







OWNER:  شرکت سست و سویی گستره ایرانیان (سایه و شایان)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	
	CALCULATION & DATA SHEET OF CONTROL VALVES / ON-OFF VALVES FOR EMERGENCY INSTRUMENT AIR COMPRESSOR							 Netherlands	
MC :  شرکت سست و سویی گستره ایرانیان (سایه و شایان)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-45B	BU	20	VD	303	IN	DSH	0091	Rev.:	Page
								01	1 of 14

- PV-71101 (compressor bypass recycle valve) data sheet and calculation shall be added.

All check valve and hand valve shall be deleted.

CALCULATION & DATA SHEET OF CONTROL VALVES / ON-OFF VALVES FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

 شرکت سست و سویی گستره ایرانیان توسعه ایرانیان	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
Document Review		
Issue Purpose:	AFC	
Result Code: AP,AN,CM,RE,NC	AN	
Next Status : IFC,IFA,IFI,AFC,AB	AFC	
Responsible Department	MECHANICAL	
Commented Date	DEC/18/2021	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		



01	25/10/2021	Approved for Construction	TvT	KP	LdM	
01	20/09/2021	For approval	TvT	KP	LdM	
00	25/02/2021	For approval	TvT	KP	LdM	
Rev	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: P

These valves will not checked by instrument department and shall be removed from this data sheet

Doc. No : 17811-45B
 Rev. No. : 01
 P&ID. No : BU-20-VD-303-PR-WG-0066
 Page : 3 of 14

INDEX			
No.	Device	Tag Number	Page
1	Hand Ball Valve	No Tag.no.: Qty 1 pc	4
2	Hand Ball Valve	No Tag.no.: Qty 1 pcs	5
3	Hand Ball Valve	No Tag.no.: Qty 2 pcs	6
4	Hand Ball Valve	No Tag.no.: Qty 2 pcs	7
5	Hand Ball Valve	No Tag.no.: Qty 7 pcs	8
6	Pneumatic Actuated Valve	XV-71102	9
7	Pneu.Acf. Valve calculation	XV-71102	10
8	Hand Globe Valve	No Tag.no.: Qty 1 pcs	11
9	Pressure Reducing Valve	No Tag.no.: Qty 1 pcs	12
10	Check Valve	No Tag.no.: Qty 2 pcs	13
11	Check Valve	No Tag.no.: Qty 1 pcs	14
12			
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Notes:

				CALCULATION & DATA SHEET OF CONTROL VALVES / ON-OFF VALVES FOR EMERGENCY INSTRUMENT AIR COMPRESSOR 	
02	TT	25/10/2021	Approve For Construction		
01	TT	20/09/2021	For Approval		
00	TT	25/02/2021	For Approval		
Rev	By	Date	Description	Sheet	3 of 14
				Based on P&ID	rev. 02

Based on Basis of design of the project design pressure must be specified by the following rule:

Design pressure of process static EQUIPMENT shall be based on the max. operating pressure.

Malfunction and EQUIPMENT failure shall be taken into consideration by safety devices.

Design pressure shall be selected from the list below:



- for max operating pressure below 2 barg use 3.5 barg
- for max operating pressure between 2 barg and 15 barg use max operating pressure +1.5 bar
- for max operating pressure between 15 barg and 100 barg use max operating pressure x 110%
- for max operating pressure equal and above 100 barg use max operating pressure +10 bar

The comment is valid for all instruments.

This valve will not checked by instrument department and shall be removed from this data sheet

