Base Load Power Hub (BLPH)

PRIMARY AND AUXILIARY FLUSH PIPING SCHEMATICS AND BILL OF MATERIALS For Sea Water Lift Progressive Cavity Pumps (P-50001 A/B)

Document Number: 1724000936-MAC-DD-00010

Document Class: 2

00	26/07/2024	Issue for Review (IFR)	APD	GLL	AHN
Rev.	Date	Description	Prepared	Reviewed	Approved

PCM | keep it moving

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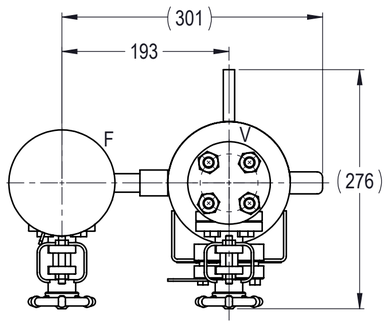
Revision / Change Log

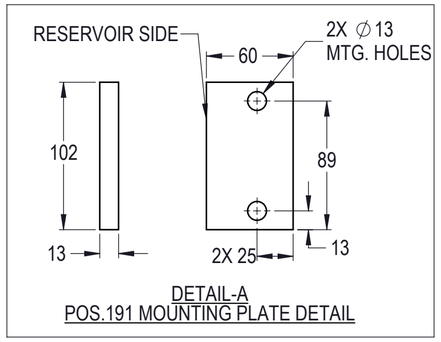
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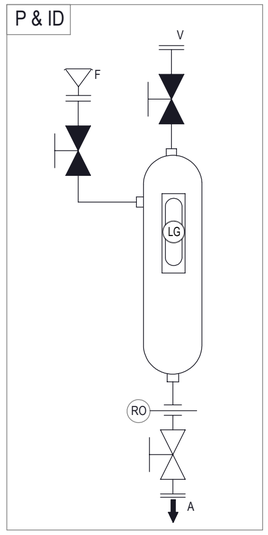
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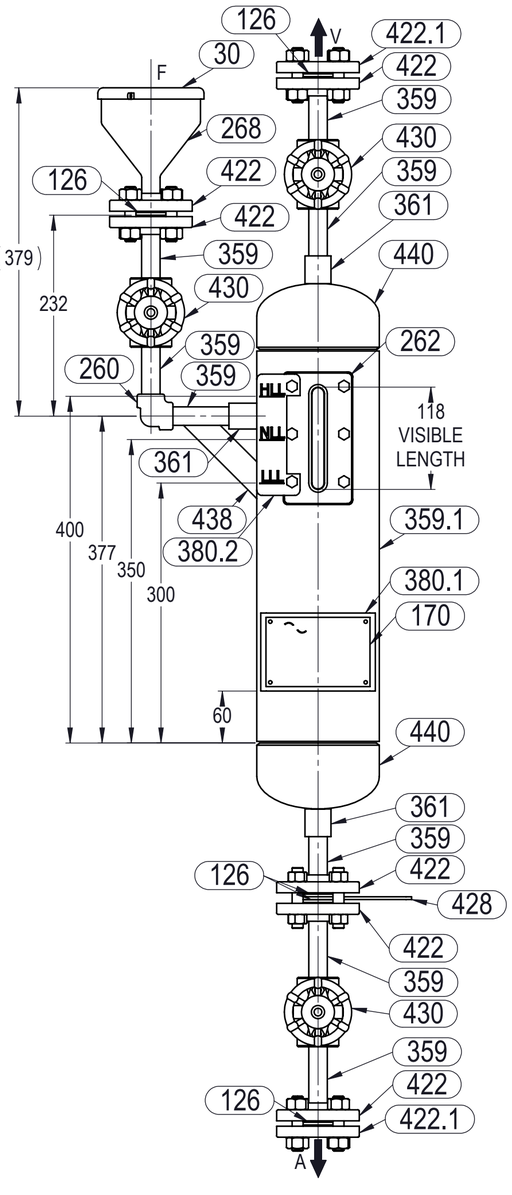
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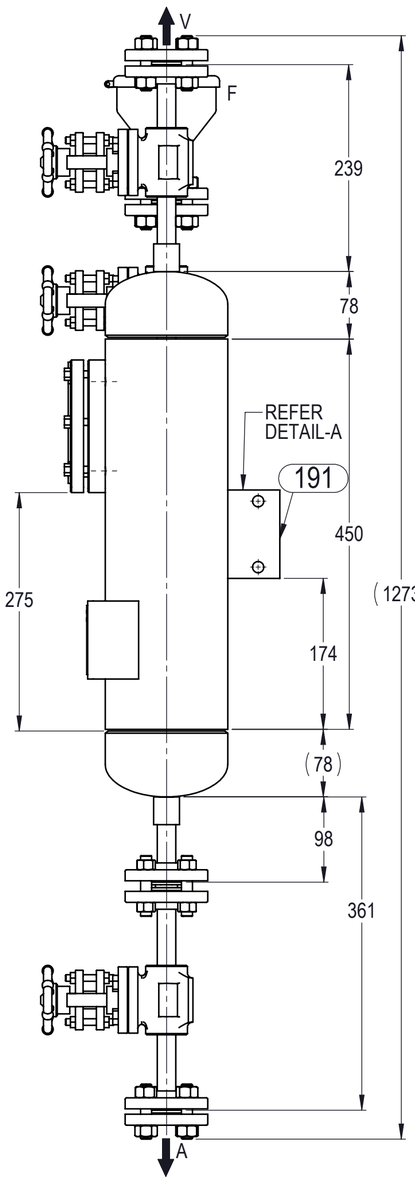


