



PEL[®] T bushings

HIGH RESISTANCE TO WEAR AND SEIZURE UNDER HIGH PRESSURE AND ABRASION ENVIRONMENT - LOW MAINTENANCE APPLICATION

The PEL T bushing has excellent resistance to wear and seizure and is suitable for high contact pressure and abrasive surroundings, in alternative or continuous rotation. With these bushings the intervals of lubrication are considerably increased.

Examples of applications

Wheel loaders – Skid loaders – Telescopic handlers – Moulds – Conveyors – Grapples – Ploughs – Handlers – Front loaders – Bush-cutter pillar arms – Forklifts – Fork for motorcycles – etc...

Surface characteristics

The cavities on the contact area of the PEL[®] T bushing provide large grease reservoirs while maintaining optimum load distribution. The duplex surface treatment provides high surface hardness, good conformability and excellent resistance to wear and seizure.

Conditions of use

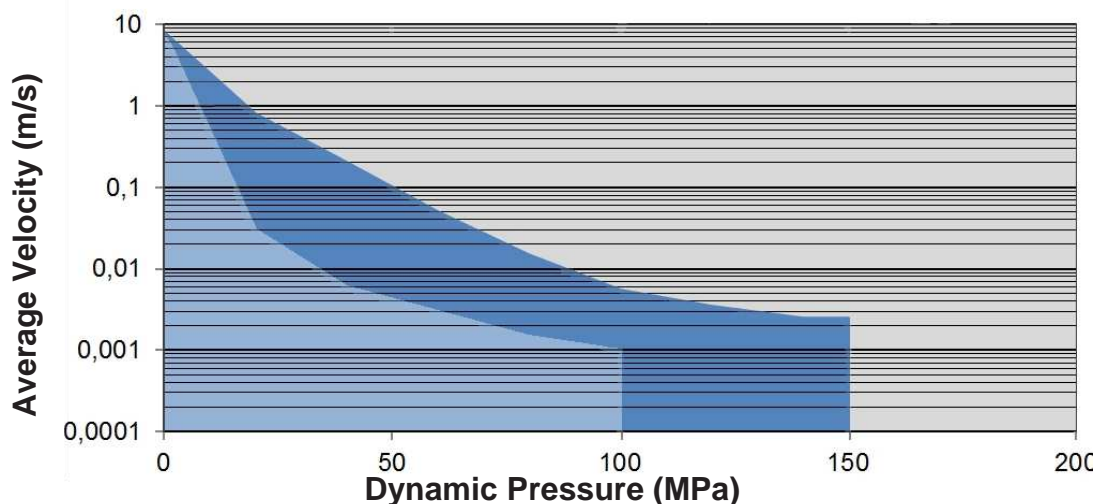
Static pressure max (MPa)	200
Dynamic pressure max (MPa)	100
Speed (m/s)	8
PV factor (MPa.m/s)	See curve next page
Max Temp (°C)	250
Lubrication	greased
Greasing intervals	Up to 250h

Standard tolerances

Bushing inner diameter	H9/H10
Bushing outer diameter	p6
Housing	H7
Shaft tolerances	f7
Shaft roughness	Ra < 0.8
Shaft hardness	> 56 HRC

- Nitrocarburising specialist, owner of QPQ[®], TENIFER[®], ARCOR[®], SURSULF[®], TUFFTRIDE[®]...
- Low friction, anti-corrosion coatings: lamellar zinc, PTFE & MoS₂ coatings...
- PVD & CVD coatings expert: DLC (aC:H, TaC), hard coatings (CrN, TiN,...): CERTESS[®]
- Anti-seizure treatment: STANAL[®] 400 (for stainless steel), DELSUN[®] (for bronze and copper alloys)

PV curve



NB : Curve obtained from test bench results

Normal applications (with marginal lubrication)

Possible applications after validation tests (with regular lubrication)

Assembly instructions

PEL® T bushings are best assembled by press fitting (Other assembly techniques can also be used. If necessary, please contact HEF DURFERRIT prior to use.)

Available standard diameters

ID	OD	ID	OD	ID	OD
20	23	40	44	70	75
25	28	47,62	52,62	76,2	81,2
25,4	29,4	50	55	80	85
30	34	50,8	55,8	85	90
32	36	57,15	62,15	88,9	93,8
35	39	60	65	90	95
38,1	42,1	63,5	68,5	100	105

We can produce PEL® T bushings in non standard dimensions.

Counter shafts

For optimal performances, special HEF DURFERRIT shafts are available from HEF: PEL® ST, PEL® STC...

Large testing capabilities and strong R&D

- 60 tribologists and R&D engineers
- More than 30 test benches, customizable tribometers
- Studies in special environment: Cryogenic, high temperature, water, oil, grease, dust ...
- More than 2 500 studies in various industries
- More than 600 patents



The PEL® T bushing is based on our experience in the field of tribology. Therefore, it should be tested and validated in your real working conditions before being adopted for permanent use.



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You have a friction problem? HEF DURFERRIT has the solution!