

## BELLOWS HIGH FREQUENCY WELDED

The high frequency welded bellows consist of punched disks welded inside and outside. High frequency welding achieves particularly good shape stability and high transverse stiffness.



Bellow high frequency welded

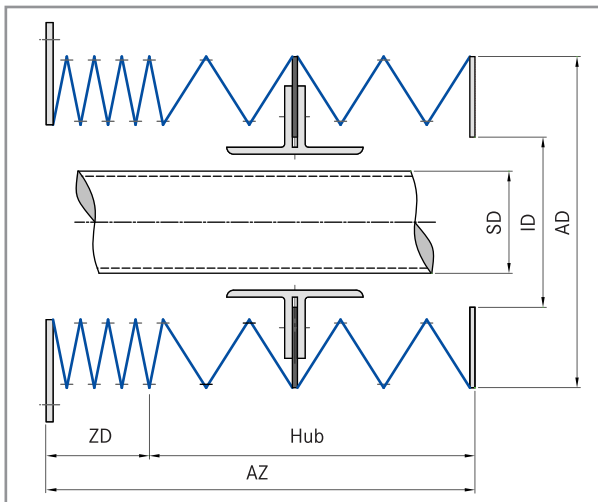
### Material

HF welded bellows protect spindles and shafts against liquids and oils. As standard material TPU 045/080 is used.

### Mounting position

HF bellows can be used horizontally or vertically. Additional support and guide rings made of synthetics assure a uniform distance from the spindle and so increase operating life. When with large extensions the stability of the bellows can be increased when a wire ring is installed in every fold.

The usual connecting and mounting elements are metal frames, but sleeves are an alternative.



Sectional view HF bellow

All dimensions in mm if not marked otherwise. Errors and omissions excepted.

### Design information

The correct bellow diameter should be about **10 mm larger** than the part they are to protect. Use the following formula for measurements..

#### Legend

AD	Outside diameter
FB	Fold width
ID	Inside diameter
FAZ	Fold extension
FZD	Fold compression
FStroke	Stroke per fold
SD	Diameter of spindle

HEMA Type	AD	ID	FB	FAZ	FZD	Material
RFHF72	72	33	19.5	15	1.2	TPU045
RFHF85	85	45	20	15	1.2	TPU045
RFHF95	95	53	21	15	1.2	TPU045
RFHF100	100	63	18.5	15	1.2	TPU045
RFHF120	120	82	19	15	1.2	TPU045
RFHF122	122	76	23	15	1.2	TPU045
RFHF130	130	90	20	15	1.2	TPU045
RFHF135	135	85	25	15	1.2	TPU045
RFHF135	135	85	25	18	1.2	TPU080
RFHF140	140	100	19	15	1.2	TPU045
RFHF145/1	145	93	26	18	1.2	TPU080
RFHF145/2	145	105	20	15	1.2	TPU045
RFHF150	150	110	20	15	1.2	TPU045
RFHF160	160	112	24	18	1.2	TPU080
RFHF170	170	125	22.5	18	2.2	TPU080
RFHF180/1	180	132	24	18	2.2	TPU080
RFHF180/2	180	141	19.5	18	2.2	TPU080
RFHF190	190	150	20	18	2.2	TPU080
RFHF200	200	152	24	18	2.2	TPU080
RFHF220	220	170	25	18	2.2	TPU080
RFHF220	220	170	25	18	2.2	TPU080
RFHF235	235	190	22.5	18	2.2	TPU080
RFHF245	245	200	22.5	18	2.2	TPU080
RFHF260	260	202	29	22	2.2	TPU080
RFHF266	266	216	25	18	2.2	TPU080
RFHF300	300	250	25	18	2.2	TPU080

Other dimensions and designs on request.

