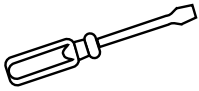


Fire damper valve
Palopeltiventtiili
Brandventil

KSOF

Instructions for installation, operation and maintenance
Asennus-, käyttö- ja huolto-ohjeet
Monterings-, drift- och underhållsanvisning



Flexible walls
Kipsilevyseinät
Byggnadsdel av gips

Rigid walls and floors
Kivirakenteiset seinät ja välipohjat
Massiv byggnadsdel, tak och bjälklag

- ① Fire damper valve/Palopeltiventtiili/Brandventil
- ② Mounting ring/Kiinnityskehys/Fästram KKT
- ③ Steel duct/Teräskanava/Kanal av stål

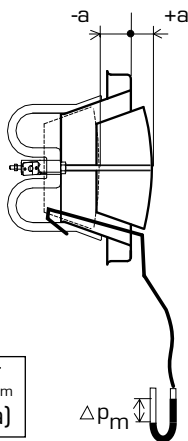
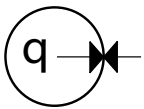
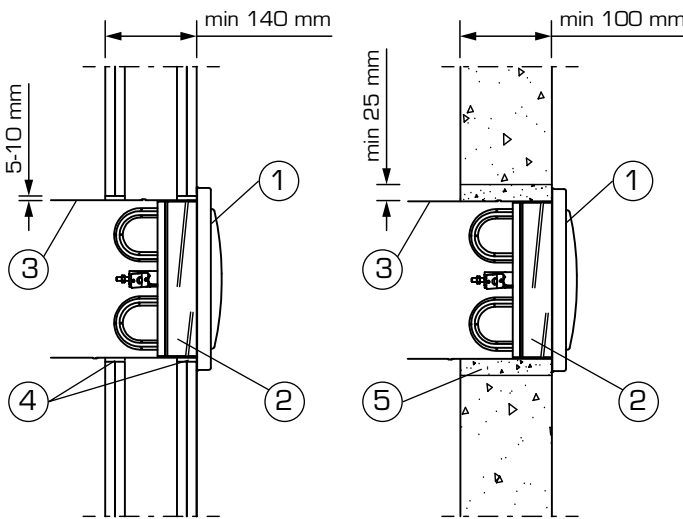
**Penetration seal/Läpiviennin tiivistys/
Tätning av genomföring:**

- ④ 5-10 mm Fire-resistant mass/Palomassa/Brandmass
Silacoll 100 or similar/tai vastaava/eller motsvarande
- ⑤ Min 25 mm
Mortar/Betonilaasti/Murbruk

Mounting frame KKT is fixed to the air duct and wall or floor structure with galvanized rivets or screws. Fire damper valve KSOF is attached to mounting frame KKT with screwing motion.

Kiinnityskehys KKT kiinnitetään kanavaan ja seinä- tai kattorakenteeseen teräksisillä pop-niiteillä tai ruuveilla ja venttiili kierretään kiinni kiinnityskehykseen.

Fästramen KKT ansluts i kanalen och i byggnadsdel, tak eller bjälklag, med popnit av stål eller plåtskravar. Ventilen vrids mot fästramen på sin plats.



$$q = k \sqrt{\Delta p_m}$$

(l/s) (Pa)

$$q = 3.6k \sqrt{\Delta p_m}$$

(m³/h) (Pa)

KSOF-100	k
-15	0,5
-12	0,8
-10	1,0
-5	1,4
0	1,9
+5	2,3
+10	2,8

KSOF-125	k
-10	1,5
-5	2,1
0	2,7
+5	3,3
+10	4,0

KSOF-150 KSOF-160	k
-10	2,0
-5	2,8
0	3,6
+5	4,4
+10	5,3
+15	6,2

KSOF-200	k
-3	1,8
0	2,4
+5	3,8
+10	5,0
+15	6,3
+20	7,5
+25	8,6



Inspection and cleaning have to be done according to national regulations or minimum twice a year.
WARNING! Please handle carefully springloaded release mechanism.

Tarkastus ja puhdistus on tehtävä kansallisten määräysten mukaisesti tai vähintään kaksi kertaa vuodessa.

VAROITUS! Käsittele varoen jousikuormitettua laukaisumekanismia.

Inspektion och rensning skall göras enligt national regulations eller minimum two gånger per år.

VARNING! Hantera försiktigt utlösning mekanism.



1. Unique identification code of the product-type:
Fire Damper Valve KSOF
2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):
Fire Damper Valve KSOF-aaa
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:
Fire damper to be used in conjunction with fire separating elements to maintain fire compartmentation
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant Article 11(5):
Fläkt Woods Oy, Kalevantie 39, 20520 Turku, Finland
Tel. +358204423000, Fax: +358204423022, Email: info.fi@flaktwoods.com
5. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
System 1
6. **SP Technical Research Institute of Sweden, Nr. 0402**
Performed **determination the product type on the basis of type testing; initial inspection of the manufacturing plant and of factory production control; continuous surveillance, assessment and evaluation of the factory production control (FPC)**
under system **1** and issued: **Certificate of constancy of performance - 0402-CPR- SC0768-13.**

7. Declared performance:

Essential characteristics	Performance			Harmonized technical specification
Nominal activation conditions/sensitivity: - sensing element load bearing capacity - sensing element response temperature	Pass			
Response delay (response time): - closure time	Pass			
Operational reliability: - cycling	Pass			
Fire resistance:	Installation in flexible wall	Installation in rigid wall	Installation in rigid floor	EN 15650:2010
- integrity	E 60	E 120	E 120	
- insulation	-	-	-	
- smoke leakage	E 45 S	E 120 S	E 60 S	
- mechanical stability (under E)	Pass	Pass	Pass	
- maintenance of the cross section (under E)	Pass	Pass	Pass	
Durability of response delay: - sensing element response to temperature and load bearing capacity	Pass			
Durability of operational reliability: - open and closing cycle tests	NPD			

8. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Jari Hokkanen, R&D Manager

Turku 10.2.2014

