32**	**OFDE.32**
33	**ORE.33**	**-**	**-**
35	**ORE.35**	**OFE.35**	**OFDE.35**
38	**ORE.38**	**OFE.38**	**OFDE.38**
40	**ORE.40**	**OFE.40**	**OFDE.40**
42	**-**	**-**	**-**
-	**-**	**-**	**-**
44	**-**	**-**	**-**
45	**-**	**-**	**-**
-	**-**	**-**	**-**
50	**-**	**-**	**-**

GUARNIZIONI IN VITON® (FKM) / EPDM

(FKM) VITON® / EPDM O-RINGS

SERIE / *SERIES* **RA-RT-RTW**

VITON® (FKM)

IMPIEGHI
Solventi, acidi, idrocarburi (NO acetati, chetoni, eteri)
-30°C +180°C

USES
Solvents, acids, Hydrocarbons (NO acetate, ketone, ether)
-30°C +180°C

TABELLA O-RING VITON®			
RA-RT-RTW			
d Ø Albero *d Ø Shaft*	**Articolo Tenuta** *Article Seal*	**Articolo Tenuta** *Article Seal*	**Articolo Controfaccia** *Article Counterface*
10	**OFV.10**	**ORV.110**	**OFV.10**
12	**OFV.12**	**ORV.12**	**OFV.12**
14	**OFV.14**	**ORV.14**	**OFV.14**
15	**ORV.116**	**ORV.115**	**OFV.15**
16	**ORV.116**	**ORV.16**	**OFV.16**
18	**ORV.26**	**ORV.118**	**OFV.18**
20	**ORV.120**	**ORV.16**	**OFV.20**
22	**OFV.22**	**ORV.22**	**OFV.22**
24	**OFV.24**	**ORV.24**	**OFV.24**
25	**OFV.25**	**ORV.25**	**OFV.25**
28	**OFV.28**	**ORV.28**	**OFV.28**
30	**OFV.30**	**ORV.30**	**OFV.30**
32	**OFV.32**	**ORV.32**	**OFV.32**
35	**OFDV.33**	**ORV.35**	**OFV.35**
38	**ORV.138**	**ORV.238**	**OFV.38**
40	**ORV.40**	**ORV.140**	**OFV.40**

EPDM

IMPIEGHI
Acqua, acidi, alcoli, acetati, vapori (NO idrocarburi)
-45°C +150°C

USES
Water, acids, alcohol, acetate, vapor (NO hydrocarbons)
-45°C +150°C

TABELLA O-RING EPDM			
RA-RT-RTW			
d Ø Albero *d Ø Shaft*	**Articolo Tenuta** *Article Seal*	**Articolo Tenuta** *Article Seal*	**Articolo Controfaccia** *Article Counterface*
-	-	-	-
12	**OFE.12**	**ORE.12**	**OFE.12**
14	**OFE.14**	**ORE.14**	**OFE.14**
15	**OFE.15**	**ORE.115**	**OFE.15**
16	**OFE.17**	**ORE.16**	**OFE.17**
18	**ORE.118**	**ORE.218**	**OFE.20**
20	**OFE.20**	**OFE.17**	**OFE.20**
22	**OFE.24**	**ORE.22**	**OFE.24**
24	**OFE.24**	**ORE.24**	**OFE.24**
25	**OFE.25**	**ORE.25**	**OFE.25**
28	**OFE.32**	**ORE.28**	**OFE.32**
30	**OFE.32**	**ORE.30**	**OFE.32**
32	**OFE.32**	**ORE.32**	**OFE.32**
35	**OFDE.32**	**ORE.35**	**OFE.35**
38	-	-	-
40	**OFE.35**	**ORE.140**	**OFE.40**

TENUTE MECCANICHE TIPO LOWARA

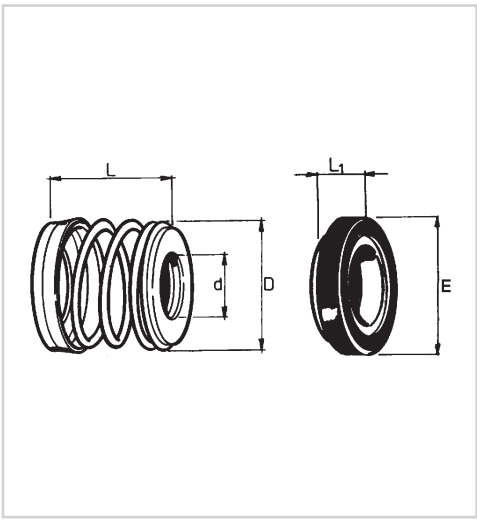
LOWARA MECHANICAL SEALS TYPE

SERIE / *SERIES* **TL**



TENUTA: Acciaio AISI 316 e carbone sintetico. Guarnizioni NBR.
CONTROFACCIA: Allumina - Guarnizioni NBR.
APPLICAZIONE: Tenuta meccanica a senso di rotazione indipendente per impieghi universali.
LIMITI D'IMPIEGO: p = 12 atm - t = -20°C ÷ +90°C - v = 10 m/s

SEAL: *AISI 316 steel and synthetic carbon. NBR rubber gaskets.*
COUNTERFACE: *Alumina - NBR rubber gaskets.*
APPLICATION: *Mechanical seal with independent rotation direction for universal use.*
LIMITS OF USE: *p = 12 atm - t = -20°C ÷ +90°C - v = 10 m/s*



TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

Articolo *Art.*	d Ø Albero *d Ø Shaft*	D	L Lung. lavoro *L Working length*	E	L_1
TL.505	8	22	15.5	26	5.5
TL.506	10	22	15.5	26	5.5
TL.507	11	22	15.5	30	6
TL.508	12	22	15.5	26	5.5
TL.510	13	31	13	29.5	8
TL.511	14	31	13	29.5	8
TL.512	15	31	13	29.5	8
TL.513	16	31	13	29.5	8
TL.519	19	32	13	42	8
TL.514	20	44	13	42	8
TL.515	25	48	17	42	7
TL.516	30	59	22	52	12

TENUTE MECCANICHE TIPO JACUZZI

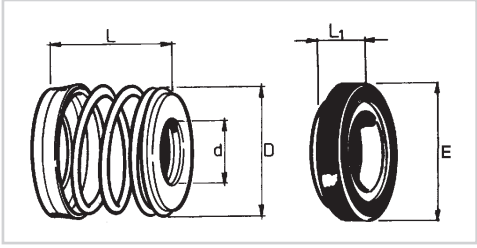
JACUZZI MECHANICAL SEALS TYPE

SERIE / *SERIES* **TJ**



TENUTA: Acciaio AISI 304 e carbone sintetico - Guarnizioni NBR.
CONTROFACCIA: Allumina - Guarnizioni NBR.
APPLICAZIONE: Tenuta meccanica per impieghi universali, a senso di rotazione indipendente.
LIMITI D'IMPIEGO: p = 12 atm - t = -20°C ÷ +90°C - v = 10 m/s

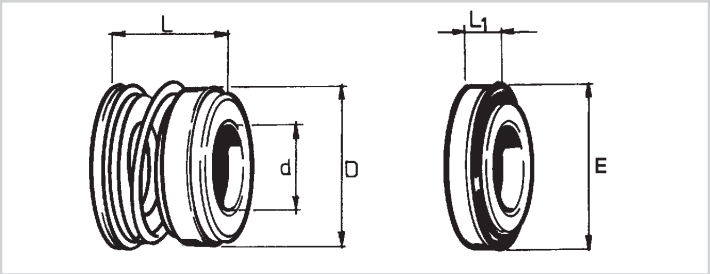
SEAL: *AISI 304 steel and synthetic carbon - NBR rubber gaskets.*
COUNTERFACE: *Alumina - NBR rubber gaskets.*
APPLICATION: *Mechanical seal for universal use with independent rotation direction.*
LIMITS OF USE: *p = 12 atm - t = -20°C ÷ +90°C - v = 10 m/s.*



TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

Articolo *Art.*	d Ø Albero *d Ø Shaft*	D	L Lung. lavoro *L Working length*	E	L_1
TJ.10	19.05	32	22	35	11
TJ.11	25.4	42	27	41.5	11
TJ.12	31.75	52	49	47.6	11





TENUTA
Corpo tenuta in acciaio AISI 304 e carbone sintetico.
Guarnizioni NBR.

CONTROFACCIA
Allumina o acciaio AISI 420 - Guarnizioni NBR.

APPLICAZIONE
Tenuta meccanica a senso di rotazione indipendente.
Adattabile su qualsiasi tipo di pompa d'acqua pulita.

LIMITI D'IMPIEGO
p = 10 atm - t = -20°C ÷ +90°C - v = 10 m/s

SEAL
Seal body in AISI 304 steel and synthetic carbon.
NBR rubber gaskets.

COUNTERFACE
Alumina or AISI 420 stainless steel - NBR rubber gaskets.

