



TRANSFLUID

trasmissioni industriali



drive with us

RBD
ELASTIC COUPLINGS

RBD COUPLINGS

FEATURES

The RBD drives are designed for use with industrial engines in stationary applications such as generators, pumps and compressor sets; and in mobile applications like fork lift trucks and earth moving equipment. RBD drives have many advantages: ease of assembly, weight and size, small axial profile and competitive price. Drives are supplied with standard SAE flanges for ease of installation.

TRANSMISSION DRIVE

Couplings can be provided:

- with or without hub
- with spline or keyway (min. q.ty required)
- with conical locking coupling (standard)
- with housing for hydrostatic drives

TECHNICAL CONSTRUCTION

The drive principle uses internal and external teeth; the difference being that the external teeth are blocks of special rubber molded compound.

By changing the rubber compound, various torques can be transmitted.

The external aluminum ring, has a profile corresponding to the rubber molded compound and can be directly mounted on the output flange of the prime mover, allowing it to absorb small angular and radial misalignments.

SELECTION ¹⁾

$T_{KN} > T_{LN} \cdot S_i$ (T_{LN} = load torque; S_i = 1.3)

$T_{Kmax} > T_{LS}$ (T_{LS} = load peak torque)

¹⁾ For torsional vibration calculation, contact Transfluid.

On request other rubber blocks with elastic features and hardness different from the standard are available. For details please contact Transfluid.



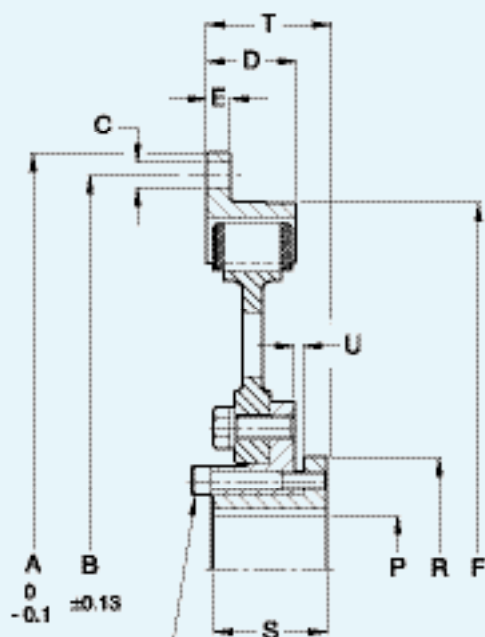
Size	Nr. of blocks	Max. rpm	Torque - daNm (70° shore)		
			Nominal torque T_{KN}	Max. Torque T_{Kmax}	Continuous vibratory torque T_{kw} (10 Hz) ²⁾
6S-7S-8S	12	4500	31	71	15.5
10S-10SS	16	4000	56	137	28
11S	20	3500	86	215	43
11D	20	3300	206	653	103
14S	28	2800	169	422	84.5
14D	26	2800	349	1104	174.5
18D	32	2400	530	1672	265

Ambient temperature $-40^{\circ}\text{C} \div +120^{\circ}\text{C}$

²⁾ For other frequency: $T_{kw} \sqrt{\frac{10}{f_x}}$

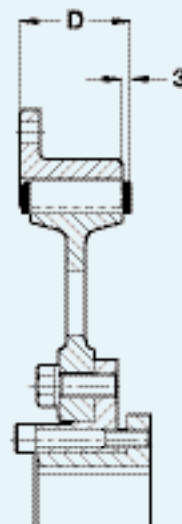
Size	Static stiffness $\pm 5\%$ (daNm/rad)		J (kgm ²)					Weight (kg)	
			Drive	Driven		Drive+Driven		Flange	With hub
	CT	CTdyn		Flanged	With hub	Flanged	With hub		
6S	2000	3000	0.006	0.005	0.006	0.010	0.011	1.4	2.6
7S	2000	3000	0.008	0.005	0.006	0.012	0.013	1.6	2.8
8S	2000	3000	0.011	0.005	0.006	0.016	0.016	1.8	3
10S	4800	7200	0.017	0.010	0.015	0.027	0.032	2.5	5.2
10SS	4800	7200	0.022	0.010	0.015	0.032	0.037	2.9	5.6
11S	9300	10000	0.035	0.025	0.035	0.060	0.070	3.3	8.2
11D	46100	69100	0.082	0.055	0.080	0.137	0.162	7	15.5
14S	20600	30900	0.180	0.110	0.135	0.290	0.315	7.3	16.8
14D	101000	151500	0.187	0.142	0.202	0.330	0.390	10.1	23.4
18D	188500	282700	0.652	0.177	0.652	0.830	1.305	16.6	50
Relative damping $\psi = 0,7263$									
Resonance factor $V_R = 8,65$									

