

	DOCUMENTO BASE DE INGENIERÍA	Código:	ISE-R-ING-01
	HOJA DE DATOS VÁLVULAS MANUALES	Página:	1 de 23
		Revisión:	0
		Tipo de documento:	Registro

	NOMBRE DEL PROYECTO:		
	INGENIERÍA BÁSICA AVANZADA PARA LA ADECUACIÓN DE LA ESTACIÓN COCHABAMBA		
	Nº PROYECTO:	DOCUMENTO Nº:	ÁREA:
	ING_21_40	ISE-2140-CBA-EB-DM-HD-009	ESTACIÓN SP COCHABAMBA (CB)

ÍNDICE DE REVISIONES	
REV.	DESCRIPCIÓN
A	REVISIÓN Y APROBACIÓN DEL CLIENTE
B	REVISIÓN Y APROBACIÓN DEL CLIENTE
0	APROBADO POR EL CLIENTE


	Rev. A	Rev. B	Rev. 0			
Fecha:	04/07/22	21/08/22	13/09/22			
Preparado por:	J. Mollo	J. Mollo	J. Mollo			
Revisado por:	R. Álvarez	R. Álvarez	R. Álvarez			
Aprobado por:	G. Montañó	G. Montañó	G. Montañó			

	YFPB TRANSPORTE S.A.	Nº: ISE-2140-CBA-EB-DM-HD-009	REV: 0
	PROYECTO: INGENIERÍA BÁSICA AVANZADA PARA LA ADECUACIÓN DE LA ESTACIÓN COCHABAMBA		HOJA: 3 de 28
	TÍTULO: HOJA DE DATOS VÁLVULAS MANUALES		

2. Vendor shall specify the torque depending the manufacture.
3. Vendor shall include catalogues with its proposal
4. Vendor Shall include quality certificates, hydrostatic test results and QSL2

BALL VALVES						
GENERAL DATA						
1	Site	Cochabamba Station				
2	Tag Number	V-1000, V-1002, V-1100 V-1101, V-1102, V-1103 V-801, V-802, V-807 V-808, V-817, V-818	V-805, V-826 V-828, V-811, V-815	V-819, V-820 V-822, V-829	V-372, V-373, V-374 V-376, V-378, V-379 V-380, V-383, V-385 V-386, V-387, V-393 V-394, V-396, V-398 V-556, V-558, V-563 V-707, V-709, V-710 V-711, V-740, V-741	
3	Quantity	12	5	4	24	
4	Service	L.P.G. (Liquified Petroleum Gas)				
5	Application	L.P.G.	L.P.G.	L.P.G.	L.P.G.	
6	Line Number	1"-0.179"-A(V-3)-1000 1"-0.179"-B(V-3)-1037 1"-0.179"-B(V-3)-1038 1"-0.179"-A(GD-3)-801 1"-0.179"-A(GD-3)-809 1"-0.179"-A(GD-3)-807	1"-0.179"-A(GD-3)-804 1"-0.179"-A(GD-3)-808 1"-0.179"-A(GD-3)-806	1 1/2"-0.200"-A(GD-3)-812 1 1/2"-0.200"-A(GD-3)-811	6"-0.280"-A(GLP-3)-388 6"-0.280"-A(GLP-3)-467 6"-0.280"-A(GLP-3)-380 6"-0.280"-A(GLP-3)-381 6"-0.280"-A(GLP-3)-386 6"-0.280"-A(GLP-3)-387 6"-0.280"-A(GLP-3)-464	
PROCESS DATA						
7	Fluid	L.P.G. (Liquified Petroleum Gas)				
8	Specific Gravity	0.508	0.508	0.508	0.508	
9	Flow Rated	BPD	15096	15096	15096	15096
10	Design Pressure	Psig	740	740	740	740
11	Operating Pressure	Psig	200	200	200	200
12	Temperature	°F	71.6	71.6	71.6	71.6
VALVE DATA						
13	Valve Type	Side Entry	Side Entry	Side Entry	Side Entry	
14	Port Type	Reduced Port	Reduced Port	Reduced Port	Full Port	
15	Size	inch	1	1 1/2	6	
16	Class/End	3000# / SW	6000# / SW	3000# / SW	300# / RF	
17	Mounted Options	Floating	Floating	Floating	Trunnion	
18	Body Type	Three Pieces	Three Pieces	Three Pieces	Three Pieces	
19	Operator Type	Lever	Lever	Lever	Gear Operated	
20	Materials	Body	ASTM – A350 LF2	ASTM – A350 LF2	ASTM – A350 LF2	ASTM – A350 LF2
21		Ball	Stainless Steel AISI 316	Stainless Steel AISI 316	Stainless Steel AISI 316	ASTM A350 LF2 (ENP)
22		Stem	Stainless Steel AISI 316	Stainless Steel AISI 316	Stainless Steel AISI 316	Stainless Steel AISI 4131
23		Seat Insert	PTFE	PTFE	PTFE	PTFE
25	Torque (BTO/ETC)	in-lb	By Vendor	By Vendor	By Vendor	By Vendor
26	Manufacturer		By Purchaser	By Purchaser	By Purchaser	By Purchaser
27	Model		By Vendor	By Vendor	By Vendor	By Vendor
OPTIONS						
28	Anti-static Device		Included	Included	Included	Included
29	Blow out Proof Stem		Included	Included	Included	Included
30	Test and Certificate		API 6D	API 6D	API 6D	API 6D
31	Fire Safe Test		API 6FA	API 6FA	API 6FA	API 6FA

