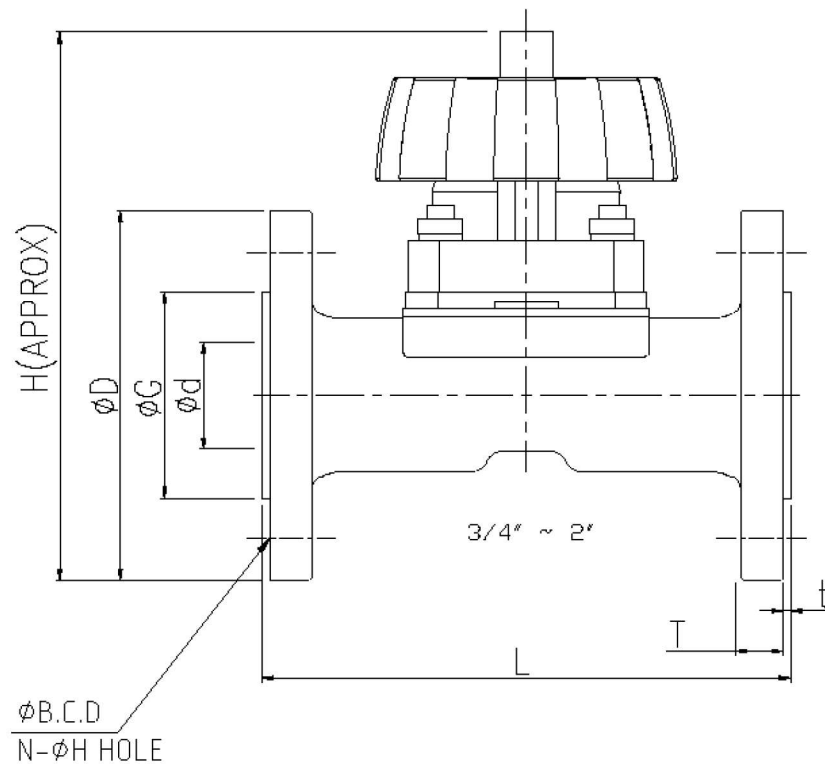
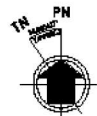
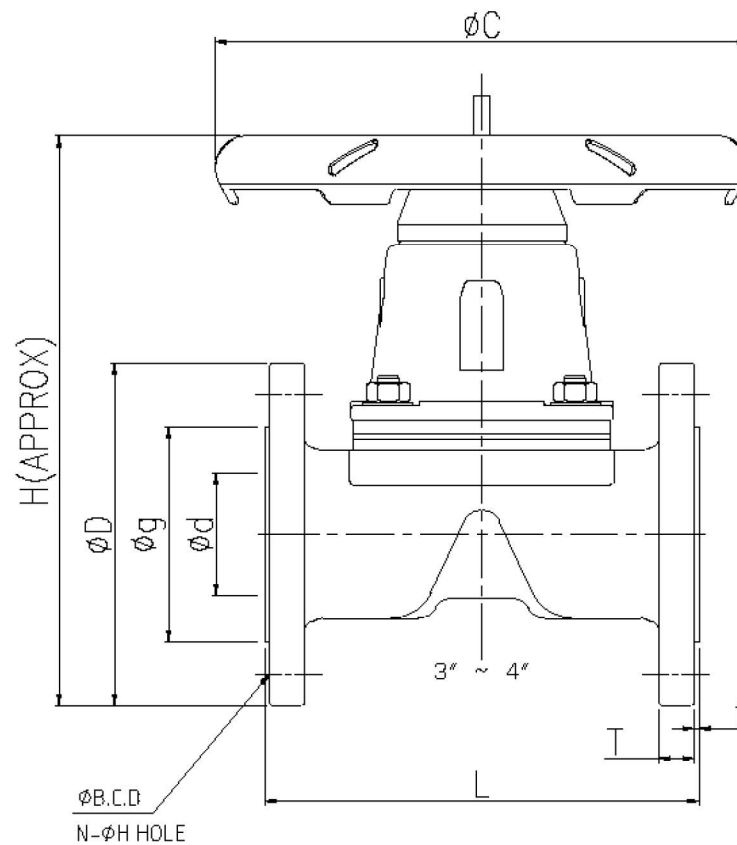