RBD-QD WITH SINGLE RUBBER BLOCKS



BLOCKING SCREWS

RBD-QD WITH DOUBLE RUBBER BLOCKS



Maximum parallel and angular misalignment 0.7 mm (T.I.R.)

The hub with conical locking coupling (QD) allows:

- ease of assembly
- high torque transmission
- quick disassembly without using special tools
- positive contact between locking hub and shaft eliminates contact fretting



Size	Bush	A	B	C		D	E	F	P				R	S	T	U	Bolt Material 8.8		
				Nr.	dia.				min	max *	max **	max ***					Nr.	dimension	Locking torque (Nm)
6S-QD	SH	215.9	200	6	9	34	9	202	13	35	38	42	68.3	31.5	46.5	3	3	M8x35	18
7S-QD		241.3	222.2	8															
8S-QD		263.525	244.5	6															
10S-QD	SDS	285 f8	265	8	11	34	34 10	285	13	42	45	50	81	33.5	47.5	3	3	M8x35	24
10SS-QD		314.325	295.3																
11S-QD	SK	352.425	333.4	8	11	38	10	310	13	55	60	65	98.5	47.5	56	3	3	M10x50	40
11D-QD	SF					70	67	352.42	13	60	65	75	117.5	51	63/90		4	M12x55	75
14S-QD	SF					41	41	466.72	13	60	65	75	117.5	51	61		4	M12x55	75
14D-QD	E	466.725	438.2	8	13.5	70	13	406	22.5	75	80	90	152.4	66.5	93	3	4	M14x70	120
18D-QD	J	571.5	542.9			70	32.5	490	76.2	100	105	120	184.2	117.5	141.5			M16x120	165

* max with keyway UNI 6604-69 - DIN 6885/1

** max with reduced keyway DIN 6885/2

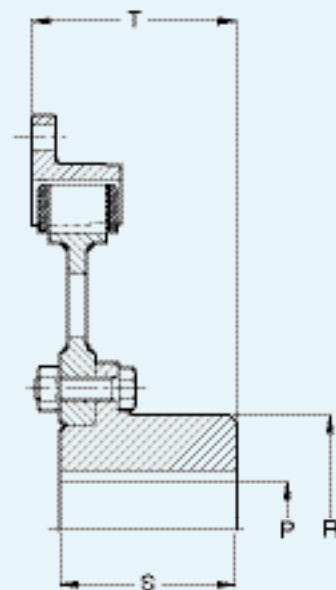
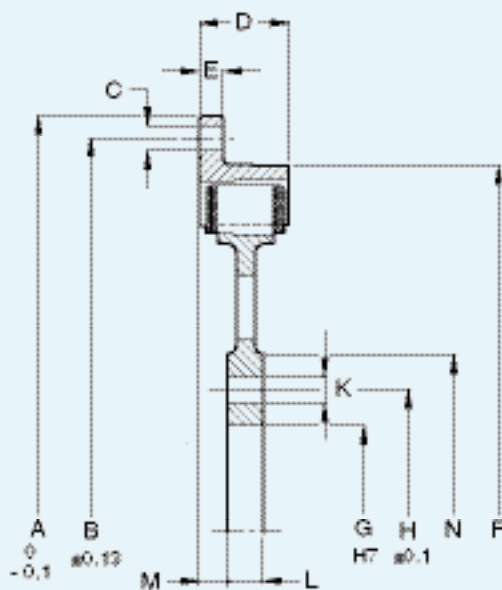
*** max without keyway