APPLICATION
Mechanical seal with independent rotation direction.
Adaptable to any type of water clear pump.

LIMITS OF USE
p = 10 atm - t = -20°C ÷ +90°C - v = 10 m/s

TENUTA COMPLETA DI CONTROFACCIA / *SEAL COMPLETE WITH COUNTERFACE*

Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**D**	**L Lung. lavoro** *L Working length*	**E**	**L_1**
MT.53	11	22	16	20.6	5.5
MT.54	12	22	15.5	20.6	5.5
MT.55	13	27	18	23.1	6
MT.56	14	27	22	23.1	6
MT.57	15	28	18	26.9	7
MT.58	16	28	23	26.9	7
MT.60	18	32	24	30.9	8
MT.61	19	32	25	30.9	8
MT.62	20	32	22	30.9	8
MT.63 *	22	39	25	35.4	8
MT.65 *	25	42	27	38.2	8.5
MT.68 *	30	52	30	43.3	9
MT.72	40	62	39	60.5	11.5
MT.74 •	45	65	41	65.5	11.5

*** CERAMICA** *CERAMIC*

*** IN ESAURIMENTO** *RUNNING OUT*

TENUTE MECCANICHE ADATTABILI

COMPATIBLE MECHANICAL SEALS

SERIE / *SERIES* **TGU-GRW**

GRUNDFOS

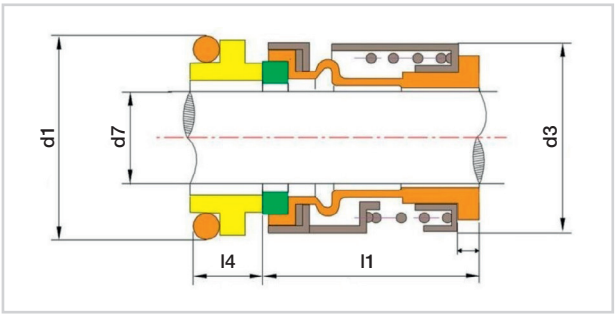


Tenuta e controfaccia in carburo di silicio / Guarnizioni EPDM.
Silicon carbide seal and counterface / EPDM rubber gasket.

LIMITI D'IMPIEGO
p = 10 kg/cm² - v = 10 m/s - t = -40° +150°C

Limits of use
p = 10 kg/cm² - v = 10 m/s - t = -40° +150°C

Per pompe / *For pumps*
STYLE A, STYLE B, STYLE C, CHI, CHIE, CRK, SPK, CR, CRN, DNM, DNP, CLM, LP, LM, NP, NM, TR, TPD&AB.



TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

Articolo *Art.*	d7	d3	l1	d1	l4
TGU.12	12	22	32	23	8
TGU.16	16	26	32	27	7.5

GRUNDFOS / DAB

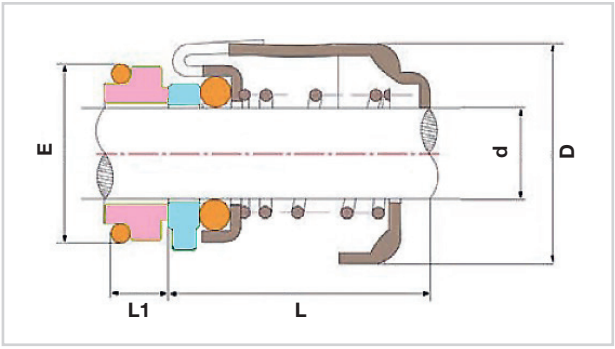


Tenuta e controfaccia Widia / Guarnizioni Viton® (FKM).
Seal and counterface Widia / Rubber gasket Viton® (FKM).

LIMITI D'IMPIEGO
Max 10 Bar / -30° +200°C (120°C in acqua)

Limits of use
Max 10 Bar / -30° +200°C (120°C in the water)

Per pompe / *For pumps*
STYLE A, STYLE B, STYLE C, CHI, CHIE, CRK, SPK, CP, CR, CRN, DNM, DNP, CLP, LP, LM, NP, NM, TP, TPD&AP, CR2, CR4, CRK2, CRK4, SPK2, SPK4, CR(N)8, CR(N)16.



TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

Articolo *Art.*	d	D	L Lung. lavoro *Working length*	E	L_1
GRW.12	12	29.5	43	23.5	8
GRW.16	16	34	52.5	27.6	11.5

GRUNDFOS

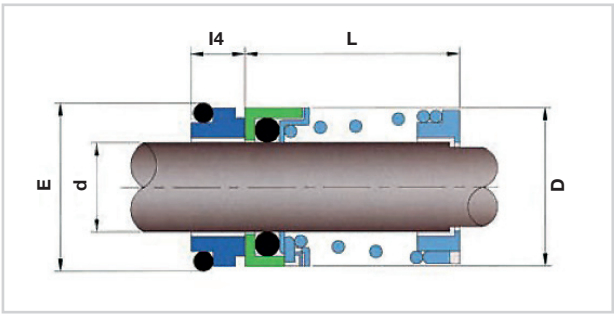


Tenuta e controfaccia Silicio-Grafite / Guarnizioni EPDM.
Seal and Counterface Silicon-Graphite / EPDM rubber gasket.

LIMITI D'IMPIEGO
Max 12 Bar / -40° +140°C

Limits of use
Max 12 Bar / -40° +140°C

Per pompe / *For pumps*
JP, CH8, CH12, CRK(I)2, CRK(I)4, SPK1, SPK2, SPK4, SPK8, CR2, CR4.



TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

Articolo *Art.*	**d**	**D**	**L** **Lung. lavoro** *Working length*	**E**	**L_1**
GRS.12	12	22	36.5	23	8

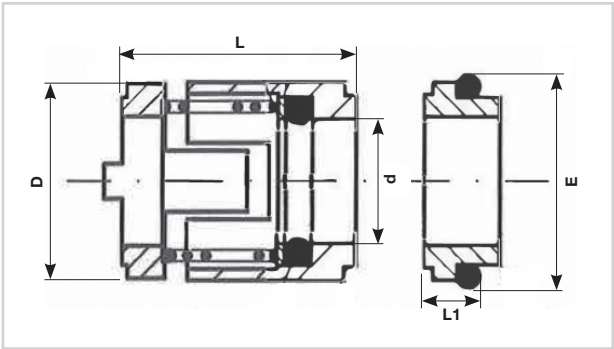
NOCCHI



Tenuta e controfaccia Widia-Grafite / Guarnizioni Viton® (FKM).
Seal and counterface Widia-Graphite / Rubber gasket Viton® (FKM).

LIMITI D'IMPIEGO
Max 10 Bar / -30° +200°C (120°C in acqua)

Limits of use
Max 10 Bar / -30° +200°C (120°C in the water)



TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

Articolo *Art.*	**d**	**D**	**L** **Lung. lavoro** *Working length*	**E**	**L_1**
TN.16	16	26	34	27	7

TENUTE A CARTUCCIA ADATTABILI

COMPATIBLE CARTRIDGE SEALS

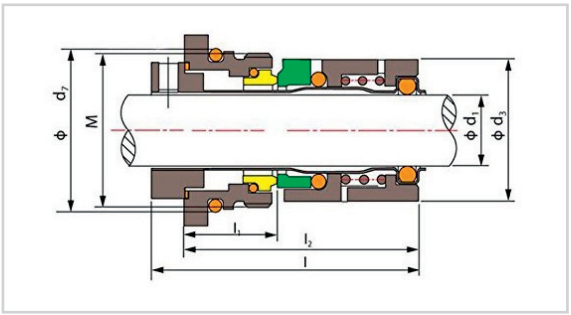
SERIE / *SERIES* **TGE-TGC**



Tenuta e controfaccia in silicio-silicio.
Guarnizioni Viton® (FKM).

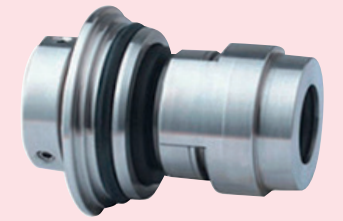
Silicon-silicon seal and counterface.
Rubber gasket Viton® (FKM).

Per pompe / *For pumps*
STYLE A, STYLE MTR, CR1, CR3, CR5, CR10, CR15, CR20, CR32, CR45, CR64, CR90, CRN1, CRN3, CRN5, CRN10, CRN20, CRN32, CRN45, CRN64, CRN90.



TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

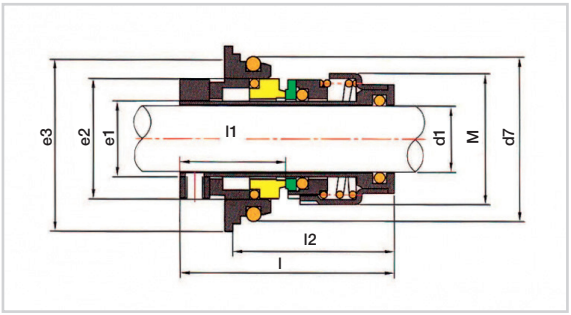
Articolo *Art.*	d1	d7	d3	m	l	l1	l2
TGE.12	12	29	25	28x1.5	55	19	30
TGE.16	16	34	30.5	33x1.5	57.5	20	30.5



Tenuta e controfaccia in silicio-silicio.
Guarnizioni Viton® (FKM).