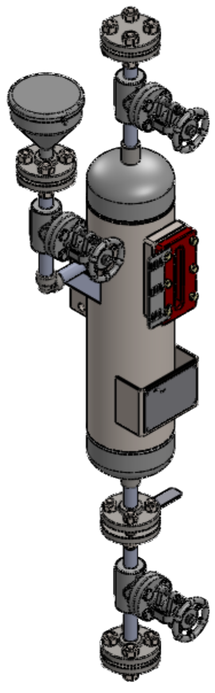


DETAIL-A
POS.191 MOUNTING PLATE DETAIL









DESIGN CONDITIONS

		UNIT
QUENCH FLUID	WATER	
DESIGN PRESSURE	12	BARG
DESIGN TEMPERATURE	-10 TO 93	°C
OPERATING PRESSURE	ATMOSPHERIC	BARG
OPERATING TEMPERATURE	MAX.80	°C
DESIGN CODE (VESSEL)	ASME VIII DIV 1	
DESIGN CODE (PIPING)	ASME B31.3	
EC DIRECTIVE	PED 2014/68/EU	
PED CATEGORY	SEP	
TOTAL VOLUME	7	LITER
VOLUME AT NLL	5	LITER
WEIGHT EMPTY	~40	KG

N.D. TESTING / INSPECTION

HYDROTEST PRESSURE	18	BARG
RADIOGRAPHY	NONE	
DYE-PENETRANT	100%	
MATERIAL CERTIFICATES	REFER NOTE 3	
INSPECTION	FLOWSERVE	

WELDING

WPS & PQR IN ACCORDANCE WITH ASME IX.

REMARKS

STAINLESS STEEL SURFACES SHALL NOT BE PAINTED.
CLEANING IN ACCORDANCE WITH RSD-SP-ENG-089E.
BOLTHOLES STRADDLE TO CENTERLINE.
STAINLESS STEEL WELDS TO BE PICKLED & PASSIVATED OR GLASS-PEARL CLEANED.
DO NOT USE TEFLON TAPE, BUT USE LOCTITE 577.

