

ACCOUPEMENTS FLEXIBLES À DENTURE  
 FLEXIBELE TANDKOPPELINGEN  
 FLEXIBLE GEAR COUPLINGS  
 FLEXIBLA TANDKOPPLINGAR  
 FLEXIBLE ZAHNKUPPLUNGEN  
 ACOPLAMIENTOS FLEXIBLES DENTADOS  
 GIUNTI FLESSIBILI A DENTI  
 JOUSTAVAT HAMMASKYTKIMET

## SERIE F

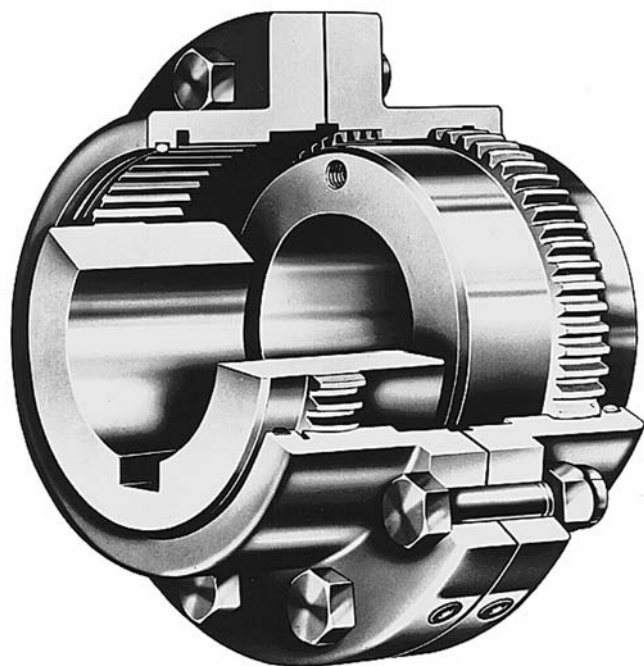
### TABLE OF CONTENTS

1. Introduction
2. Preparation
3. Warnings
4. Assembly
5. Inspection and maintenance

Attachment: **IM/A200-Ex**: Specific protective measures taken for ESCOGEAR Couplings in case of use in potentially explosive atmospheres



*This document is available in coupling catalogue or on our web site « [www.escocoupling.com](http://www.escocoupling.com) »*



INSTALLATION	⊗	ENTRETIEN
MONTAGE	⊗	ONDERHOUD
INSTALLATION	⊗	MAINTENANCE
INSTALLATION	⊗	UNDERHÅLL
EINBAU	⊗	WARTUNG
INSTALLAZIONE	⊗	MANUTENZIONE
INSTALACIÓN	⊗	MANTENIMIENTO
ASENNUS	⊗	HUOLTO

**esco couplings n.v.**  
 Kouterveld - Culliganlaan, 3  
 B - 1831 Diegem  
 (tel) + 32 02 715 65 60  
 (fax) + 32 02 720 83 62 - 02 721 28 27  
 e-mail: [info@esco-couplings.be](mailto:info@esco-couplings.be)  
 web site: [www.escocoupling.com](http://www.escocoupling.com)

**esco transmissions s.a.**  
 Z.I. 34, rue Ferme Saint-Ladre  
 Saint Witz  
 F - 95471 Fosses Cedex  
 (tel) + 33 (1) 34 31 95 95  
 (fax) + 33 (1) 34 31 95 99  
 e-mail: [info@esco-transmissions.fr](mailto:info@esco-transmissions.fr)  
 web site: [www.esco-transmissions.fr](http://www.esco-transmissions.fr)

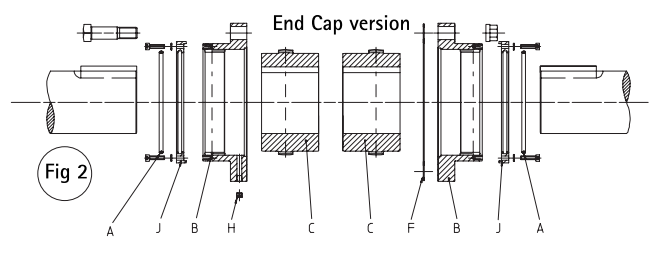
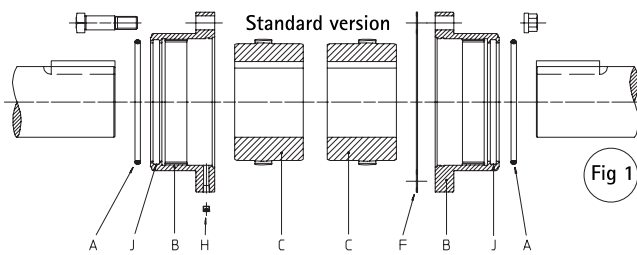
**eugen schmidt und co getriebe und antriebs-elemente GmbH**  
 Eugen Schmidt Postfach 1741 - D - 53827 Troisdorf  
 Hausanschrift: Biberweg 10 - D - 53842 Troisdorf  
 (tel) + 49 (02241) 48 07 - 0  
 (fax) + 49 (02241) 48 07 10 und 40 35 85  
 e-mail: [esco-antriebstechnik@t-online.de](mailto:esco-antriebstechnik@t-online.de)  
 web site: [www.esco-antriebstechnik.de](http://www.esco-antriebstechnik.de)

