DEC INTERNATIONAL TECHNICAL SPECIFICATIONS







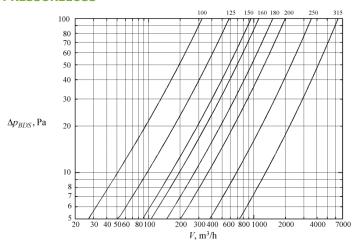
PRODUCT PROPERTIES

The butterfly shutter type BDS is used to preventing the reverse of air-flow in circular duct systems.

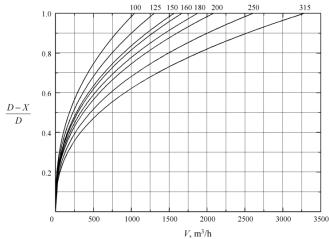
CONSTRUCTION

The casing of the BDS has been constructed from galvanised steel. The blades are made of aluminium. The shaft and the spring are made of stainless steel. The butterfly shutter is fitted with a return spring, which closes the blades onto a sound absorbing ring. Nominal diameters correspond to those in DIN 24145. For production range and main dimensions see the tables.

PRESSURELOSS



Opening of the butterfly blades as the function of air flow rate



INSTALLATION

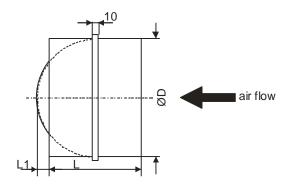
It is recommended to install the shutter into horizontal ducting. The shaft axis must be vertical. The shutter is installed into the duct by simple slide-in.

OPERATION CONDITIONS

The shutter is destined for operation in a standard environment with ambient temperature up to 60°C, for transportation of clean air free of coarse dust, grease, chemical vapors and other impurities.

DIMENSIONS (IN MILLIMETRES)

| Туре | ØD (mm) | L (mm) | L1 (mm) | Case thickness (mm) | Average weight |
|--------|------------|-----------|------------|---------------------------|-------------------|
| BDS100 | 098.6±0.4 | 88 | 6 | 0.55 | 0.13 kg |
| BDS125 | 123.6±0.4 | 88 | 19 | 0.55 | 0.17 kg |
| BDS150 | 148.8±0.4 | 88 | 31 | 0.55 | 0.22 kg |
| BDS160 | 158.6±0.4 | 88 | 36 | 0.55 | 0.24 kg |
| BDS180 | 178.8±0.4 | 88 | 46 | 0.55 | 0.26 kg |
| BDS200 | 198.6±0.4 | 88 | 56 | 0.55 | 0.29 kg |
| BDS250 | 248.6±0.6 | 128 | 61 | 0.8 | 0.68 kg |
| BDS315 | 312.7±0.6 | 128 | 94 | 0.8 | 0.81 kg |
| BDS355 | 352.7±0.6 | 198 | 65 | 0.8 | 1.47 kg |
| BDS400 | 398.7±0.6 | 198 | 94 | 0.8 | 1.68 kg |
| BDS450 | 448.7±0.6 | 248 | 80 | 0.8 | 2.43 kg |
| BDS500 | 498.7±0.6 | 248 | 107 | 0.8 | 2.76 kg |





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PLEASE NOTICE:

The consultant is responsible for the actual installation and mounting of the product. The mentioned values with respect to temperatures are not appropriate to be used to determine the physical properties. These properties are also dependent on humidity and the temperature of the air inside and outside of the H.V.A.C. system.

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