Silicon-silicon seal and counterface.
Rubber gasket Viton® (FKM).

Per pompe / *For pumps*
STYLE MTR, CR32, CR45, CR64, CR90, CRN32, CRN45, CRN64, CRN90.



TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

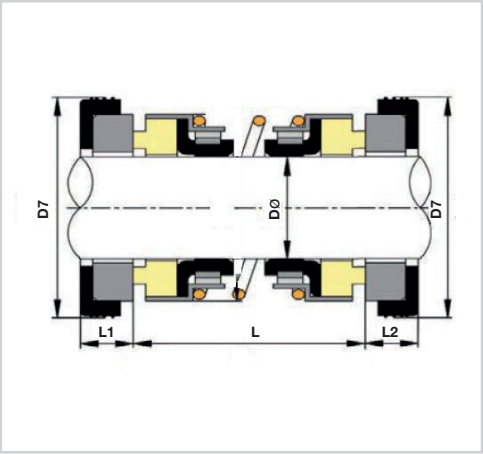
Articolo *Art.*	d1	d7	e1	e2	e3	m	l1	l2	l
TGC.22	22	50	24.5	39	60	42	35	54.5	72

TENUTE MECCANICHE DOPPIE ADATTABILI

COMPATIBLE DOUBLE MECHANICAL SEALS

SERIE / *SERIES* **DTE-DT-DTZ**





TENUTA: Carburo di silicio - Carburo di silicio / Guarnizioni Viton® (FKM).
CONTROFACCIA: Grafite - Ceramica.
APPLICAZIONE: Tenuta doppia a molla cilindrica per liquidi puliti, senso di rotazione indipendente.
LIMITI D'IMPIEGO: Max 10 Bar / -25°C +90°C

SEAL: *Silicon carbide - Silicon carbide / Rubber gasket Viton® (FKM).*
COUNTERFACE: *Graphite - Ceramic.*
APPLICATION: *Double mechanical seal with cylindrical spring for clean liquids, independent rotation.*
LIMITS OF USE: *Max 10 bar / -25°C +90°C*

EBARA

Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**D7**	**L Lung. lavoro** *L Working length*	**L1**	**L2**
DTE.14	14	30	26	5	5
DTE.15	15	30	26	5	5
DTE.16	16	30	26	5	5

ZENITH

Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**D7**	**L Lung. lavoro** *L Working length*	**L1**	**L2**
DTZ.18	18	35.3	31	3.6	3.6

ADATTABILI / *COMPATIBLE*

Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**D7**	**L Lung. lavoro** *L Working length*	**L1**	**L2**
DT.12	12	24.5	37	5	5.5
DT.14	14	28.5	37	6.5	5.5
DT.16	16	28.5	42	7	7
DT.18	18	33.5	38	5	5
DT.20	20	36.5	38	6.5	6.5
DT.30	30	45.5	49	7.5	7.5

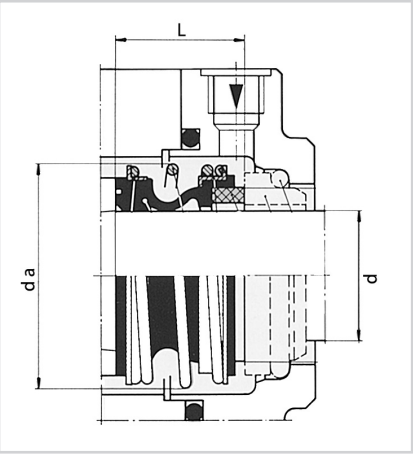
TENUTE ORIGINALI BURGMANN

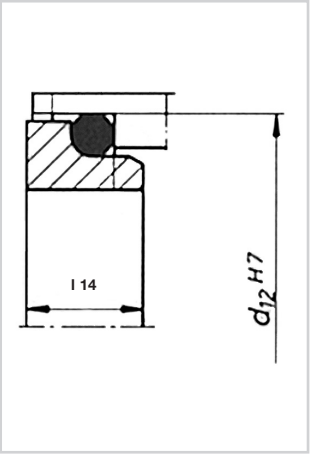
EagleBurgmann

ORIGINAL BURGMANN SEALS

SERIE / *SERIES* **EMG1/G4**







TENUTA
Acciaio AISI 316 e carburo di silicio - Guarnizioni in VITON® (FKM).

CONTROFACCIA
Carburo di silicio - Guarnizioni in VITON® (FKM).

APPLICAZIONE
Tenuta meccanica a senso di rotazione indipendente usata per acqua e acqua sporca.
Temperatura massima 130°C.
Non utilizzare in acidi e prodotti chimici in generale.

SEAL
AISI 316 steel and silicon carbide - VITON® (FKM) gaskets.

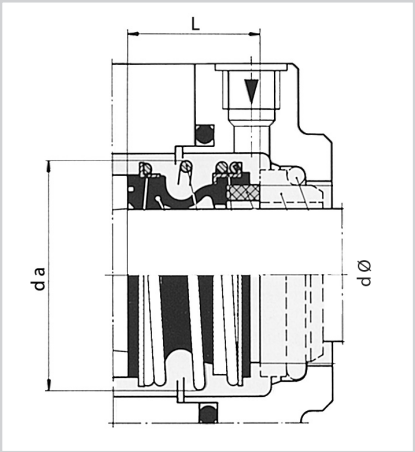
COUNTERFACE
Silicon carbide - VITON® (FKM) gaskets.

APPLICATION
Mechanical seal with independent rotation direction used for water and foul water.
Maximum temperature 130°C.
Do not use in acids or chemicals in general.

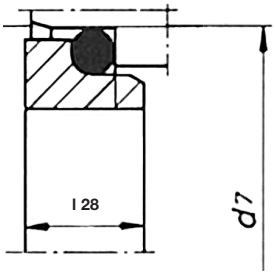
TENUTA COMPLETA DI CONTROFACCIA / *SEAL COMPLETE WITH COUNTERFACE*

Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**da**	**L Lung. lavoro** *L Working length*	**d12**	**l14**
EMG1/12G4	12	25	15	21.6	5.6
EMG1/16G4	16	28.5	17	28	7.5
EMG1/20G4	20	37	21.5	35	7.5
EMG1/24G4	24	42.5	22.5	38	7.5
EMG1/25G4	25	38	23	38	7.5
EMG1/28G4	28	49	26.5	42	9
EMG1/30G4	30	49	26.5	45	10.5
EMG1/35G4	35	57	28.5	52	11
EMG1/40G4	40	62	30	58	12.8





DIN 24960
EN 12756



TENUTA
Acciaio AISI 316 e carburo di silicio - Guarnizioni in VITON® (FKM).

CONTROFACCIA
Carburo di silicio - Guarnizioni in VITON® (FKM).

APPLICAZIONE
Tenuta meccanica a senso di rotazione indipendente usata per acqua e acqua sporca. Temperatura massima 130°C.
Non utilizzare in acidi e prodotti chimici in generale.

N.B. La controfaccia viene fornita di serie con lo stazionario con O-RING. Su richiesta è possibile fornire lo stazionario con cappuccio.

SEAL
AISI 316 steel and silicon carbide - VITON® (FKM) gaskets.

COUNTERFACE
Silicon carbide - VITON® (FKM) gaskets.

APPLICATION
Mechanical seal with independent rotation direction used for water and foul water. Maximum temperature 130°C.
Do not use in acids or chemicals in general.

N.B. *The counterface is supplied standard with the stationary part with O-ring. On request the stationary part can be supplied with cap.*

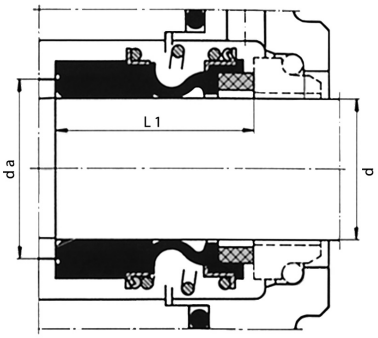
TENUTA COMPLETA DI CONTROFACCIA / *SEAL COMPLETE WITH COUNTERFACE*

Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**da**	**L Lung. lavoro** *L Working length*	**d7**	**l28**
EMG1/16G6	16	28.5	17	27	6.6
EMG1/18G6	18	32	19.5	33	7.5
EMG1/20G6	20	37	21.5	35	7.5
EMG1/22G6	22	37	21.5	37	7.5
EMG1/24G6	24	42.5	22.5	39	7.5
EMG1/25G6	25	42.5	23	40	7.5
EMG1/28G6	28	49	26.5	43	7.5
EMG1/30G6	30	49	26.5	45	7.5
EMG1/32G6	32	53.5	27.5	48	7.5
EMG1/33G6	33	53.5	27.5	48	7.5
EMG1/35G6	35	57	28.5	50	7.5
EMG1/38G6	38	59	30	56	9
EMG1/40G6	40	62	30	58	9

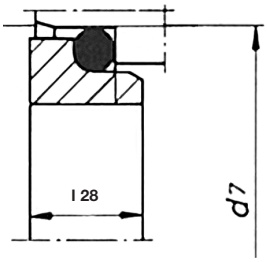
ORIGINAL BURGMANN SEALS

SERIE / *SERIES* **EMG12/G6**





DIN 24960
EN 12756



TENUTA
Acciaio AISI 316 e carburo di silicio - Guarnizioni in VITON® (FKM).

