

#### Purpose

The ERGO-L/Z/Ex extraction arms are designed for capturing the dust and gases arising during technological processes, especially in areas of explosion risk, where explosive atmosphere can occur, as a mixture of flammable substances in form of dust or gases with the air. ERGO-L/Z/Ex extraction arms have been classified as devices of group II, category 2, of gaseous risk G and dust risk D.

The devices guarantee high level of protection, therefore they can be applied in areas 1(G) or 21(D). Admissible temperature of the forwarded air is  $+70^{\circ}$ C.

#### Structure

ERGO-L/Z/Ex extraction arms consist of following elements:

- full-rotation swivel stainless steel,
- circular hood stainless steel,
- two pipe segments with joints all elements are of stainless steel,
- frictional spacers made of textolite,

- gas springs of stainless steel,
- shut-off damper located in the pipe segment near above the hood stainless steel,
- hose sections (joining the pipe segments) made of polyurethane conducting electrical charges and a steel wire spiral.

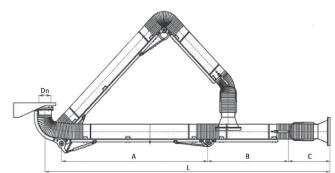
Superficial resistance  $<10^6 \Omega$ . Elements of steel plate, pipes and stainless profiles are made of material 1.4301 according to PN-EN 10088, whereas screw materials, washers and rivets are of material A2 according to PN-EN ISO 7089.

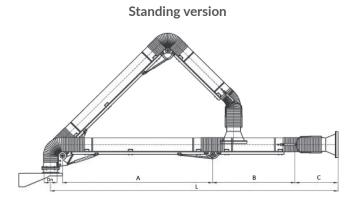
All constructional elements are joined together by copper cables to conduct the electrostatic charges to the grounding installation.

ERGO-L/Z/Ex extraction arms are manufactured according to ATEX 95 (94/9/EC) Directive and carry the Type Research Certificate No 737/CW/001 issued by Technical Supervision Office.

## ERGO/Ex







## **Technical data**

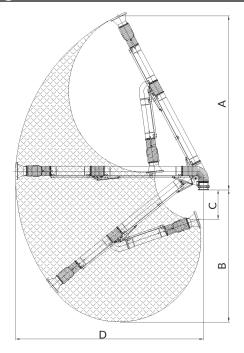
Туре	Part no.	Dimensions					Weight
		Dn [mm]	L [mm]	A [mm]	B [mm]	C [mm]	[kg]
ERGO-L/Z-2/Ex	814R21	160	2280	947	580	534	22,5
ERGO-L/Z-3/Ex	814R22	160	3100	1527	820	534	25,5
ERGO-L/Z-4/Ex	814R23	160	3710	1907	1050	534	28,0
ERGO-L/Z-2-R/Ex	814R24	160	3710	947	580	534	19,5
ERGO-L/Z-3-R/Ex	814R25	160	3033	1527	820	534	22,5
ERGO-L/Z-4-R/Ex	814R26	160	3643	1907	1050	534	25,0

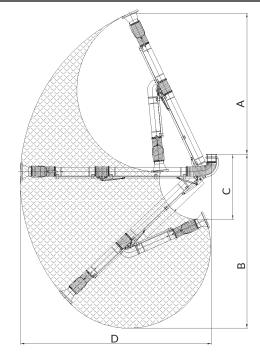
Hood							
Sort of hood	Material	Туре	Part no.	d [mm]	D [mm]	Weight [kg]	
a Contraction D	stainless steel	LS	810H35	160	336	1,3	

Wall bracket							
S D	Туре	Part no.	Dn [mm]	S [mm]	L [mm]	Weight [kg]	
	WBN-160/Ex	817W45	160	320	445	3,9	

#### ERGO/Ex

# Work ranges of the ERGO/Ex extraction arms





Turne	A [mm]	B [mm]	C [mm]	D [mm]	1	
Туре	A [IIIII]	D[IIIII]	C [IIIII]	D[IIIII]		
ERGO-L/Z-2-R/Ex	2110	1487	122	2213		E
ERGO-L/Z-3-R/Ex	2835	2092	409	3033		E
ERGO-L/Z-4-R/Ex	3374	2561	573	3643		E

Туре	A [mm]	B [mm]	C [mm]	D [mm]
ERGO-L/Z-2/Ex	1440	1650	800	2280
ERGO-L/Z-3/Ex	2195	2888	922	3100
ERGO-L/Z-4/Ex	2732	3372	1266	3710

#### Flow charts of the ERGO/Ex extraction arms

