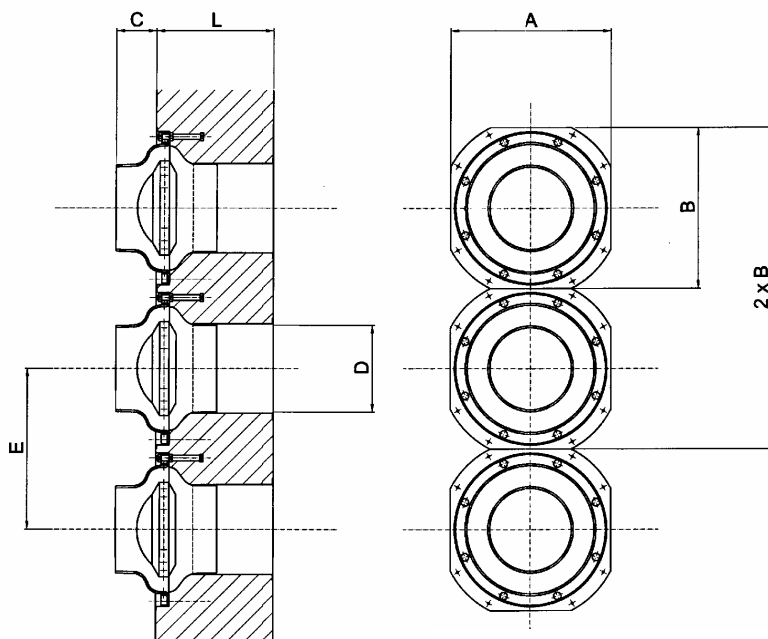


Lunor blast valves ESV are used in air outlet openings of civil defence shelters, military facilities and industrial buildings to block out the destructive effects of all type of explosions. The valve is tested and approved by the Armament Technology and Procurement Group of Switzerland and is designed according to the directives of the Swiss Federal Office of Civil Defence.