CONTROFACCIA
Carburo di silicio - Guarnizioni in VITON® (FKM).

APPLICAZIONE
Tenuta meccanica a senso di rotazione indipendente usata per acqua e acqua sporca.
Temperatura massima 130°C. Non utilizzare in acidi e prodotti chimici in generale.

N.B. La controfaccia viene fornita di serie con lo stazionario con O-RING. Su richiesta è possibile fornire lo stazionario con cappuccio.

SEAL
AISI 316 steel and silicon carbide - VITON® (FKM) gaskets.

COUNTERFACE
Silicon carbide - VITON® (FKM) gaskets.

APPLICATION
Mechanical seal with independent rotation direction used for water and foul water.
Maximum temperature 130°C. Do not use in acids or chemicals in general.

N.B. *The counterface is supplied standard with the stationary part with O-ring. On request the stationary part can be supplied with cap.*

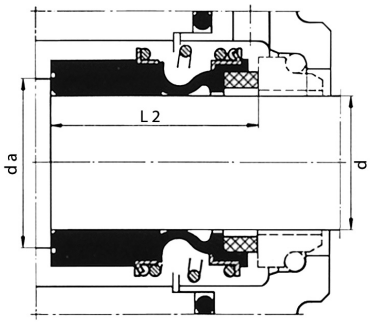
TENUTA COMPLETA DI CONTROFACCIA / *SEAL COMPLETE WITH COUNTERFACE*

Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**da**	**L Lung. lavoro** *L Working length*	**d7**	**l28**
EMG12/16G6	16	28.5	28.4	27	6.6
EMG12/18G6	18	32	30	33	7.5
EMG12/20G6	20	37	30	35	7.5
EMG12/22G6	22	37	30	37	7.5
EMG12/24G6	24	42.5	32.5	39	7.5
EMG12/25G6	25	42.5	32.5	40	7.5
EMG12/28G6	28	49	35	43	7.5
EMG12/30G6	30	49	35	45	7.5
EMG12/32G6	32	53.5	35	48	7.5
EMG12/33G6	33	53.5	35	48	7.5
EMG12/35G6	35	57	35	50	7.5
EMG12/38G6	38	59	36	56	9
EMG12/40G6	40	62	36	58	9

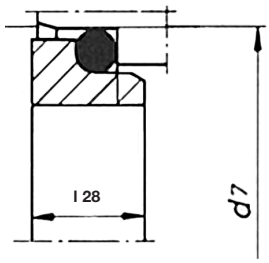
ORIGINAL BURGMANN SEALS

SERIE / *SERIES* **EMG13/G6**





DIN 24960
EN 12756



TENUTA
Acciaio AISI 316 e carburo di silicio - Guarnizioni in VITON® (FKM).

CONTROFACCIA
Carburo di silicio - Guarnizioni in VITON® (FKM).

APPLICAZIONE - Tenuta meccanica a senso di rotazione indipendente usata per acqua e acqua sporca. Temperatura massima 130°C. Non utilizzare in acidi e prodotti chimici in generale.

SEAL
AISI 316 steel and silicon carbide - VITON® (FKM) gaskets.

COUNTERFACE
Silicon carbide - VITON® (FKM) gaskets.

APPLICATION
Mechanical seal with independent rotation direction used for water and foul water. Maximum temperature 130°C. Do not use in acids or chemicals in general.

TENUTA COMPLETA DI CONTROFACCIA / *SEAL COMPLETE WITH COUNTERFACE*

Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**da**	**L Lung. lavoro** *L Working length*	**d7**	**l28**
EMG13/20G6	20	37	37.5	35	7.5
EMG13/25G6	25	42.5	42.5	40	7.5
EMG13/28G6	28	49	42.5	43	7.5
EMG13/38G6	38	59	46.0	56	9

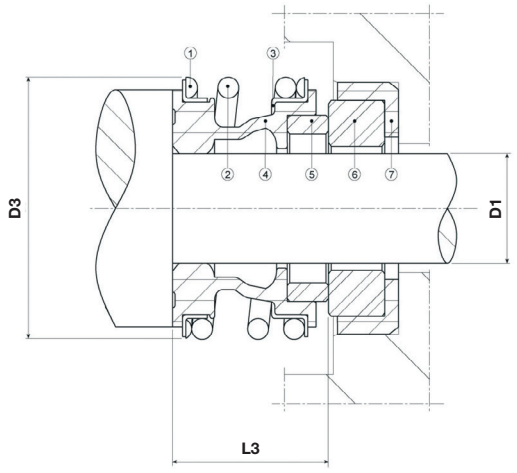
TENUTE MECCANICHE ADATTABILI

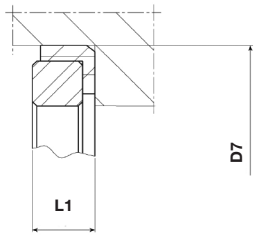
COMPATIBLE MECHANICAL SEALS

SERIE / *SERIES* **FG1CE**









CONTROFACCIA TIPO CGR60
COUNTERFACE TYPE CGR60

INTERCAMBIABILI CON TENUTE ORIGINALI. APPLICABILI PRINCIPALMENTE SU POMPE DELLE SEGUENTI MARCHE: MARELLI, LOWARA, EBARA, PEDROLLO, F.I.P.S., WILO

TENUTA
Grafite. Molla acciaio AISI 316. Guarnizioni in NBR.

CONTROFACCIA
Allumina. Guarnizioni in NBR.

SENSO DI ROTAZIONE
Indipendente

LIMITI D'IMPIEGO
p = 12 bar - v = 10 m/s - t= -30°C +125°C

SUITABLE WITH ORIGINAL SEALS. SUITABLE FOR THE FOLLOWING PUMP BRANDS: MARELLI, LOWARA, EBARA, PEDROLLO, F.I.P.S., WILO

SEAL
Graphite. AISI 316 steel spring. NBR gaskets.

COUNTERFACE
Alumina. NBR gaskets.

DIRECTION OF ROTATION
Independent

LIMITS OF USE
p = 12 bar - v = 10 m/s - t= -30°C +125°C

TENUTA *Seal*				CONTROFACCIA TIPO CGR60 (CUFFIA) *Counterface type CGR60 (cap)*		
Articolo *Art.*	**D1**	**D3**	**L3**	**Articolo** *Art.*	**D7**	**L1**
FG1CE.12A	12	25	15	**CGR60.12A**	23	6.6
FG1CE.12B	12	22	8.3	**CGR60.12B**	24	3.7
FG1CE.14	14	28.5	17	**CGR60.14 ***	25	6.6
FG1CE.15	15	28.5	17	**CGR60.15 ***	25	6.6
FG1CE.16	16	28.5	17	**GR60.16**	27	6.6
FG1CE.17	17	32	19.5	**CGR60.17 ***	33	7.5
FG1CE.18	18	32	19.5			
FG1CE.19	19	36	21.5	**CGR60.19**	35	7.5
FG1CE.20	20	36	21.5	**CGR60.20**	35	7.5
FG1CE.22	22	36	21.5	**CGR60.22**	37	7.5
FG1CE.24	24	41	22.5	**CGR60.24**	39	7.5
FG1CE.25	25	41	23	**CGR60.25**	40	7.5
FG1CE.28	28	49	26.5	**CGR60.28**	43	7.5
FG1CE.30	30	49	26.5	**CGR60.30**	45	7.5
FG1CE.32	32	53.5	27.5	**CGR60.32**	48	7.5
FG1CE.35	35	57	28.5	**CGR60.35**	50	7.5
FG1CE.38	38	59	30	**CGR60.38**	56	9
FG1CE.40	40	62	30	**CGR60.40 ***	58	9
FG1CE.45	45	68	30	**CGR60.45**	63	9
FG1CE.50	50	74	28.5	**CGR60.50**	70	9.5
FG1CE.60	60	88.5	38	**CM60.60 ****	80	11
FG1CE.70	70	99.5	40	**CGR60.70**	92	11.3

*** La controfaccia CGR60.14, CGR60.15, CGR60.17 e CGR60.40 è fornibile SOLO IN SILICIO/NBR.**
Counterface CGR60.14, CGR60.15, CGR60.17 and CGR60.40 can be supplied ONLY in Silicon/NBR.