DIAPHRAGM VALVE

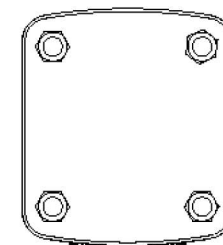


Tag No.	SIZE	ØD	ØG	Ød	L	T	TC	t(min)	H	ØB.C.D	N-ØH	Ident Code	Weight(kg)
VLF213	3/4"	98.6	49	20	150	13.0	3.2	154	69.9	4-Ø16		1121675195	2.5
VLF213	1"	108	57	25	160	13.0	3.2	162.5	79.2	4-Ø16		1121675196	3.6
VLF213	1-1/2"	127	75	38	200	17.0	3.2	198.3	98.5	4-Ø16		1121675198	6.3
VLF213	2"	152.4	95	48	230	17.0	3.2	229.5	120.6	4-Ø19		1121675199	8.5

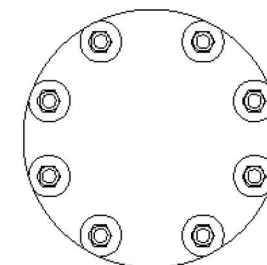
UNIT : mm



Tag No.	SIZE	ØD	Øg	Ød	L	T	TC	t(min)	H	ØC	ØB.C.D	N-ØH	Ident Code	Weight(kg)
VLF213	3"	190.5	127	76	260	16.5	3.2	332	273	152.4	4-Ø19		1121675201	23.0
VLF213	4"	228.6	145	96	313	23.0	3.2	372	273	190.5	8-Ø19		1121675202	35.4

DIAPHRAGM VALVE
HANDLE BONNET

3B



4B

No.	DESCRIPTION	MATERIAL	Q'TY	REMARK
1	BODY	AE16 WCB+PFA	1	
2	HANDLE(BURKERT)	PPS	1	BURKERT
3	DIAPHRAGM SEAT	PTFE	1	BURKERT
4	DIAPHRAGM RUBBER	EPDM	1	BURKERT
5	STUD BOLT/NUT/WASHER	304	SET	
6	COMPRESSOR	AG61 CF8	1	
7	SPINDLE	304	1	
8	BUSH	BRASS	1	
9	SNAP RING	304	1	
10	WRENCH BLOT	304	1	

CONDITION		SHELL	SEAT
PRES	DESIGN	10kgf/cm ²	-
	MAX WORKING	8kgf/cm ²	7kgf/cm ²
	TEST	15kgf/cm ²	7kgf/cm ²
TEMP	DESIGN	150°C	-
	MAX WORKING	120°C	120°C
	TEST	20°C	20°C
APPLIED SPEC.	TEST & INSPECTION	API 598 / MAKER STANDARD	
	DESIGN	ISO 5752 SERIES 1 / MAKER STD	

VENDOR DATA STATUS

☐ R : FOR REVIEW ☐ I : FOR INFORMATION

☐ A : FOR APPROVAL ☐ C : FOR CONSTRUCTION

☐ A1 Approved without comments

☐ A2 Approved with comments, re-submit not required

☐ A3 Approved with comments, re-submit for review

☐ A4 Not Approved, re-submit for approval

☐ R1 No Comments

☐ R2 Comments as noted

This permission is granted or review taken on Vendor Data shall not release vendor from its responsibilities and liabilities under purchase order.

DATE: CHECK: APPROV.:

REV.	DATE	DESCRIPTION	DRN	CK	RW	APP
0	01/07/2020	ISSUED FOR CONSTRUCTION	H.S.CHOI	S.B.CHOI	-	J.S.HWANG
C	24/08/2020	ISSUED FOR REVIEW	H.S.CHOI	S.B.CHOI	-	J.S.HWANG
B	02/04/2020	ISSUED FOR REVIEW	H.S.CHOI	S.B.CHOI	-	J.S.HWANG
A	18/03/2020	ISSUED FOR REVIEW	H.S.CHOI	S.B.CHOI	-	J.S.HWANG

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PROJECT
PETROCHEMICAL COMPLEX IN SOUTH OF VIETNAM
TỔNG HỢP HÓA DẦU MỎ BẾN NAM VIỆT NAM
PACKAGE G - CENTRAL UTILITY PLANT

COMPANY
LONG SON
PETROCHEMICALS CO., LTD.

EPC CONTRACTOR
HYUNDAI
HYUNDAI ENGINEERING CO., LTD.

FABRICATOR
FOOSUNG
FOOSUNG PRECISION IND. CO., LTD.