• Possible with version of 16 bolts; 8 shrouded and 8 exposed

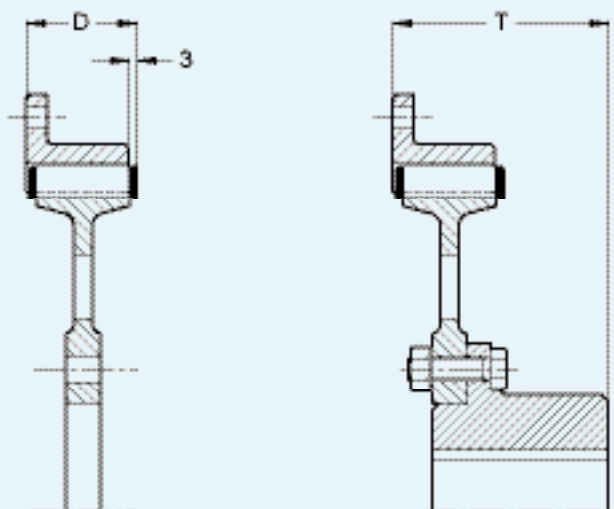
DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

RBD COUPLING - SPECIAL EXECUTIONS

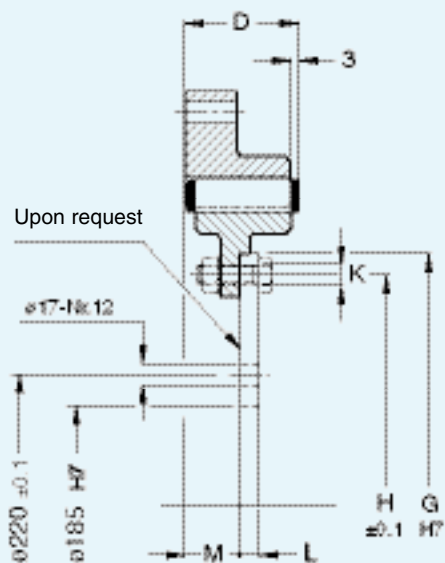
RBD WITH SINGLE RUBBER BLOCKS



RBD WITH DOUBLE RUBBER BLOCKS



RBD 18 D

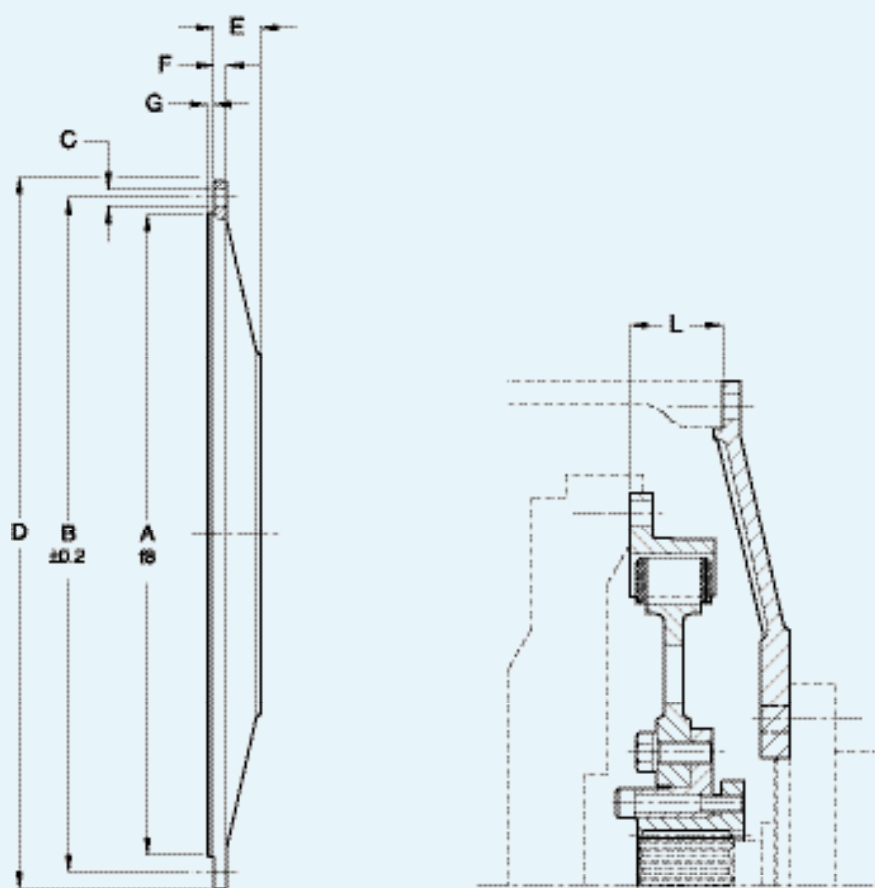


Maximum parallel and angular misalignment 0.7 mm (T.I.R.)

