Base Load Power Hub (BLPH)

GLOBE & CHECK VALVES

DATASHEETS

Document Number: 1724000799-PP-DS-00004

ROSETTI MARINO	
1	NO COMMENTS - APPROVED - WORK MAY PROCEED
2	MINOR COMMENTS - REVISE AND RESUBMIT - WORK MAY PROCEED
3	MAJOR COMMENTS – REJECTED – DO NOT PROCEED
4	APPROVAL NOT REQUIRED
NOTE: Approval doesn't relieve the supplier from mandatory compliance with contractual documents and specifications. Comments made do not imply acceptance of any cost or delivery impact.	
Sign	Date
Mauro Liberato	10.12.24

Document Class: 2

Rev.	Date	Description	Prepared	Reviewed	Approved
02	06/12/2024	AFC - ACCEPTED FOR CONSTRUCTION	S.C.	A.M.	E.D.F.
01	19/09/2024	RFI – ISSUE FOR REVIEW	S.C.	A.M.	E.D.F.
00	09/08/2024	RFI – ISSUE FOR REVIEW	A.M.	A.M.	E.D.F.

F.R.I. SRL

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PO ITEM	SAP NUMBER	DATASHEET NUMBER	TAG VALVE:	DRAWING NUMBER	ITEM FRI	PAGE
10	VDA0NN16000100	HS01B02RF	BLPH-MV-418	F240106POS010	10	3
20	VDA0NN16150H00	HS01P01KT	BLPH-MV-215 BLPH-MV-401	F240106POS020	20	4
30	VDE0NN02580100	NT01B02RF	BLPH-MV-171	F240106POS030	30	5
40	VDRNNN02460100	CH01C02RFH	BLPH-NRV-020 BLPH-NRV-021	F240106POS040	40	6
50	VDRNNN02511H00	CH01F02RF	BLPH-NRV-004 BLPH-NRV-008 BLPH-NRV-026	F240106POS050	50	7
60	VDRNNN02580100	CH01B02RF	BLPH-NRV-019	F240106POS060	60	8
70	VDRNNN02591H00	CH01B02RF	BLPH-NRV-028	F240106POS070	70	9
80	VDRNNN02620100	CH03C02RFH	BLPH-NRV-014 BLPH-NRV-023 BLPH-NRV-027 BLPH-NRV-029 BLPH-NRV-030 BLPH-NRV-031	F240106POS080	80	10
90	VDRNNN02640100	CH01P01KT	BLPH-NRV-007 BLPH-NRV-024 BLPH-NRV-025	F240106POS090	90	11

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1 POS10-VDA0NN16000100

GLOBE VALVE DATA SHEET

Data sheet HS01B02RF			
SAP NUMBER: VDA0NN16000100			
Functional Description GLOBE VALVE EXTENDED STEM 1" 150# RF			
Order no. 1724000799	Supplier F.R.I. S.r.l.	Supplier dwg no. F240106POS010	TAG VALVE: BLPH-MV-418

SIZING DATA	
SIZE:	1"
CLASS:	150#
FACE TO FACE (mm):	ISO 5752
ENDS TYPE:	ASME B16.5 RF
DESIGN TEMPERATURE RANGE:	From -46°C to 100°C
DESIGN PRESSURE:	16.7 BARG
NOTES:	

VALVE MATERIALS			
BODY:	ASTM A350 LF2	SEAT:	ASTM A182 F6A + STELLITE
BONNET:	ASTM A350 LF2	GASKET:	S.W. SS316 + GRAPHITE
STEM:	ASTM A182 F6A	PACKING:	GRAPHITE
DISC:	ASTM A182 F6A + STELLITE	BOLTINGS:	ASTM A193 B7 / ASTM A194 2H

NOTES
TESTING AS PER API 598
STEM EXTENSION 100mm FOR ISOLATION PURPOSE
CORROSION ALLOWANCE: 3 mm
BODY AND HANDWHEEL COLOR RAL 9002

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2 POS20- VDA0NN16150H00

GLOBE VALVE DATA SHEET

Data sheet
HS01P01KT

SAP NUMBER:
VDA0NN16150H00

Functional Description
GLOBE VALVE EXTENDED STEM 1/2" 150# FF

Order no.	Supplier	Supplier dwg no.	TAG VALVE:
1724000799	F.R.I. S.r.l.	F240106POS020	BLPH-MV-215 | BLPH-MV-401

SIZING DATA

SIZE:	1/2"
CLASS:	150#
FACE TO FACE (mm):	ASME B16.10
ENDS TYPE:	ASME B16.5 FF
DESIGN TEMPERATURE RANGE:	From +5°C to +50°C
DESIGN PRESSURE:	3.5 BARG

NOTES:

