

ST2

WITH SIMPLE KEYWAY MOUNTING

2 - 165 KNm



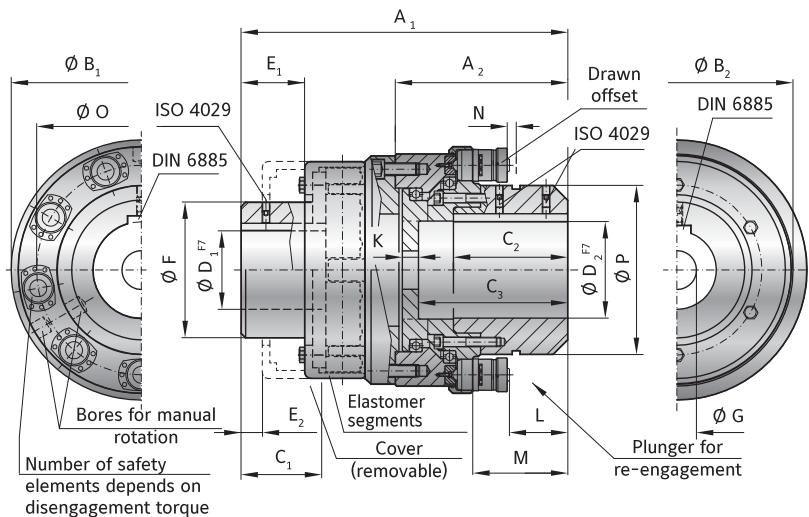
ABOUT

MATERIAL

- **Safety coupling portion:** hardened steel (nitrocarburized surface)
- **Elastomer segments:** precision molded, wear resistant rubber compound (75-80 Shore A)
- **Elastomer coupling:** hubs made from coated high strength cast steel

DESIGN

With keyway connection (spline profile on request). Elastomer segments compensate for misalignment and absorb vibration. Safety elements evenly spaced around the circumference. Field adjustable within the specified range.



MODEL ST2

SIZE	(KNm)	10			25			60			160			
		2-6	4-12	6-18	3-8	5-16	10-25	11-20	22-40	35-60	25-55	50-110	80-165	
Adjustment range available from - to	(KNm)	3 x ST 15	6 x ST 15	9 x ST 15	3 x ST 15	6 x ST 15	9 x ST 15	3 x ST 30	6 x ST 30	9 x ST 30	3 x ST 70	6 x ST 70	9 x ST 70	
Overall length ±2	(mm)	A ₁	360			437			580			730		
Length of torque limiting portion	(mm)	A ₂	183			230			320			410		
Flange outside diameter (ST portion)	(mm)	B ₁	270			318			459			648		
Flange outside diameter (elastomer portion)	(mm)	B ₂	290			330			432			553		
Fit length/keyway length D1	(mm)	C ₁	97			116			160			230		
Fit length/keyway length D2	(mm)	C ₂	120			155			220			290		
Bore depth (torque limiting portion)	(mm)	C ₃	158			200			275			360		
Bore diameter (elastomer portion) \emptyset - \emptyset F7	(mm)	D ₁	40-105*			60-130*			80-160*			100-200*		
Bore diameter (torque limiting portion) \emptyset - \emptyset F7	(mm)	D ₂	40-110*			60-140*			80-200*			100-290*		
Length to cover	(mm)	E ₁	70			87			112			152		
Length to (cover removed)	(mm)	E ₂	22			26			40			65		
Hub diameter	(mm)	F	160			200			255			300		
Bore for fastening screw	(mm)	G	max. 110			max. 140			max. 200			max. 290		
Distance	(mm)	L	45			83			96			136		
Distance	(mm)	M	95			130			165			225		
Actuation path	(mm)	N	4			4			7.5			10		
Mounting diameter - elements	(mm)	O	220			270			376			532		
Hub outside diameter	(mm)	P	170			218			295			418		
Moment of inertia (approx.) D max. (10^{-3} kgm ²)			854			1850			8960			36858		
Speed max.	(rpm)		2700			2300			1800			1500		
Approx. weight at D max.	(kg)		80			115			287			729		
Axial	(mm)		1.5			1.5			2			2.5		
Lateral	(mm)		0.4			0.5			0.6			0.7		
Angular	(Grad)		1			1			1			1		
Dynamic torsional stiffness at T_{KN} (Standard A Insert) (10^3 Nm/rad)			145			230			580			1000		

* larger bore diameters upon request.

