Base Load Power Hub (BLPH)

TECHNICAL DATASHEET For Variable Area Flow Meter

Document Number: 123A90-DDL-IN-DS-40045

Document Class: 2

02	06/12/2024	Accepted for Construction (AFC)	VBA	LCA	DLO
01	29/08/2024	Accepted for Construction (AFC)	VBA	LCA	DLO
00	23/02/2024	Issue for Review (IFR)	VBA	LCA	DLO
Rev.	Date	Description	Prepared	Reviewed	Approved

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Revision / Change Log

Rev.	Description
00	ISSUE FOR REVIEW (IFR)
01	ACCEPTED FOR CONSTRUCTION (AFC)
02	ACCEPTED FOR CONSTRUCTION (AFC)

HOLDS LIST

No.	Description
1.	
2.	
3.	
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GENERAL REQUIREMENTS / NOTES

1) This datasheet is to be read in conjunction with following documents:
   a) Instrumentation for Package Unit Specification (123A90-DDL-IN-SP-40094);
   b) Material Requisition (123A90-DDL-IN-MR-40046);
   c) Specification for Piping Material Classes (123A90-DDL-PP-SP-70000).

2) Ambient Temperature Min: -8.4 °C, Norm: 10.5 °C, Max: +25.0 °C.

3) All materials including transmitters casing/housing shall be suitable for use in marine environment in AISI 316. Aluminium is not permitted.

4) Variable area flow meters shall be completely assembled with all accessories before shipping with the required orientation of the connections.

5) In general, all hazardous area equipment shall be certified Exd IIC (or IIB+H2) T1 for Zone 2, IP66 as per ATEX directive.

6) All flanges in ASME B31.3 and ASME B31.12 shall be Raised Face type.

7) Material test certificates MTCs shall be provided by Manufacturer for all valves, tubing & fittings. MTCs shall include EN 10204 3.1 certification for all metallic materials.

8) PED 2014/68/EU Pressure Equipment Directive 2014/68/EU shall apply.

9) The SS nameplate shall indicate the tag number, manufacture name, model number, serial number, size, rating and other items as required.

10) Information with asterisk (*) shall be confirmed or provided by manufacturer according to the service condition.

11) HART revision 7 protocol NAMUR NE43 is required for all electronic device 4-20mA Smart type.

12) All Instrument used in Safety Application (ESD) shall be minimum SIL 2 Certified according to Int, Std. IEC61508.

13) Deleted.

14) Transmitter shall be supplied with external span and zero adjustments (if any).

15) Meter bodies shall be equipped with inlet and outlet float stops, and where feasible, clean out plugs, which may be utilised as connection taps.

16) Indicating scales shall have full-length safety glass shielding which is gasketed both sides and shall be approximately 125mm in length for extension meters used for transmitting service or for armoured meters, and 25mm in length for local indicators not of the armoured type.

17) Floats shall be self-cleaning and shall be designed for maximum immunity to viscosity variations and dimensional stability.

18) On Hydrogen service, internal parts (in contact with process fluid) shall be provided with suitable materials (if any).

19) Deleted.

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GENERAL	1	Tag Number		25-FE-031 / 25-FT-031		
	2	Service		NITROGEN TO HYDROGEN STORAGE VESSEL (V-25001A		
	3	P & ID No.		123A90-DDL-PR-PID-80015		
	4	Area Classification		ATEX Zone2 - IIC (IIB+H2) T1		
	5	Line No.		1"-HY-153-03HSS-N		
	6	Line Size	Line Schedule	1"	40S	
	7	Line Material		ASTM A312 Gr. TP316/316L		
PROCESS CONDITIONS	8	Fluid		NITROGEN		
	9			Units	@ Max. Flow	@ Norm. Flow	@ Min. Flow
	10	Flow		Nm^3/hr		40	
	11	Temperature		°C		15	
	12	Pressure		barg		0 - 3	
	13	Max Velocity		5 - 21 m/sec		
	14	Fluid Conductivity	Min.	0.021 kcal/hr m K		
	15	Vacuum Possibility		NO		
	16	Ambient Temperature (min/norm/max)		-8.4 / 10.5 / 25 [°C]		
	17					
METERING ELEMENT	18					
	19					
	20	Connection Size	Type & Rating	1"	Flanged #300 RF	
	21	Connection Materials		SS 316/316L Dual Cert.		
	22	Float Type		SELF-CLEANING		
	23	Float Material		SS 316L		
	24	Meter Casing		SS 316/316L Dual Cert.		
	25	Meter Scale Type	Meter Factor	-	-	
	26	Meter Scale Range		6.2 - 62 Nm^3/h		
	27					
	28					
ASSOCIATED INSTRUMENT	29	Tag No.		25-FT-001 (3) - Housing in AISI 316		
	30	Function		Flow Transmitter		
	31	Mounting		INTEGRAL with LCD/Engineering Unit		
	32	Electrical Connection	Electrical Class	N. 2 M20x1.5mm	-	
	33	Signal Cable Length		-		
	34	ATEX Certification	Ingress Protection	II 2 G Ex db IIC T6…T1 Gb	IP66	
	35	Power Supply		Loop powerd		
	36	Output		4-20mA, HART		
	37	Accuracy	Repeatability	+/- 1 % F.S.	-	
	38	Rangeability		10:1		
	39	Alarm Contact: No.	Form	-	-	
	40	Alarm Contact: Rating		-		
	41	Alarm Contact: Action		-		
	42	SIL Certification	PED Certification	-	Required (8)	
PURCHASE	43	Manufacturer		BROOKS INSTRUMENT		
	44	Model		3809GCA10AGBC3D2C0AC		
	45	Purchase Order Number		1724000791		

