

OWNER:



**BUSHEHR PETROCHEMICAL COMPANY  
MEG PLANT**

EPC CONTRACTOR:



MC :



شرکت سبت و سولی  
توسعه ایرانیان




**Calculation & data sheet of control  
valves/ ON-OFF valves for reciprocating  
compressor**



Owner Document Number: 17811-45	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
	BU	20	VD	303	IN	DSH	0041	Rev.:	Page
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**Calculation & data sheet of control valves/ ON-OFF valves  
for reciprocating compressor**

00	25/02/2021	For approval		TvT	KP	PW	
Rev.	Date	Purpose of Issue		Prepared	Checked	Approved	AC Code
						Class: 1	Phase: P

OWNER  شرکت پتروشیمی بوته‌ر	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>						EPC CONTRACTOR: 		
	<b>Calculation &amp; data sheet of control valves/ ON-OFF valves for reciprocating compressor</b>								
MC :  شرکت سفت و سوی توسعه ایرانیان	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-45	BU	20	VD	303	IN	DSH	0041	Rev.:	Page
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**Notes:**

				<b>INSTRUMENT AND VALVE DATASHEET Index</b>		
						
00	TT	25-2-2021	For Approval			Sheet
Rev	By	Date	Description			3 of 19 Based on P&ID Rev.B


GENERAL	1	Tag Number		No Tag.no.: Qty 2 pcs	
	2	Service		Hand Ball valve	
	3	P&ID No.		17811-03	
	4	Location		Compressor Inlet	
	5				
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Air / Nitrogen	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		90 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		Form	Floating ball	
	24	Trim	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 :**

				<b>INSTRUMENT AND VALVE DATASHEET</b>	
				<b>Hand Ball Valve</b>	
					
00	TT	25-2-2021	For Approval		Sheet 4 of 19
Rev	By	Date	Description		Based on P&ID Rev.B


GENERAL	1	Tag Number		No Tag.no.: Qty 2 pcs	
	2	Service		Hand Ball valve	
	3	P&ID No.		17811-03	
	4	Location		Compressor Outlet	
	5				
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Air / Nitrogen	Dry Gas
	9	Pressure	Norm. Max.	23,5 Bar(a)	26 Bar(a)
	10	Temperature	Norm. Max.	40°C	55°C
	11	Design	Press. Temp.	35.25 Bar(a)	60°C
	12	Ambient Temp.	Min. Max.	5 °C	55 °C
	13	Oper. Flow		90 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		Form	Floating ball	
	24	Trim	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 :**

				<b>INSTRUMENT AND VALVE DATASHEET</b>	
				<b>Hand Ball Valve</b>	
					
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Rev	By	Date	Description		Based on P&ID Rev.B


GENERAL	1	Tag Number		No Tag.no.: Qty 4 pcs	
	2	Service		Hand Ball valve	
	3	P&ID No.		17811-03	
	4	Location		Compressor Cooling water	
	5				
	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		....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		Form	Floating ball	
	24	Trim	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				
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**NOTES :**

				<b>INSTRUMENT AND VALVE DATASHEET</b>	
				<b>Hand Ball Valve</b>	
					
00	TT	25-2-2021	For Approval		Sheet 6 of 19
Rev	By	Date	Description		Based on P&ID Rev.B


GENERAL	1	Tag Number		No Tag.no.: Qty 4 pcs	
	2	Service		Hand Ball valve	
	3	P&ID No.		17811-03	
	4	Location		Compressor Oil sump drain & block valve	
	5				
	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		Form	Floating ball	
	24	Trim	Seat Mat.		PTFE / Graphite
	25		Ball Mat.	Shaft Mat.	SS 316 SS316
	26	Actuation	Material	Lever handle	CS
	27				
	28				
	29				
	30				
	31				
	32				
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39					
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42					
43					
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				
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**NOTES :**

