



PKIR3G

Item no. **G1087**

Document type: **Product card**

Document date: **2019-03-14**

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Description

Examples of the ordering codes:

Round fire dampers - dimensions DN > ø 630 mm, example:

PKIR-EI90S - 1000 - DV7-T

Circular fire damper with fire resistance EI90S, diameter ø 1000 mm with actuator 230 V and thermoelectric fuse.

Rectangular fire dampers - dimensions W > 800 mm and / or H > 600 mm, example:

PKIS-EI120S - 1600×1000 - DV9-T-SR

Rectangular fire damper with fire resistance EI120S, nominal dimensions width × height = 1600 × 1000 mm, with modulating actuator 24 V and thermoelectric fuse.

Round fire dampers 3G - dimensions DN ≤ ø 630 mm, example:

PKIR3G - 400 - DV5-2

Circular fire damper, nominal diameter 400 mm, with 24 V AC electromagnetic release mechanism in impulse connection (release takes place when the electromagnet is activated) plus 230 V switches indicating the damper's closed and open position, fire resistivity depends on the installation method in Tab. 1 (see TPI 28_PKIR_PKIS_EN_201411 in Documentation tab).

Rectangular fire dampers 3G- dimensions 800 < W ≤ 1200 mm and 100 ≤ H ≤ 300 mm, example:

PKIS3G - 800×600 - DV1-2

Rectangular fire damper, nominal dimensions width × height = 800 × 600 mm, with open and closed position indication with 230 V contact microswitches. Fire resistivity is depending on the installation method in the Tab. 2(see TPI 28_PKIR_PKIS_EN_201411 in Documentation tab).

Garage fire damper 3GA - dimensions 800 ≤ W ≤ 1200 mm and 100 ≤ H ≤ 300 mm

PKIS3GA - 850×150 - DV7-T

Rectangular fire damper, nominal dimensions width × height = 850 × 150 mm, with actuator 230 V and thermoelectric fuse. Fire resistivity is depending on the installation method in the Tab. 2 (see TPI 28_PKIR_PKIS_EN_201411 in Documentation tab).



Description

Standardly all fire dampers are designed and certified in accordance with the test criterias EIS according to EN1366 - 2. Fire dampers PKIR and PKIS are designed for installations listed on page 14. Their installation is described in the Installation, operation and inspection manual of the fire dampers PP-28_PKI... By default, all fire dampers are supplied with manual control and optional with micro switches, electromagnets, or with the servomotor, optionally with power and communication unit. The activation mechanisms are removable and all are interchangeable, for example instead of a manual mechanism with a servomotor mechanism. Exceptions are circular fire dampers diameter bigger as ø 630 mm and modulated fire dampers (activating mechanism DV9-T-SR), which do not have removable mechanism. Modulated fire dampers are produced from DN and H = 160 mm and bigger.

All circular and rectangular fire dampers have tightness of the blade/casing class 2B according to EN 1751. On demand fire dampers 3G can be supplied with tightness class 3C. Fire dampers PKIR3G DN 450 up to 630 mm have standardly tightness class 3C.

Manually operated fire dampers

In case of fire, the fire damper is automatically set to the closed position. Depending on the version, the damper closes either after melting of the thermal fuse or by means of activating the electromagnet in impulse connection, or disconnecting the electromagnet in interrupted connection (see wiring diagrams in the Installation, operation and inspection manual of the fire dampers PP-28_PKI...). After the closing of the damper blade is mechanically locked in the closed position and can only be opened manually. Actuating mechanism is activated when the temperature of the air in the duct reaches 74 °C and damper closes within 10 seconds after melting of the fuse.

Servomotor-operated fire dampers

Fire damper can be equipped with a servomotor which closes the damper after the command from building management system, or after breaching of the thermoelectric fuse. Servomotor controlled fire dampers are standardly equipped with thermoelectric fuse that activate the closing of the damper after breaching or exceeding of ambient temperature of 72 °C, servomotor circuit is interrupted and the spring closes the damper blade within 20 seconds.

Information about accessories for the fire dampers PKIR and PKIS are on the page 12.

- PRR and PRS - Coverplates
- MPA - METO-PG20 adapter
- MPC - METO-PG clutch
- CVR, CVRF and CVS - Thermal dilatation compensator
- SSAR and SSAS - Adapter with smoke sensor
- RFA - Flanges for the circular fire dampers
- IKRR, IKRS and IKSS - Installation kit

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- IPOR, IPOS - accessory for installation out of the wall