GENERAL	1	To			
	2	Service		Hand Ball valve	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor Inlet	
	5	Line/equip. No.		2"-INA-7001-511C(N)	
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Air	Dry Gas
	9	Pressure	Norm. Max.	8 Bar(a)	9 Bar(a)
	10	Temperature	Norm. Max.	55°C	65°C
	11	Design	Press. Temp.	13.5 Bar(a)	80°C
	12	Ambient Temp.	Min. Max.	5°C	55°C
	13	Oper. Flow		50 Kg/hr / 43 Nm3/hr	
	14				
BODY	16	Body Type		Ball valve, bolted type	
	17	Body Size	Bore	2"	Full bore
	18	Guiding	No. Of Ports	-	2
	19	Conn. Type	End Conn. Rat.	RF	150#
	20	Body Material		Carbon steel ASTM A 216 Gr. WCB / A105	
	21	Packing Material		PTFE / Graphite	
	22	Bonnet Type		Screwed	
	23	Trim	Form	Floating ball	
	24		Seat Mat.	PTFE / Graphite	
	25		Ball Mat.	SS 316	SS316
	25		Shaft Mat.		
	26	Actuation	Material	Lever handle	CS
	27				
	28				
	29				
30					
31					
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33					
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36					
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38					
39					
40					
41					
42					
43					
OPTIONS	44				
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		Yes	
	48	Hydrotest certificate		Yes	
	49				
	50				
	51				
PURCHASE	52	Manufacturer		According to aproved vendor list	
	53	Model		Supplier to advise	
	54				
	55				
	56				
	57				

NOTES :



02	TT	25/10/2021	Approve For Construction		
01	TT	20/09/2021	For Approval		
00	TT	25/02/2021	For Approval		
Rev	By	Date	Description		Sheet 4 of 14 Based on P&ID rev. 02

This valve will not checked by instrument department and shall be removed from this data sheet

Doc. No : 17811-45B
 Rev. No : 01
 P&ID. No : BU-20-VD-303-PR-WG-0066
 Page : 5 of 14

GENERAL	1	Tag Number		No Tag.no.: Qty 1 pcs	
	2	Service		Hand Ball valve	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor Outlet	
	5	Line/equip. No.		2"-INA-7002-539D(N)	
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Air	Dry Gas
	9	Pressure	Norm. Max.	21 Bar(a)	26 Bar(a)
	10	Temperature	Norm. Max.	40°C	55°C
	11	Design	Press. Temp.	26 Bar(a)	60°C
	12	Ambient Temp.	Min. Max.	5 °C	55 °C
	13	Oper. Flow		50 Kg/hr / 43 Nm3/hr	
	14				
BODY	16	Body Type		Ball valve, bolted type	
	17	Body Size	Bore	2"	Full bore
	18	Guiding	No. Of Ports	-	2
	19	Conn. Type	End Conn. Rat.	RF	300#
	20	Body Material		Carbon steel ASTM A 216 Gr. WCB / A105	
	21	Packing Material		PTFE / Graphite	
	22	Bonnet Type		Screwed	
	23	Trim	Form	Floating ball	
	24		Seat Mat.	PTFE / Graphite	
	25	Ball Mat.	Shaft Mat.	SS 316	SS316
	26	Actuation	Material	Lever handle	CS
	27				
	28				
	29				
	30				
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
OPTIONS	44				
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		Yes	
	48	Hydrotest certificate		Yes	
	49				
	50				
	51				
PURCHASE	52	Manufacturer		According to aproved vendor list	
	53	Model		Supplier to advise	
	54				
	55				
	56				
	57				

NOTES :



02	TT	25/10/2021	Approve For Construction		
01	TT	20/09/2021	For Approval		
00	TT	25/02/2021	For Approval		
Rev	By	Date	Description		Sheet 5 of 14 Based on P&ID rev. 02

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Doc. No : 17811-45B
 Rev. No. : 01
 P&ID. No : BU-20-VD-303-PR-WG-0066
 Page : 6 of 14

GENERAL	1	Tag Number		No Tag.no.: Qty 2 pcs	
	2	Service		Hand Ball valve	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor Cooling water	
	5	Line/equip. No.		1 1/2"-CWS-7003-501C(N)/ 1 1/2"-CWR-7008-501C(N)	
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Water	Liquid
	9	Pressure	Norm. Max.	4,5 Bar(g)	5 Bar(g)
	10	Temperature	Norm. Max.	35°C	45°C
	11	Design	Press. Temp.	6 Bar(g)	60°C
	12	Ambient Temp.	Min. Max.	5 °C	55 °C
	13	Oper. Flow		3,5 m3/hr	
	14				
BODY	16	Body Type		Ball valve, bolted type	
	17	Body Size	Bore	1 1/2"	Full bore
	18	Guiding	No. Of Ports	-	2
	19	Conn. Type	End Conn. Rat.	RF	150#
	20	Body Material		Carbon steel ASTM A 216 Gr. WCB / A105	
	21	Packing Material		PTFE / Graphite	
	22	Bonnet Type		Screwed	
	23	Trim	Form	Floating ball	
	24		Seat Mat.	PTFE / Graphite	
	25	Ball Mat.	Shaft Mat.	SS 316	SS316
	26	Actuation	Material	Lever handle	CS
	27				
	28				
	29				
	30				
	31				
	32				
33					
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36					
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41					
42					
43					
OPTIONS	44				
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		Yes	
	48	Hydrotest certificate		Yes	
	49				
	50				
	51				
PURCHASE	52	Manufacturer		According to aproved vendor list	
	53	Model		Supplier to advise	
	54				
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	56				
	57				