				<b>INSTRUMENT AND VALVE DATASHEET</b>	
				<b>Hand Ball Valve</b>	
					
00	TT	25-2-2021	For Approval		Sheet 7 of 19
Rev	By	Date	Description		Based on P&ID Rev.B


GENERAL	1	Tag Number		No Tag.no.: Qty 14 pcs	
	2	Service		Hand Ball valve	
	3	P&ID No.		17811-03	
	4	Location		Compressor block valve	
	5				
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Air / Nitrogen/ water	Dry Gas
	9	Pressure	Norm. Max.	23,5 Bar(a)	26 Bar(a)
	10	Temperature	Norm. Max.	40°C	55°C
	11	Design	Press. Temp.	35.25 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		Form	Floating ball	
	24	Trim	Seat Mat.		PTFE / Graphite
	25		Ball Mat.	Shaft Mat.	SS 316 SS316
	26	Actuation	Material	Lever handle	CS
	27				
	28				
	29				
	30				
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	32				
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43					
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				
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**NOTES :**

				<b>INSTRUMENT AND VALVE DATASHEET</b> <b>Hand Ball Valve</b> 	
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Rev	By	Date	Description		Based on P&ID Rev.B

GENERAL	1	Tag Number		XV-10002 XV-70002	
	2	Service		Ball valve	
	3	P&ID No.		17811-03	
	4	Location		Compressor Cooling water Inlet	
	5				
	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		....m3/hr	
BODY	15	Body Type		Ball valve, bolted type	
	16	Body Size	Bore	1 1/2"	Full bore
	17	Guiding	No. Of Ports	-	2
	18	Conn. Type	End Conn. Rat.	RF	150#
	19	Body Material		Carbon steel ASTM A 216 Gr. WCB/ A105	
	20	Packing Material		PTFE / Graphite	
	21	Bonnet Type		Screwed	
	22	Trim	Form	Floating ball	
	23		Seat Mat.	PTFE / Graphite	
	24		Ball Mat. Shaft Mat.	SS 316	SS316
	25				
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		N/A	
	39	Power supply		N/A	
	40	Type of switch/transmitter		N/A	
	41	Area Classification		N/A	
	42	Cable Gland		N/A	
OPTIONS	43				
	44				
	45				
CERTIFICATES	46				
	47	3.1 Material certificate		Yes	
	48	Hydrotest certificate		Yes	
	49	ATEX		No	
	50	SIL certificate	Level	No	
PURCHASE	51	IP certificate		No	
	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	Position Monitor Manufacturer		According to aproved vendor list	
57	Position Monitor Model		Supplier to advise		


**NOTES :**

				<b>INSTRUMENT AND VALVE DATASHEET</b>	
				<b>Pneumatic Actuated Valve</b>	
					
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Rev	By	Date	Description	Based on P&ID	Rev.B




GENERAL	1	Tag Number		No Tag.no: Qty 2 pcs		
	2	Service		Globe valve		
	3	P&ID No.		17811-03		
	4	Location		Compressor Cooling water		
	5					
	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		....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	Form		Disc	
	23		Seat Mat.		PTFE / Graphite	
	24		Disc Mat.	Shaft Mat.	SS 316	SS316
	25					
	26					
	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 :**


				<b>INSTRUMENT AND VALVE DATASHEET</b>	
				<b>Hand Globe Valve</b>	
					
00	TT	25-2-2021	For Approval	Sheet 11 of 19 Based on P&ID Rev.B	
Rev	By	Date	Description		

GENERAL	1	Tag Number		No Tag.no: Qty 2 pcs	
	2	Service		Pressure Control Valve	
	3	P&ID No.		17811-03	
	4	Location		Compressor Inlet & actuator cooling inlet	
	5				
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Air / Nitrogen	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					
24					
ACTUATOR	25	Type		Mechanical, spring type	
	26	Fail Position		FC	
	27				
	28				
	29				
	30				
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				
	48				
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 :**