Size	A	B	C		D	E	F	G	H	K		L	M	N	P		R	S	T
			Nr.	dia.						Nr.	dia.				min	max			
6S	215.9	200	6	9	34	9	202	70.5	84	6	9	10	12	100	20	42	65	50	61
7S	241.3	222.2	8																
8S	263.525	244.5	6																
10S	285 f8	265	8	11	34	34 10	285	82	101.5	8	11	12	11	120	30	50	78	65	76
10SS	314.325	295.3				10	255												
11S	352.425	333.4	8	11	38	10	310	101	120	12	11	15	12	150	30	65	98	75	87
11D					70	67	352.42						15	180	45	90			
14S	466.725	438.2	8	13.5	41	41	466.72	120	150	12	13	15	13	180	45	90	128	90	100
14D					70	13	406					18	27	210	50	100			
18D	571.5	542.9	6	17	70	32.5	490	368.3	342.9	16	13	12	34	-	-	-	-	-	-

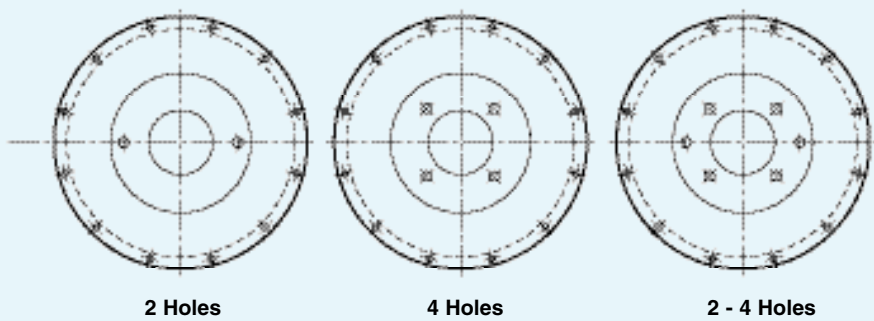
• Possible with version of 16 bolts; 8 shrouded and 8 exposed.

DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE



Flywheel SAE J620	RBD	L
6 1/2	6S	30.2
7 1/2	7S	
8	8S	62
10	10SS	53.8
11 1/2	11S - 11D	39.6
14	14S - 14D	25.4
18	18D	15.7

HOUSING FOR FLYWHEEL SAE J617												
SAE	A	B	C		D	E			F		G max	
			Nr.	Ø								
5	314.32	333.37	8	11	356	18		30	10		4	
4	361.95	381.00	12		404	12	18	30	8	10		16
3	409.57	428.62			451	12	30	45	12			
2	447.67	466.72			489	50						
1	511.17	530.22			12				552			



The internal flanging of housings is suitable for SAE pumps with 2 or 4 holes

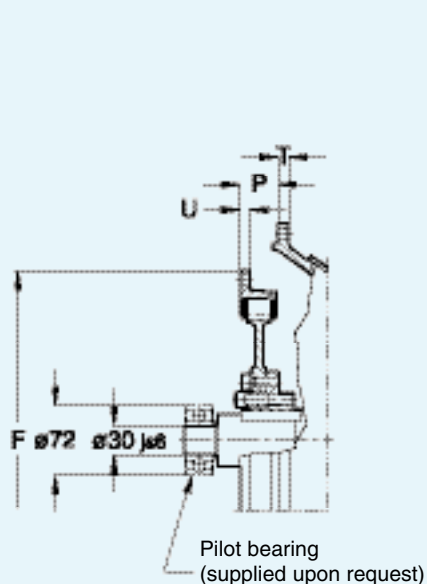
DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