NOTES :



02	TT	25/10/2021	Approve For Construction		
01	TT	20/09/2021	For Approval		
00	TT	25/02/2021	For Approval		
Rev	By	Date	Description	Sheet 6 of 14 Based on P&ID rev. 02	

This valve will not checked by instrument department and shall be removed from this data sheet

Doc. No : 17811-45B
 Rev. No. : 01
 P&ID. No : BU-20-VD-303-PR-WG-0066
 Page : 7 of 14

GENERAL	1	Tag Number		No Tag.no.: Qty 2 pcs	
	2	Service		Hand Ball valve	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor Oil sump drain & block valve	
	5	Line/equip. No.		N/A	
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Oil	Liquid
	9	Pressure	Norm. Max.	3 Bar(a)	3,5 Bar(a)
	10	Temperature	Norm. Max.	45°C	65°C
	11	Design	Press. Temp.	5 Bar(a)	80°C
	12	Ambient Temp.	Min. Max.	5 °C	55 °C
	13	Oper. Flow			
	14				
BODY	16	Body Type		Ball valve, screwed type	
	17	Body Size	Bore	1/2"	Full bore
	18	Guiding	No. Of Ports	-	2
	19	Conn. Type	End Conn. Rat.	NPT-F	800#
	20	Body Material		SS316	
	21	Packing Material		PTFE / Graphite	
	22	Bonnet Type		Screwed	
	23	Trim	Form	Floating ball	
	24		Seat Mat.	PTFE / Graphite	
	25		Ball Mat. Shaft Mat.	SS 316	SS316
	26	Actuation	Material	Lever handle	CS
	27				
	28				
	29				
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OPTIONS	44				
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		No	
	48	Hydrotest certificate		No	
	49				
	50				
	51				
PURCHASE	52	Manufacturer		According to aproved vendor list	
	53	Model		Supplier to advise	
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NOTES :



02	TT	25/10/2021	Approve For Construction			
01	TT	20/09/2021	For Approval			
00	TT	25/02/2021	For Approval			
Rev	By	Date	Description			Sheet 7 of 14 Based on P&ID rev. 02

This valve will not checked by instrument department and shall be removed from this data sheet

Doc. No : 17811-45B
 Rev. No. : 01
 P&ID. No : BU-20-VD-303-PR-WG-0066
 Page : 8 of 14

GENERAL	1	Tag Number		No Tag.no.: Qty 7 pcs	
	2	Service		Hand Ball valve	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor block valve	
	5	Line/equip. No.		N/A	
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Air/ water	Dry Gas
	9	Pressure	Norm. Max.	21 Bar(a)	26 Bar(a)
	10	Temperature	Norm. Max.	40°C	55°C
	11	Design	Press. Temp.	26 Bar(a)	60°C
	12	Ambient Temp.	Min. Max.	5 °C	55 °C
	13	Oper. Flow			
	14				
BODY	16	Body Type		Ball valve, screwed type	
	17	Body Size	Bore	1/2"	Full bore
	18	Guiding	No. Of Ports	-	2
	19	Conn. Type	End Conn. Rat.	NPT-F	800#
	20	Body Material		SS316	
	21	Packing Material		PTFE / Graphite	
	22	Bonnet Type		Screwed	
	23	Trim	Form	Floating ball	
	24		Seat Mat.	PTFE / Graphite	
	25		Ball Mat. Shaft Mat.	SS 316	SS316
	26	Actuation	Material	Lever handle	CS
	27				
	28				
	29				
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OPTIONS	44				
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		No	
	48	Hydrotest certificate		No	
	49				
	50				
	51				
PURCHASE	52	Manufacturer		According to aproved vendor list	
	53	Model		Supplier to advise	
	54				
	55				
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NOTES :