**** La controfaccia CM60.60 è fornibile SOLO IN SILICIO/VITON® (FKM).**
Counterface art. CM60.60 can be supplied ONLY in Silicon/VITON® (FKM).

TENUTE MECCANICHE ADATTABILI

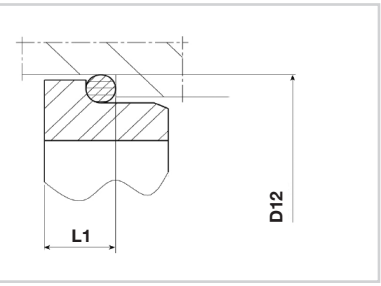
COMPATIBLE MECHANICAL SEALS

SERIE / *SERIES* **FG1**

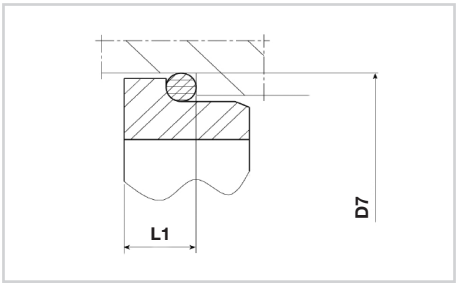




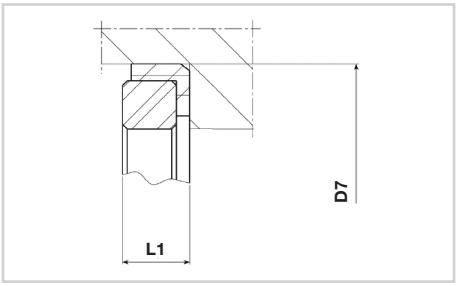




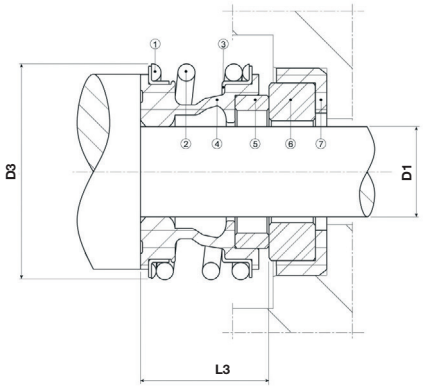
CONTROFACCIA TIPO CS4
COUNTERFACE TYPE CS4



CONTROFACCIA TIPO CC6
COUNTERFACE TYPE CC6



CONTROFACCIA TIPO CM60
COUNTERFACE TYPE CM60



INTERCAMBIABILI CON TENUTE ORIGINALI.
APPLICABILI PRINCIPALMENTE SU POMPE DELLE SEGUENTI MARCHE:
MARELLI, LOWARA, EBARA, PEDROLLO, F.I.P.S., WILO

TENUTA: Carburo di silicio. Molla acciaio AISI 316. Guarnizioni in VITON® (FKM).

CONTROFACCIA: Carburo di silicio. Guarnizioni in VITON® (FKM).

SENSO DI ROTAZIONE: Indipendente

LIMITI D'IMPIEGO
p = 12 bar - v = 10 m/s - t = -30°C +200°C (acqua calda max 120°C)

SUITABLE WITH ORIGINAL SEALS.
SUITABLE FOR THE FOLLOWING PUMP BRANDS:
MARELLI, LOWARA, EBARA, PEDROLLO, F.I.P.S., WILO

SEAL: *Silicon carbide. AISI 316 steel spring. VITON® (FKM) gaskets.*

COUNTERFACE: *Silicon carbide. VITON® (FKM) gaskets.*

DIRECTION OF ROTATION: *Independent*

LIMITS OF USE
p = 12 bar - v = 10 m/s - t = -30°C +200°C (hot water max 120°C)

DELL'ERBA

TENUTA *Seal*				CONTROFACCIA TIPO CS4 (O-RING) *Counterface type CS4 (o-ring)*			CONTROFACCIA TIPO CC6 (O-RING) CON MISURE DI MONTAGGIO DIN 24960 - EN 12756 *Counterface type CC6 (o-ring) with DIN 24960 EN 12756 sizes*			CONTROFACCIA TIPO CM60 (CUFFIA) CON MISURE DI MONTAGGIO DIN 24960 - EN 12756 *Counterface type CM60 (cap) with DIN 24960 EN 12756 sizes*		
Articolo *Art.*	**D1**	**D3**	**L3**	**Articolo** *Art.*	**D12**	**L1**	**Articolo** *Art.*	**D7**	**L1**	**Articolo** *Art.*	**D7**	**L1**
FG1.12	12	25.5	15	**CS4.12**	21.6	5.6	**CC6.12**	23	6.6	**CM60.12**	23	6.6
FG1.14	14	28.5	17	**CS4.14**	24.6	6.6	**CC6.14**	25	6.6	**CM60.14**	25	6.6
FG1.15	15	28.5	17	**CS4.15**	24.6	6.6	**CC6.15**	25	6.6	**CM60.15**	25	6.6
FG1.16	16	28.5	17	**CS4.16**	28	7.5	**CC6.16**	27	6.6	**CM60.16**	27	6.6
FG1.18	18	32	19.5	**CS4.18**	30	8	**CC6.18**	33	7.5	**CM60.18**	33	7.5
FG1.20	20	36	21.5	**CS4.20**	35	7.5	**CC6.20**	35	7.5	**CM60.20**	35	7.5
FG1.22	22	36	21.5	**CS4.22**	35	7.5	**CC6.22**	37	7.5	**CM60.22**	37	7.5
FG1.24	24	41	22.5	**CS4.24**	38	7.5	**CC6.24**	39	7.5	**CM60.24**	39	7.5
FG1.25	25	41	23	**CS4.25**	38	7.5	**CC6.25**	40	7.5	**CM60.25**	40	7.5
FG1.28	28	49	26.5	**CS4.28**	42	9	**CC6.28**	43	7.5	**CM60.28**	43	7.5
FG1.30	30	49	26.5	**CS4.30**	45	10.5	**CC6.30**	45	7.5	**CM60.30**	45	7.5
FG1.32	32	53.5	27.5	**CS4.32**	48	10.5	**CC6.32**	48	7.5	**CM60.32**	48	7.5
FG1.33	33	53.5	27.5	**CS4.33**	50	10.5	**CC6.33**	48	7.5	**CM60.33**	48	7.5
FG1.35	35	57	28.5	**CS4.35**	52	11	**CC6.35**	50	7.5	**CM60.35**	50	7.5
FG1.38	38	59	30	**CS4.38**	55	10.3	**CC6.38**	56	9.0	**CM60.38**	56	9.0
FG1.40	40	62	30	**CS4.40**	58	10.8	**CC6.40**	58	9.0	**CM60.40**	58	9.0
FG1.43	43	65.5	30	**CS4.43**	62	11.6	**CC6.43**	61	9.0	**CM60.43**	61	9.0
FG1.45	45	68	30	**CS4.45**	64	11.6	**CC6.45**	63	9.0	**CM60.45**	63	9.0
FG1.48	48	70.5	30.5	**CS4.48**	68.4	11.6	**CC6.48**	66	9.0	**CM60.48**	66	9.0
FG1.50	50	74	30.5	**CS4.50**	69.3	11.6	**CC6.50**	70	9.5	**CM60.50**	70	9.5
FG1.53	53	78.5	33	**CS4.53**	72.3	12.3	**CC6.53**	73	11.0	**CM60.53**	73	11.0
FG1.55	55	81	35	**CS4.55**	75.4	13.3	**CC6.55**	75	11.0	**CM60.55**	75	11.0
FG1.60	60	88.5	38	**CS4.60**	80.4	13.3	**CC6.60**	80	11.0	**CM60.60**	80	11.0
FG1.65	65	93.5	40	**CS4.65**	85.4	13	**CC6.65**	85	11.0	**CM60.65**	85	11.0
FG1.70	70	99.5	40	**CS4.70**	92	13	**CC6.70**	92	11.3	**CM60.70**	92	11.3
FG1.75	75	107	40	**CS4.75**	99	14.8	**CC6.75**	97	11.3	**CM60.75**	97	11.3
FG1.80	80	112	40	**CS4.80**	104	14.8	**CC6.80**	105	12.0	**CM60.80**	105	12.0
FG1.90	90	127	45	**CS4.90**	114	14.8	**CC6.90**	115	14.0	**CM60.90**	115	14.0
FG1.100	100	137	47	**CS4.100**	123.3	15.8	**CC6.100**	125	14.0	**CM60.100**	125	14.0

Su richiesta è possibile fornire tenute con diametri diversi da quelli illustrati.
Seals with different diameters from those listed can be supplied on request.

