

KBS® Pipe Seal M

Application Instructions for intumescent collars for plastic pipes

Description

KBS® Pipe Seal M consist of half shells and fixing parts. The pipe seals are supplied with bolts/nuts and fixing clamps.

Method of Installation: In case the gap between plastic pipe and wall or ceiling is not closed tightly, it has to be filled with incombustible and dimensionally stable material (f. e. conventional mortar). If mineral wool with melting point >1000°C will be used for filling, the gap width should be max. 10 mm (**picture 1**). Place the two half shells round the pipe so that the edges of the ring flanges point towards the wall/ceiling (**picture 2**). Then join the half shells loosely together with the supplied bolts/nuts at the straight flanges (**picture 3**).

Now push the pipe seal against the wall/ceiling. Press the distinctly bent ends of the fixing clamps on the ring flanges. Arrange them symmetrically round the pipe seal. Marking of the drill holes needed is carried out through the slot of the clamp beforehand (**picture 4**).

Depending on size (diameter) the following number of fixing clamps is needed (see table):

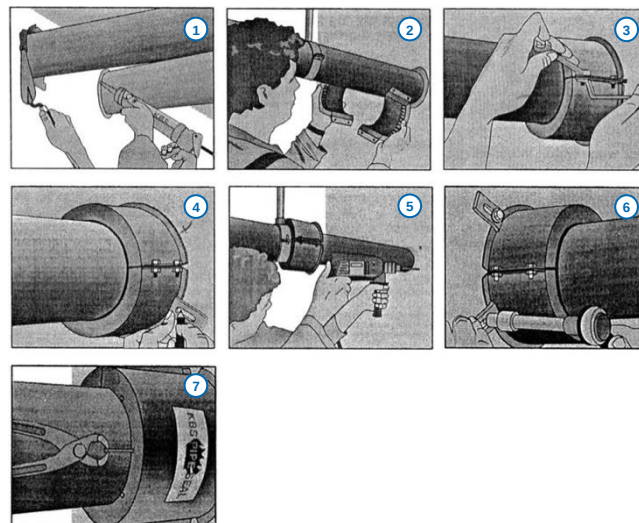
KBS® Pipe Seal		Clamps
Type	Size	Number
M	50 – 90	3
M	110 – 160	4
M	180	5
M	200 – 400	6

Push the pipe seal somewhat back when drilling the holes (**picture 5**).

For fixing the pipe seal we recommend:

KBS® Pipe Seal		Concrete Wall/Ceiling	Aerated Concrete Wall/Ceiling	Masonry walls
Type	Size	steel dowels	dowels/ steel bolts	dowels/ steel bolts
M	50 – 110	Hilti HSA M6x65 Upat Express Anker IMC 6/10/55	Hilti HRD-H 10/100	Hilti HRD-H 10/100 Upat URD FUS 10/100
M	125 – 250	Hilti HSA M8x85 Upat Express Anker IMC 8/20/81	Hilti HRD-H 10/100	Hilti HRD-H 10/100 Upat URD FUS 10/100
M	280 – 400	Hilti HSA M8x85 Upat Express Anker IMC 8/20/81	Hilti HRD-H 10/100	Hilti HRD-H 10/100 Upat URD FUS 10/100

Further tested dowels and bolts see separate table of manufacturer



For the installation in lightweight walls and panel seals, use penetrating threaded rods M6 (up to pipe seal size 110) or M8 (from pipe seal size 125) with nuts and spacing washers 6,5x20 or 8,5x25. In that case the fixing clamps are replaced by fixing brackets of the **KBS® Pipe Seal** programme. The fixing with threaded rods on concrete, aerated concrete or masonry walls/ceilings is also possible.

Press the **KBS® Pipe Seal M** against the wall/ceiling again. Secure bolts tightly at the straight flanges. Fasten the clamps with the bolts to the wall/ceiling. When fixing the pipe seal with bolts to the wall/ceiling, make sure that the edged ends of the clamps fit tightly against the ring flange (**picture 6**).

KBS® Pipe Seal M is provided with a mechanical closing device. The mechanical devices of all **KBS® Pipe Seal M** -types larger than 90 are secured with safety bolts. For release remove all safety bolts of the cuff end (opposite to wall/ceiling) with tongs (**picture 7**). **If this is not done, the pipe seal will not be effective in fire!**

Important

These installation instructions are recommended by the manufacturer. Further important details e. g. types or number of seals to be installed in walls or ceilings are stated in the approval certificated/test reports of the respective state or neutral approval/testing institute and have to be followed carefully.

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For further information:

Wolman Wood and Fire Protection GmbH, Robert-Hansen-Straße 1, 89257 Illertissen, Germany
 Phone +49 7303 9579108, Fax +49 8621 9038912, info@fire-protectors.com, www.fire-protectors.com

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