PF POWER TAKE OFFS WITH RBD COUPLINGS

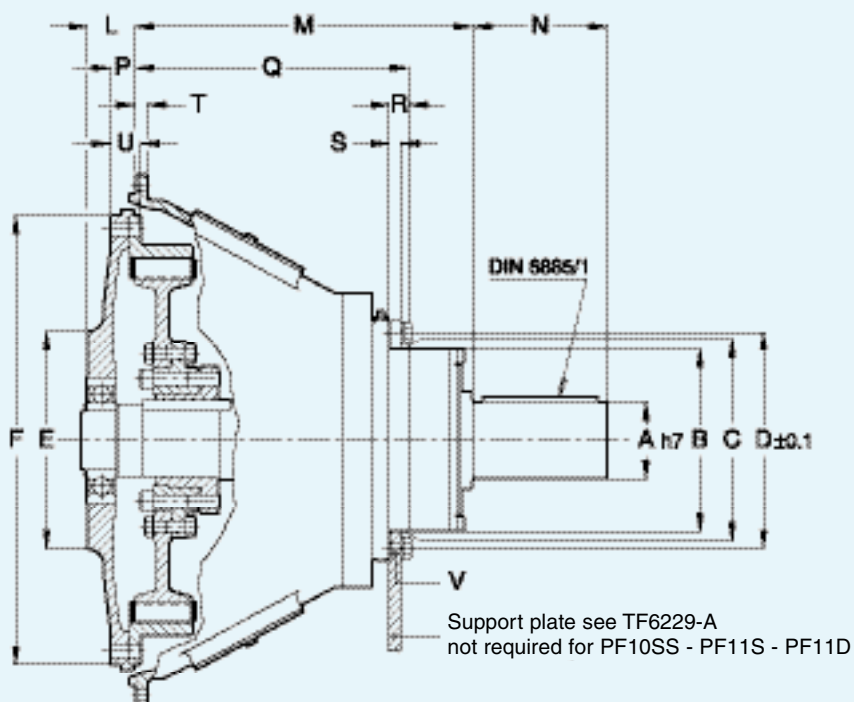
RBD Power take offs

The PF-PTO is suitable for both in line and radial load applications.

The output shaft is supported by a heavy bearing designed to absorb the high shock loads generated by the transmitted power.



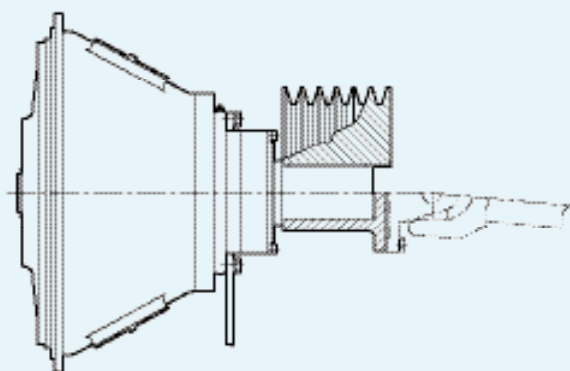
PF10SS-PF11S-PF11D



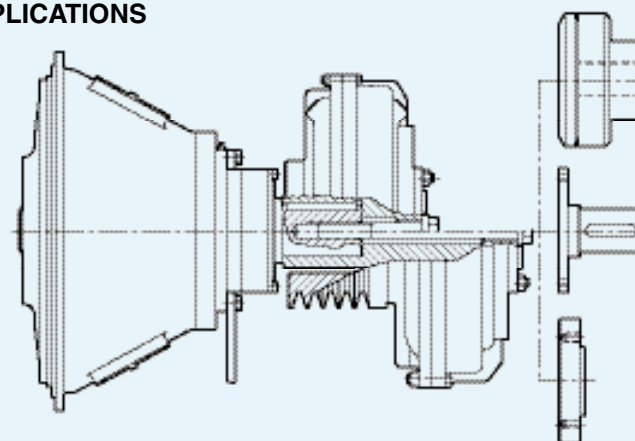
PF14S-PF14D-PF18D

Size	SAE Housing	SAE Flywheel	A	B	C	D	E	F	L	M	N	P	Q	R	S	T	U	V	
																		Nr	Ø
PF10SS	4-3	10"	55	126	-	-	-	314.3	-	113	110	54	-	-	-	12	10	-	-
PF11S	3-2-1	11 1/2"	70	136				352.4		235	140	39.6				11			
PF11D			70	136				352.4		235	140	39.6				11			
PF14S	1-0	14"	80	189	190.5	225.4	226.5	466.7	50.8	350	140	25.4	263.7	23	12	12.7	31.7	6	13.5
PF14D			80	189	190.5	225.4		466.7	50.8	350	140	25.4	263.7	23	12	12.7	31.7		
PF18D	0	18"	110	263	265	305		571.5	43	51.5	180	15.7	380	32	18	14	64.5		