Notes:

No.	Date	By	Chkd	Appr	Description
02	06/12/2024	VB	LC	DL	Accepted for Construction (AFC)
01	29/08/2024	VB	LC	DL	Accepted for Construction (AFC)
00	23/02/2024	VB	LC	DL	ISSUED FOR REVIEW (IFR)

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Code : 301 | Dwg. No.: 123A90-DDL-IN-DS-40045 | Rev 02

GENERAL	1	Tag Number		25-FE-032 / 25-FT-032		
	2	Service		NITROGEN TO HYDROGEN STORAGE VESSEL (V-25001E		
	3	P & ID No.		123A90-DDL-PR-PID-80016		
	4	Area Classification		ATEX Zone2 - IIC (IIB+H2) T1		
	5	Line No.		1"-HY-186-03HSS-N		
	6	Line Size	Line Schedule	1"	40S	
	7	Line Material		ASTM A312 Gr. TP316/316L		
PROCESS CONDITIONS	8	Fluid		NITROGEN		
	9			Units	@ Max. Flow	@ Norm. Flow	@ Min. Flow
	10	Flow		Nm^3/hr		40	
	11	Temperature		°C		15	
	12	Pressure		barg		0 - 3	
	13	Max Velocity		5 - 21 m/sec		
	14	Fluid Conductivity	Min.	0.021 kcal/hr m K		
	15	Vacuum Possibility		NO		
	16	Ambient Temperature (min/norm/max)		-8.4 / 10.5 / 25 [°C]		
	17					
METERING ELEMENT	18					
	19					
	20	Connection Size	Type & Rating	1"	Flanged #300 RF	
	21	Connection Materials		SS 316/316L Dual Cert.		
	22	Float Type		SELF-CLEANING		
	23	Float Material		SS 316L		
	24	Meter Casing		SS 316/316L Dual Cert.		
	25	Meter Scale Type	Meter Factor	-	-	
	26	Meter Scale Range		6.2 - 62 Nm^3/h		
	27					
	28					
ASSOCIATED INSTRUMENT	29	Tag No.		25-FT-001 (3) - Housing in AISI 316		
	30	Function		Flow Transmitter		
	31	Mounting		INTEGRAL with LCD/Engineering Unit		
	32	Electrical Connection	Electrical Class	N. 2 M20x1.5mm	-	
	33	Signal Cable Length		-		
	34	ATEX Certification	Ingress Protection	II 2 G Ex db IIC T6…T1 Gb	IP66	
	35	Power Supply		Loop powerd		
	36	Output		4-20mA, HART		
	37	Accuracy	Repeatability	+/- 1 % F.S.	-	
	38	Rangeability		10:1		
	39	Alarm Contact: No.	Form	-	-	
	40	Alarm Contact: Rating		-		
	41	Alarm Contact: Action		-		
	42	SIL Certification	PED Certification	-	Required (8)	
PURCHASE	43	Manufacturer		BROOKS INSTRUMENT		
	44	Model		3809GCA10AGBC3D2C0AC		
	45	Purchase Order Number		1724000791		

Notes:

No.	Date	By	Chkd	Appr	Description
02	06/12/2024	VB	LC	DL	Accepted for Construction (AFC)
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GENERAL	1	Tag Number		25-FE-033 / 25-FT-033		
	2	Service		NITROGEN TO HYDROGEN STORAGE VESSEL (V-25001C		
	3	P & ID No.		123A90-DDL-PR-PID-80017		
	4	Area Classification		ATEX Zone2 - IIC (IIB+H2) T1		
	5	Line No.		1"-HY-187-03HSS-N		
	6	Line Size	Line Schedule	1"	40S	
	7	Line Material		ASTM A312 Gr. TP316/316L		
PROCESS CONDITIONS	8	Fluid		NITROGEN		
	9			Units	@ Max. Flow	@ Norm. Flow	@ Min. Flow
	10	Flow		Nm^3/hr		40	
	11	Temperature		°C		15	
	12	Pressure		barg		0 - 3	
	13	Max Velocity		5 - 21 m/sec		
	14	Fluid Conductivity	Min.	0.021 kcal/hr m K		
	15	Vacuum Possibility		NO		
	16	Ambient Temperature (min/norm/max)		-8.4 / 10.5 / 25 [°C]		
	17					
METERING ELEMENT	18					
	19					
	20	Connection Size	Type & Rating	1"	Flanged #300 RF	
	21	Connection Materials		SS 316/316L Dual Cert.		
	22	Float Type		SELF-CLEANING		
	23	Float Material		SS 316L		
	24	Meter Casing		SS 316/316L Dual Cert.		
	25	Meter Scale Type	Meter Factor	-	-	
	26	Meter Scale Range		6.2 - 62 Nm^3/h		
	27					
	28					
ASSOCIATED INSTRUMENT	29	Tag No.		25-FT-001 (3) - Housing in AISI 316		
	30	Function		Flow Transmitter		
	31	Mounting		INTEGRAL with LCD/Engineering Unit		
	32	Electrical Connection	Electrical Class	N. 2 M20x1.5mm	-	
	33	Signal Cable Length		-		
	34	ATEX Certification	Ingress Protection	Exd IIC (or IIB+H2) T1	IP66	
	35	Power Supply		Loop powerd		
	36	Output		4-20mA, HART		
	37	Accuracy	Repeatability	+/- 1 % F.S.	-	
	38	Rangeability		10:1		
	39	Alarm Contact: No.	Form	-	-	
	40	Alarm Contact: Rating		-		
	41	Alarm Contact: Action		-		
	42	SIL Certification	PED Certification	-	Required (8)	
PURCHASE	43	Manufacturer		BROOKS INSTRUMENT		
	44	Model		3809GCA10AGBC3D2C0AC		
	45	Purchase Order Number		1724000791		

Notes:

No.	Date	By	Chkd	Appr	Description
02	06/12/2024	VB	LC	DL	Accepted for Construction (AFC)
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GENERAL	1	Tag Number		25-FE-034 / 25-FT-034		
	2	Service		NITROGEN TO HYDROGEN STORAGE VESSEL (V-25001D		
	3	P & ID No.		123A90-DDL-PR-PID-80019		
	4	Area Classification		ATEX Zone2 - IIC (IIB+H2) T1		
	5	Line No.		1"-HY-189-03HSS-N		
	6	Line Size	Line Schedule	1"	40S	
	7	Line Material		ASTM A312 Gr. TP316/316L		
PROCESS CONDITIONS	8	Fluid		NITROGEN		
	9			Units	@ Max. Flow	@ Norm. Flow	@ Min. Flow
	10	Flow		Nm^3/hr		40	
	11	Temperature		°C		15	
	12	Pressure		barg		0 - 3	
	13	Max Velocity		5 - 21 m/sec		
	14	Fluid Conductivity	Min.	0.021 kcal/hr m K		
	15	Vacuum Possibility		NO		
	16	Ambient Temperature (min/norm/max)		-8.4 / 10.5 / 25 [°C]		
	17					
METERING ELEMENT	18					
	19					
	20	Connection Size	Type & Rating	1"	Flanged #300 RF	
	21	Connection Materials		SS 316/316L Dual Cert.		
	22	Float Type		SELF-CLEANING		
	23	Float Material		SS 316L		
	24	Meter Casing		SS 316/316L Dual Cert.		
	25	Meter Scale Type	Meter Factor	-	-	
	26	Meter Scale Range		6.2 - 62 Nm^3/h		
	27					
	28					
ASSOCIATED INSTRUMENT	29	Tag No.		25-FT-001 (3) - Housing in AISI 316		
	30	Function		Flow Transmitter		
	31	Mounting		INTEGRAL with LCD/Engineering Unit		
	32	Electrical Connection	Electrical Class	N. 2 M20x1.5mm	-	
	33	Signal Cable Length		-		
	34	ATEX Certification	Ingress Protection	Exd IIC (or IIB+H2) T1	IP66	
	35	Power Supply		Loop powerd		
	36	Output		4-20mA, HART		
	37	Accuracy	Repeatability	+/- 1 % F.S.	-	
	38	Rangeability		10:1		
	39	Alarm Contact: No.	Form	-	-	
	40	Alarm Contact: Rating		-		
	41	Alarm Contact: Action		-		
	42	SIL Certification	PED Certification	-	Required (8)	
PURCHASE	43	Manufacturer		BROOKS INSTRUMENT		
	44	Model		3809GCA10AGBC3D2C0AC		
	45	Purchase Order Number		1724000791		

