

# ADJUSTABLE LENGTH WITH SPLIT CLAMPING

## HUB 12.5 - 1,200 Nm

### PROPERTIES

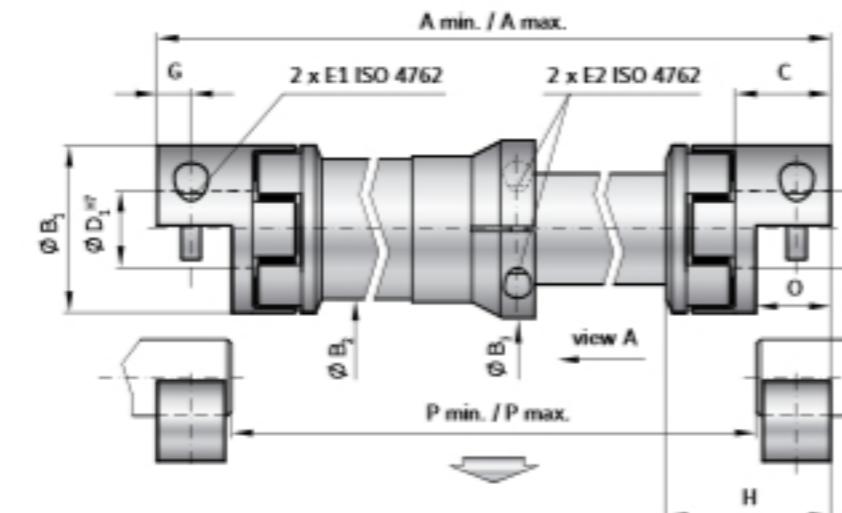
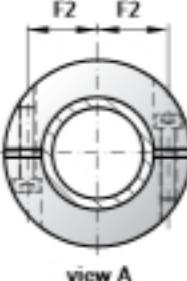
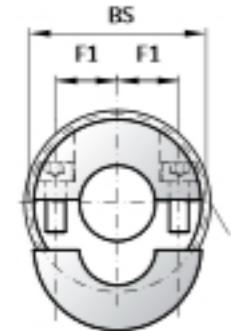
#### FEATURES

- telescoping for adjustable length and rotational orientation
- very easy to install and remove
- no intermediate support bearings required
- length ranges up to 4 meters

#### MATERIAL

- Hubs:** high strength aluminum
- Intermediate tube:** highly straight and concentric aluminum tubing
- Elastomer insert:** wear resistant, thermally stable TPU

**DESIGN**  
Two split clamping hubs, with two clamping screws in each, and concave driving jaws. Backlash free, vibration damping, electrically isolating elastomer inserts press fit into the hubs. Precision intermediate tube with a high level of straightness and lateral stiffness. Outer tube clamps over inner tube to fix the overall length.



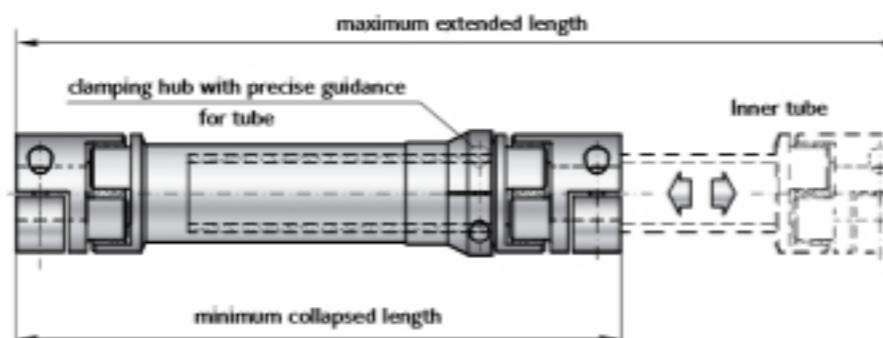
For details on the elastomer inserts see pages 72-73.

$$\text{Maximum extended length} = (\text{collapsed length} \times 2) - \text{measurement (X1 + X2)}$$

### FUNCTIONAL DESCRIPTION

The maximum extended length relates to the minimum collapsed length. The formulas to the right can be used to determine the corresponding values.

Information on sizing, torsional stiffness, misalignment ratings, etc. can be found on pages 16-18.



$$\text{Minimum collapsed length} = \frac{\text{maximum extended length} + \text{dimension (X1 + X2)}}{2}$$

### MODEL EZV

SIZE	10	20	60	150	300	450
Type (Elastomer insert)	A	B	A	B	A	B
Rated torque (Nm)	$T_{\text{ex}}$	12.5	16	17	60	75
Max. torque*	(Nm)	$T_{\text{max}}$	25	32	34	42
Inserted min. length from - to	(mm)	$A_{\text{min}}$	150 - 2,055	200 - 2,075	250 - 2,095	300 - 2,115
Extended over all length from - to	(mm)	$A_{\text{max}}$	190 - 4,000	250 - 4,000	310 - 4,000	370 - 4,000
Measurement (mm)	X1+X2	115	156	197	240	280
Outside diameter clamping hub (mm)	B <sub>1</sub>	32	42	56	66.5	82
Outside diameter tube (mm)	B <sub>2</sub>	28	35	50	60	80
Outside diameter center hub (mm)	B <sub>3</sub>	41.5	47	67	77	102
Outside diameter with screwhead (mm)	B <sub>4</sub>	32	44.5	57	68	85
Fit length (mm)	C	20	25	40	47	55
Inside diameter from Ø to Ø H7 (mm)	D <sub>ex</sub>	5 - 16	8 - 25	14 - 32	19 - 35	19 - 45
Screw ISO 4762	E <sub>1</sub>	M4	M5	M6	M8	M10
Tightening torque (Nm)		4	8	15	35	70
Screw ISO 4762	E <sub>2</sub>	M4	M4	M5	M6	M8
Tightening torque (Nm)		4	4.5	8	18	35
Distance between centers (mm)	F <sub>125</sub>	10.5	15.5	21	24	29
Distance between centers (mm)	F <sub>2</sub>	15	18	26	31	41
Distance (mm)	G	7.5	8.5	15	17.5	20
Coupling length (mm)	H	34	46	63	73	86
Shaft average value (mm)	N	26	33	49	57	67
Length (mm)	O	16.6	18.6	32	37	42
Moment of inertia coupling half ( $10^{-3}$ kgm <sup>2</sup> )	J <sub>1</sub> /J <sub>2</sub>	0.01	0.02	0.15	0.21	1.02
Inertia of tube per meter ( $10^{-3}$ kgm <sup>2</sup> )	J <sub>3</sub>	0.075	0.183	0.66	1.18	2.48
Combined dynamic torsional stiffness of the inserts (Nm/rad)	C <sub>sp</sub> <sup>xx</sup>	270	825	1,270	2,220	3,970
Torsional stiffness of tube per meter (Nm/rad)	C <sub>t</sub> <sup>xx</sup>	321	1,530	6,632	11,810	20,230
						65,340

\*Maximum transmittable torque of the clamping hub depends on the bore diameter (see pages 78).

ORDERING EXAMPLE	EZV	20	1200	A	24	19.05	XX
Model	•						
Size		•					
Collapsed length			•				
Elastomer insert type				•			
Bore D1 H7					•		
Bore D2 H7						•	
							Special designation only (e.g. special bore tolerance).

For custom features place an XX at the end of the part number and describe the special requirements (e.g. EZV / 20 / 1200 / A / 24 / 19.05 / XX; XX=anodized aluminum)

$$\text{Minimum collapsed length} = \frac{\text{maximum extended length} + \text{dimension (X1 + X2)}}{2}$$