APPLICATIONS



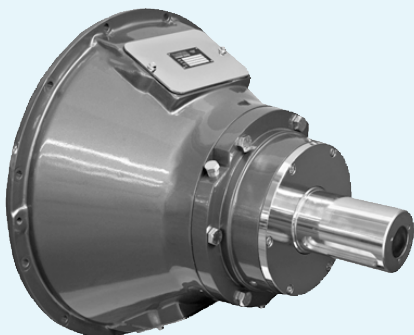
**PF... WITH PULLEY OR
CARDAN SHAFT**



PF... FLUID COUPLINGS KRG/D/U OR KSD

OIL OPERATED POWER TAKE OFF
HF SERIES

Up to 800 kW



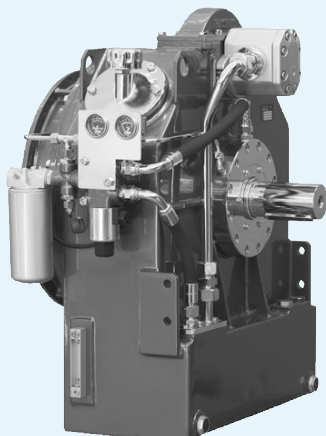
FLUID COUPLING PTO
KFBD

For internal combustion engines
Up to 500 kW



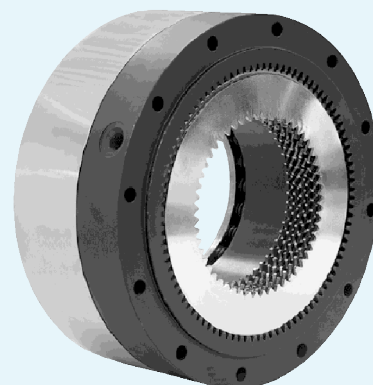
FLUID COUPLING "KPT"
KPTO

For internal combustion engines
P.T.O. for pulley and cardan shaft up to 1700 kW



HYDRAULIC BRAKE
SL

Up to 9000 Nm



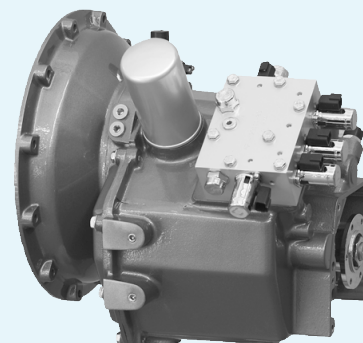
HYDRAULIC CLUTCH
SH - SHC

Up to 2500 Nm



POWER SHIFT TRANSMISSION
REVERMATIC & RANGERMATIC

With torque converter one or more speeds
manual or electric selector up to 75 kW



EUROPE

AUSTRIA

ASC GMBH
4470 Enns

AUSTRIA (Diesel appl.)

ESCO ANTRIEBSTECHNIK GMBH
53831 Troisdorf

BELGIUM

ESCOPOWER N.V.
1831 Diegem

CZECH REPUBLIC

TESPO ENGINEERING s.r.o.
602 00 Brno

CZECH REPUBLIC (Diesel appl.)

ESCO ANTRIEBSTECHNIK GMBH
53831 Troisdorf

DENMARK

JENS S. TRANSMISSIONER A/S
DK 2635 ISHØJ

DENMARK (Diesel appl.)

TRANSFLUID s.r.l.
21013 Gallarate (VA)

ENGLAND & IRELAND

MARINE AND INDUSTRIAL TRANS. LTD.
Queenborough Kent me11 5ee

FINLAND

OY JENS S. AB
02271 Espoo

FINLAND (Diesel appl.)

TRANS-AUTO
SE 151-48 Sodertalje

FRANCE

▲ TRANSFLUID FRANCE s.a.r.l.
38500 Voiron
Tel.: +33.9.75635310
Fax: +33.4.26007959
tffrance@transfluid.it

GERMANY

REICH KUPPLUNGEN
D-44720 Bochum

HOLLAND

AANDRIJF TECHNISCH BURO BV
5902 RB Venlo

HOLLAND (Diesel appl.)

