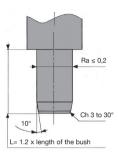
# METAFRAM® Self lubricating bushes

## **Assembly instructions**



### USING A MANDREI

(Hardened carbon steel, polished finish, surface hardness 60RC)

Tolerance Ø m6

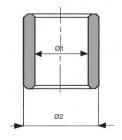
Fit the bush using a press ensuring that the correct diameter mandrel is used so that:

- ➤ the bushing is inserted correctly so as to ensure correct seating
- ➤ the tolerances of the bore are still correct after fitting

### INSERTING FORCE

Values are given assuming the tolerances are as follows; mandrel m6. bore H7 with Ra≤3.2 and considered to be rigid\*: 100daN/ cm2 (equivalent surface area at Øcm from exterior of bushing)

\* What do we mean by rigid? It is a bore or hole in steel (or possibly cast iron) where the wall thickness is a least 3 times the diameter of the bushing



### **BUSH BEFORE ASSEMBLY**

Ø interior -Ø1 cylindrical bush

(F8 for Ø1>50mm)

Ø interior -Ø1 flanged bush

F8

Ø interior -Ø2 cylindrical bush

(S8 for Ø2>50mm)

Ø interior -Ø2 flanged bush

**s**8



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## Technical information

# Chamfered edge Ra ≤ 3.2

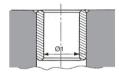
### STEEL HOUSING (in rigid material)

### Tolerance Ø H7

The tightness between the bush and the hole and the final tolerances of the bore of the bush have been calculated for a rigid steel housing.

For all other types of support (non rigid or other materials), the tightness may vary and practical tests should be carried out to confirm the bore tolerances.

### BUSH AFTER PRESS FITTING



Ø interior – Ø1 cylindrical bush H7 (H8 pour ø 1 >50mm)

Ø interior - Ø1 flanged bush ня

### SHAFT TO BE USED

Mechanical properties of steel depending on the type of bush For a BP25 bush

Chamfer Steel with a minimum hardness of 80 kg/mm<sup>2</sup> Ra < 0.6



Ø tolerance f7

Where bushes are fitted without additional support (Overmolding or gluing), use an h7 toleranced shaft rather than f7.

### OPERATING CLEARANCES

### Running fit H7/f7 or H8/f7

Assembly instructions should be followed to endure the correct operation of the self lubricating bush (lubricating, wear, rubbina).

