TSK-4

MULTILEAF DAMPER LEAKAGE CLASS 4 FOR RECTANGULAR DUCTS

- Robust construction
- Leakage class 4 - EN 1751
- Pressure class <= 1000 Pa
- Guide spigot

General information

Application
- TSK-4 is mainly used in rectangular ventilation ducts for shutoff, volumeflow control and pressure control
- The damper meets the requirements for leakage class 4 - EN 1751

Material and surfaces
- Frame profiles are made out of galvanised steel
- The damper blades are made out of aluminium and fitted with TPE gasket for tightness
- The axel is made of 10x10 square steel, and the sprockets and liner are made of special plastic
- The cover plate for the sprockets are made in galvanized steel

Installation and commissioning
- TSK-4 is delivered with guide connetion as standard, and can be easily mounted to ducts by using a track connectionsystem such as KSA, which fits the most common guide types in the market
- Always check the damper before the installation, and control the open/close function after installation
- The damper must always be mounted with the damper blades horizontally
- Dampers with width more than 1500 mm are delivered in two sections. These must be put together at the building site

Maintenance
- TSK-4 demands no specific maintenance at normal conditions.

Environment
- Enquiries regarding product declaration can be directed to our sales team, or information can be found at www.trox.no/en

TECHNICAL INFORMATION

TSK-4 can be delivered as 50 mm width and height moudule as standard, and is equipped with guide spigot. An actuator is available as accessory. The damper can also be delivered with circular duct connection. Maximum size for one damper is B = 1500 mm × H = 2000 mm. If the width is over 1500 mm an extension part is used for a total width up to 2600 mm. For damper with height 1400 mm up to 2000 mm, two actuators must be used. When the height exceeds 1200 mm a link suspension is used for better stability. The damper opens by rotating the axel counterclockwise (CCW). The sprockets are protected by a cover, and are placed outside of the airstream. TSK-4 has air leakage class 4 for damper in closed position, casing leakage class B, and complies with pressure class ≤ 1000 Pa. Operating temperature is -20 – 80 °C

Actuator	Function	Torque	Max area TSK-4
		[Nm]	[m²]
SFA 1TR 24V / 230V	On/Off spring return	20	2.6
SF24-SR	Modulating spring return	20	2.6
NM24A / NM230A	On/Off	10	2
NM24A-SR / NM230A-SR / NM24A-MOD	Modulating	10	2
SM24A / SM230A	On/Off	20	2.6
SM24A-SR / SM230A-SR / SM24A-MOD	Modulating	20	2.6

Note: For height 1400 - 2000 mm, two actuators must be used

H \ B	200	400	600	800	1000	1200	1400	1500	500	700	900	1100	1300	1500
									× 1036					
									1600	1800	2000	2200	2400	2600
200	10	10	10	10	10	10	10	10	20	20	20	20	20	20
400	10	10	10	10	10	10	10	10	20	20	20	20	20	20
600	10	10	10	10	10	10	10	20	20	20	20	20	20	20
800	10	10	10	10	10	10	20	20	20	20	20	20	20	20
1000	10	10	10	10	10	10	20	20	20	20	20	20	20	20
1200	10	10	10	10	10	20	20	20	20	20	20	20	20	20
1400	2×10	2×10	2×10	2×10	2×10	2×10	2×10	2×20	2×20	2×20	2×20	2×20	2×20	2×20
1600	2×10	2×10	2×10	2×10	2×10	2×10	2×10	2×20	2×20	2×20	2×20	2×20	2×20	2×20
1800	2×10	2×10	2×10	2×10	2×10	2×10	2×20	2×20	2×20	2×20	2×20	2×20	2×20	2×20
2000	2×10	2×10	2×10	2×10	2×10	2×20	2×20	2×20	2×20	2×20	2×20	2×20	2×20	2×20

The table shows a selection of recommended Belimo actuators, given in Nm. See table 1 for actuators.

TSK-4	/	1000	×	2000	/	0	/	0
|		|		|		|		|
1		2		3		4		5

1 Type
TSK-4 Damper

2 Width [mm]
200 – 2600

Damper with a width of more than 1500 mm, and up to 2600

mm, consists of two dampers put together.

3 Height [mm]
200 – 2000

Damper with a height of over 1400 mm must be equipped with two actuators.

4 Control components

0 manual lever

1 NM24A

2 NM230A

3 NM24A-SR

4 NM230A-SR

5 SM24A

6 SM230A

7 SM24A-SR

8 SM230A-SR

9 SFA.1 TR 24 V

10 SFA.1 TR 230 V

11 SP24A-SR

12 NM24A-MOD

13 SM24A-MOD

5 Circular connection [Ø mm]
No entry: standard
400 – 1250