TITLE
DRAWING

DOCUMENT CLASS 1	DWG NO. UTI-2P90-119003	REV. 1/21
SCALE	N/S	EQUIP. NO. / TAG NO. -
		LSP DOCUMENT NO. UTI-2P90-119003

CERTIFICATE OF INSPECTION

Product	: PFA LINED DIAPHRAGM VALVE	Sales Order's	: FPS-201907-0091
Customer	: 현대엔지니어링㈜	Issue Date	: 05-Nov-20
Type	: JIS() ANSI(O)	Size	: 3"
Serial No.	: SLD80-00181~00185	Quantity	: 5 EA

1. Material

Body	Seat	Handle	Spindle	Rubber	Compressor	Bolt/Nut	Lining
A216 WCB	PTFE	PPS	SUS304	EPDM	A351 CF8	SUS304	PFA

2. Technical data

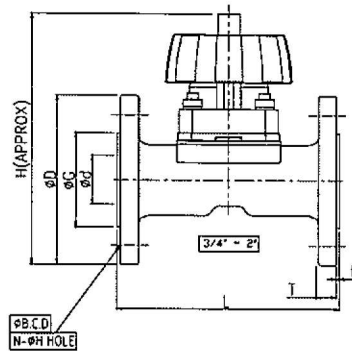
Design pressure	10 Kg/cm ²	Max Working	8 Kg/cm ²	Temperature	Under 100℃
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3. Inspection results

Divisions	Check	Specific	Method	Judgement
Dimension	Product spec' / Drawing	In tolerance	V-calipers & Tape	ok
Appearance check	Defect / Scratch / Others	Not existance	Visual	ok
Leakage test	Flange side / Assembly part	Not leakage	Pressure machine	ok
Break torque test	Pre-test for torque gauge	Torque test procedure	Torque gauge	ok
Electrostatic test	Apply on liner	Not pin hole	Pinhole detector	ok

4. Certificate of Inspection

Divisions	Spec'	DRAWING
Dimension	L	260 ± 3(mm)
	D	228.6 ± 2(mm)
	B.C.D	152.4 ± 2(mm)
	G	127 ± 3(mm)
	t	3.2 ± 0.5(mm)
Appearance	Not Defect / Scratch / Others	
Shell test	15 kg/cm ² Water Not Leakage	
Seat test	7 kg/cm ² N2 Gas Not Leakage	
Electrostatic test	20,000 Voltage Not Pinhole	
Acid cleaning	Accept	



WE CERTIFY THAT ABOVE MENTIONED RESULTS HAVE BEEN TESTED IN ACCORDANCE WITH
THE CUSTOMER'S SPECIFICATION AND OUR INSPECTION AND TEST PROCEDURE (Quality Warranty : 1year)



Declare that the equipment listed below complies
with the safety requirements of the pressure
equipment Directive 97 / 23 / EC .

INSPECTOR

Signature

05-Nov-20

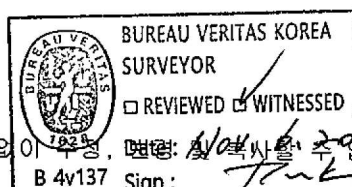
Date

QA MANAGER

signature

05-Nov-20

Date



이 문서는 소유권자의 동의 없이 복제, 배포, 전매, 대여, 또는 기타 방법으로 무단으로 사용할 수 없습니다.

B 4v137

Sign :

CERTIFICATE OF INSPECTION

Product	: PFA LINED DIAPHRAGM VALVE	Sales Order's	: FPS-201907-0091
Customer	: 현대엔지니어링(주)	Issue Date	: 05-Nov-20
Type	: JIS() ANSI()	Size	: 4"
Serial No.	: SLD100-00086~00092	Quantity	: 7 EA

1. Material

Body	Seat	Handle	Spindle	Rubber	Compressor	Bolt/Nut	Lining
A216 WCB	PTFE	PPS	SUS304	EPDM	A351 CF8	SUS304	PFA

2. Technical data

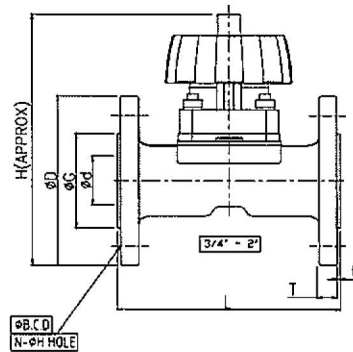
Design pressure	10 Kg/cm ²	Max Working	8 Kg/cm ²	Temperature	Under 100 °C
-----------------	-----------------------	-------------	----------------------	-------------	--------------

3. Inspection results

Divisions	Check	Specific	Method	Judgement
Dimension	Product spec' / Drawing	In tolerance	V-calipers & Tape	ok
Appearance check	Defect / Scratch / Others	Not existance	Visual	ok
Leakage test	Flange side / Assembly part	Not leakage	Pressure machine	ok
Break torque test	Pre-test for torque gauge	Torque test procedure	Torque gauge	ok
Electrostatic test	Apply on liner	Not pin hole	Pinhole detector	ok