VALVE MATERIALS

BODY:	HASTELLOY C-276	SEAT:	HASTELLOY C-276
BONNET:	HASTELLOY C-276	GASKET:	RPTFE
STEM:	HASTELLOY C-276	PACKING:	RPTFE
DISC:	HASTELLOY C-276	BOLTINGS:	ASTM A193 B8M/ASTM A194 8M

NOTES

TESTING AS PER API 598
STEM EXTENSION 100mm FOR ISOLATION PURPOSE
CORROSION ALLOWANCE: 0 mm
COLOR RAL 9002 FOR BODY AND HANDWHEEL

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3 POS30- VDE0NN02580100

GLOBE VALVE DATA SHEET

Data sheet
NT01B02RF

SAP NUMBER:
VDE0NN02580100

Functional Description
GLOBE NEEDLE VALVE 1" 150# RF

Order no.	Supplier	Supplier dwg no.	TAG VALVE:
1724000799	F.R.I. S.r.l.	F240106POS030	BLPH-MV-171

SIZING DATA

SIZE:	1"
CLASS:	150#
FACE TO FACE (mm):	ASME B16,.10
ENDS TYPE:	ASME B16.5 RF
DESIGN TEMPERATURE RANGE:	From -46°C to +100°C
DESIGN PRESSURE:	16.7 BARG

NOTES:

VALVE MATERIALS

BODY:	ASTM A350 LF2	SEAT:	ASTM A182 F6A + STELLITE
BONNET:	ASTM A350 LF2	GASKET:	S.W. SS316 + GRAPHITE
STEM:	ASTM A182 F6A	PACKING:	GRAPHITE
DISC:	ASTM A182 F6A + STELLITE	BOLTINGS:	ASTM A193 B7/ASTM A194 2H

NOTES

TESTING AS PER API 598
COLOR RAL 9002 FOR BODY AND HANDWHEEL
CORROSION ALLOWANCE: 3 mm

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4 POS40- VDRNNN02460100

CHECK VALVE DATA SHEET

Data sheet
CH01C02RFH

SAP NUMBER:
VDRNNN02460100

Functional Description
CHECK PISTON VALVE 1" 150# RF

Order no.	Supplier	Supplier dwg no.	TAG VALVE:
1724000799	F.R.I. S.r.l.	F240106POS040	BLPH-NRV-020 | BLPH-NRV-021

SIZING DATA

SIZE:	1"
CLASS:	150#
FACE TO FACE (mm):	ISO 5752
ENDS TYPE:	ASME B16.5 RF
DESIGN TEMPERATURE RANGE:	From -29°C to +100°C
DESIGN PRESSURE:	15.2 BARG

NOTES:

VALVE MATERIALS

BODY:	ASTM A182 F316/ASTM A182 F316L	SEAT:	ASTM A182 F6A + STELLITE
BONNET:	ASTM A182 F316/ASTM A182 F316L	GASKET:	S.W. SS316 + GRAPHITE
SPRING:	SS316	BOLTINGS:	ASTM A193 B8M/ASTM A194 8M
DISC:	ASTM A182 F316 + STELLITE		

NOTES

TESTING AS PER API 598
COLOR RAL 9002 FOR BODY
CORROSION ALLOWANCE: 0 mm

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5 POS50-VDRNNN02511H00

CHECK VALVE DATA SHEET

Data sheet CH01F02RF			
SAP NUMBER: VDRNNN02511H00			
Functional Description CHECK PISTON VALVE 1-1/2" 150# RF			
Order no. 1724000799	Supplier F.R.I. S.r.l.	Supplier dwg no. F240106POS050	TAG VALVE: BLPH-NRV-004 | BLPH-NRV-008 | BLPH-NRV-026

SIZING DATA	
SIZE:	1-1/2"
CLASS:	150#
FACE TO FACE (mm):	ISO 5752
ENDS TYPE:	ASME B16.5 RF
DESIGN TEMPERATURE RANGE:	From -29°C to +100°C
DESIGN PRESSURE:	16.7 BARG
NOTES:	

VALVE MATERIALS			
BODY:	ASTM A182 F53	SEAT:	ASTM A182 F53 + STELLITE
BONNET:	ASTM A182 F53	GASKET:	S.W. SS316 + GRAPHITE
SPRING:	INCONEL X-750	BOLTINGS:	ASTM A193 B7+HDG/ASTM A194 2H+HDG
DISC:	ASTM A182 F53 + STELLITE		

NOTES
TESTING AS PER API 598
COLOR RAL 9002 FOR BODY
CORROSION ALLOWANCE: 0 mm

6 POS60-VDRNNN02580100

CHECK VALVE DATA SHEET

Data sheet CH01B02RF			
SAP NUMBER: VDRNNN02580100			
Functional Description CHECK PISTON VALVE 1" 150# RF			
Order no. 1724000799	Supplier F.R.I. S.r.l.	Supplier dwg no. F240106POS060	TAG VALVE: BLPH-NRV-019

