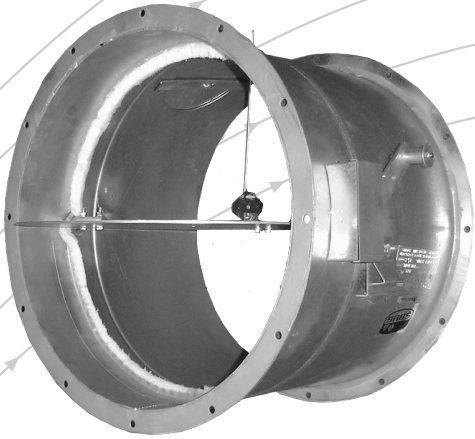
SA/6/2/EN/2

Circular Fire Dampers

Type FRK / FRL



TROX® TECHNIK

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Contents • Description

The TROX fire damper series FRK / FRL provides isolation of fire areas in venitlation and air conditioning systems. The construction and operation corresponds to the principal requirements of fire protection installations. The symetrical position of the damper blade facilitates installation into walls or ceilings independent of the direction of entry air flow.
The external operation and control components - manual lever - position indicator - manual release enables the installed damper to be rapidly checked for correct functioning.

The thermal holding device arranged within the casing has a release temperature of 72°C. The use of corrosion proof materials makes the damper almost free of maintenance.

Materials:
Casing and attachments of galvanised sheet steel.
Alternatively:
- Casing and attachments in stainless steel

Types: FRL/FRK

FRL

– Casing with galvanised sheet steel angle blade stops on all sides
– Damper Blade: 3mm plate
– Bearings: Brass Brushes
– Attachments galvanised sheet steel
– Thermal Release fusible link, release temperature 72° C

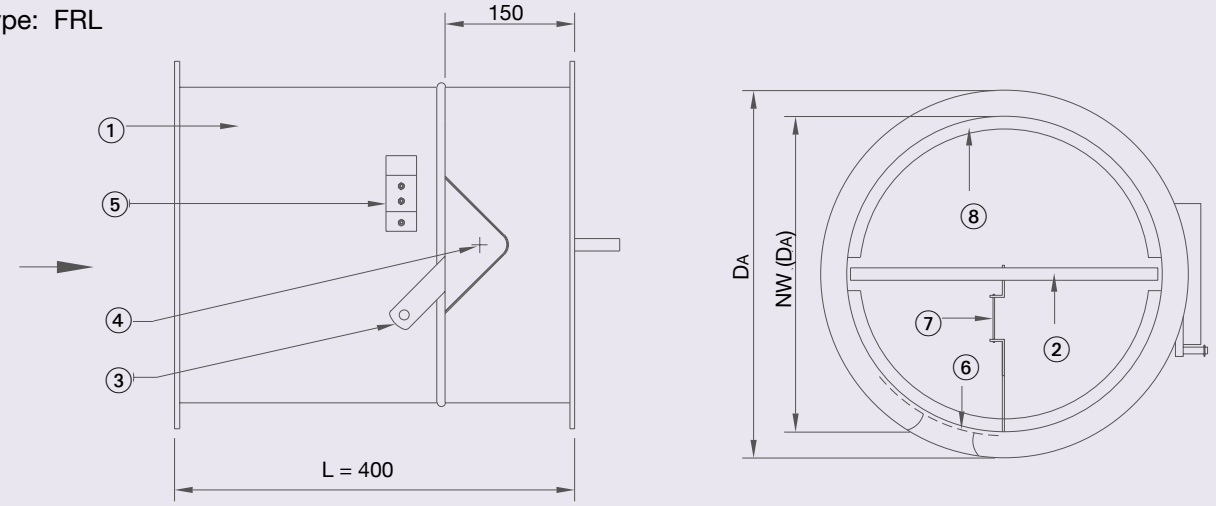
① Casing
② Damper Blade
③ Manual Lever
④ Closing Spring
(Type FRL: tension spring, Type FRK: torsion spring)

