

Protective solutions

Applications

The SJ-150 wall sleeve system is designed to make possible conduction of electric cables through blast resistant and gastight walls in hardened Civil Defence and military shelters. Due to modular cover design the number and sizes of cables can be altered after placing the sleeve in the wall.

Specification

Manufacturer of SJ-150 wall sleeve system is Temet Oy, Helsinki Finland.

The SJ-150 wall sleeve system comprises a sleeve pipe of 150 mm nominal diameter adapted to the thickness of the protective wall and a series of cover plates complete with cable glands or sockets (large sizes) suitable for cable sizes from 8 mm to 54 mm diameter. The main components of the wall sleeve system are hot dip galvanized.

Design Criteria

The SJ-150 wall sleeve system is made in accordance with specific provisions issued by the Finnish Ministry of Interior. The wall sleeve system is type tested and approved for use by VTT Technical Research Centre of Finland, an Independent Testing Authority mandated to perform type inspection for shelter equipment and systems by the Finnish Ministry of Interior.

Test and performance data

The SJ-150 wall sleeve system is tested to withstand long duration blast waves with reflected peak overpressure up to 18 bar. Additionally the sleeve system withstands a static overpressure of 18 bar positive and 0.2 bar negative acting from the outside.

The wall sleeve system provides an absolutely leak-free gastight penetration for cables through the protective wall.

The wall sleeve withstands a mechanical shock of the installation wall where the rapid change in velocity is 1.5 m/s in any direction.

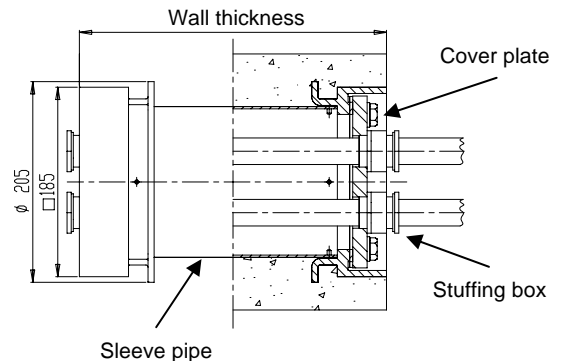
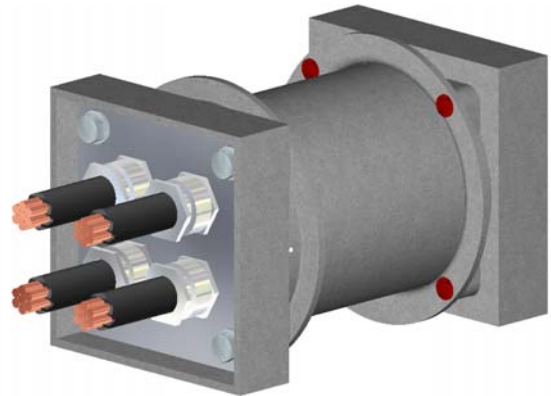
The wall sleeve is designed to function within the ambient temperature range of -20...+80 °C.

Type test report

VTT type test report available upon request

Sleeve system delivery and product coding

The sleeves and cover plates, normally two plates per sleeve, are ordered as separate products. The wall thickness determines the sleeve length. The type of cover plates depends on the number and size of cables.



SJ-150 Wall Sleeve system main parts and dimensions.

The sleeves are delivered with cast protection plates.

Cover plates are delivered as a set with cable glands / sockets and blind plugs, both for all borings in the plate. The cable glands or sockets are used to tighten the penetrating cables and the reserve borings are closed airtight by blind plugs.

The wall sleeve code is **SJ-150-S=number**, where **number** indicates the wall thickness in millimeters.

The cover plate set code is **SJ-150-COVER-identifier**, where **identifier** indicates the cover plate type as listed and illustrated at the following page.

For example the cover plate set SJ-150-COVER-2-M includes one cover plate for 4 cables of diameter from 24 to 26 mm, 4 M32 cable glands and 4 blind plugs of same size.

Cable glands for other cable sizes are available on request. Additionally clamps with strain relief or EMC protection can be delivered.

SJ-150 COVER PLATE TYPES

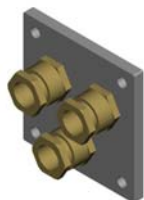


Plate type 1A-M and 1B-M

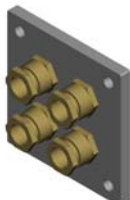


Plate type 2-M

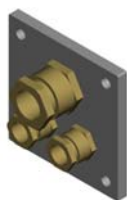


Plate type 3-M



Plate type 4A-M and 4B-M

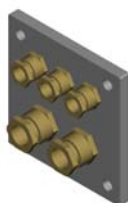


Plate type 5A-M and 5B-B

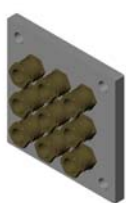


Plate type 6A-M and 6B-M

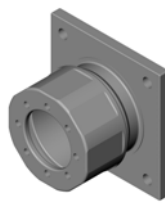


Plate type 7

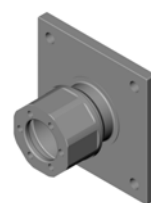


Plate type 8



Plate type 10 BLIND



Plate type 11-M

COVER PLATE TYPE	CABLE		CABLE GLAND EN 50262	
	Ø mm	pcs	M	pcs
1A-M	28-30	3	40	3
1B-M	31-33	3	50	3
2-M	24-26	4	32	4
	39-41	1	50	1
4A-M	15-17	2	25	2
	39-41	2	50	2
4B-M	28-30	2	40	2
	39-41	2	50	2
5A-M	10-12	3	20	3
	24-26	2	32	2
5B-M	15-17	3	25	3
	24-26	2	32	2
6A-M	12-14	9	25	9
6B-M	8-10	9	16	9
10	BLIND	-	-	-
11-M	8-10	12	16	12
COVER PLATE TYPE	POWER CABLE		SOCKET	
	Ø mm	pcs	NS	pcs
7	43-54	1	100	1
8	33-40	1	65	1

Design - Production – Installation – Maintenance - Consultation