**Power Transmission** 









ETP-POWER is available as standard for shafts 15 – 40 mm. Runout ≤ 0,03 mm. Number of mountings 200 - 500 (size dependent). ETP-POWER combines quick mounting with a high radial load capacity due to the specially developed pressure medium.

#### Construction

ETP-POWER is a hydraulic connection which consists of a double-walled hardened steel sleeve filled with a specially developed pressure medium and a flange. The flange part contains screw and piston with seals to maintain pressure. In the flange there are two pre-machined bores which can be used for mounting location pins, screws to the hub or similar.

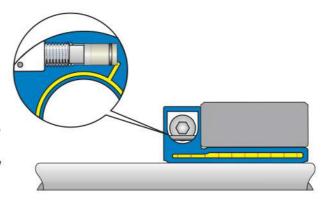
### Operation

When the pressure screw is tightened the double-walled sleeve expands uniformly against shaft and hub and creates a rigid joint. Dismantling is done by loosening the screw. ETP-POWER returns to its original dimensions and can easily be dismantled.

When the pressure screw is tightened to the recommended tightening torque, the piston has reached the bottom of the bore. ETP-POWER has created a uniform surface pressure against the shaft and hub.

## Benefits and features

- · High radial load capacity.
- Fast mounting/dismantling with only ONE screw.
- · Small built-in dimensions.
- Radial tightening of the screw saves space along the shaft.
- Accurate positioning, no axial movement when mounting.
- Good concentricity, also after several mountings.

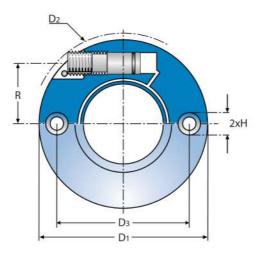


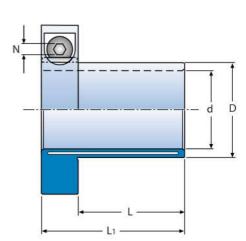














Notation: ETP-POWER XX

# Technical specification ETP-POWER®

ETP- POWER®	Dimensions						Transmittable axial radial torque force force		Pressure screw DIN 915, 12.9				Bores 2xH suitable for MC6S screws		Polar moment of inertia	Weight kg	
	d mm	D mm	D <sub>1</sub> mm	D₂* mm	L mm	L <sub>1</sub> mm	T Nm	Fa kN	F <sub>R</sub> kN	Dim.	R mm	N mm	Tt Nm	D₃ mm	Screw Dim.	kgm² x10 <sup>-3</sup>	, ng
15	15	20	51	55	21	35	60	7	2	M10	17,1	5	8	36	M5	0,06	0,19
19	19	26	54	58	27	41	100	8	4	M10	18,2	5	8	40	M5	0,08	0,23
3/4"	19,05	26	54	58	27	41	100	8	4	M10	18,2	5	8	40	M5	0,08	0,23
20	20	27	55	59	28	42	130	11	4	M10	18,9	5	8	41	M5	0,09	0,24
22	22	29	58	62	29	43	210	15	4,8	M10	20,5	5	8	43,5	M5	0,11	0,27
24	24	32	64	70	33	47	230	15	5,6	M10	22,7	5	8	48	M6	0,17	0,34
25	25	33	67	72	34	48	300	20	6	M10	23,2	5	8	50	M6	0,21	0,38
1"	25,4	33	67	72	34	48	300	20	6	M10	23,2	5	8	50	M6	0,21	0,38
28	28	37	70	76	35	49	325	20	7,2	M10	24,9	5	8	53,5	M6	0,26	0,43
30	30	39	72	80	36	50	530	26	8	M10	26	5	8	55,5	M6	0,29	0,45
1 1/4"	31,75	43	85	92	38	58	550	26	8,8	M16	31	8	25	64,5	M8	0,73	0,82
32	32	43	85	92	38	58	550	26	8,8	M16	31	8	25	64,5	M8	0,73	0,82
35	35	46	88	94	40	60	900	40	10	M16	32,4	8	25	67	M8	0,85	0,88
38	38	50	90	96	44	64	1150	47	11,2	M16	33,1	8	25	70	M8	0,94	0,92
1 1/2"	38,1	50	90	96	44	64	1150	47	11,2	M16	33,1	8	25	70	M8	0,94	0,92
40	40	53	91	96	47	67	1200	47	12	M16	34,2	8	25	72	M8	1,0	1.0

Tt= Recommended tightening torque for the screw.
Further tightening does not increase the pressure.
\*) D2 is valid before mounting.
Dimensions subject to alterations without notice.

### **TOLERANCES**

Shaft k6-h7 for  $d=19,\,22,\,24,\,28,\,32,\,38$  mm. Shaft h8 for all other dimensions d. Hub H7.

### Type of torque

Transmittable torque, T, is for static load.

If the load is alternating or pulsating torque, reduce the transmittable torque, T, with the following factors: (factor  $x\ T$ ).

Alternating: 0,5 x T. Pulsating: 0,6 x T.

For further information see section Technical information/Design tips, page 52-55.