BASE LOAD POWER HUB (BLPH)

GENERAL ARRANGEMENT DRAWINGS

RESTRICTION ORIFICE

TERRANOVA
SPRIANO Vafcrum MEC-RELA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	19/02/25	MZ	GA	GO	ACCEPTED FOR CONSTRUCTION (AFC)
02	20/01/25	MZ	GA	GO	ACCEPTED FOR CONSTRUCTION (AFC)
01	23/10/24	MZ	GA	GO	ACCEPTED FOR CONSTRUCTION (AFC)
00	03/10/24	MZ	GA	GO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
GENERAL ARRANGEMENT DRAWINGS–RESTRICTION ORIFICE
FRONT PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001690–IN–DA–00003

SHEET 001

REV. 03

File Name : 123A90.DDL.XX.XXXXXX Rev. 00

F.to UNI A3: 420mmx297mm

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
03	001	FRONT PAGE	
03	002	SUMMARY and GENERAL NOTES	
03	003	GENERAL ARRANGEMENT DRAWINGS - RESTRICTION ORIFICE (SINGLE HOLE)	
03	004	GENERAL ARRANGEMENT DRAWINGS - RESTRICTION ORIFICE (MULTI HOLE)	

GENERAL NOTES

TERRANOVA
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REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	19/02/25	MZ	GA	GO	ACCEPTED FOR CONSTRUCTION (AFC)
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01	23/10/24	MZ	GA	GO	ACCEPTED FOR CONSTRUCTION (AFC)
00	03/10/24	MZ	GA	GO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
GENERAL ARRANGEMENT DRAWINGS–RESTRICTION ORIFICE
SUMMARY and GENERAL NOTES

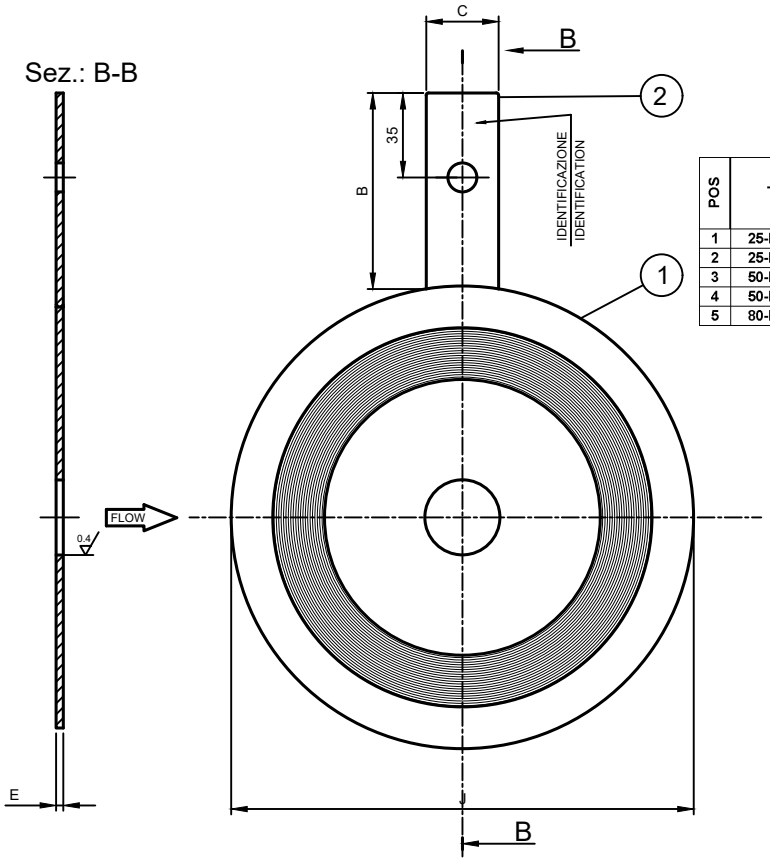
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1724001690–IN–DA–00003 | SHEET 002 | REV. 03

File Name : 123A90.DDL.XX.XXXXXX Rev. 00

F.to UNI A3: 420mmx297mm

ORI ORIFICE PLATES (SINGLE HOLE)



POS	TAG	ND	RATING	SCH	PIPE			RESTRICTION ORIFICE								NOISE LEVEL [Dba]	CAV. NUMBER	NOTE	
					O.D. [mm]	I.D. [mm]	THK [mm]	MTL	n°OF HOLES	d [mm]	d1 [mm]	E [mm]	J [mm]	B [mm]	C [mm]				
1	25-RO-022	1"	300	40S	33.4	26.64	3.38	SS 316/316L	1	5.19347	5.19347	6	73.0	115	30	86		CRITICAL	THICK PLATE RESTRICTION
2	25-RO-024	1"	300	40S	33.4	26.64	3.38	SS 316/316L	1	4.26650	4.26650	6	73.0	115	30	65		CRITICAL	THICK PLATE RESTRICTION
3	50-RO-001	1"	150	40S	33.4	26.64	3.38	SS 316/316L	1	0.12976	0.12976	3	67.0	110	30	65	1.22		
4	50-RO-002	1"	150	40S	33.4	26.64	3.38	SS 316/316L	1	0.12976	0.12976	3	67.0	110	30	65	1.22		
5	80-RO-001	1"	150	40S	33.4	26.64	3.38	SS 316/316L	1	4.26646	4.26646	6	67.0	110	30	65		CRITICAL	THICK PLATE RESTRICTION

NOTES:
1. FLOW METER REFERENCE CODE: ISO 5167 / MILLER ENGINEERING HANDBOOK
2. MARKING: MARKING DETAIL AS PER CUSTOMER SPECIFICATION (TAG / d / ID / SIZE / RATING / MATERIAL / REF CODE / DIRECTION OF FLOW (as minimum)
3. d, PRESSURE DROP: refer to CALCULATION SHEETS

