

## BDS

### BACK DRAUGHT SHUTTER

AIR MANAGEMENT SYSTEMS

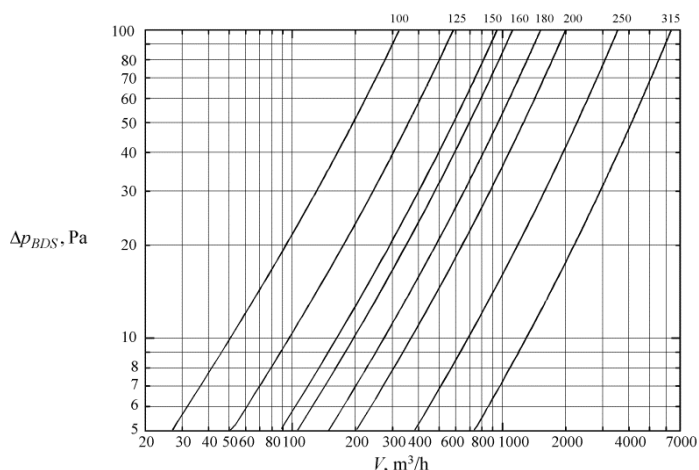
#### PRODUCT PROPERTIES

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

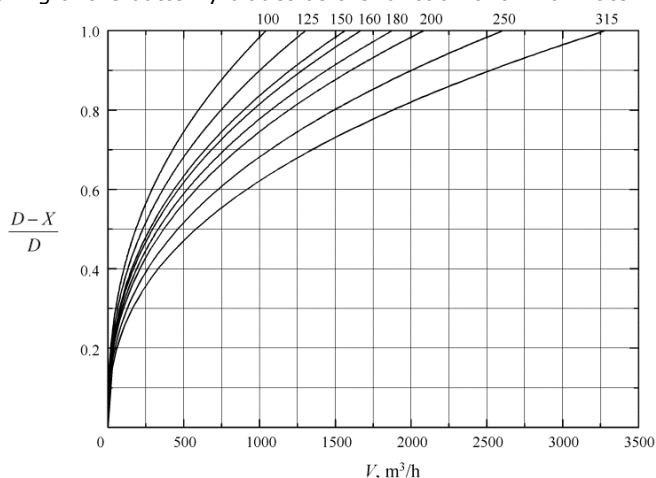
#### CONSTRUCTION

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 a function of air flow rate



#### INSTALLATION

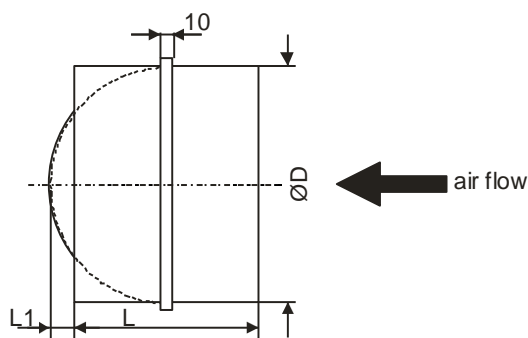
It is recommended to install the shutter into horizontal ducting. The shaft axis must be vertical. The shutter is installed into the duct by simple slide-in.

#### 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)

Type	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



#### LIABILITY:

The information contained in this brochure was current on the publication date. DEC INTERNATIONAL reserves the right to make changes in details at any time without prior notice. In order to avoid misunderstandings, any interested party is advised to contact DEC INTERNATIONAL checking for any changes in materials and/or information after this brochure was published.

#### 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.

#### TRADEMARKS:

DEC International and the DEC logo are trademarks, or registered trademarks of Dutch Environment Corporation BV in the Netherlands and/or other countries.