Reference Documents

	YPFB TRANSPORTE S.A.	Nº: ISE-2140-CBA-EB-DM-HD-009	REV: 0
	PROYECTO: INGENIERÍA BÁSICA AVANZADA PARA LA ADECUACIÓN DE LA ESTACIÓN COCHABAMBA		HOJA: 4 de 28
	TÍTULO: HOJA DE DATOS VÁLVULAS MANUALES		

- CB-E214-PR-00-03-03 DE 04 – Diagram (P&ID) – Adequacy of Main Systems
- CB-E214-PR-00-03-04 DE 04 – Diagram (P&ID) – Adaptation of Auxiliary Systems
- ISE-2140-CBA-EB-DP-LI-002– Valve List

Notes:


1. L.P.G. is considered as the most critical service
2. Vendor shall specify the torque depending the manufacture.
3. Vendor shall include catalogues with its proposal
4. Vendor Shall include quality certificates, hydrostatic test results and QSL2

BALL VALVES						
GENERAL DATA						
1	Site	Cochabamba Station				
2	Tag Number	V-1047, V-1092, V-1110 V-1111, V-824	V-1094	V-1055, V-1091 V-1113, V-1115	V-1053, V-1069, V-1070 V-1089, V-1112, V-1114	
3	Quantity	5	1	4	6	
4	Service	L.P.G. (Liquified Petroleum Gas)				
5	Application	L.P.G.	L.P.G.	L.P.G.	L.P.G.	
6	Line Number	2"-0.218"-A(V-1)-1017 2"-0.218"-A(GD-3)-814	2"-0.218"-A(V-1)-1018	3"-0.216"-A(V-3)-1022 3"-0.216"-A(V-3)-1036	3"-0.216"-A(V-3)-1022 3"-0.300"-A(V-9)-1030 3"-0.300"-A(V-9)-1031	
PROCESS DATA						
7	Fluid		L.P.G. (Liquified Petroleum Gas)			
8	Specific Gravity		0.508	0.508	0.508	0.508
9	Flow Rated	BPD	15096	15096	15096	15096
10	Design Pressure	Psig	740	740	740	740
11	Operating Pressure	Psig	200	200	200	200
12	Temperature	°F	71.6	71.6	71.6	71.6
VALVE DATA						
13	Valve Type		Side Entry	Side Entry	Side Entry	Side Entry
14	Port Type		Reduced Port	Reduced Port	Full Port	Full Port
15	Size	inch	2	2	3	3
16	Class/End		300# / RF	150# / RF	300# / RF	900# / RF
17	Mounted Options		Trunnion	Trunnion	Trunnion	Trunnion
18	Body Type		Three Pieces	Three Pieces	Three Pieces	Three Pieces
19	Operator Type		Lever	Lever	Lever	Lever
20	Materials	Body	ASTM – A350 LF2	ASTM – A350 LF2	ASTM – A350 LF2	ASTM – A350 LF2
21		Ball	ASTM A350 LF2 (ENP)	ASTM A350 LF2 (ENP)	ASTM A350 LF2 (ENP)	ASTM A350 LF2 (ENP)
22		Stem	Stainless Steel AISI 316	Stainless Steel AISI 316	Stainless Steel AISI 4131	Stainless Steel AISI 4131
23		Seat Insert	PTFE	PTFE	PTFE	PTFE
25	Torque (BTO/ETC)	in-lb	By Vendor	By Vendor	By Vendor	By Vendor
26	Manufacturer		By Purchaser	By Purchaser	By Purchaser	By Purchaser
27	Model		By Vendor	By Vendor	By Vendor	By Vendor
OPTIONS						
28	Anti-static Device		Included	Included	Included	Included
29	Blow out Proof Stem		Included	Included	Included	Included
30	Test and Certificate		API 6D	API 6D	API 6D	API 6D
31	Fire Safe Test		API 6FA	API 6FA	API 6FA	API 6FA