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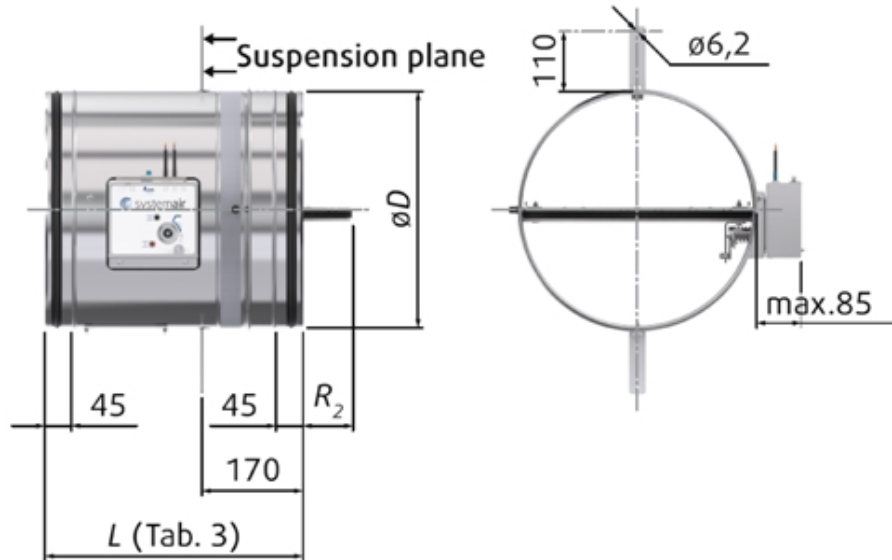
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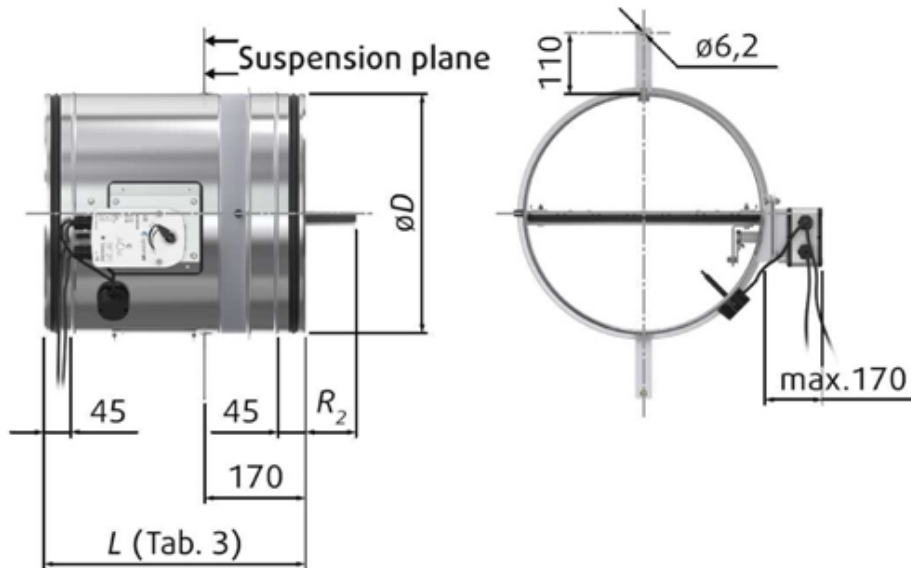


Accessories

Dimensions



Dimensions of the manual circular fire damper PKIR3G - nominal diameter \varnothing 100 to 630 mm



Dimensions of the servomotor controlled circular fire damper PKIR3G - nominal diameter \varnothing 100 to 630 mm

DN	$\varnothing D$	L		m		R1	R2
		Manual	With servomotor	Manual	With servomotor		
		(mm)		(kg \pm 10%)		(mm)	
100	98	435		3,7	4,7	-	-
125	122			3,4	4,9	-	-
140	137			3,6	5,1	-	-
150	147			3,7	5,2	-	-
160	157			3,8	5,3	-	-
180	177			4,2	5,7	-	-
200	197			4,4	5,9	-	-
225	222			4,8	6,3	-	-
250	247			5,3	6,8	-	-
280	277			5,8	7,3	-	14
315	312			6,4	7,9	-	31,5
355	352			7,3	8,8	-	51,5
400	397			8,3	9,8	-	74
450	447			427		11,1	11,9
500	497	12,3	13,1			-	133
560	557	14,6	15,4			-	163

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630	627			17,0	17,8	-	198
710	707			27,6	30,4	25	165
800	797	600	500	33,8	36,6	70	210
900	897			39,8	42,6	120	260
1000	997			46,6	49,4	170	310

Weights of the circular fire dampers and the overhangs of the fully open blades

NOTES:

R1 and R2 = Overhang of the fully open blade, including seals and gaps after opening

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Wiring


 WiringDiagramsPKIRS.pdf (216,36kB)

Documentation

 DoP28_PKIR_E_EN.pdf (139,40kB)

 CoCoP_PKIR3G_EN.pdf (1,09MB)

 UserManual_PKIR_PKIS_EN_201803.pdf (13,21MB)

 TPI 28_PKIR_PKIS_EN_201411.pdf (7,16MB)

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