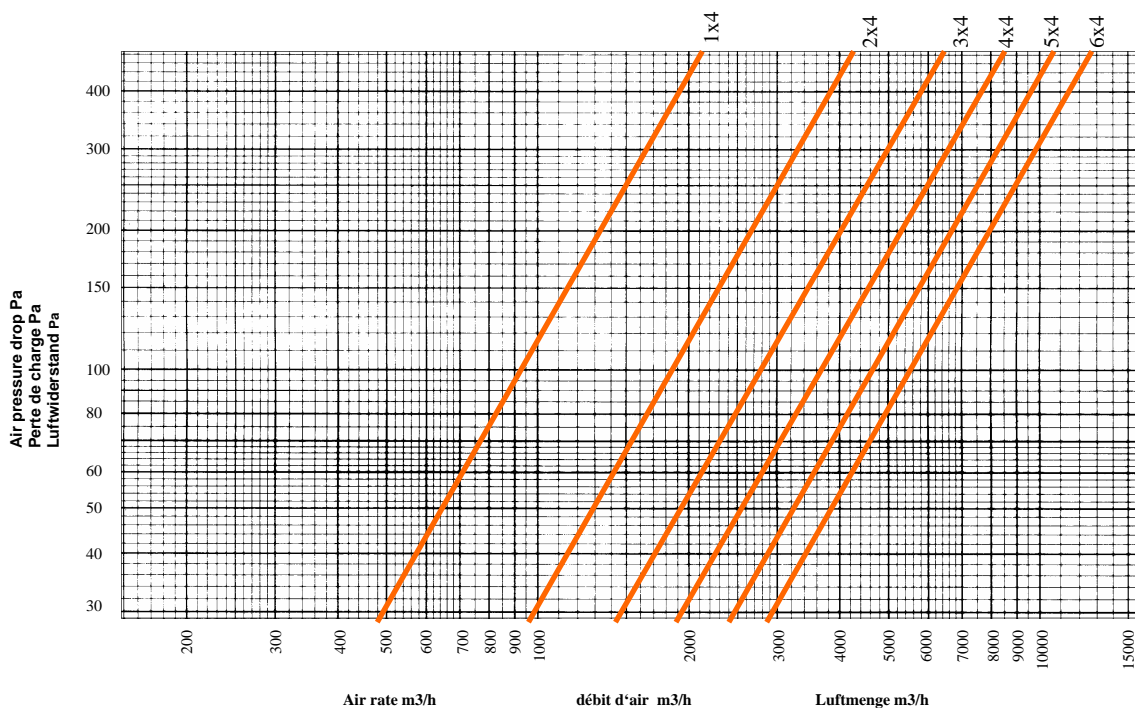


Designed: ESV 3x4

Dimensions of wall frames

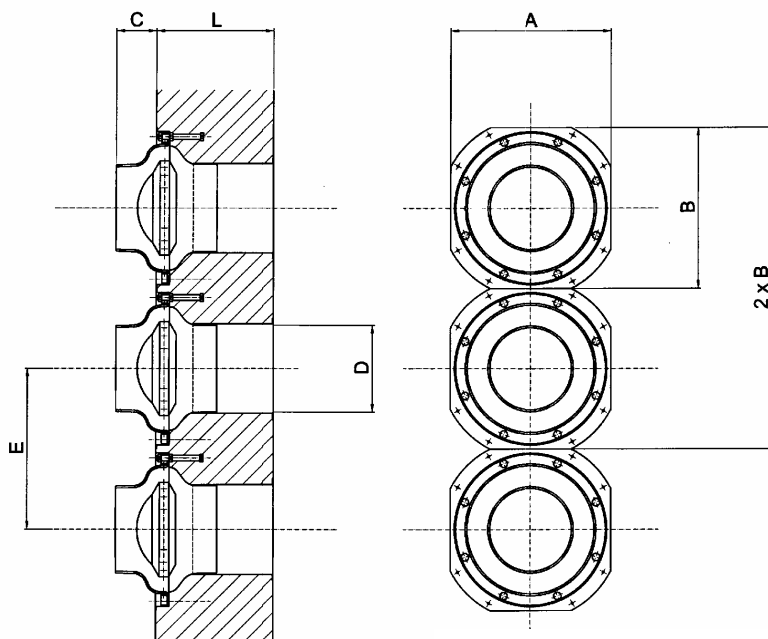
Type	A	B	C	D	E
1x4	410	410	122	228	411
2x4	410	821	122	228	411
3x4	410	1232	122	228	411
4x4	410	1643	122	228	411
5x4	410	2054	122	228	411
6x4	410	2465	122	228	411

L = Wall thickness according to order



ESV 1x4 used as air outlet valve

Lunor blast valves ESV are used in air intake openings of civil defence shelters, military facilities and industrial buildings to block out the destructive effects of all type of explosions. The valve is tested and approved by the Armament Technology and Procurement Group of Switzerland and is designed according to the directives of the Swiss Federal Office of Civil Defence.

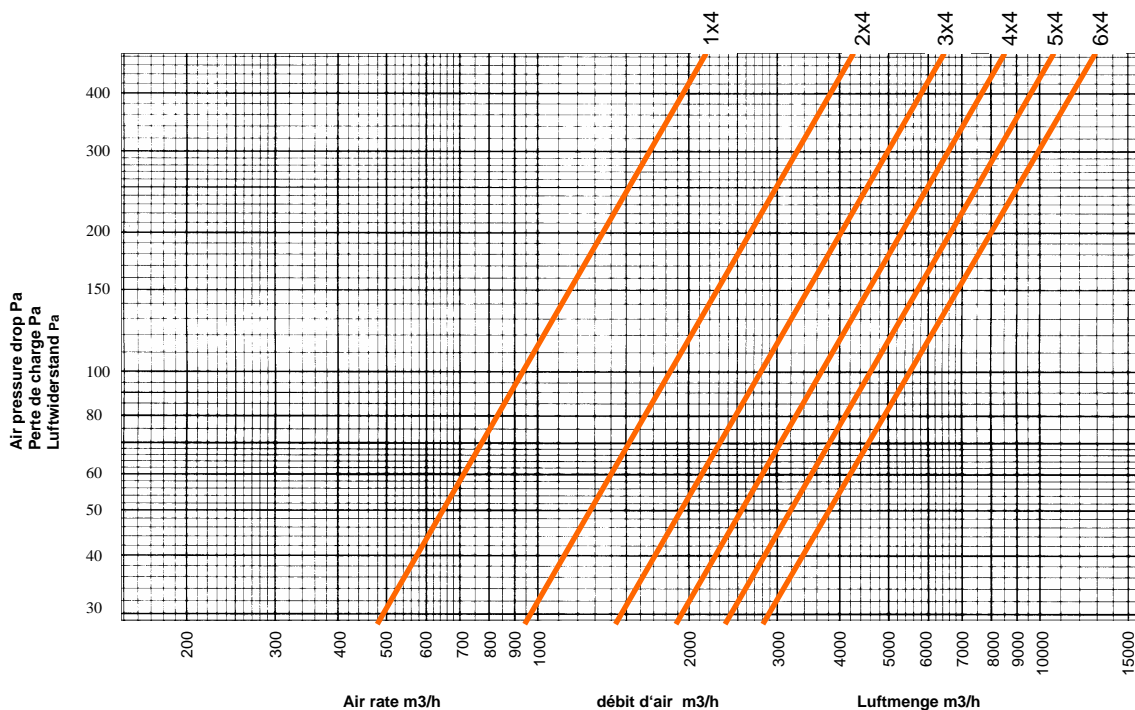


Designed: ESV 3x4

Dimensions of wallframes

Type	A	B	C	D	E
1x4	410	410	122	228	411
2x4	410	821	122	228	411
3x4	410	1232	122	228	411
4x4	410	1643	122	228	411
5x4	410	2054	122	228	411
6x4	410	2465	122	228	411

L = Wall thickness according to order



ESV 1x4 used as air intake valve without pre-filter

**Explosion protection valve
and wall frame**

made by : LUNOR G.Kull AG, CH-8041 Zürich

Design according to the directives of the Swiss Federal Office of Civil Defence. Type tested and approved by the Armament Technology and Procurement Group.