CERTIFICATES
- Material Certificates 3.1 (EN 10204)
- PMI Test on all Plates
- Visual & Dimensional Test

TERRANOVA
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TITLE : BASE LOAD POWER HUB (BLPH)
GENERAL ARRANGEMENT DRAWINGS–RESTRICTION ORIFICE
RESTRICTION ORIFICE (SINGLE HOLE)

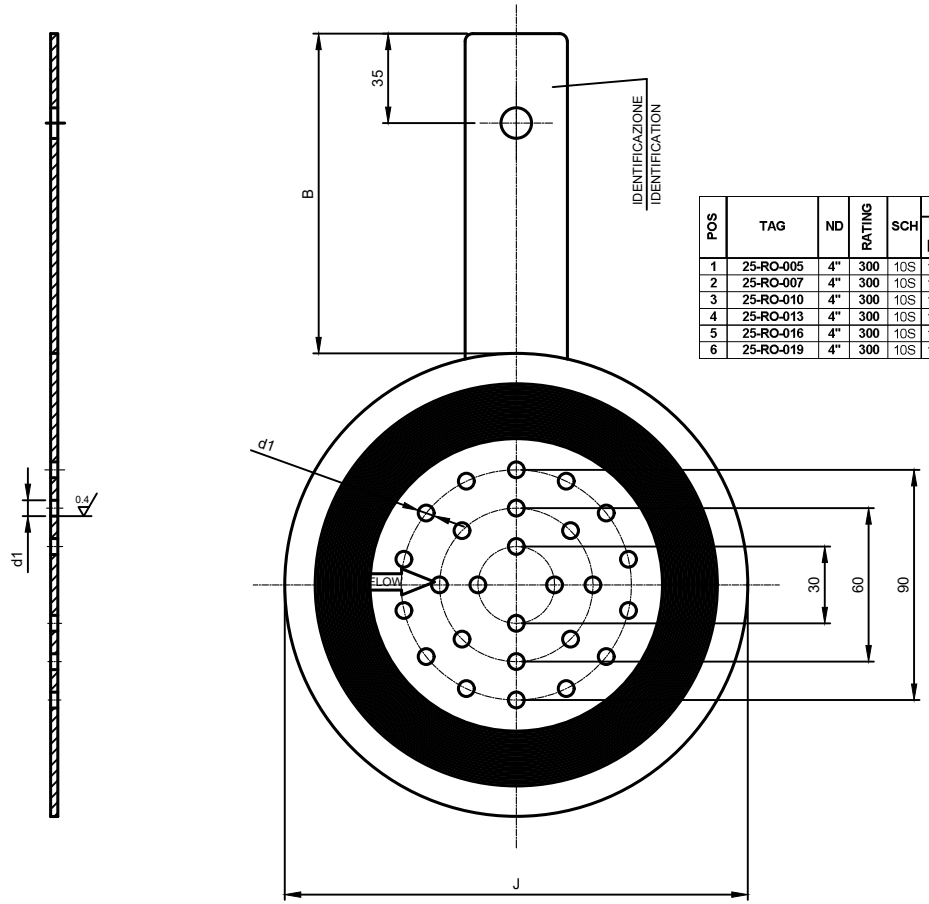
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:2

A3 | DRAWING NO. 1724001690–IN–DA–00003 | SHEET 003 | REV. 03

File Name : 123A90.DDL.XX.XXXXXX Rev. 00

F.to UNI A3: 420mmx297mm

ORI ORIFICE PLATES (MULTI HOLE)



POS	TAG	ND	RATING	SCH	PIPE			RESTRICTION ORIFICE									NOISE LEVEL [Dba]	CAV. NUMBER	NOTE	
					O.D. [mm]	I.D. [mm]	THK [mm]	MTL	n°OF HOLES	d [mm]	d1 [mm]	E [mm]	J [mm]	B [mm]	C [mm]				
1	25-RO-005	4"	300	10S	114.3	108.20	3.05	SS 316/316L	26	21.53	4.22	10	181.0	125	40	85		CRITICAL	THICK PLATE RESTRICTION
2	25-RO-007	4"	300	10S	114.3	108.20	3.05	SS 316/316L	26	21.53	4.22	10	181.0	125	40	85		CRITICAL	THICK PLATE RESTRICTION
3	25-RO-010	4"	300	10S	114.3	108.20	3.05	SS 316/316L	26	21.53	4.22	10	181.0	125	40	85		CRITICAL	THICK PLATE RESTRICTION
4	25-RO-013	4"	300	10S	114.3	108.20	3.05	SS 316/316L	26	21.53	4.22	10	181.0	125	40	85		CRITICAL	THICK PLATE RESTRICTION
5	25-RO-016	4"	300	10S	114.3	108.20	3.05	SS 316/316L	26	21.53	4.22	10	181.0	125	40	85		CRITICAL	THICK PLATE RESTRICTION
6	25-RO-019	4"	300	10S	114.3	108.20	3.05	SS 316/316L	26	21.53	4.22	10	181.0	125	40	85		CRITICAL	THICK PLATE RESTRICTION

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TITLE : BASE LOAD POWER HUB (BLPH)
GENERAL ARRANGEMENT DRAWINGS–RESTRICTION ORIFICE
RESTRICTION ORIFICE (MULTI HOLE)

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:2

A3 | DRAWING NO. 1724001690–IN–DA–00003 | SHEET 004 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 123A90.DDL.XX.XXXXXX Rev. 00