02	TT	25/10/2021	Approve For Construction		
01	TT	20/09/2021	For Approval		
00	TT	25/02/2021	For Approval		
Rev	By	Date	Description		Sheet 8 of 14 Based on P&ID rev. 02

GENERAL	1	Tag Number		XV-71102	
	2	Service		Ball valve	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor Cooling water Inlet	
	5	Line/equip. No.		1 1/2"-CWS-7003-501C(N)	
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Water	Liquid
	9	Pressure	Norm. Max.	4,5 Bar(g)	5 Bar(g)
	10	Temperature	Norm. Max.	35°C	45°C
	11	Design	Press. Temp.	6 Bar(g)	60°C
	12	Ambient Temp.	Min. Max.	5 °C	55 °C
	13	Oper. Flow		3,5 m3/hr	
	14				
BODY	15	Body Type		Ball valve, bolted type	
	16	Body Size	Bore	Vendor shall follow project PMS TWO PIECES SPLIT-BODY FULL BORE B7/2H (DACROMET COATED), FLOATING BALL LE LD API 608, Anti Blow Out ,Anti Static, Fire Safe, Packing:RPTFE, Valve test API 598,Gasket: 304 Metallic Winding / Flexible Graphite filler Spiral Wound Gasket ,ASME B16.5	
	17	Guiding	No. Of Ports		
	18	Conn. Type	End Conn. Rat.		
	19	Body Material			
	20	Packing Material			
	21	Bonnet Type			
	22	Trim	Form		
	23		Seat Mat.		
	24		Ball Mat. Shaft Mat.		
25	Leakage rate		API502, zero		
26					
ACTUATOR	27	Type		Rack & Pinion, single acting	
	28	Close At	Open At	Spring return	Air supply
	29	Flow Action To		FTC	
	30	Fail Position		FC	
	31	Pneumatic connection		2 x 1/4" NPT-F	
	32	Instrument Supply Fluid		Instrument Air / Nitrogen	
	33	Instrument Supply Fluid pressure		6.0 bar(g)	
	34	Brackets	Coupling	SS316	SS316
	35	Housing material		Aluminium, epoxy coated	
	36				
POSITION MONITOR	38	Type		Solenoid valve is an important accessories in on-off valves so one section must be assigned for this issue and specified general data such as tag no., signal type, ex protection, area classification, material and etc.	
	39	Power supply			
	40	Type of switch/transmitter			
	41	Area Classification			
	42	Cable Gland			
OPTIONS	44				
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		Yes	
	48	Hydrotest certificate		Yes	
	49	ATEX		No	
	50	SIL certificate	Level	No	
	51	IP certificate		No	
PURCHASE	52	Valve Manufacturer		According to aproved vendor list	
	53	Valve Model		Supplier to advise	
	54	Actuator Manufacturer		According to aproved vendor list	
	55	Actuator Model		Supplier to advise	
	56				
	57				



Line no. to be modified as per PID

Vendor shall follow project PMS
 TWO PIECES SPLIT-BODY FULL BORE B7/2H
 (DACROMET COATED), FLOATING BALL LE LD
 API 608, Anti Blow Out ,Anti Static, Fire Safe,
 Packing:RPTFE, Valve test API 598,Gasket: 304
 Metallic Winding / Flexible Graphite filler Spiral
 Wound Gasket ,ASME B16.5

Solenoid valve is an important accessories in on-off valves so one section must be assigned for this issue and specified general data such as tag no., signal type, ex protection, area classification, material and etc.

