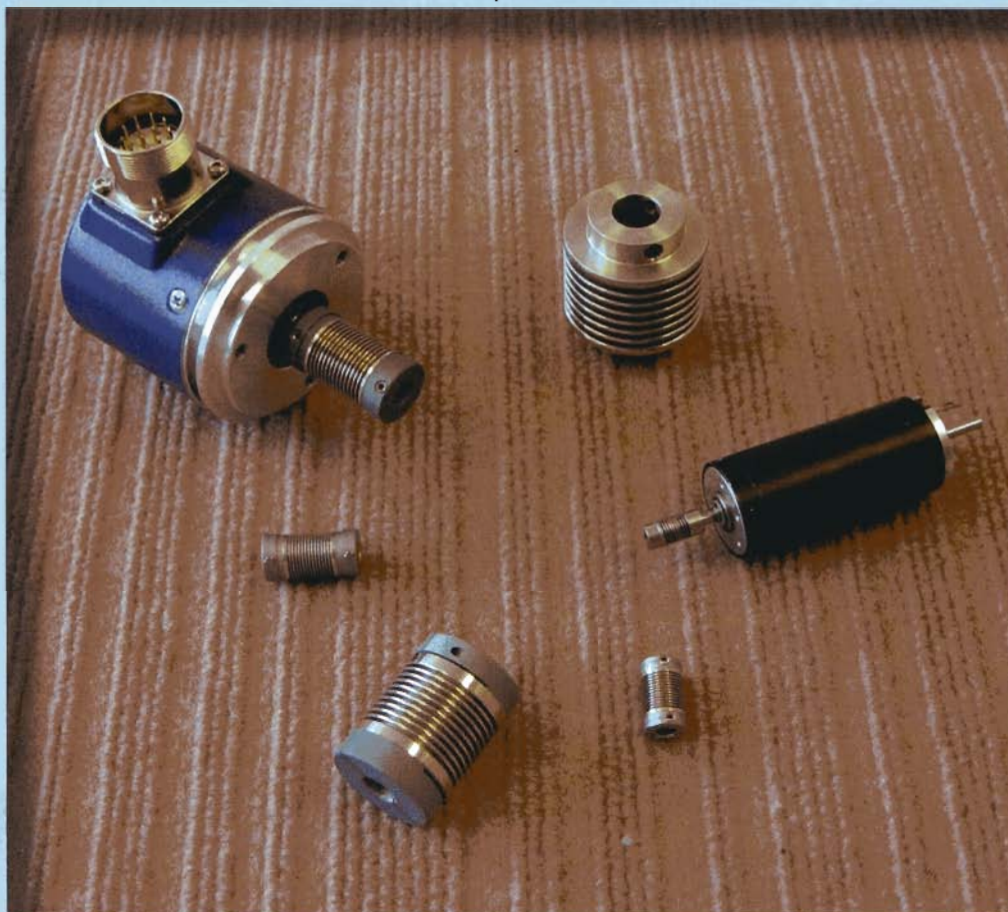


Flexible bellow couplings



**for accurate measuring
or servo-control devices**

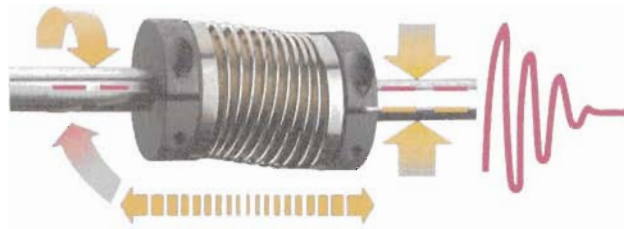
(encoders, synchros, resolvers, potentiometers,...)

A.C.O.S.

Flexible nickel-bellow couplings

The flexible nickel-bellow couplings differ from other miniature couplings thanks to their unique characteristics :

- **High torsional stiffness** without equivalent,
- Compliance of the **angular, radial and axial misalignments**,
- Act to **dampen vibration**,
- Low side thrust **on bearings**,
- Constant mechanical characteristics **on its whole useful life**,
- Function of **protection fuse** of the equipments in case of overloading.



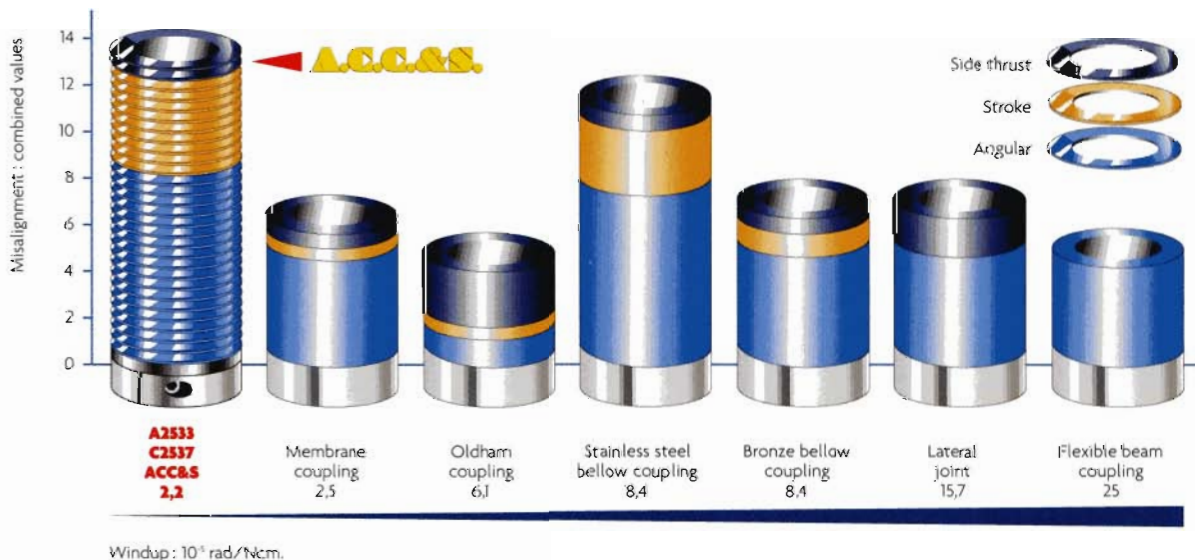
These couplings are made of :

an **electrodeposited nickel bellow**. This particular process produces stress-free convolutions with uniform, closely controlled wall thickness