SIZING DATA

SIZE:	1"
CLASS:	150#
FACE TO FACE (mm):	ISO 5752
ENDS TYPE:	ASME B16.5 RF
DESIGN TEMPERATURE RANGE:	From -46°C to +100°C
DESIGN PRESSURE:	16.7 BARG
NOTES:	

VALVE MATERIALS

BODY:	ASTM A350 LF2	SEAT:	ASTM A182 F6A + STELLITE
BONNET:	ASTM A350 LF2	GASKET:	S.W. SS316 + GRAPHITE
SPRING:	SS304	BOLTINGS:	ASTM A193 B7+HDG/ASTM A194 2H+HDG
DISC:	ASTM A182 F6A + STELLITE		

NOTES

TESTING AS PER API 598
COLOR RAL 9002 FOR BODY
CORROSION ALLOWANCE: 3 mm

7 POS70-VDRNNN02591H00

CHECK VALVE DATA SHEET

Data sheet CH01B02RF			
SAP NUMBER: VDRNNN02591H00			
Functional Description CHECK PISTON VALVE 1-1/2" 150# RF			
Order no. 1724000799	Supplier F.R.I. S.r.l.	Supplier dwg no. F240106POS060	TAG VALVE: BLPH-NRV-028

SIZING DATA

SIZE:	1-1/2"
CLASS:	150#
FACE TO FACE (mm):	ISO 5752
ENDS TYPE:	ASME B16.5 RF
DESIGN TEMPERATURE RANGE:	From -46°C to +100°C
DESIGN PRESSURE:	16.7 BARG
NOTES:	

VALVE MATERIALS

BODY:	ASTM A350 LF2	SEAT:	ASTM A182 F6A + STELLITE
BONNET:	ASTM A350 LF2	GASKET:	S.W. SS316 + GRAPHITE
SPRING:	SS304	BOLTINGS:	ASTM A193 B7+HDG/ASTM A194 2H+HDG
DISC:	ASTM A182 F6A + STELLITE		

NOTES

TESTING AS PER API 598
COLOR RAL 9002 FOR BODY
CORROSION ALLOWANCE: 3 mm

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8 POS80-VDRNNN02620100

CHECK VALVE DATA SHEET

Data sheet
CH03C02RFH

SAP NUMBER:
VDRNNN02620100

Functional Description
CHECK PISTON VALVE 1" 300# RF

Order no.	Supplier	Supplier dwg no.	TAG VALVE:
1724000799	F.R.I. S.r.l.	F240106POS080	BLPH-NRV-014 | BLPH-NRV-023 | BLPH-NRV-027 | BLPH-NRV-029 | BLPH-NRV-030 | BLPH-NRV-031

SIZING DATA

SIZE:	1"
CLASS:	300#
FACE TO FACE (mm):	ISO 5752
ENDS TYPE:	ASME B16.5 RF
DESIGN TEMPERATURE RANGE:	From -46°C to +80°C
DESIGN PRESSURE:	39 BARG

NOTES:

VALVE MATERIALS

BODY:	ASTM A182 F316/ASTM A182 F316L	SEAT:	ASTM A182 F316 + STELLITE
BONNET:	ASTM A182 F316/ASTM A182 F316L	GASKET:	S.W. SS316 + GRAPHITE
SPRING:	SS316	BOLTINGS:	ASTM A193 B8M/ASTM A194 8M
DISC:	ASTM A182 F316 + STELLITE		

NOTES

TESTING AS PER API 598
COLOR RAL 9002 FOR BODY
CORROSION ALLOWANCE: 3 mm

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9 POS90-VDRNNN02640100

CHECK VALVE DATA SHEET

Data sheet
CH01P01KT

SAP NUMBER:
VDRNNN02640100

Functional Description
CHECK PISTON VALVE 1" 150# FF

Order no.	Supplier	Supplier dwg no.	TAG VALVE:
1724000799	F.R.I. S.r.l.	F240106POS090	BLPH-NRV-007 | BLPH-NRV-024 | BLPH-NRV-025

SIZING DATA

SIZE:	1"
CLASS:	150#
FACE TO FACE (mm):	ASME B16.10
ENDS TYPE:	ASME B16,5 FF
DESIGN TEMPERATURE RANGE:	From +5°C to +50°C
DESIGN PRESSURE:	3.5 BARG

NOTES:

VALVE MATERIALS

BODY:	HASTELLOY C276	SEAT:	HASTELLOY C276
BONNET:	HASTELLOY C276	GASKET:	RPTFE
SPRING:	SS316	BOLTINGS:	ASTM A193 B8M/ASTM A194 8M
DISC:	HASTELLOY C276		

NOTES

TESTING AS PER API 598
COLOR RAL 9002 FOR BODY
CORROSION ALLOWANCE: 0 mm

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