Reference Documents

- CB-E214-PR-00-03-03 DE 04 – Diagram (P&ID) – Adequacy of Main Systems
- CB-E214-PR-00-03-04 DE 04 – Diagram (P&ID) – Adaptation of Auxiliary Systems
- ISE-2140-CBA-EB-DP-LI-002– Valve List

Notes:

	YPFB TRANSPORTE S.A.	Nº: ISE-2140-CBA-EB-DM-HD-009	REV: 0
	PROYECTO: INGENIERÍA BÁSICA AVANZADA PARA LA ADECUACIÓN DE LA ESTACIÓN COCHABAMBA		HOJA: 26 de 28
	TITULO: HOJA DE DATOS VÁLVULAS MANUALES		

TRIPLE EXCENTRIC LUG BUTTERFLY VALVE			
GENERAL DATA			
1	Site	Cochabamba Station	
2	Tag Number	V-382 V-377	
3	Quantity	2	
4	Service	L.P.G. (Liquified Petroleum Gas)	
5	Application	Suction LPG	
6	Line Number	6"-0.280"-A(GLP-3)-380	
PROCESS DATA			
7	Fluid		LPG
8	Specific Gravity		0.508
9	Flow Rated	BPD	15096
10	Design Pressure	Psig	740
11	Operating Pressure	Psig	200
12	Temperature	°F	71.6
VALVE DATA			
13	Valve Type		Triple OFFSET Lug Butterfly Valve
14	Size	inch	4
15	Class/End		300# / RF
16	Operator Type		Lever
17	Materials	Body	ASTM A351 CF8
18		Cover	-
19		Disc	ASTM A351 CF8
20		Seal Ring	SS 318 Duplex
21		Shatf	ASTM A479
22		Packing	Graphite
23		Botton Flange	A240 Tp 316
24		Bearing	SS 316
25	Manufacturer		By Purchaser
26	Model		By Vendor
OPTIONS			
27	Anti-static Device		Included
28	Blow out Proof Stem		Included
29	Test and Certificate		API 308 / API 598
30	Fire Safe Test		API 607

Reference Documents

- CB-E214-PR-00-03-03 DE 04 – Diagram (P&ID) – Adequacy of Main Systems
- CB-E214-PR-00-03-04 DE 04 – Diagram (P&ID) – Adaptation of Auxiliary Systems
- ISE-2140-CBA-EB-DP-LI-002– Valve List

Notes:

1. L.P.G. is considered as the most critical service.
2. Vendor shall specify the torque depending the manufacture.
3. Vendor shall include catalogues with its proposal.
4. Vendor Shall include quality certificates, hydrostatic test results and QSL2.