FRK

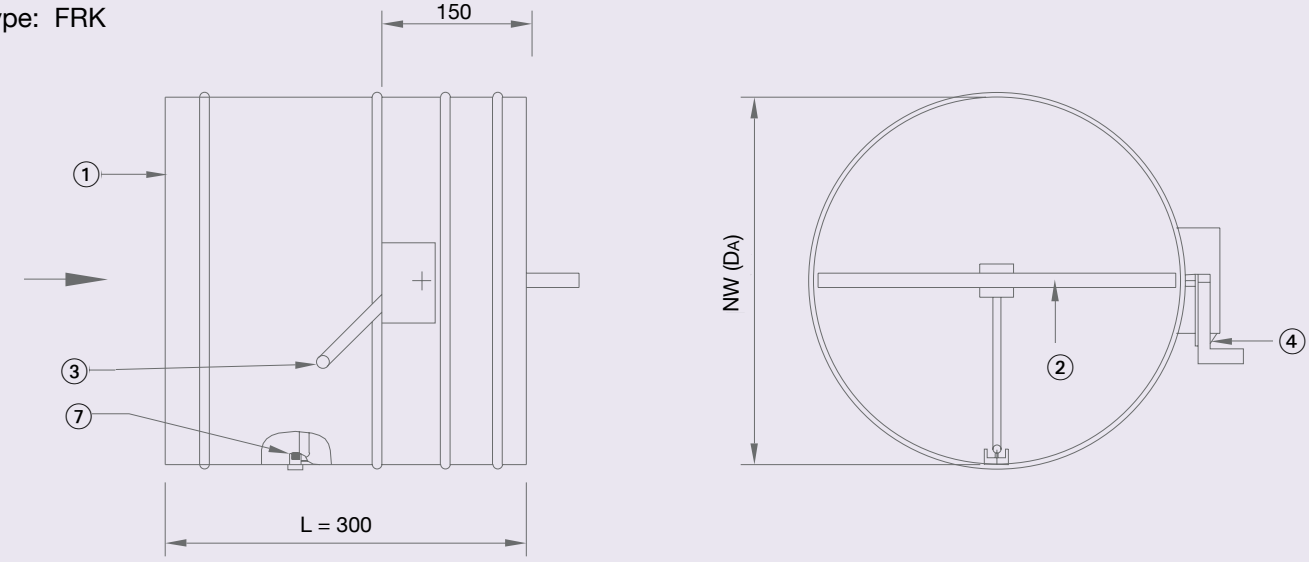
– Casing galvanised sheet steel
– Damper Blade: 3mm plate
– Bearings: Brass Brushes
– Attachments galvanised sheet steel
– Thermal Release via glass cartridge, release temperature 72° C

⑤ Locking Plate
⑥ Inspection Panel
⑦ Fusible link or glass cartridge
⑧ Blade stop (FRK-F without stops)

Type: FRL



Type: FRK



Diagrams show type FRL and FRK external controls right hand side “R” viewed in direction of arrow (not necessarily the direction of air flow)

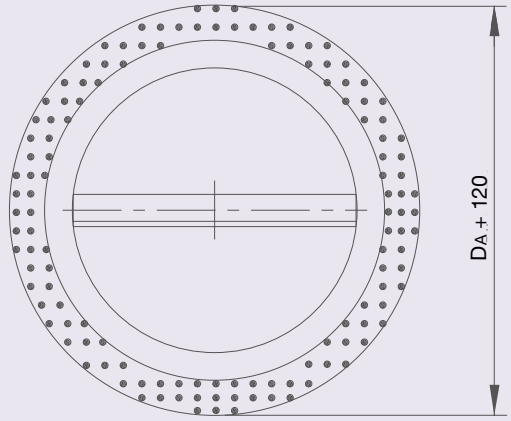
Standard Sizes • Installation Details

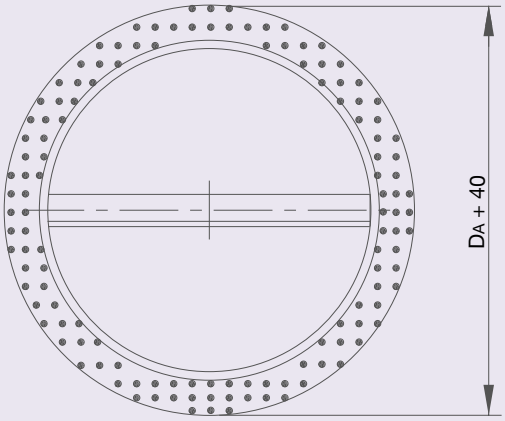
Type: FRL

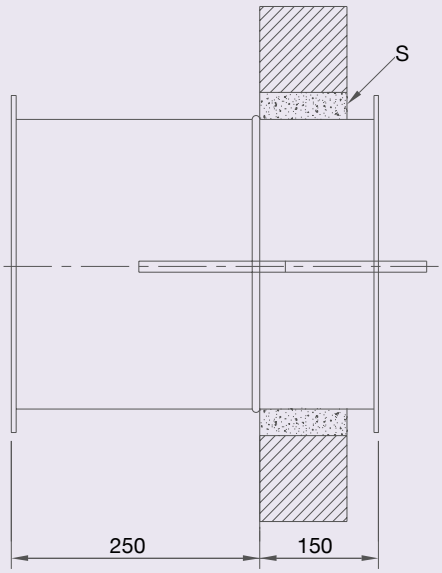
Size	∅ D_1 in mm	∅ D_A in mm	Free cross section area in m^2
			Type FRL
315	322	382	0.062
400	404	464	0.104
500	507	567	0.171
630	638	708	0.280

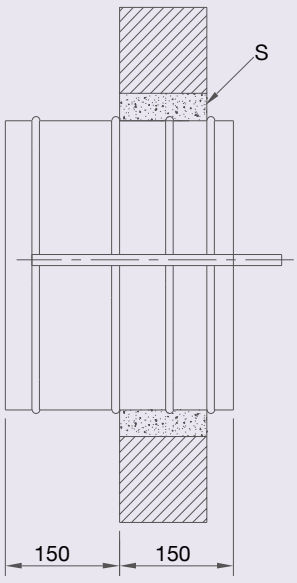
Type: FRL

	x D_A in mm	Free cross section area in m^2
		Type FRL
100	99	0.005
125	124	0.009
160	159	0.016
200	199	0.026
250	249	0.043
315	314	0.070