Valve casing and wallframe made of hot galvanized steel.
The complete shutting device and the anchoring bolts are made of stainless steel.

Total air rate m³/h
Only if several wallframes are recommended.

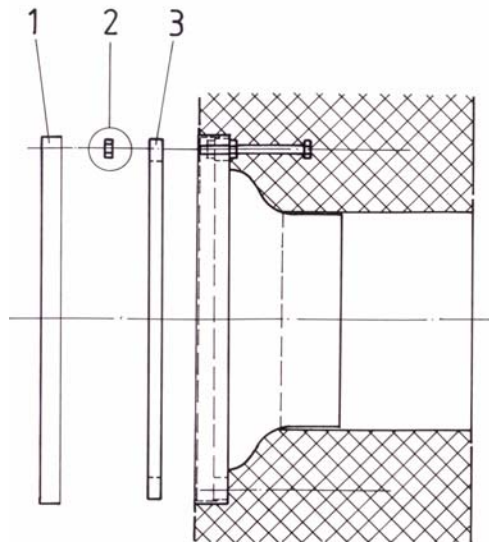
Type of valve, size ESV ... X 4 pcs

Attest Nr. ESV-4 T 00-002
Air rate per wallframe (size) m³ / h
Pressure drop Pa
Protection degree 3 bar

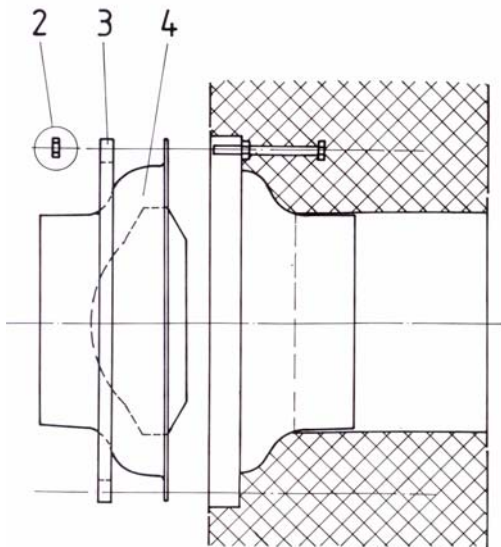
Wallframe size MAU-ESV ... X 4
Wall thickness cm

Optional:

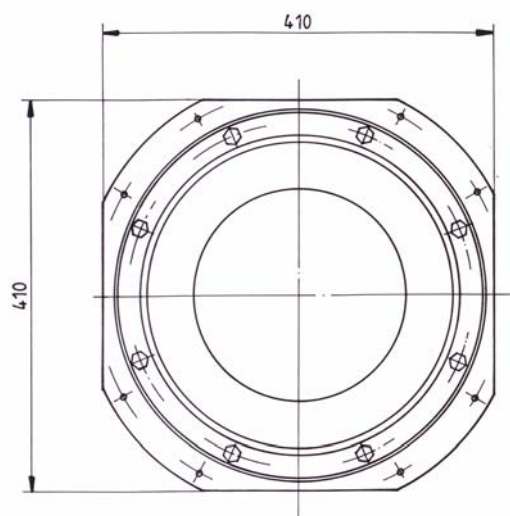
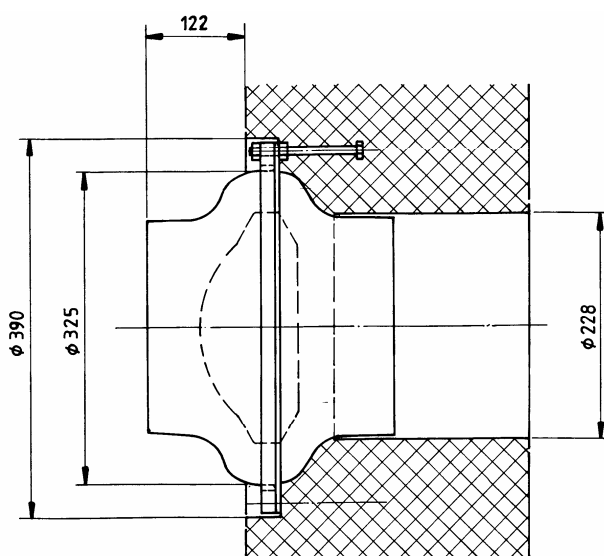
Protection screen ESV-4 inside pcs
Protection screen ESV-4 outside pcs
Splitter plate ESV-4 pcs



- A) Remove protection cover (Pos. 1)
(to be thrown away)
- B) Unbolt the nuts M10 (Pos. 2) and the fixing ring (Pos. 3)
- C) Clean the wallframe



- D) Put the ESV casing (Pos. 4) in place and bolt the fixing ring (Pos. 3) with the nuts (Pos. 2)
- E) Tighten nuts (Pos. 2) with a dynamometric wrench, tightening torque 20 Nm



Proviso for technical change