**esco aandrijvingen b.v.**  
 Ondernemingsweg, 19 - P.B. 349  
 NL - 2404 HM Alphen A/D Rijn  
 (tel) + 31 (0) 172 / 42 33 33  
 (fax) + 31 (0) 172 / 42 33 42  
 e-mail: [info@esco-aandrijvingen.nl](mailto:info@esco-aandrijvingen.nl)  
 web site: [www.esco-aandrijvingen.nl](http://www.esco-aandrijvingen.nl)





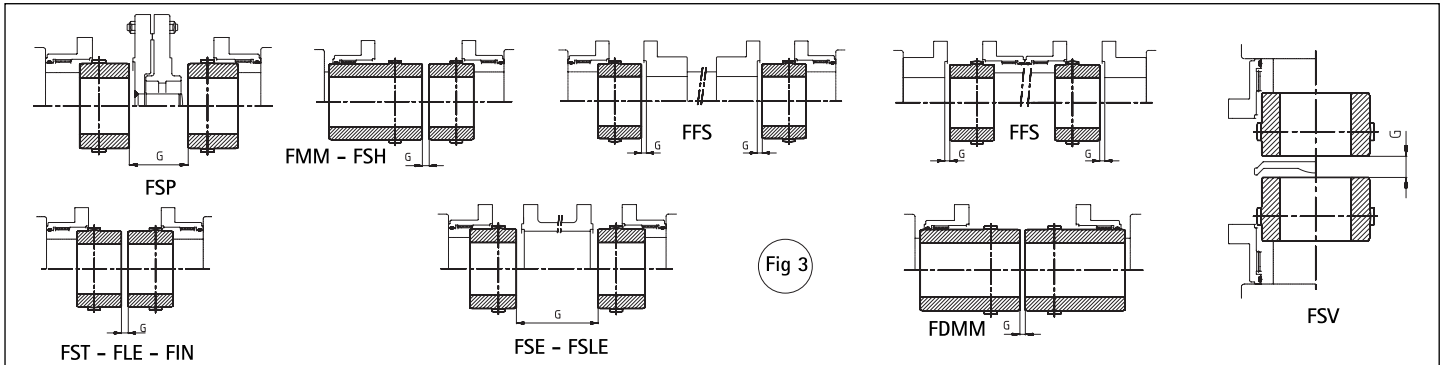




Type	FST FMM FDMM FLE G mm	FFS G mm	FSP G mm	FSH (min.) G mm	FSV G mm	FRR G mm	FET G mm	FIN G mm
45	3	2 x 5	45	8	8	7		
60	3	2 x 5	53	8	5	7	61	7
75	3	2 x 5	61	8	12,5	7	69	8
95	5	2 x 6	65	10	11	7	76	11
110	5	2 x 6	67	10	13	7	78	11
130	6	2 x 6,5	83	11	14	7	115	12
155	6	2 x 6,5	84	11	15	7	116	12
175	8	2 x 8	93	14	17	8	121	14
195	8	2 x 8	96	14	20	8	124	14
215	8	2 x 8	117	16	27	8	162	14
240	8	2 x 10	124		34	12	169	16
275	10	2 x 13	139		28	16	190	
280	10	2 x 13						
320	13	2 x 14,5						
360 N	13							
400 N	13							
450 N	13							