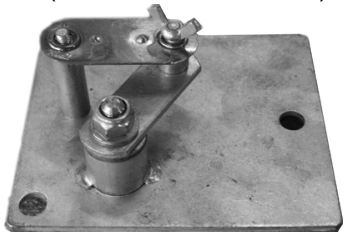






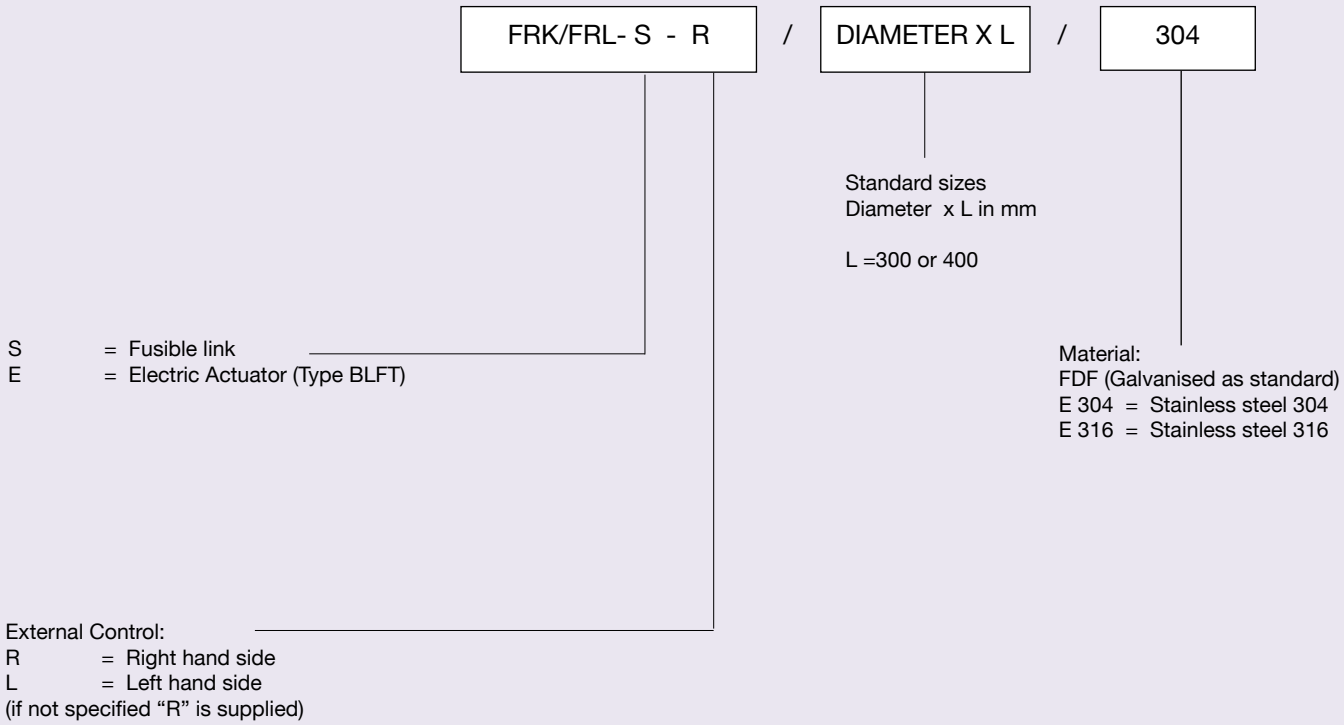
Gap “s” must be filled with mortar or concrete. The fire damper can also be installed during construction of the masonry wall or during concreting. The peripheral gap “s” is then not required. During installation ensure that the casing of the fire damper is not distorted otherwise it’s operation can be affected.

All dampers can be installed in a ceiling slab with the long end of the open damper blade above or below the slab.

Construction or Construction variant	Combined with	Code
With fusible link (Standard construction) 	Standard fusible link - 72°C	S
	Belimo BLF 230V/24V spring return actuator	BLF_T
	Thermal release mechanism (single action only)	
	Built in limit switches for open and closed position	
	Replacement thermal trip Tf2 available	ZBAE72
	Belimo BFL/BFN 230V/24V spring return actuator	B_ _VT
	Thermal release mechanism (single action only)	
	Built in limit switches for open and closed position	
	Replacement thermal trip Tf2 available	ZBAE72
	Spare fusible links optional	05GX-G157-A

Order Details

Order Code



Specification Text

Circular fire dampers for the isolation of fire zones in air conditioning systems, certified to SABS 193:2004

Description of materials, construction variants, accessories, etc. can be taken from the publication.

Order Example

Make: TROX
Type: FRK-E-BLF230T /315 X 300 / 304
FRL-S-R / 400 x 400 /304