TENUTE MECCANICHE ADATTABILI

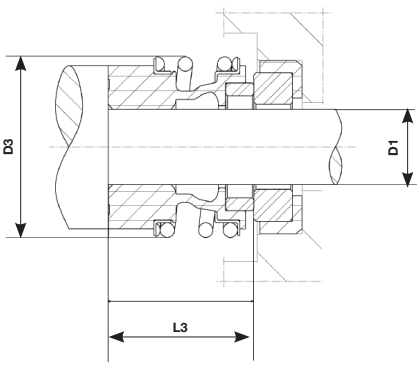
COMPATIBLE MECHANICAL SEALS

SERIE / *SERIES* **FG2**









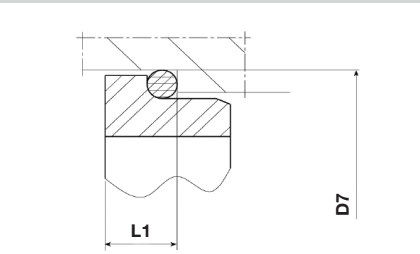
INTERCAMBIABILI CON TENUTE ORIGINALI.
APPLICABILI PRINCIPALMENTE SU POMPE DELLE SEGUENTI MARCHE: ROBUSCHI, F.I.P.

TENUTA
Carburo di silicio. Molla acciaio AISI 316. Guarnizioni in VITON® (FKM).

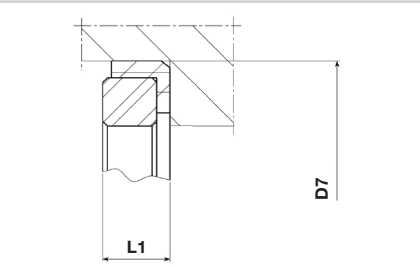
CONTROFACCIA
Carburo di silicio. Guarnizioni in VITON® (FKM).

SENSO DI ROTAZIONE
Indipendente

LIMITI D'IMPIEGO
p = 12 bar - v = 10 m/s - t = -30°C +200°C (acqua calda max 120°C)



CONTROFACCIA TIPO CC6/CS4
COUNTERFACE TYPE CC6/CS4



CONTROFACCIA TIPO CM60
COUNTERFACE TYPE CM60

SUITABLE WITH ORIGINAL SEALS.
SUITABLE FOR THE FOLLOWING PUMP BRANDS: ROBUSCHI, F.I.P.

SEAL
Silicon carbide. AISI 316 steel spring. VITON® (FKM) gaskets.

COUNTERFACE
Silicon carbide. VITON® (FKM) gaskets.

DIRECTION OF ROTATION
Independent

LIMITS OF USE
p = 12 bar - v = 10 m/s - t = -30°C +200°C (hot water max 120°C)

TENUTA *Seal*				CONTROFACCIA TIPO CS4 (O-RING) *Counterface type CS4 (o-ring)*			CONTROFACCIA TIPO CC6 (O-RING) CON MISURE DI MONTAGGIO DIN 24960 - EN 12756 *Counterface type CC6 (o-ring) with DIN 24960 EN 12756 sizes*			CONTROFACCIA TIPO CM60 (CUFFIA) CON MISURE DI MONTAGGIO DIN 24960 - EN 12756 *Counterface type CM60 (cap) with DIN 24960 EN 12756 sizes*		
Articolo *Art.*	**D1**	**D3**	**L3**	**Articolo** *Art.*	**D12**	**L1**	**Articolo** *Art.*	**D7**	**L1**	**Articolo** *Art.*	**D7**	**L1**
FG2.12	12	25.5	25.9	**CS4.12**	21.6	5.6	**CC6.12**	23	6.6	**CM60.12**	23	6.6
FG2.14	14	28	28.4	**CS4.14**	24.6	6.6	**CC6.14**	25	6.6	**CM60.14**	25	6.6
FG2.15	15	28.5	28.4	**CS4.15**	24.6	6.6	**CC6.15**	25	6.6	**CM60.15**	25	6.6
FG2.16	16	28.5	28.4	**CS4.16**	28	7.5	**CC6.16**	27	6.6	**CM60.16**	27	6.6
FG2.18	18	32	30	**CS4.18**	30	8	**CC6.18**	33	7.5	**CM60.18**	33	7.5
FG2.20	20	36	30	**CS4.20**	35	7.5	**CC6.20**	35	7.5	**CM60.20**	35	7.5
FG2.22	22	36	30	**CS4.22**	35	7.5	**CC6.22**	37	7.5	**CM60.22**	37	7.5
FG2.24	24	41	32.5	**CS4.24**	38	7.5	**CC6.24**	39	7.5	**CM60.24**	39	7.5
FG2.25	25	41	32.5	**CS4.25**	38	7.5	**CC6.25**	40	7.5	**CM60.25**	40	7.5
FG2.28	28	49	35	**CS4.28**	42	9	**CC6.28**	43	7.5	**CM60.28**	43	7.5
FG2.30	30	49	35	**CS4.30**	45	10.5	**CC6.30**	45	7.5	**CM60.30**	45	7.5
FG2.32	32	53.5	35	**CS4.32**	48	10.5	**CC6.32**	48	7.5	**CM60.32**	48	7.5
FG2.33	33	53.5	35	**CS4.33**	50	10.5	**CC6.33**	48	7.5	**CM60.33**	48	7.5
FG2.35	35	57	35	**CS4.35**	52	11	**CC6.35**	50	7.5	**CM60.35**	50	7.5
FG2.38	38	59	36	**CS4.38**	55	10.3	**CC6.38**	56	9.0	**CM60.38**	56	9.0
FG2.40	40	62	36	**CS4.40**	58	10.8	**CC6.40**	58	9.0	**CM60.40**	58	9.0
FG2.43	43	65.5	36	**CS4.43**	62	11.6	**CC6.43**	61	9.0	**CM60.43**	61	9.0
FG2.45	45	68	36	**CS4.45**	64	11.6	**CC6.45**	63	9.0	**CM60.45**	63	9.0
FG2.48	48	70.5	36	**CS4.48**	68.4	11.6	**CC6.48**	66	9.0	**CM60.48**	66	9.0
FG2.50	50	74	38	**CS4.50**	69.3	11.6	**CC6.50**	70	9.5	**CM60.50**	70	9.5
FG2.53	53	78.5	36.5	**CS4.53**	72.3	12.3	**CC6.53**	73	11.0	**CM60.53**	73	11.0
FG2.55	55	81	36.5	**CS4.55**	75.4	13.3	**CC6.55**	75	11.0	**CM60.55**	75	11.0
FG2.60	60	88.5	41.5	**CS4.60**	80.4	13.3	**CC6.60**	80	11.0	**CM60.60**	80	11.0
FG2.65	65	93.5	41.5	**CS4.65**	85.4	13	**CC6.65**	85	11.0	**CM60.65**	85	11.0
FG2.70	70	99.5	48.7	**CS4.70**	92	13	**CC6.70**	92	11.3	**CM60.70**	92	11.3

Su richiesta è possibile fornire tenute con diametri diversi da quelli illustrati.
Seals with different diameters from those listed can be supplied on request.

TENUTE MECCANICHE ADATTABILI SU POMPE KSB

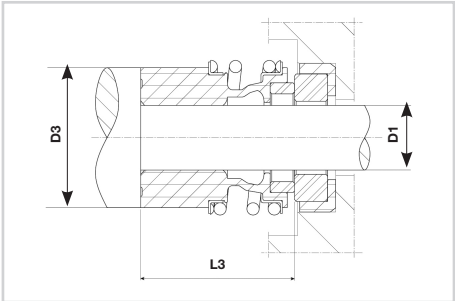
COMPATIBLE MECHANICAL SEALS FOR KSB PUMPS

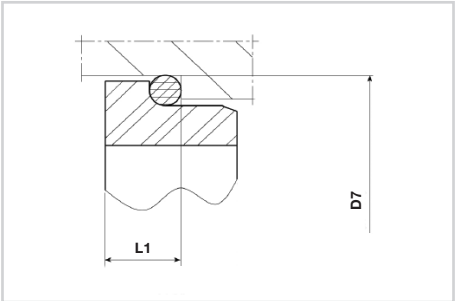
SERIE / *SERIES* **FG3-CS4-CC6-CM60**



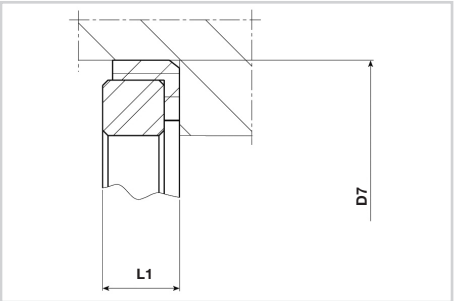








CONTROFACCIA TIPO CC6/CS4
COUNTERFACE TYPE CC6/CS4



CONTROFACCIA TIPO CM60
COUNTERFACE TYPE CM60

TENUTA
Carburo di silicio, FG3.28G e FG3.38G grafite. Molla acciaio AISI 316. Guarnizioni in VITON® (FKM).
CONTROFACCIA: Carburo di silicio. Guarnizioni in VITON® (FKM).
SENSO DI ROTAZIONE: Indipendente
LIMITI D'IMPIEGO: p = 12 bar - v = 10 m/s - t = -30°C +200°C (acqua calda max 120°C)