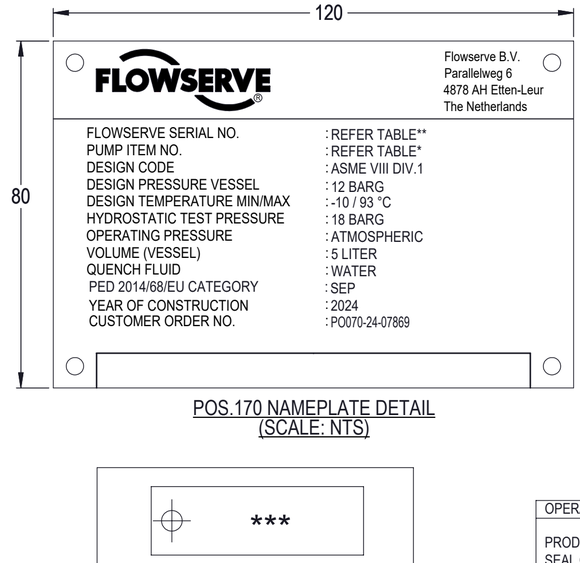
CONNECTIONS

NO.	NAME	SIZE
A	TO SEAL	1/2 IN 300# RF + BLIND
F	FILLING	4 IN FUNNEL
V	VENT	1/2 IN 300# RF + BLIND

BILL OF MATERIAL NO: C100033782

SPARE PARTS: [1] STARTUP [2] 2 YEAR [3] CAPITAL/CRITICAL

NO	PART CODE	QTY	DESCRIPTION	MATERIAL
30	C0538533ZZ-Q2	1	CAP, OTHER - DUST, 4 IN WITH CHAIN	GRADE 316/316L
126	C0111934ZZ	5	GASKET, SPIRAL WOUND -CL 300, 1/2 IN, SPIRAL WOUND	STAINLESS STEEL 316 + GRAPHITE
170	C100032896	1	PLATE, NAME - FOR AUXILIARY PLAN 51	316
191	C0243841ZZ-Q1	1	PLATE, MOUNTING - 102 X 60X 13 MM THK.	316
260	C0216202X941	1	ELBOW FITTING, PIPE - 1/2 IN, SOCKET WELD, CL 3000, 90 DEG	ASME SA-182 GRADE F316/F316L
262	C0560271ZZ	1	INDICATOR, LEVEL - GAUGE, WELD ON TYPE, VISIBLE LENGTH : 118 MM, BOROSILICATE GLASS	GRADE 316/316L
268	C0405667X941	1	STRAIGHT FITTING, PIPE - SWAGE, 4 IN X 1/2 IN, SCH 40, PBE, SMLS	ASME SA-182 GRADE F316/F316L
359	C0063392X951	1	PIPE, OTHER - SCH.80, 1/2 IN, SEAMLESS, PLAIN BOTH END	ASME SA-312 GRADE TP316/316L
359.1	C0172048X951	1	PIPE, OTHER - 5 IN X 450 MM LG, SCH 40, SMLS, BBE	ASME SA-312 GRADE TP316/316L
361	C0215993X941	3	STRAIGHT FITTING, PIPE - HALF COUPLING, 1/2 IN SW, CL. 3000	ASME SA-182 GRADE F316/F316L
380	4R124140ZZ-Q1	2	PLATE, NAME - FOR INSTRUMENT	ASME SA-240 GRADE 316/316L
380.1	C0234657ZZ-Q1	1	PLATE, NAME - BRACKET FOR NAMEPLATE	316
380.2	C0538973ZZ-Q2	1	PLATE, NAME - FOR LEVEL INDICATION, SIZE 2	316
422	C0362295X941	6	FLANGE, PIPE - 1/2 IN, CL 300, RFSW	ASME SA-182 GRADE F316/F316L
422.1	C0363170X941	2	FLANGE, PIPE - BLIND 1/2 IN CL 300	ASME SA-182 GRADE F316/F316L
428	C0095396ZZ	1	PLATE, ORIFICE - 1/2 IN, CL 300, 3.2 MM ORIFICE	316
430	C0369816ZZ	3	VALVE, GATE CL 800,1/2 IN SOCKET WELD,SCH 80,BOLTED BONNET,REDUCED BORE	316
438	C0493357X944-Q2	1	GUSSET, OTHER - 6 MM THK X 30 MM WIDE	ASME SA-240 GRADE 316/316L
440	C0489371X947	2	HEAD, RESERVOIR - CAP, 5 IN BUTT WELD, SCH 40	ASME SA-403 GRADE WP316/316L



POS.170 NAMEPLATE DETAIL
(SCALE: NTS)

POS 380 FIXED WITH SS WIRE AT THE INSTRUMENTS

APPROVAL DRAWING
FOR CUSTOMER REVIEW

NOTES:
1. ALL VALUES IN () ARE REFERENCE DIMENSIONS.
2. CARBON STEEL STUDS(ASME SA-193 GR B7) & NUTS(ASME SA 194 GR 2H) WITH HOT-DIP GALVANIZED. ALL MISCELLANEOUS FASTENERS MUST BE 316 SS.
3. MATERIAL CERTIFICATE OF ALL PRESSURE CONTAINING PARTS (PIPES/FLANGES/PIPE FITTINGS) REQUIRES EN 10204 3.1. EN 10204 2.2 FOR NON-PRESSURE CONTAINING PARTS.

* PUMP ITEM NO.	** FLOWSERVE SERIAL NO.	*** INSTRUMENT TAG NUMBER LG	RO
50001 A	400370175-000200-001	TBA	TBA
50001 B	400370175-000200-002	TBA	TBA

REV.	CHG NO.	DATE	REVD	CHKD	APVD
	DESC:				

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DIM TOLERANCES (UNLESS SPECIFIED)
X. = ± 5 ANGLE = ± 0.5°
X.X = ± 2.5
ALL DIMENSIONS ARE REFERENCES UNLESS OTHERWISE SPECIFIED

OPERATING DATA
PRODUCT: SEA WATER
SEAL CHAMBER PRES: 5.9 barG Max
BARRIER FLUID: WATER
DISCHARGE PRES: 5.9 barG Max
API PLAN: 13/51

CUSTOMER DATA
CUSTOMER: PCM MANUFACTURING FRANCE SAS
ADDRESS: CHAMPTOCE-SUR-LOIRE FRANCE
ULTIMATE USER: CROSSWIND (JV SHELL + ENECO)
ADDRESS: THE NETHERLANDS
CUSTOMER P.O.: PO070-24-07869

SEAL DATA
MATL CODE: ----

JOB NUMBER	400370175-000200
DRWN	LoSh
DATE	23-Jul-2024
CHKD	LoSh
DATE	23-Jul-2024
APVD	HaSc
DATE	24-Jul-2024
3D MODEL NO. / REV.	F001614989 / 0
≈ WEIGHT ( )	64.95 lb (29 kg)

FLOWSERVE AMSS Seals & Systems

DRAWING TITLE
SEAL SYSTEM - GENERAL ARRANGEMENT
PLAN 51
-

3rd ANGLE | SIZE A2 | DRAWING NUMBER F001615657 | REV. P1

SCALE: NTS | DIM. UNITS: mm | SHEET: 1 OF: 1

TEMPLATE VERSION 4 5.10 JAN 2024