ESCO AANDRIJVINGEN B.V.
2404 HM Alphen a/d Rijn

HUNGARY

AGISYS
2045 Torokbalint

NORWAY

TRANSFLUID s.r.l.
21013 Gallarate (VA)

POLAND

SENOMA LTD
PL40-153 Katowice

PORTUGAL

REDVARIO LDA
2735-469 Cacem

RUSSIAN FEDERATION

▲ TRANSFLUID 000
Tel.: +7.9260141751
Moscow
tfrussia@transfluid.it

SLOVAKIA

ESCO ANTRIEBSTECHNIK GMBH
53831 Troisdorf

SLOVENIJA

NOVI STROJI
3210 Slovenske Konjice

SPAIN

TECNOTRANS BONFIGLIOLI S.A.
08040 Barcelona

SWEDEN

JENS S. TRANSMISSIONER AB
SE-601-19 Norrköping

SWEDEN - ESTONIA - LATVIA - LITHUANIA (Diesel appl.)

TRANS-AUTO
SE 151-48 Sodertalje

SWITZERLAND

TRANSFLUID s.r.l.
21013 Gallarate (VA)

TURKEY

REMAS
81700 Tuzla Istanbul

OCEANIA

AUSTRALIA

CBC POWER TRANSMISSION
Kingsgrove NSW 2208

NEW ZEALAND

TRANSFLUID s.r.l.
21013 Gallarate (VA)

AMERICA

ARGENTINA

ACOTEC S.A.
Villa Adelina - Buenos Aires

BRAZIL

WAD
05014-060 Sao Paulo SP

CHILE

SCEM LTDA
Santiago Do Chile

COLUMBIA

A.G.P. REPRESENTACIONES LTDA
77158 Bogotá

MEXICO

A.A.R.I., S.A. de C.V.
11500 Mexico df

PERU

DEALER S.A.C.
Cercado, Arequipa

U.S.A.

KRAFT POWER CORP.
Suwanee GA 30024

U.S.A. & CANADA & MEXICO

▲ TRANSFLUID LLC
Auburn, GA30011
Tel.: +1.770.8221777
Fax: +1.770.8221774
tfusa@transfluid.it

AFRICA

ALGERIA - CAMEROUN - GUINEA - MAROCCO - MAURITANIA - SENEGAL - TUNISIA

TRANSFLUID FRANCE s.a.r.l.
38500 Voiron (France)
Tel.: +33.9.75635310
Fax: +33.4.26007959
tffrance@transfluid.it

EGYPT

INTERN.FOR TRADING & AGENCY (ITACO)
Nasr City (Cairo)

SOUTH AFRICA-SUB SAHARAN COUNTRIES

BMG BEARING MAN GROUP
Johannesburg

ASIA

ASIA South East

ATRAM TRANSMISSION PTE LTD
Singapore 608 579

CHINA

▲ TRANSFLUID BEIJING TRADE CO. LTD
Beijing
Tel.: 0086.10.62385128-9
Fax: 0086.10.62059138
tbtinfo@sina.com

INDIA

PROTOS ENGINEERING CO. PRIVATE LTD
600002 Tamilnadu Chennai

INDONESIA

PT. HIMALAYA EVEREST JAYA
Barat Jakarta 11710

IRAN

LEBON CO.
Tehran 15166

ISRAEL

ELRAM ENGINEERING &
ADVANCED TECHNOLOGIES 1992 LTD
Emek Hefer 38800

JAPAN

ASAHI SEIKO CO. LTD.
Osaka 593

KOREA

NARA CORPORATION
Pusan - South Korea

TAIWAN

FAIR POWER TECHNOLOGIES CO.LTD
105 Taipei

THAILAND

SYSTEM CORP. LTD.
Bangkok 10140

UAE - SAUDI ARABIA - KUWAIT - OMAN

BAHRAIN - YEMEN - QATAR
NICO INTERNATIONAL U.A.E.
Dubai

▲ TRANSFLUID SUBSIDIARIES

LOCAL DISTRIBUTOR