SEAL
Silicon carbide, FG3.28G and FG3.38G graphite. AISI 316 steel spring. VITON® (FKM) gaskets.
COUNTERFACE: *Silicon carbide. VITON® (FKM) gaskets.*
DIRECTION OF ROTATION: *Independent*
LIMITS OF USE: *p = 12 bar - v = 10 m/s - t = -30°C +200°C (hot water max 120°C)*

TENUTA *Seal*				**CONTROFACCIA TIPO CS4 (O-RING)** *Counterface type CS4 (o-ring)*			**CONTROFACCIA TIPO CC6 (O-RING) CON MISURE DI MONTAGGIO DIN 24960 - EN 12756** *Counterface type CC6 (o-ring) with DIN 24960 EN 12756 sizes*			**CONTROFACCIA TIPO CM60 (CUFFIA) CON MISURE DI MONTAGGIO DIN 24960 - EN 12756** *Counterface type CM60 (cap) with DIN 24960 EN 12756 sizes*		
Articolo *Art.*	**D1**	**D2**	**L3**	**Articolo** *Art.*	**D7**	**L1**	**Articolo** *Art.*	**D7**	**L1**	**Articolo** *Art.*	**D7**	**L1**
FG3.20	20	36	37.5	**CS4.20**	35	7.5	**CC6.20**	35	7.5	**CM60.20**	35	7.5
FG3.25	25	41	42.5	**CS4.25**	38	7.5	**CC6.25**	40	7.5	**CM60.25**	40	7.5
FG3.28	28	49	42.5	**CS4.28**	42	9	**CC6.28**	43	7.5	**CM60.28**	43	7.5
FG3.28G	28	49	42.5									
FG3.38	38	59	46	**CS4.38**	55	10.3	**CC6.38**	56	9	**CM60.38**	56	9
FG3.38G	38	59	46									
FG3.48	48	70.5	51	**CS4.48**	68.4	11.6	**CC6.48**	66	9	**CM60.48**	66	9

TENUTE MECCANICHE ADATTABILI SU POMPE WILO

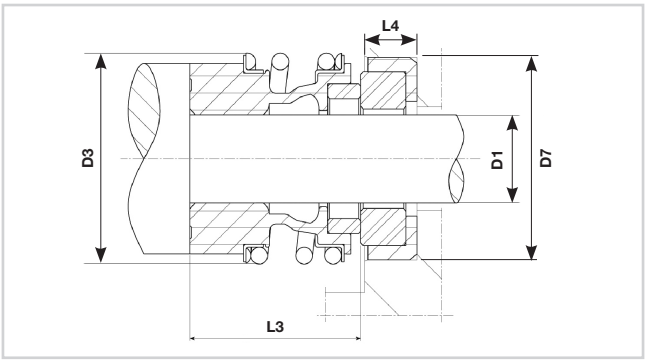
COMPATIBLE MECHANICAL SEALS FOR WILO PUMPS

SERIE / *SERIES* **TTO**



TENUTA: Grafite impregnata antimonio. Molla acciaio AISI 316. Guarnizioni EPDM.
CONTROFACCIA: Carburo di silicio.
SENSO DI ROTAZIONE: Indipendente
APPLICAZIONE: Tenuta meccanica usata per acqua e acqua leggermente sporca. Temperatura massima 140°C.

SEAL: *Graphite impregnate antimony. AISI 316 steel spring. EPDM gaskets.*
COUNTERFACE: *Silicon carbide.*
DIRECTION OF ROTATION: *Independent*
APPLICATION: *Mechanical seal used for water and slightly dirty water. Maximum temperature 140°C.*



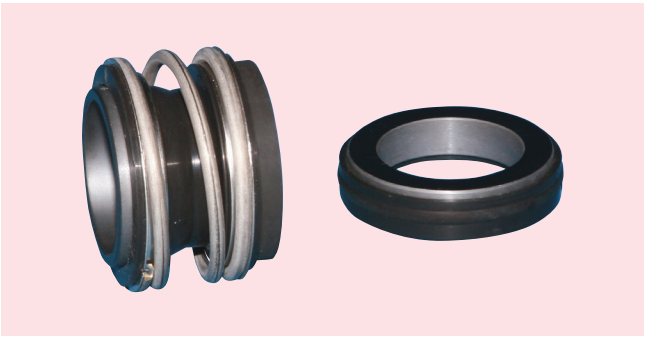
TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

Articolo *Art.*	D1	D3	L3	D7	L4
TTO.17	17	32	19.5	33	7.5
TTO.24	24	41	32.5	39	7.5
TTO.32	32	53.5	33	50.8	12
TTO.43	43	63	36	61	9
TTO.55	55	78	41	76.2	13.5

TENUTE MECCANICHE ADATTABILI PER POMPE ABS

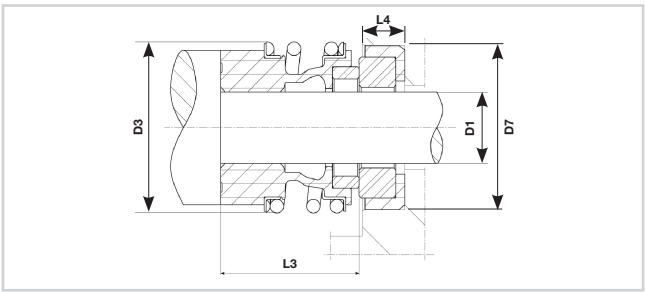
COMPATIBLE MECHANICAL SEALS FOR ABS PUMPS

SERIE / *SERIES* **MG1S**



TENUTA: Carburo di silicio. Molla acciaio AISI 316. Guarnizioni NBR.
CONTROFACCIA: Carburo di silicio.
SENSO DI ROTAZIONE: Indipendente
APPLICAZIONE: Tenuta meccanica usata per acqua e acqua leggermente sporca. Temperatura massima 90°C.

SEAL: *Silicon carbide. AISI 316 steel spring. NBR rubber gaskets.*
COUNTERFACE: *Silicon carbide.*
DIRECTION OF ROTATION: *Independent*
APPLICATION: *Mechanical seal used for water and slightly dirty water. Maximum temperature 90°C.*



TENUTA COMPLETA DI CONTROFACCIA
SEAL COMPLETE WITH COUNTERFACE

Articolo *Art.*	D1	D3	L3	D7	L4
MG1S.525	25	42.5	23	40.5	8
MG1S.530	30	49	24.5	50.8	9.1

TENUTE MECCANICHE ADATTABILI PER POMPE FLYGT

COMPATIBLE MECHANICAL SEALS WITH FLYGT PUMPS







TENUTE ADATTABILI SU QUALSIASI MODELLO DI POMPA FLYGT
COMPATIBLE MECHANICAL SEALS TO ANY FORM OF PUMP FLYGT

Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**Materiali** *Materials*	**Modello** *Model*
FL.01S	20	WIDIA/WIDIA/VITON	2024, 206, 2075, 2101, 3080 superiore / *upper*
FL.01I	20	WIDIA/WIDIA/VITON	2024, 206, 2075, 2101, 3080 inferiore / *lower*
FL.02S	20	WIDIA/WIDIA/VITON	3065 superiore / *upper*
FL.02I	20	WIDIA/WIDIA/VITON	3065 inferiore / *lower*
FL.03S	22	WIDIA/WIDIA/VITON	2070, 2102.040, 3080 superiore / *upper*
FL.03I	22	WIDIA/WIDIA/VITON	2070, 2102.040, 3080 inferiore / *lower*
FL.04S	22	WIDIA/WIDIA/VITON	2040, 2102.220, 2102.041, 2102.210, 2071 superiore / *upper*
FL.04I	22	WIDIA/WIDIA/VITON	2040, 2102.220, 2102.041, 2102.210, 2071 inferiore / *lower*
FL.05S	28	WIDIA/WIDIA/VITON	2082, 2090, 2125, 2140 superiore / *upper*
FL.05I	28	WIDIA/WIDIA/VITON	2082, 2090, 2125, 2140 inferiore / *lower*
FL.06S	28	WIDIA/WIDIA/VITON	3101 superiore / *upper*
FL.06I	28	WIDIA/WIDIA/VITON	3101 inferiore / *lower*
FL.07S	35	WIDIA/WIDIA/VITON	2151.010, 3126.090, 3126.180 superiore / *upper*
FL.07I	35	WIDIA/WIDIA/VITON	2151.010, 3126.090, 3126.180 inferiore / *lower*
FL.08S	35	WIDIA/WIDIA/VITON	2084 superiore / *upper*
FL.08I	35	WIDIA/WIDIA/VITON	2084 inferiore / *lower*
FL.09S	35	WIDIA/WIDIA/VITON	2135, 2151.011, 2151.050 superiore / *upper*
FL.09I	35	WIDIA/WIDIA/VITON	2135, 2151.011, 2151.050 inferiore / *lower*
FL.10S	20	CERAMICA/GRAFITE/VITON CERAMIC/GRAPHITE/VITON	2060, 3041.281, 3060, 3067.170, 3067.250, 3068, 3082.120, 3085.170, 3085.180, 3085.890 superiore / *upper*

