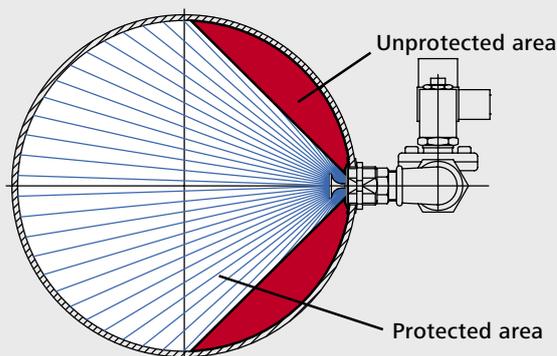


Section view of the duct at nozzle position:

Conventional plate nozzle

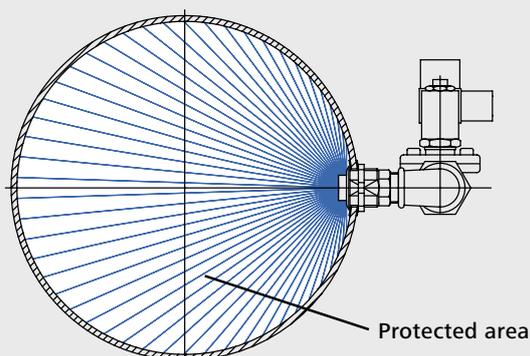


The water supply to the valve unit must come from a permanent accumulator, preferably a pressur booster unit DEA.

The solenoid valve opens after being activated via the corresponding fire detection control panel. As a result of increasing water pressure, the extinguishing water pushes a sealing element off the nozzle. Thanks to the special construction of the nozzle orifice and sealing element, the characteristic flat spray jet is created with a diffusion angle of 180°. After the extinguishing process, the nozzle closes automatically and is thus protected against dirt and residues.

The spray jet has a fan-shaped pattern and is therefore suitable for the rapid filling of conveyor tube sections with spark extinguishing systems. The flat spray nozzle can be used with an operating pressure of 3 up to 16 bar.

Minimax flat spray nozzle



Should the solenoid valve be damaged or defect, an unintended flow of water may occur. The flow control device integrated into the G1 valve unit recognises the undesired water flow and sends a fault message to the fire detection control panel.

The flat spray nozzle is screwed into the stainless steel mounting attachment or welding socket, both available as an accessory, and is sealed with an O-ring, thus ensuring that it is almost flush with the inner wall; there is practically no resistance to the passing particles in the conveyor system. Abrasions and dirt are reduced to a minimum.

For use in areas subject to frost, a special, made-to-measure and easily assembled insulation jacket is available as an accessory, which is used together with a self-regulating trace heating device.

Technical data

Type	Spraying characteristics	Version	Nozzle K-value	Position	Art. no.
F180K15	Flat spray 180°	Self-closing	15	Side wall	84 8201
F180K28	Flat spray 180°	Self-closing	28	Side wall	84 1302
F180K40	Flat spray 180°	Self-closing	40	Side wall	84 1303
F180K52	Flat spray 180°	Self-closing	52	Side wall	84 1304
Accessory type					Art. no.
Mounting socket M36x1.5-F180, stainless steel					84 3471
Welding socket F180 flat spray nozzle, steel					84 3353
Welding socket F180 flat spray nozzle, stainless steel					84 7877
Valve unit					
Valve unit G1 – FLA with LKM2001 with leakage detector					84 2055
Valve unit G1 – FLA with LKM2001 Ex with leakage detector					84 3321
Valve unit G1 – FLA without LKM2001 without leakage detector					84 2056
Valve unit G1 – FLA without LKM2001 Ex without leakage detector					84 3322
Approvals					
VdS: E 8850003					
FM system approval: 3028418					

We reserve the right to make technical changes.

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