



**Damper Rating:**  
 Leakage Rating : 1% based on 10 m/s air approach velocity at 1000 Pa.  
 Pressure Rating : 2000 Pa (standard construction)  
                       : 2000-7000 Pa (optional construction)  
 Velocity : 10m/s (standard)  
            : 15 m/s (optional)

**Application:**  
 Damper is designed for uni-directional airflow application. Damper may be installed 0.5D\* to 1D\* from the fan. For optional application, please consult factory.  
 D\* : equivalent diameter.

**Installation:**  
 During Installation, it is necessary to check that the airflow direction, damper orientation and that the damper is installed vertically upright. Damper should be connected to duct using fastening cleat and 4 holes will be provided for bolting. Damper shall be supported from below using support brackets.

No.	Parts	Description
1	Frame	Galvanized Steel, 2.0mm thk.
2	Bearing Base	Galvanized Steel, 1.5mm thk.
3	Blade Stop	Galvanized Steel, 2.0mm thk.
4	Blade Shaft	Zinc plated mild steel 12.7mm sq with round end Ø12mm.
5	Blade	Galvanized Steel, 2.0mm thk.
6	Opening Stopper	Silicone Foam, Ø8mm
7	Blade Bracket	Galvanized Steel, 1.5mm thk.
8	Bearing	Ø12mm steel ball bearing
9	Flange	Galvanized Steel, 2.0mm thk.
10	Blade & Stop seal	Silicone Seal
11	Gear	Stainless steel, 5.0mm thk.
12	Blade seal holder	Galvanized Steel, 1.2mm thk.

**Construction:**  
 Min. Size: 250 x 250 mm.  
 Max. Size Single module 900 x 1200 mm.  
 For width 400 mm and below, damper is single blade. For width above 400 mm, damper is double blade.  
 For single module damper and multiple modules damper, flange size, C is 50mm.  
 Damper depth, D is between 200 mm to 350 mm depending on damper width and height.

As a standard, damper is constructed with pre hot-dipped galvanized steel. Damper is also available in stainless steel SS304 or SS316.

- Features:**
- \* Low pressure required to open damper, test showed damper fully open at 5.5 m/s.
  - \* Low pressure loss achievable at 16Pa at 5.5 m/s based on test on 600 x 600 mm damper .
  - \* No rattling of blade due to air turbulence
  - \* Suitable for heavy duty application in close proximity to fan.
  - \* Low leakage of less than 1% based on approach velocity of 10 m/s at 1000Pa. Test on 600 x 600 mm damper indicated leakage of 0.015 m<sup>3</sup>/s/m<sup>2</sup> at 1000Pa.
  - \* No wear and tear of bearings, and damage of blade due to close proximity to fan.

In the interest of product improvement, we reserved the right to make changes without notice.

All dimensions are in mm

 <b>OLS<sup>®</sup> Manufacturing (S) Co. Pte. Ltd.</b> 3-B, Joo Koon Circle, Singapore 629034 Tel.: 68615253 Fax.: 68619850 email: sales@connols-air.com web: http://www.connols-air.com	<b>Title :</b>	<b>BD3000: Backdraft damper - Single Module</b>	Dwn. By :	Dwei <i>Dwei</i>	Date :	08/05/2020	Scale :	
	<b>Project :</b>			Chk. By :	JingJing <i>JingJing</i>	Dwg. No. :	DEXEP005-R3	N.T.S
			App. By :	Wong <i>wong</i>				