

## MV POWER JUNCTION BOX



CERTIFIED FOR INCREASED SAFETY  
APPLICATION AREAS



### DESCRIPTION:

Topside junction boxes for MV cables are supplied by PCS Italiana for cables transition between submarine cable and topside/land cable prior to relevant routing to the switchboard.

ATEX Junction boxes are available in different designs:

- Ex-ec type up to IP66/67 and up to 15 kV (+/- 10%) and 600 A with maximum cable size of 300mm<sup>2</sup>
- Ex-eb type up to IP66/67 and up to 10 kV (+/- 10%) and 600 A with maximum cable size of 300mm<sup>2</sup>

Boxes can be available in SS316L or in carbon and alloy steel (painting can be available upon request).

All terminations, earthing, glands and breather relevant to the supply are comprised

Certification by CESI with Certificate No. CESI 13 ATEX 057 - IT/CES 14.....

Type: II 3G Ex ec IIC T6..T4 Gc; Ex tc IIIC T80..90°C Dc; IP66

Certification by CESI with Certificate No. CESI 15 ATEX 062 - IT/CES 14.....

Type: III 2G Ex eb IIC T6..T4 Gb; Ex tb IIIC T80..90°C Db; IP66

All PCS Italiana JB are also available in NEMA 4.X version.

### LIMIT CONDITIONS FOR OPERATION:

For use in an explosive atmosphere consisting of a mixture of air and flammable substances in the form of gas, vapours, mists (G), the environmental conditions for operation are:

Continuous operation temperature (COT): -from - 40° C to + 60° C

Pressure: from 80 to 110 (kPa) from 0.8 to 1.1 bar

Oxygen (O<sub>2</sub>) in air: 21 (%) v/v

For use in unexplosive atmospheres consisting of a mixture of air and combustible dust (D), the equipment provides a level of effective protection for powders with a particle size average from 75 (µm) to higher.

### MATERIAL:

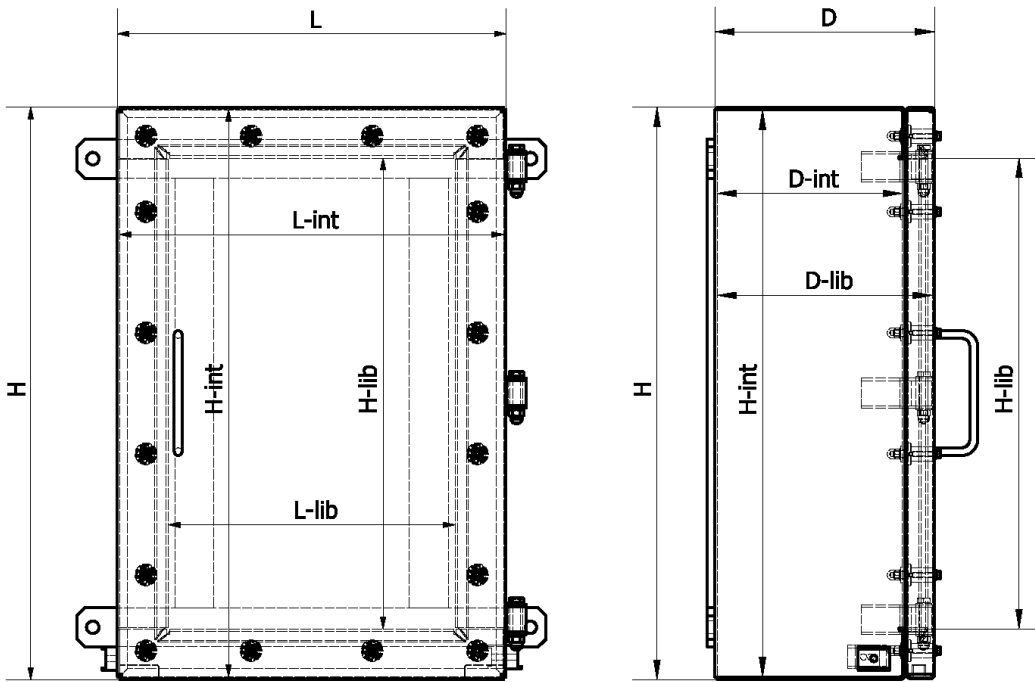
- *Main Body: Carbon steel/alloy steel or SS316L according to requirements (painting available upon request)*
- *Bolts & Nuts: AISI A4/70*
- *Inner termination: Nexans*