TENUTE MECCANICHE ADATTABILI PER POMPE FLYGT

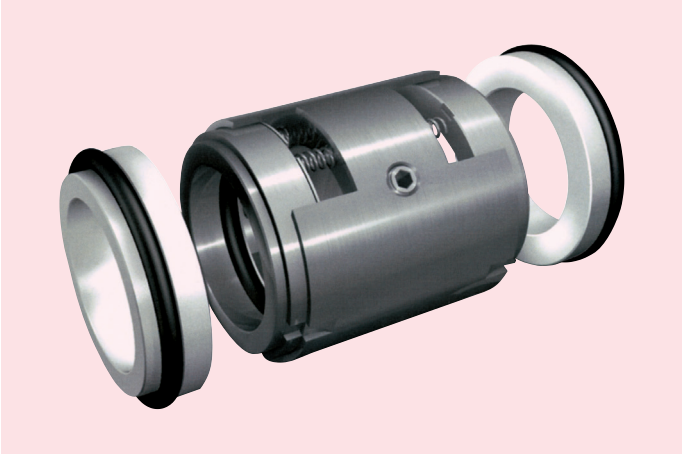
COMPATIBLE MECHANICAL SEALS WITH FLYGT PUMPS

TENUTE ADATTABILI SU QUALSIASI MODELLO DI POMPA FLYGT
COMPATIBLE MECHANICAL SEALS TO ANY FORM OF PUMP FLYGT

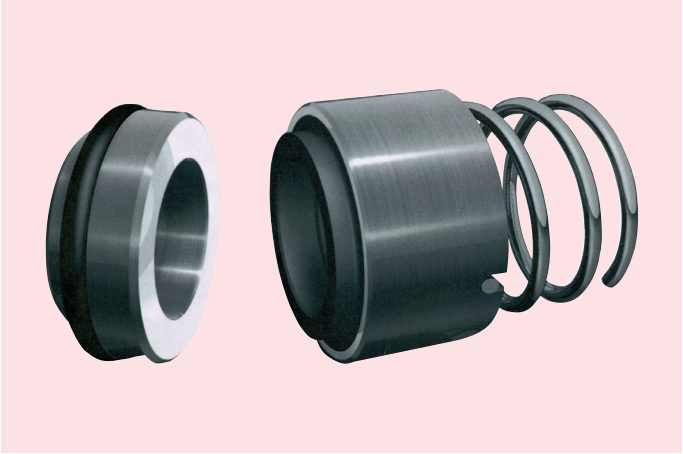
Articolo *Art.*	**d Ø Albero** *d Ø Shaft*	**Materiali** *Materials*	**Modello** *Model*
FL.10I	20	WIDIA/WIDIA/VITON	2060, 3041.281, 3060, 3067.170, 3067.250, 3068, 3082.120, 3085.170, 3085.180, 3085.890 inferiore / *lower*
FL.11S	25	CERAMICA/GRAFITE/VITON CERAMIC/GRAPHITE/VITON	3102 superiore / *upper*
FL.11I	25	CERAMICA/GRAFITE/VITON CERAMIC/GRAPHITE/VITON	3102 inferiore / *lower*
FL.12S	35	WIDIA/WIDIA/VITON	3129.091, 3129.280, 3126.290, 3129.181 superiore / *upper*
FL.12I	35	WIDIA/WIDIA/VITON	3129.091, 3129.280, 3126.290, 3129.181 inferiore / *lower*
FL.13S	35	WIDIA/WIDIA/VITON	3127, 4440, 5530 superiore / *upper*
FL.13I	35	WIDIA/WIDIA/VITON	3127, 4440, 5530 inferiore / *lower*
FL.14S	45	WIDIA/WIDIA/VITON	2201.011 LT / 3152 / 3140 superiore / *upper*
FL.14I	45	WIDIA/WIDIA/VITON	2201.011 LT / 3152 / 3140 inferiore / *lower*
FL.15	45	WIDIA/WIDIA/VITON	DOUBLE CARTRIDGE MECHANICAL SEAL MTM 4650/4660
FL.16S	60	WIDIA/WIDIA/VITON	2250, 2290, 3200 superiore / *upper*
FL.16I	60	WIDIA/WIDIA/VITON	2250, 2290, 3200 inferiore / *lower*
FL.17S	60	WIDIA/WIDIA/VITON	600, 3201, 3170 superiore / *upper*
FL.17I	60	WIDIA/WIDIA/VITON	600, 3201, 3170 inferiore / *lower*
FL.18	60	WIDIA/WIDIA/VITON	DOUBLE CARTRIDGE MECHANICAL SEAL MTM4670, 4680,7045
FL.19S	90	WIDIA/WIDIA/VITON	3230, 3305, 3355, 3357, 3231, 3306, 3300, 3356, 7050, 7051, 7060, 7075.680, 7061, 7080 superiore / *upper*
FL.19I	80	WIDIA/WIDIA/VITON	3230, 3305, 3355, 3357, 3231, 3306, 3300, 3356, 7050, 7051, 7060, 7075.680, 7061, 7080 inferiore / *lower*
FL.20	20	WIDIA/WIDIA/VITON WIDIA/CERAMICA/VITON WIDIA/CERAMIC/VITON	DOUBLE CARTRIDGE MECHANICAL SEAL MTM4610, 4620, 2610, 2620
FL.21	25	SILICIO/SILICIO/VITON SILICON CARBIDE/SILICON CARBIDE/VITON WIDIA/CERAMICA/VITON WIDIA/CERAMIC/VITON	DOUBLE CARTRIDGE MECHANICAL SEAL MTM4630, 4640, 2660
FL.22	35	WIDIA/WIDIA/VITON	DOUBLE CARTRIDGE MECHANICAL SEAL MTM2670, 3153, 5100.210, 5100.220, 5100.221, 5100.211
FL.23	45	WIDIA/WIDIA/VITON	DOUBLE CARTRIDGE MECHANICAL SEAL MTM4650, 4660, 3171, 5100.250, 5100.251, 5100.260, 5100.261
FL.24	60	WIDIA/WIDIA/VITON	DOUBLE CARTRIDGE MECHANICAL SEAL MTM4670, 4680, 3202, 51.300, 5100.310, 5150.300, 5150.310

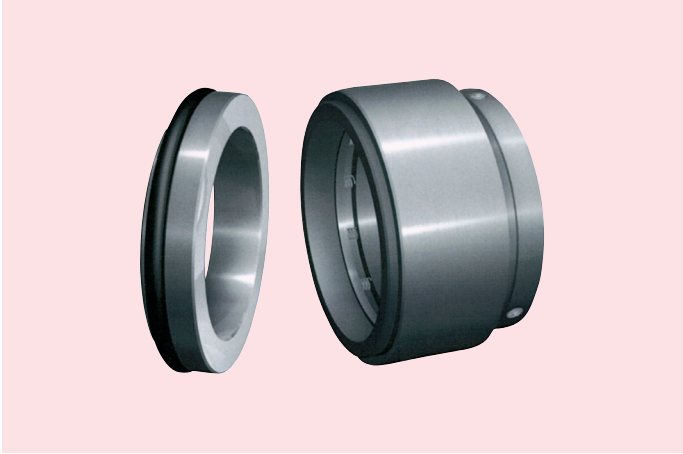
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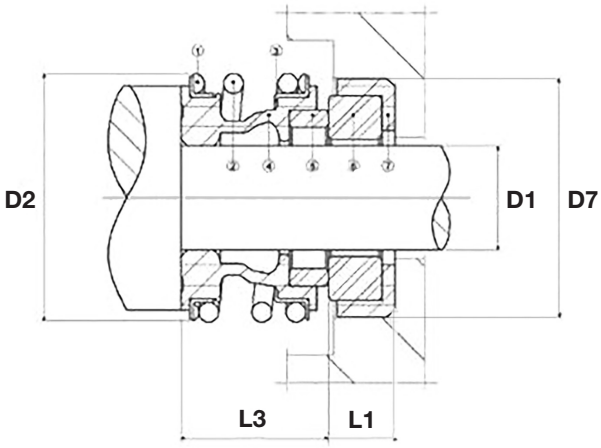
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