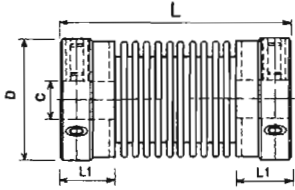
2 fitting hubs proposed either with DIN916-stainless steel set screws (Type A) or with DIN912-black oxide steel cap screw in clamp size (Type C).

For the sizes 7, 10 and 12, the hubs are made of stainless steel and only available in Type A, for the sizes 17 and 25, the hubs are made of anodised aluminium and available in Type A and in Type C.

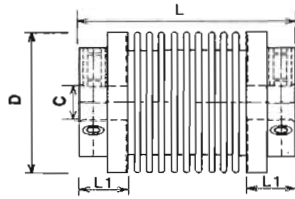
Comparison with major couplings types (size 25 mm)



Type A

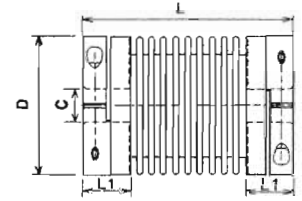


except A2533 C ≤ 10 mm



A2533 C ≤ 10 mm

Type C



Size	Type A	Type C	Dimensions mm			Diameter C (Tolerance H8)																																	
			D	L	L1	2		3		3,05		3,18		4		4,76		5		6		6,35		7		8		9		9,53		10		11		12		12,7	
						+0,014/0 mm		+0,018/0 mm		+0,022/0 mm		+0,027/0 mm		1/8"		3/16"		1/4"		3/4"		1/2"																	
7	A0714		6,35	14	4	●	●	○	●																														
10	A1017		9,53	17	4	●	●	○	●	●	●																												
12	A1223		12	23	6	●	●	○	●	●	●	●	●	●																									
17	A1727		17	27	7	○	●	○	●	●	●	●	●	●								○	●	○	●	●													
		C1729	16,3	29	8																																		
	A1731		17	31	7	○	●	○	●	●	●	●	●	●								○	●	○	●	●													
		C1733	16,3	33	8																																		
25	A2533		25	33	7																																		
		C2537		37	9																																		

Bore sizes : ● standard ; ○ on request.

Mixed bore sizes available without additional costs.

ORDER CODE EXAMPLE :

A1731 **0635** **1000**
 | | |
 Type A1731 06,35 mm x 10,00 mm

Size	Type A	Type C	Screw			Mass kg ⁻³	Inertia kgm ² ①	Peak torque Ncm	Windup Arc°sec/Ncm	Max. static misalignment ②				Stiffness		
			Type A set screw Type C cap screw	Seating torque Ncm	Allen key mm					compres. mm	extens. mm	radial mm	angular deg	axial N/mm	radial N/mm	angular Nm/rad
7	A0714		M2	41	0,9	1,5	1,33E-08	4,9	285	0,87	0,65	0,19	10	3,5	6,9	7
10	A1017		M2,5	41	1,3	3,5	1,61E-08	9,9	95	1,79	1,34	0,40	14	3,1	6,3	22
12	A1223		M2,5	79	1,3	10	1,85E-07	13	75	2,29	1,72	0,54	15	2,2	4,2	28
17	A1727		M3	132	1,5	9,5	3,62E-07	50	20	2,37	1,78	0,43	10	4,0	12,3	103
		C1729	M2	35		11	4,68E-07									
		A1731		M3	132	1,5	10	3,81E-07	39	26	3,09	2,32	0,72	14	3,1	5,8
		C1733	M2	35		11,5	4,89E-07									
25	A2533		M3	132	1,5	19,5	1,61E-06	328	4	2,77	2,07	0,46	8	11,2	38,1	462
		C2537	M2,5	66	2,0	28,5	2,54E-06									

① values apply with minimum bores.

② dynamic applications (speed or torque variation, reversing load...): values to be divided by 10. Values are mutually exclusive.

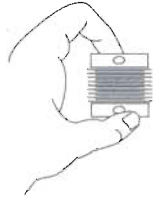
Life expectancy : 10⁷ cycles or 10⁵ reversing cycles

Other sizes on request
 for shaft diameters from 1 mm to 25,4 mm

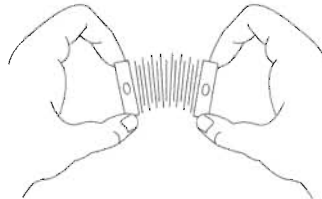
WARNING :

These precision couplers have a restrited range of permissible flexure. Do not compress or manipulate in any way !

NO !



NO !



A.C.C.&S.

BP 111 – F-67028 STRASBOURG CEDEX 1
Tel. +33 (0)3 88 55 94 94 - Fax +33 (0)3 88 55 94 95
www.acces.ac



Your local contact :

A.C.C.&S.

MATTHIAS KÖNIG OHG
Schlüterstraße 19 - D-01277 Dresden

Tel. 03 51 - 4 72 15 43

Fax 03 51 - 4 72 15 78