4. Certificate of Inspection

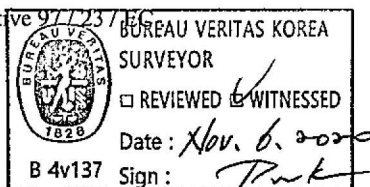
Divisions	Spec'	DRAWING
Dimension	L	313 ± 3(mm)
	D	228.6 ± 2(mm)
	B.C.D	190.5 ± 2(mm)
	G	145 ± 3(mm)
	t	3.2 ± 0.5(mm)
Appearance	Not Defect / Scratch / Others	
Shell test	15 kg/cm ² Water Not Leakage	
Seat test	7 kg/cm ² N2 Gas Not Leakage	
Electrostatic test	20,000 Voltage Not Pinhole	
Acid cleaning	Accept	



WE CERTIFY THAT ABOVE MENTIONED RESULTS HAVE BEEN TESTED IN ACCORDANCE WITH
THE CUSTOMER'S SPECIFICATION AND OUR INSPECTION AND TEST PROCEDURE (Quality Warranty : 1year)



Declare that the equipment listed below complies
with the safety requirements of the pressure
equipment Directive 97/23/EC



INSPECTOR  05-Nov-20

Signature Date

QA MANAGER  05-Nov-20

signature Date



FOOSUNG PRECISION IND. CO., LTD.