### ENTRY DATA FOR DIMENSIONING:

- *Cable type and diameter*
- *Platform positioning*

## POWER JUNCTION BOX

### TABLE OF DIMENSIONS AND TYPES



CERTIFIED FOR APPLICATION IN AREAS WHERE INCREASED SAFETY IS REQUIRED

ID	CODE	CATEGORY		TERMINAL TYPE	LAYOUT TYPE	L [mm]	H [mm]	D [mm]	L <sub>int</sub> [mm]	H <sub>int</sub> [mm]	D <sub>int</sub> [mm]	L <sub>lib</sub> [mm]	H <sub>lib</sub> [mm]	D <sub>lib</sub> [mm]	Weight [kg]
9	PJB-09-A-Y-Ex2	2	up to 10 kV	Y	A	606	1206	395	600	1200	350	476	1076	389	108
	PJB-09-A-Y-Ex3	3	up to 15 kV												
10	PJB-10-B-Y-Ex2	2	up to 10 kV	Y	B	606	1206	495	600	1200	450	476	1076	489	117
	PJB-10-B-Y-Ex3	3	up to 15 kV												
12	PJB-12-A-Y-Ex2	2	up to 10 kV	Y	A	606	1406	395	600	1400	350	476	1276	389	127
	PJB-12-A-Y-Ex3	3	up to 15 kV												
	PJB-12-B-Y-Ex3	3	up to 15 kV												
13	PJB-13-A-Y-Ex2	2	up to 10 kV	Y	A	606	1406	495	600	1400	450	476	1276	489	136
	PJB-13-A-Y-Ex3	3	up to 15 kV												
	PJB-13-B-Y-Ex3	3	up to 15 kV												
14	PJB-14-A-Y-Ex2	2	up to 10 kV	Y	A	606	1606	395	600	1600	350	476	1476	389	141
	PJB-14-A-Y-Ex3	3	up to 15 kV												
	PJB-14-B-Y-Ex3	3	up to 15 kV												
15	PJB-15-A-Y-Ex2	2	up to 10 kV	Y	A	606	1606	494	600	1600	450	476	1476	488	152
	PJB-15-A-Y-Ex3	3	up to 15 kV												
	PJB-15-B-Y-Ex3	3	up to 15 kV												
16	PJB-16-A-X-Ex2	2	up to 10 kV	X	A	806	1606	394	800	1600	350	676	1476	388	160
	PJB-16-A-X-Ex3	3	up to 15 kV												
17	PJB-17-B-X-Ex2	2	up to 10 kV	X	B	806	1606	494	800	1600	450	676	1476	488	175
	PJB-17-B-X-Ex3	3	up to 15 kV												
19	PJB-19-A-Y-Ex2	2	up to 10 kV	Y	A	606	2106	395	600	2100	350	476	1976	389	178
	PJB-19-A-Y-Ex3	3	up to 15 kV												
	PJB-19-B-Y-Ex3	3	up to 15 kV												
20	PJB-20-A-Y-Ex2	2	up to 10 kV	Y	A	606	2106	494	600	2100	450	476	1976	488	190
	PJB-20-A-Y-Ex3	3	up to 15 kV												
	PJB-20-B-Y-Ex3	3	up to 15 kV												
21	PJB-21-A-X-Ex2	2	up to 10 kV	X	A	806	2106	394	800	2100	350	676	1976	388	200
	PJB-21-A-X-Ex3	3	up to 15 kV												
	PJB-21-B-X-Ex3	3	up to 15 kV												
22	PJB-22-A-X-Ex2	2	up to 10 kV	X	A	806	2106	494	800	2100	450	676	1976	488	220
	PJB-22-A-X-Ex3	3	up to 15 kV												
	PJB-22-B-X-Ex3	3	up to 15 kV												
24	PJB-24-A-X-Ex2	2	up to 10 kV	X	A	806	2456	394	800	2450	350	676	2326	388	230
	PJB-24-A-X-Ex3	3	up to 15 kV												
25	PJB-25-B-X-Ex2	2	up to 10 kV	X	B	806	2456	494	800	2450	450	676	2326	488	250
	PJB-25-B-X-Ex3	3	up to 15 kV												