Ex'd' certificate for solenoid valve is required

NOTES :





				Pneumatic Actuated Valve 	
02	TT	25/10/2021	Approve For Construction		
01	TT	20/09/2021	For Approval		
00	TT	25/02/2021	For Approval		
Rev	By	Date	Description	Sheet	9 of 14
				Based on P&ID rev. 02	

This valve will not checked by instrument department and shall be removed from this data sheet

Doc. No : 17811-45B
 Rev. No : 01
 P&ID. No : BU-20-VD-303-PR-WG-0066
 Page : 11 of 14

GENERAL	1	Tag Number		No Tag.no: Qty 1 pcs	
	2	Service		Globe valve	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor Cooling water	
	5	Line/equip. No.		1 1/2"-CWS-7005-501C(N)	
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Water	Liquid
	9	Pressure	Norm. Max.	4,5 Bar(g)	5 Bar(g)
	10	Temperature	Norm. Max.	35°C	45°C
	11	Design	Press. Temp.	6 Bar(g)	60°C
	12	Ambient Temp.	Min. Max.	5 °C	55 °C
	13	Oper. Flow		3,5 m3/hr	
	14				
BODY	15	Body Type		Globe valve type, OS&Y	
	16	Body Size		1 1/2"	
	17	Guiding	No. Of Ports	-	2
	18	Conn. Type	End Conn. Rat.	RF	150#
	19	Body Material		Carbon steel ASTM A 216 Gr. WCB/WCC / A105	
	20	Packing Material		PTFE / Graphite	
	21	Bonnet Type		Bolted	
	22	Trim		Disc	
	23	Form	Seat Mat.	PTFE / Graphite	
	24	Disc Mat.	Shaft Mat.	SS 316	SS316
	25				
	26				
	27				
	28				
29					
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34					
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36					
37					
38					
39					
40					
41					
42					
43					
OPTIONS	44				
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		Yes	
	48	Hydrotest certificate		Yes	
	49				
	50				
	51				
PURCHASE	52	Manufacturer		According to aproved vendor list	
	53	Model		Supplier to advise	
	54				
	55				
	56				
	57				

NOTES :



02	TT	25/10/2021	Approve For Construction		  
01	TT	20/09/2021	For Approval		
00	TT	25/02/2021	For Approval		
Rev	By	Date	Description	Sheet 11 of 14 Based on P&ID rev. 02	

Please clarify it is not found in PID

Doc. No : 17811-45B
 Rev. No : 01
 P&ID. No : BU-20-VD-303-PR-WG-0066
 Page : 12 of 14

GENERAL	1	Tag Number		No Tag.no: Qty 1 pcs	
	2	Service		Pressure Control Valve	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor Inlet & actuator cooling inlet	
	5	Line/equip. No.		N/A	
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Air	Dry Gas
	9	Pressure	Norm. Max.	8 Bar(a)	9 Bar(a)
	10	Temperature	Norm. Max.	55°C	65°C
	11	Design	Press. Temp.	13.5 Bar(a)	80°C
	12	Ambient Temp.	Min. Max.	5 °C	55 °C
BODY	13	Valve Type		Pressure reducing valve	
	14	Body Material		Aluminium	
	15	Diaphragm Material		Will be informed later	
	16	Trim	Form	Disc / Plug / Globe	
	17		Seat Mat.	Will be informed later	
	18		Spring Mat. Disc Mat.	Will be informed later	Will be informed later
	19				
	20				
	21				
22					
23					
ACTUATOR	25	Type		Mechanical, spring type	
	26	Fail Position		FC	
	27				
	28				
	29				
CONNECTIONS	31	Inlet Size	Outlet Size	1/4"	1/4"
	32	Inlet Connection	Outlet Conn.	Threaded NPT-F	Threaded NPT-F
	33	Inlet Rating	Outlet Rating	800#	800#
	34				
SIZING CONDITIONS	35	Flow Rate		10 Nm³/hr	
	36	Pressure drop		To be advised by the manufacturer	
	37	Pressure setpoint		6,0 bar(g)	
	38				
	39				
OPTIONS	41	Pressure Gauge		Yes	
	42	Material		Aluminium	
	43	Range		0...11 bar(g)	
	44	Filter Regulator and drip well		Yes(Mesh 40)	
CERTIFICATES	45	3.1 Material certificate for body		No	
	46	3.1 Material certificate for stem		No	
	47				
CALCULATIONS	49	Sizing calculation		No	
	50				
	51				
	52				
	53				
PURCHASE	54	Manufacturer		According to aproved vendor list	
	55	Model		Supplier to advise	
	56				
	57				