Type	Flange						End Cap			Plug	
	Exposed Metric bolts		Exposed Inches bolts		T 2 Nm	Exagonal socket head screw + washer M mm s inch	T 3 Nm	s mm			
	T 1 Nm	Socket Size mm	T 1 Nm	Socket Size mm							
45	33,5	10	1/4"	15	3/8"	1/4"			7	4	
60	66	12	3/8"	49	1/2"	3/8"			10	5	
75	112	14	3/8"	118	5/8"	1/2"	4	4	3	10	
95	277	19	1/2"	236	25/32"	1/2"	8	5	4	10	
110	277	19	1/2"	236	25/32"	1/2"	8	5	4	10	
130	537	24	1/2"	413	15/16"	1/2"	8	5	4	10	
155	537	24	1/2"	413	15/16"	1/2"	8	5	4	10	
175	537	24	1/2"	413	15/16"	1/2"	13	6	5	10	
195	537	24	1/2"	569	17/16"	1/2"	13	6	5	10	
215	537	24	1/2"	569	17/16"	1/2"	33	8	6	29	
240	795	30	3/4"	569	17/16"	1/2"	33	8	6	29	
275	795	30	3/4"	795	19/16"	3/4"	33	8	6	29	
280	1855	46	1"				65	10	8	29	
320	1855	46	1"				65	10	8	29	
360N	1855	46	1"				65	10	8	29	
400N	1855	46	1"				112	12	10	29	
450N	1855	46	1"				112	12	10	29	

For FIN and FWD types, refer to factory



NORMAL SPEED AND DUTY		HIGH SPEED, HEAVY DUTY AND ATEX		Type	FST FMM FDMM dm³	FFS FSE FSLE dm³	FLE FSP FIN dm³	FSV dm³	FSH	FWD
Agip	Agip GR MV/EP 1	Caltex	Coupling Grease	45	0,047	2 x 0,025	2 x 0,025	2 x 0,021		
Caltex	Coupling Grease	Klüber	Klüberplex GE 11-680	60	0,074	2 x 0,037	2 x 0,032	2 x 0,037		
Castrol	Impervia MDX	Mobil	Mobilgrease XTC	75	0,131	2 x 0,065	2 x 0,062	2 x 0,057		
Chevron	Polyurea grease EPO	Shell	Albida GC1	95	0,207	2 x 0,105	2 x 0,117	2 x 0,104		
Esso	Fibrax 370	Texaco	Coupling Grease	110	0,362	2 x 0,180	2 x 0,170	2 x 0,164		
Fina	Marson EPL 1			130	0,522	2 x 0,260	2 x 0,230	2 x 0,254		
Kübler	Klüberplex GE 11-680			155	0,796	2 x 0,400	2 x 0,450	2 x 0,387		
Mobil	Mobilux EPO			175	0,976	2 x 0,490	2 x 0,610	2 x 0,514		
Q 8	Rembrandt EPO			195	1,513	2 x 0,760	2 x 0,820	2 x 0,741		
Shell	Alvania grease EP R-0 or EP 1			215	2,017	2 x 1,010	2 x 1,200	2 x 0,940		
Texaco	Coupling Grease			240	2,429	2 x 1,210	2 x 1,300	2 x 1,120		
Total	Specis EPG			275	3,286	2 x 1,640	2 x 1,900	2 x 1,690		
				280	6,440	2 x 3,220	2 x 3,200			
				320	7,600	2 x 3,800	2 x 3,800			
				360N	11,000	2 x 5,500	2 x 5,500			
				400N	12,000	2 x 6,000	2 x 6,000			
				450N	16,000	2 x 8,000	2 x 8,000			

FST	K <sub>x0</sub>	K <sub>y0</sub>
45	1,92	2,34
60	2,06	3,04
75	2,76	3,71
95	3,25	4,54
110	3,80	5,28
130	4,47	6,22
155	5,03	7,43
175	5,72	8,20
195	6,35	9,18
215	7,47	9,98
240	8,24	11,04
275	9,18	12,98
280	10,82	13,76
320	11,34	15,08
360	12,32	16,76
400	13,37	18,50
450	14,35	20,74

TABULATION 4 : ALIGNMENT PRECISION

Alignment is measured as shown on the figure (Y - Z) for angular and X for offset. Combination of angular and offset misalignment must comply with the following formulation:

$$\Delta K_{Wmin} \leq \frac{X}{K_x} + \frac{Y-Z}{K_y} \leq 0,75 \times \Delta K_{Wmax}$$

$$\Delta K_{Wmin} = 0,1^\circ$$

$\Delta K_{Wmax}$  depends on speed and torque as shown on graph (T, n) in coupling catalogue on page A150 E (a).

$$K_x = K_{x0} + \frac{S}{30} \text{ with } S = \text{Spacer length (mm)}$$

(If no spacer: S = 0)

$$K_y = K_{y0}$$