Notes:

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GENERAL	1	Tag Number		25-FE-036 / 25-FT-036		
	2	Service		NITROGEN TO HYDROGEN STORAGE VESSEL (V-25001F		
	3	P & ID No.		123A90-DDL-PR-PID-80018		
	4	Area Classification		ATEX Zone2 - IIC (IIB+H2) T1		
	5	Line No.		1"-HY-188-03HSS-N		
	6	Line Size	Line Schedule	1"	40S	
	7	Line Material		ASTM A312 Gr. TP316/316L		
PROCESS CONDITIONS	8	Fluid		NITROGEN		
	9			Units	@ Max. Flow	@ Norm. Flow	@ Min. Flow
	10	Flow		Nm^3/hr		40	
	11	Temperature		°C		15	
	12	Pressure		barg		0 - 3	
	13	Max Velocity		5 - 21 m/sec		
	14	Fluid Conductivity	Min.	0.021 kcal/hr m K		
	15	Vacuum Possibility		NO		
	16	Ambient Temperature (min/norm/max)		-8.4 / 10.5 / 25 [°C]		
	17					
METERING ELEMENT	18					
	19					
	20	Connection Size	Type & Rating	1"	Flanged #300 RF	
	21	Connection Materials		SS 316/316L Dual Cert.		
	22	Float Type		SELF-CLEANING		
	23	Float Material		SS 316L		
	24	Meter Casing		SS 316/316L Dual Cert.		
	25	Meter Scale Type	Meter Factor	-	-	
	26	Meter Scale Range		6.2 - 62 Nm^3/h		
	27					
	28					
ASSOCIATED INSTRUMENT	29	Tag No.		25-FT-001 (3) - Housing in AISI 316		
	30	Function		Flow Transmitter		
	31	Mounting		INTEGRAL with LCD/Engineering Unit		
	32	Electrical Connection	Electrical Class	N. 2 M20x1.5mm	-	
	33	Signal Cable Length		-		
	34	ATEX Certification	Ingress Protection	Exd IIC (or IIB+H2) T1	IP66	
	35	Power Supply		Loop powerd		
	36	Output		4-20mA, HART		
	37	Accuracy	Repeatability	+/- 1 % F.S.	-	
	38	Rangeability		10:1		
	39	Alarm Contact: No.	Form	-	-	
	40	Alarm Contact: Rating		-		
	41	Alarm Contact: Action		-		
	42	SIL Certification	PED Certification	-	Required (8)	
PURCHASE	43	Manufacturer		BROOKS INSTRUMENT		
	44	Model		3809GCA10AGBC3D2C0AC		
	45	Purchase Order Number		1724000791		