NOTES :

02	TT	25/10/2021	Approve For Construction				
01	TT	20/09/2021	For Approval				
00	TT	25/02/2021	For Approval				
Rev	By	Date	Description	Based on P&ID		rev. 02	

This valve will not checked by instrument department and shall be removed from this data sheet

Doc. No : 17811-45B
 Rev. No. : 01
 P&ID. No : BU-20-VD-303-PR-WG-0066
 Page : 13 of 14



GENERAL	1	Tag Number		No Tag.no.: Qty 2 pcs	
	2	Service		Check Valve	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor Outlet	
	5	Line/equip. No.		2"-INA-7002-539D(N)	
	6				
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State		Air Dry Gas
	10	Pressure	Norm.	Max.	21 Bar(a) 26 Bar(a)
	11	Temperature	Norm.	Max.	40°C 55°C
	12	Design	Press.	Temp.	26 Bar(a) 60°C
	13	Ambient Temp.	Min.	Max.	5 °C 55 °C
	14	Oper. Flow		50 Kg/hr / 43 Nm3/hr	
	15				
	16				
	17				
	18				
BODY	20	Type Of Body		Wafer type	
	21	Type Of valve		Disc style, pulsation service	
	21	Body Size		DN 50 (Process line = 2" ANSI 300# RF)	
	22	Body Material		Carbon steel	
	23	Cracking Pressure		To be stated by supplier	
	24	Inlet Connection	Outlet Conn.		RF RF
	25	Inlet Rating	Outlet Rating		300# 300#
	26				
	27				
	28				
	29				
	30				
	31				
	32				
OPTIONS	41				
	42				
	43				
	44				
	45				
CERTIFICATES	46	3.1 Material certificate		Yes	
	47				
	48				
	49				
	50				
	51				
PURCHASE	52	Manufacturer		Hoerbigger	
	53	Model		Supplier to advise	
	54				
	55				
	56				

02	TT	25/10/2021	Approve For Construction		
01	TT	20/09/2021	For Approval		
00	TT	25/02/2021	For Approval		
Rev	By	Date	Description	Sheet 13 of 14 Based on P&ID rev. 02	

This valve will not checked by instrument department and shall be removed from this data sheet

Doc. No : 17811-45B
 Rev. No : 01
 P&ID. No : BU-20-VD-303-PR-WG-0066
 Page : 14 of 14

GENERAL	1	Tag Number		No Tag.no.: Qty 1 pcs	
	2	Service		Check Valve	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor Cooling water inlet	
	5	Line/equip. No.		1 1/2"-CWS-7003-501C(N)	
PROCESS CONDITIONS	9	Fluid	State		Water Liquid
	10	Pressure	Norm.	Max.	4,5 Bar(g) 5 Bar(g)
	11	Temperature	Norm.	Max.	35°C 45°C
	12	Design	Press.	Temp.	6 Bar(g) 60°C
	13	Ambient Temp.	Min.	Max.	5 °C 55 °C
	14	Oper. Flow		3,5 m3/hr	
	15				
	16				
	17				
BODY	20	Type Of Body		Flanged bolted type	
	21	Type Of valve		Swing disc	
	21	Body Size		1 1/2" ANSI	
	22	Body Material		Carbon steel	
	23	Cracking Pressure		To be stated by supplier	
	24	Inlet Connection	Outlet Conn.	RF	RF
	25	Inlet Rating	Outlet Rating	150#	150#
	26				
	27				
	28				
OPTIONS	41				
	42				
	43				
	44				
	45				
CERTIFICATES	46	3.1 Material certificate		Yes	
	47				
	48				
	49				
	50				
PURCHASE	52	Manufacturer		According to aproved vendor list	
	53	Model		Supplier to advise	
	54				
	55				
	56				

02	TT	25/10/2021	Approve For Construction		
01	TT	20/09/2021	For Approval		
00	TT	25/02/2021	For Approval		
Rev	By	Date	Description	Sheet 14 of 14 Based on P&ID rev. 02	