THE ELASTOMER SEGMENT

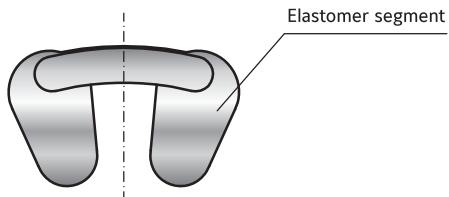
The compensating elements of the ST2 safety couplings are the elastomer segments. They transmit torque while damping vibration and compensating for lateral, axial

and angular misalignment. Three different versions are available with version A being supplied unless otherwise specified.

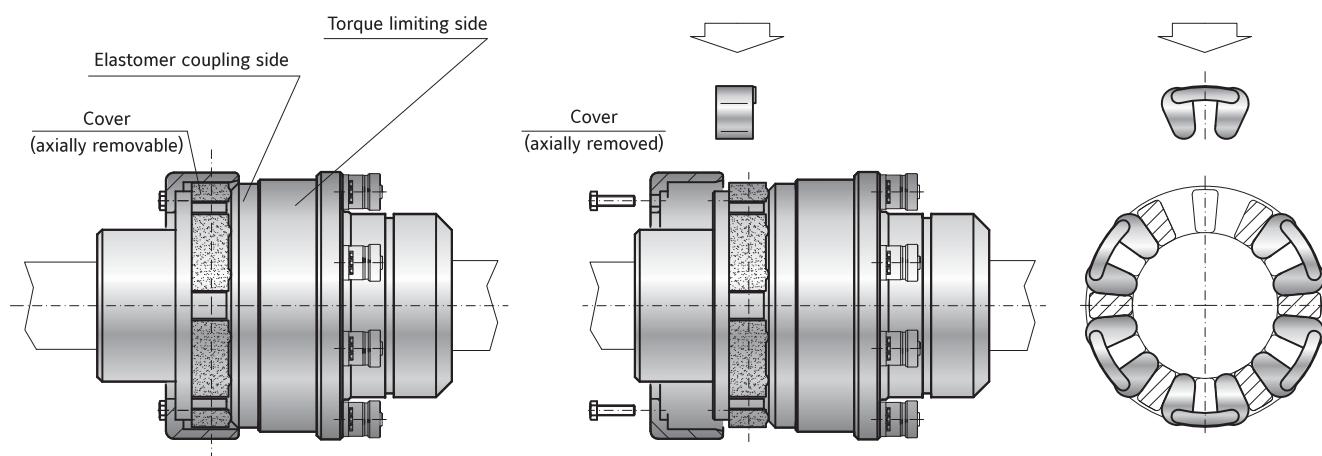
Type	Relative damping (ψ)	Temperature range constant	Temperature range peak	Material	Shore hardness	Features
A (Standard)	1.0	-40°C to +80°C	+90°C	Natural and synthetic rubber	75-80 Shore A	Very high wear resistance
B	1.0	-40°C to +100°C	+120°C	Synthetic rubber	73-78 Shore A	Resistant to many oils and fuels
C	1.0	-70°C to +120°C	+140°C	Silicone rubber	70-75 Shore A	High temperature range

► Note

Elastomer segments can be easily changed after installation. Every coupling utilizes 6x elastomer segments. The elastomer segments do not need to be installed prior to coupling mounting.



CHANGING THE ELASTOMER SEGMENTS



For easier handling, the coupling will be shipped unassembled.

ORDERING EXAMPLE	ST2	025	10-25	15	127	117.48	XX
Model	●						
Size		●					
Adjustment range (KNm)			●				
Disengagement torque (KNm)				●			
Bore Ø D1 F7					●		
Bore Ø D2 F7						●	
Special designation only (e.g. custom output flange)							
For custom features place an XX at the end of the part number and describe the special requirements (e.g. ST2 / 025 / 10-25 / 15 / 127 / 117.48 / XX)							