				<b>INSTRUMENT AND VALVE DATASHEET</b>	
				<b>Pressure Reducing Valve</b>	
					
00	TT	25-2-2021	For Approval	Sheet	12 of 19
Rev	By	Date	Description	Based on P&ID Rev.B	

GENERAL	1	Tag Number			PCV-10001	
	2	Service			Pressure control valve	
	3	P&ID No.			17811-03	
	4	Location			Compressor bypass (recycle) valve	
	5					
	6					
	7					
PROCESS CONDITIONS	8	Fluid	State		Nitrogen	Dry Gas
	9	Pressure	Norm.	Max.	23,5 Bar(a)	26 Bar(a)
	10	Temperature	Norm.	Max.	40°C	55°C
	11	Design	Press.	Temp.	35.25 Bar(a)	60°C
	12	Ambient Temp.	Min.	Max.	5 °C	55 °C
BODY	13	Type Of Body			Globe valve	
	14	Body Size			(1"/VTA) ANSI	
	15	Conn. Type	End Conn. Rat.		RF	300#
	16	Body Material			Carbon steel	
	17	Packing Material			PTFE / Graphite	
	18	Bonnet Type			Integral	
	19	Trim	Form		Disc	
	20		Seat Mat.		PTFE / Graphite	
	21		Disc Mat.	Shaft Mat.	SS 316	SS316
	22	Required Seat Tightness			IV	
	23	Max. Allow. Sound Level (dBa)			-	
	24					
25						
26						
ACTUATOR	27	Positioner controller			Electro-pneumatic (I/P)	
	28	Interface			4 -20 mA , HART	
	29	Fail Position			FC	
	30	Pneumatic Conn.			1/4" NPT-F	
	31	Instrument Supply Fluid			Nitrogen	
	32	Instrument Supply Fluid pressure			6,0 bar(g)	
	33	Position Monitor			No,	
	34	Area Classification			Zone 2, Eex'ia	
	35	Electric Connection			ISO M20 x 1,5	
	36	Cable Gland			Yes, Eex 'de' certified (Airpack scope)	
	37					
ACCESSORIES	38	Filter Regulator			Yes	
	39	Gauges			Yes	
	40					
SERVICE	41	Flow Rate			90 Nm³/hr	
	42	Pressure	Inlet	outlet	23,5 bar(a)	8 bar(a)
	43	Pressure drop			To be advised by the manufacturer	
	44	Cv Selected			To be advised by the manufacturer	
	45					
	46					
	47					
	48					
CERTIFICATES	49	3.1 Material certificate			Yes	
	50	ATEX			No	
	51	SIL certificate	Level		No	
	52					
PURCHASE	53	Valve Manufacturer			According to aproved vendor list	
	54	Valve Model			Supplier to advise	
	55	Actuator Manufacturer			According to aproved vendor list	
	56	Actuator Model			Supplier to advise	
	57					

				<b>INSTRUMENT AND VALVE DATASHEET</b>	
				<b>Pressure Control Valve</b>	
					
00	TT	25-2-2021	For Approval	Sheet	13 of 19
Rev	By	Date	Description	Based on P&ID	Rev.B




GENERAL	1	Tag Number			PCV-70001	
	2	Service			Pressure control valve	
	3	P&ID No.			17811-03	
	4	Location			Compressor bypass (recycle) valve	
	5					
	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.	35.25 Bar(a)	60°C
	12	Ambient Temp.	Min.	Max.	5 °C	55 °C
BODY	13	Type Of Body			Globe valve	
	14	Body Size			(1"/VTA) ANSI	
	15	Conn. Type	End Conn. Rat.		RF	300#
	16	Body Material			Carbon steel	
	17	Packing Material			PTFE / Graphite	
	18	Bonnet Type			Integral	
	19	Trim	Form		Disc	
	20		Seat Mat.		PTFE / Graphite	
	21		Disc Mat.	Shaft Mat.	SS 316	SS316
	22	Required Seat Tightness			IV	
	23	Max. Allow. Sound Level (dBa)			-	
	24					
25						
26						
ACTUATOR	27	Positioner controller			Electro-pneumatic (I/P)	
	28	Interface			4 -20 mA , HART	
	29	Fail Position			FC	
	30	Pneumatic Conn.			1/4" NPT-F	
	31	Instrument Supply Fluid			Nitrogen	
	32	Instrument Supply Fluid pressure			6.0 bar(g)	
	33	Position Monitor			No,	
	34	Area Classification			Zone 2, Eex'ia	
	35	Electric Connection			ISO M20 x 1,5	
	36	Cable Gland			Yes, Eex 'de' certified (Airpack scope)	
	37					
ACCESSORIES	38	Filter Regulator			Yes	
	39	Gauges			Yes	
	40					
SERVICE	41	Flow Rate			43 Nm³/hr	
	42	Pressure	Inlet	outlet	21 bar(a)	8 bar(a)
	43	Pressure drop			To be advised by the manufacturer	
	44	Cv Selected			To be advised by the manufacturer	
	45					
	46					
	47					
	48					
CERTIFICATES	49	3.1 Material certificate			Yes	
	50	ATEX			No	
	51	SIL certificate	Level		No	
	52					
PURCHASE	53	Valve Manufacturer			According to aproved vendor list	
	54	Valve Model			Supplier to advise	
	55	Actuator Manufacturer			According to aproved vendor list	
	56	Actuator Model			Supplier to advise	
	57					

