

Gas-tight ventilation duct

BSL-3

BSL-4

Gas-tight ventilation ducts are required to establish a secure connection between the supply and exhaust air ducts of a BSL-3 / BSL-4 containment. In accordance with international guidelines, the definition of containment is not limited to the room envelope, but includes the gas-tight ducts up to and including the HEPA filters or gas-tight dampers. The round ventilation ducts are designed for the requirements of BSL-3 and BSL-4 laboratories and

are screwed to the ceiling or wall panels with a PTFE seal. The ducts are resistant to the decontamination agents used and are fitted with flanges on both sides. The high precision of the modular room design, together with the coordinated BIM planning, enables the gas-tight ventilation ducts to be positioned exactly where they are needed. This completely eliminates the need for time-consuming positioning and welding on site.

Characteristics

Construction	gas-tight ventilation duct, tightly integrated into the room system
Sizes	DN 150 - DN 400 special sizes possible
Possible interfaces	flange connection for connection to the on-site ventilation outside the gas-tight room system on the room side for connection to a Biosafety Cabinet to an isolator or to a ventilation box
Installation situation	installation in the gas-tight ceiling or gas-tight, single-shell wall system
Flange standard	on the room side: DIN 24 154 Series 2 Part 2 (version: July 1990) or flanged edge outside the room system: DIN 24 154 Series 2 Part 2 (Version: July 1990) or flanged edge
Flange version	fixed flange: one-piece / round / with through holes foose flange: two-piece / welded / round / with through holes (position: behind flared edge) flared edge: one-piece / round
Quality	FAT protocol

Material

Ventilation pipe	stainless steel Mat. no. 1.4301 2.0 mm
Flange	stainless steel Mat. no. 1.4301 6.0 mm or 8.0 mm

Technical data

Dimensions	DN 150	-	DN 400
Total length	approx. 180 mm		approx. 180 mm
Length room side	approx. 50 mm		approx. 50 mm
Length outside the room system	approx. 130 mm		approx. 130 mm
Volume flow	of 200 m ³ /h		up to 2500 m ³ /h

Special fittings

Material	version in Mat. no. 1.4404
----------	----------------------------