INSPECTION CHECK SHEET

NO	Tag No.	Ident Cod	Serial No.	Size	Dimension (mm)					Q'ty	Appear	Shell	Seat	Electro	Paint	Result
				Φ	L	D	B.C.D	G	t							
1	VLF213	I121675195	SLD20-02098	3/4"	150.0	98.6	69.9	49.0	3.5	1	OK	OK	OK	OK	OK	OK
2			SLD20-02099	3/4"	150.5	99.0	69.9	49.0	3.5	1	OK	OK	OK	OK	OK	OK
3			SLD20-02100	3/4"	150.0	98.6	70.0	49.4	3.4	1	OK	OK	OK	OK	OK	OK
4			SLD20-02101	3/4"	150.3	98.9	69.9	49.0	3.5	1	OK	OK	OK	OK	OK	OK
5			SLD20-02102	3/4"	150.0	98.6	69.9	49.0	3.6	1	OK	OK	OK	OK	OK	OK
6			SLD20-02103	3/4"	150.4	98.7	70.0	49.4	3.5	1	OK	OK	OK	OK	OK	OK
7			SLD20-02104	3/4"	150.9	98.6	69.9	49.0	3.3	1	OK	OK	OK	OK	OK	OK
8			SLD20-02105	3/4"	150.0	98.6	69.9	49.0	3.5	1	OK	OK	OK	OK	OK	OK
9			SLD20-02106	3/4"	150.0	98.6	69.9	49.0	3.8	1	OK	OK	OK	OK	OK	OK
10			SLD20-02107	3/4"	150.9	98.6	69.9	49.5	3.5	1	OK	OK	OK	OK	OK	OK
11			SLD20-02108	3/4"	150.0	98.6	70.0	49.0	3.7	1	OK	OK	OK	OK	OK	OK
12			SLD20-02109	3/4"	150.5	98.6	69.9	49.8	3.5	1	OK	OK	OK	OK	OK	OK
13			SLD20-02110	3/4"	150.0	98.7	69.9	49.0	3.5	1	OK	OK	OK	OK	OK	OK
14			SLD20-02111	3/4"	150.6	98.9	69.9	49.0	3.6	1	OK	OK	OK	OK	OK	OK
15			SLD20-02112	3/4"	150.0	98.6	69.9	49.0	3.5	1	OK	OK	OK	OK	OK	OK
16	VLF213	I121675196	SLD25-02758	1"	160.0	108.3	79.2	57.0	3.5	1	OK	OK	OK	OK	OK	OK
17			SLD25-02759	1"	160.0	108.0	79.5	57.0	3.9	1	OK	OK	OK	OK	OK	OK
18			SLD25-02760	1"	160.5	108.3	79.2	57.0	3.7	1	OK	OK	OK	OK	OK	OK
19			SLD25-02761	1"	160.3	108.0	79.2	57.0	3.9	1	OK	OK	OK	OK	OK	OK
20			SLD25-02762	1"	160.0	108.2	79.5	57.5	3.5	1	OK	OK	OK	OK	OK	OK
21			SLD25-02763	1"	16.5	108.0	79.2	57.0	3.6	1	OK	OK	OK	OK	OK	OK
22			SLD25-02764	1"	160.0	108.0	79.2	57.5	3.5	1	OK	OK	OK	OK	OK	OK
23	VLF213	I121675198	SLD40-01923	1-1/2"	200.0	127.5	98.5	75.0	3.8	1	OK	OK	OK	OK	OK	OK
24			SLD40-01924	1-1/2"	200.5	127.0	98.5	75.8	3.3	1	OK	OK	OK	OK	OK	OK
25			SLD40-01925	1-1/2"	200.1	127.3	98.6	75.0	3.6	1	OK	OK	OK	OK	OK	OK
26			SLD40-01926	1-1/2"	200.9	127.0	98.5	75.0	3.2	1	OK	OK	OK	OK	OK	OK
27			SLD40-01927	1-1/2"	200.0	127.0	98.5	76.0	3.8	1	OK	OK	OK	OK	OK	OK
28			SLD40-01928	1-1/2"	201.0	127.9	98.6	76.0	3.5	1	OK	OK	OK	OK	OK	OK
29	VLF213	I121675199	SLD40-01929	1-1/2"	200.0	127.0	98.5	75.0	3.4	1	OK	OK	OK	OK	OK	OK
30			SLD50-02167	2"	230.0	152.4	120.6	95.0	3.8	1	OK	OK	OK	OK	OK	OK
31			SLD50-02168	2"	230.0	152.4	120.6	95.0	3.3	1	OK	OK	OK	OK	OK	OK
32			SLD50-02169	2"	230.0	152.4	120.6	95.0	3.8	1	OK	OK	OK	OK	OK	OK
33			SLD50-02170	2"	230.0	152.4	120.8	95.0	3.3	1	OK	OK	OK	OK	OK	OK
34			SLD50-02171	2"	230.6	152.4	120.6	95.0	3.6	1	OK	OK	OK	OK	OK	OK
35			SLD50-02172	2"	230.0	152.4	120.6	95.6	3.6	1	OK	OK	OK	OK	OK	OK
36			SLD50-02173	2"	230.5	152.5	120.7	95.0	3.8	1	OK	OK	OK	OK	OK	OK
37			SLD50-02174	2"	230.0	152.4	120.6	95.4	3.3	1	OK	OK	OK	OK	OK	OK
38			SLD50-02175	2"	230.4	152.4	120.6	95.0	3.8	1	OK	OK	OK	OK	OK	OK
39			SLD50-02176	2"	230.0	152.6	120.9	95.0	3.8	1	OK	OK	OK	OK	OK	OK
40			SLD50-02177	2"	230.8	152.4	120.6	95.3	3.3	1	OK	OK	OK	OK	OK	OK
41			SLD50-02178	2"	230.6	152.4	120.6	95.0	3.8	1	OK	OK	OK	OK	OK	OK
42			SLD50-02179	2"	230.0	152.4	120.6	95.0	3.4	1	OK	OK	OK	OK	OK	OK
43	VLF213	I121675201	SLD80-00181	3"	260.0	190.5	152.4	127.0	3.5	1	OK	OK	OK	OK	OK	OK
44			SLD80-00182	3"	260.5	190.7	152.5	128.0	3.6	1	OK	OK	OK	OK	OK	OK
45			SLD80-00183	3"	260.0	190.5	152.4	127.0	3.5	1	OK	OK	OK	OK	OK	OK
46			SLD80-00184	3"	260.3	190.6	152.3	127.8	3.5	1	OK	OK	OK	OK	OK	OK
47			SLD80-00185	3"	260.0	190.5	152.4	127.0	3.8	1	OK	OK	OK	OK	OK	OK
48	VLF213	I121675202	SLD100-00086	4"	313.0	228.6	190.5	145.0	3.5	1	OK	OK	OK	OK	OK	OK
49			SLD100-00087	4"	313.5	228.6	190.5	145.0	3.6	1	OK	OK	OK	OK	OK	OK
50			SLD100-00088	4"	313.0	228.6	190.6	145.0	3.5	1	OK	OK	OK	OK	OK	OK
51			SLD100-00089	4"	313.5	228.6	190.5	145.0	3.5	1	OK	OK	OK	OK	OK	OK
52			SLD100-00090	4"	313.4	228.6	190.5	145.0	3.8	1	OK	OK	OK	OK	OK	OK
53			SLD100-00091	4"	313.0	229.0	190.8	145.0	3.5	1	OK	OK	OK	OK	OK	OK
54			SLD100-00092	4"	313.0	228.6	190.5	145.0	3.8	1	OK	OK	OK	OK	OK	OK

BELOW BLANK
TOTAL Q'TY 54 EA