				<b>INSTRUMENT AND VALVE DATASHEET</b>	
				<b>Pressure Control Valve</b>	
					
00	TT	25-2-2021	For Approval	Sheet	15 of 19
Rev	By	Date	Description	Based on P&ID	Rev.B




GENERAL	1	Tag Number		No Tag.no.: Qty 2 pcs		
	2	Service		Check Valve		
	3	P&ID No.		17811-03		
	4	Location		Compressor Outlet		
	5					
	6					
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State		Nitrogen	Dry Gas
	10	Pressure	Norm.	Max.	23,5 Bar(a)	26 Bar(a)
	11	Temperature	Norm.	Max.	40°C	55°C
	12	Design	Press.	Temp.	35.25 Bar(a)	60°C
	13	Ambient Temp.	Min.	Max.	5 °C	55 °C
	14	Oper. Flow		90 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					
	33					
	34					
	35					
	36					
37						
38						
39						
40						
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					

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				<b>INSTRUMENT AND VALVE DATASHEET</b>	
				Check Valve	
					
00	TT	25-2-2021	For Approval	Sheet	17 of 19
Rev	By	Date	Description	Based on P&ID	Rev.B


GENERAL	1	Tag Number		No Tag.no.: Qty 2 pcs	
	2	Service		Check Valve	
	3	P&ID No.		17811-03	
	4	Location		Compressor Outlet	
	5				
	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.	35.25 Bar(a)	60°C
	13	Ambient Temp.	Min. Max.	5 °C	55 °C
	14	Oper. Flow		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				
	33				
	34				
	35				
	36				
37					
38					
39					
40					
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				

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				<b>INSTRUMENT AND VALVE DATASHEET</b>	
				Check Valve	
					
00	TT	25-2-2021	For Approval	Sheet	18 of 19
Rev	By	Date	Description	Based on P&ID	Rev.B

GENERAL	1	Tag Number		No Tag.no.: Qty 2 pcs	
	2	Service		Check Valve	
	3	P&ID No.		17811-03	
	4	Location		Compressor Cooling water inlet	
	5				
	6				
	7				
	8				
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		... m3/hr	
	15				
	16				
	17				
	18				
BODY	20	Type Of Body		Flanged bolted type	
	21	Type Of valve		Swing disc	
	21	Body Size		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				
	29				
	30				
	31				
	32				
	33				
	34				
	35				
	36				
37					
38					
39					
40					
OPTIONS	41				
	42				
	43				
	44				
	45				
CERTIFICATES	46	3.1 Material certificate		Yes	
	47				
	48				
	49				
	50				
	51				
PURCHASE	52	Manufacturer		According to aproved vendor list	
	53	Model		Supplier to advise	
	54				
	55				
	56				

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			<b>INSTRUMENT AND VALVE DATASHEET</b>		
			<b>Check Valve</b>		
					
00	TT	25-2-2021	For Approval		Sheet 19 of 19
Rev	By	Date	Description		Based on P&ID Rev.B