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No.	Date	By	Chkd	Appr	Description
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GENERAL	1	Tag Number		25-FE-038 / 25-FT-038		
	2	Service		NITROGEN TO HYDROGEN STORAGE VESSEL (V-25001E		
	3	P & ID No.		123A90-DDL-PR-PID-80020		
	4	Area Classification		ATEX Zone2 - IIC (IIB+H2) T1		
	5	Line No.		1"-HY-190-03HSS-N		
	6	Line Size	Line Schedule	1"	40S	
	7	Line Material		ASTM A312 Gr. TP316/316L		
PROCESS CONDITIONS	8	Fluid		NITROGEN		
	9			Units	@ Max. Flow	@ Norm. Flow	@ Min. Flow
	10	Flow		Nm^3/hr		40	
	11	Temperature		°C		15	
	12	Pressure		barg		0 - 3	
	13	Max Velocity		5 - 21 m/sec		
	14	Fluid Conductivity	Min.	0.021 kcal/hr m K		
	15	Vacuum Possibility		NO		
	16	Ambient Temperature (min/norm/max)		-8.4 / 10.5 / 25 [°C]		
	17					
METERING ELEMENT	18					
	19					
	20	Connection Size	Type & Rating	1"	Flanged #300 RF	
	21	Connection Materials		SS 316/316L Dual Cert.		
	22	Float Type		SELF-CLEANING		
	23	Float Material		SS 316L		
	24	Meter Casing		SS 316/316L Dual Cert.		
	25	Meter Scale Type	Meter Factor	-	-	
	26	Meter Scale Range		6.2 - 62 Nm^3/h		
	27					
	28					
ASSOCIATED INSTRUMENT	29	Tag No.		25-FT-001 (3) - Housing in AISI 316		
	30	Function		Flow Transmitter		
	31	Mounting		INTEGRAL with LCD/Engineering Unit		
	32	Electrical Connection	Electrical Class	N. 2 M20x1.5mm	-	
	33	Signal Cable Length		-		
	34	ATEX Certification	Ingress Protection	II 2 G Ex db IIC T6…T1 Gb	IP66	
	35	Power Supply		Loop powerd		
	36	Output		4-20mA, HART		
	37	Accuracy	Repeatability	+/- 1 % F.S.	-	
	38	Rangeability		10:1		
	39	Alarm Contact: No.	Form	-	-	
	40	Alarm Contact: Rating		-		
	41	Alarm Contact: Action		-		
	42	SIL Certification	PED Certification	-	Required (8)	
PURCHASE	43	Manufacturer		BROOKS INSTRUMENT		
	44	Model		3809GCA10AGBC3D2C0AC		
	45	Purchase Order Number		1724000791		

Notes:

No.	Date	By	Chkd	Appr	Description
02	06/12/2024	VB	LC	DL	Accepted for Construction (AFC)
01	29/08/2024	VB	LC	DL	Accepted for Construction (AFC)
00	23/02/2024	VB	LC	DL	ISSUED FOR REVIEW (IFR)

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Code : 301 | Dwg. No.: 123A90-DDL-IN-DS-40045 | Rev 02

GENERAL	1	Tag Number		64-FG-001		
	2	Service		NITROGEN TO VENT KO DRUM (V-43001)		
	3	P & ID No.		123A90-DDL-PR-PID-80028		
	4	Area Classification		ATEX Zone2 - IIC (IIB+H2) T1		
	5	Line No.		1"-N-101-01CS-N		
	6	Line Size	Line Schedule	1"	80	
	7	Line Material		ASTM/ASME A/SA333 Gr.6		
PROCESS CONDITIONS	8	Fluid		NITROGEN		
	9			Units	@ Max. Flow	@ Norm. Flow	@ Min. Flow
	10	Flow		Nm^3/hr		10	
	11	Temperature		°C		15	
	12	Pressure		barg		0 - 0.5 barg	
	13	Max Velocity		3 - 5 m/sec		
	14	Fluid Conductivity	Min.	0.021 kcal/hr m K		
	15	Vacuum Possibility		NO		
	16	Ambient Temperature (min/norm/max)		-8.4 / 10.5 / 25 [°C]		
	17					
METERING ELEMENT	18					
	19					
	20	Connection Size	Type & Rating	1"	Flanged #300 RF	
	21	Connection Materials		SS 316/316L Dual Cert.		
	22	Float Type		SELF-CLEANING		
	23	Float Material		SS 316L		
	24	Meter Casing		SS 316/316L Dual Cert.		
	25	Meter Scale Type	Meter Factor	-	-	
	26	Meter Scale Range		1.5 - 15 Nm^3/h		
	27					
	28					
ASSOCIATED INSTRUMENT	29	Tag No.		-		
	30	Function		-		
	31	Mounting		-		
	32	Electrical Connection	Electrical Class	-	-	
	33	Signal Cable Length		-		
	34	ATEX Certification	Ingress Protection	-	-	
	35	Power Supply		-		
	36	Output		-		
	37	Accuracy	Repeatability	-	-	
	38	Rangeability		-		
	39	Alarm Contact: No.	Form	-	-	
	40	Alarm Contact: Rating		-		
	41	Alarm Contact: Action		-		
	42	SIL Certification	PED Certification	-	Required (8)	
PURCHASE	43	Manufacturer		BROOKS INSTRUMENT		
	44	Model		3809GCC08BFBC9A0V0AC		
	45	Purchase Order Number		1724000791		

Notes:

No.	Date	By	Chkd	Appr	Description
02	06/12/2024	VB	LC	DL	Accepted for Construction (AFC)
01	29/08/2024	VB	LC	DL	Accepted for Construction (AFC)
00	23/02/2024	VB	LC	DL	ISSUED FOR REVIEW (IFR)

INSTRUMENT DATASHEET

Variable Area Flow Meter

CROSSWIND

ROSETTI MARINO

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