



Lavan Oil Refining Company

CONTROL VALVE DATA SHEET

TAG NO. : PV-2254 **SERVICE:VAPOUR- LPG**

Qty : 1 **LINE NO. : 22-FLG22-AN01-4"**

1	FLUID/PHASE: LPG /VAPOUR			DESIGN. PRESS. (KG/CM2 G)/DESIGN TEMP.(C) : 20/107			
2	UNITS	MAX. FLOW	NORM. FLOW	MIN. FLOW	SHUT-OFF		
2	FLOW RATE	KG/HR	7620	6600	3300		
3	INLET PRESSURE	KG/CM2 G	10.85	11	12		
4	OUTLET PRESSURE	KG/CM2 G	8	8	8		
5	INLET TEMPERATURE	°C	81.6	81.6	81.6		
6	OPERATING DENSITY / MOL WT	KG/M3 / -	29.1 / 58.2	29.5 / 58.2	32.5 / 58.2		
7	VISCOSITY/SPEC HEATS RATIO	cP / -	0.009/1.1	0.009/1.1	0.009/1.1		
8	VAPOR PRESSURE (Pv)	KG/CM2 A	-	-	-		
9	*REQUIRED Cv		35	31.8	14.9		
10	*TRAVEL	%					
11	ALLOWABLE/*PREDICTED SPL	dBA					
12	COMP FACTOR (Z)				-		
13	LINE	PIPE LINE SIZE	IN : 4"-SCH40	53	ACTUATOR	*TYPE: DIAPHRAGM	
14		& SCHEDULE	OUT: 4"-SCH40	54		*MFR & MODEL	
15	PIPE LINE INSULATION:	PT	55	*SIZE		EFF. AREA	
16	VALVE BODY/BONNET	*TYPE:	EQUAL PERCENT	56		ON/OFF <input type="checkbox"/> MODULATING <input checked="" type="checkbox"/>	
17		*SIZE (inch):	3"	57		RATING:	300
18		MAX PRESS(KG/CM2 G)/TEMP(°C):	20/107	58		SPRING ACTION OPEN/CLOSE:	CLOSE
19		*MFR & MODEL		59		*MAX. ALLOWABLE PRESSURE	
20		*BODY/BONNET MTRL:	A-216 Gr.WCB	60		*MIN REQUIRED PRESSURE	
21		*LINER MATERIAL/ID		61		CONTROL PRESSURE RANGE:	
22		END	IN: FLG, 300#, AASME B16.5	62		MAX: 1 BARG	MIN: 0.2 BARG
23		CONNECTION	OUT: FLG, 300#, AASME B16.5	63		*BENCH RANGE	
24		FLG. FACE FINISH:	RF	64		ACTUATOR ORIENTATION:	VERTICAL
25		END EXT/MATL:		65	HANDWHEEL	N/A	
26	*FLOW DIRECTION:		66	AIR FAILURE	NO		
27	*TYPE OF BONNET:	BOLTED	67	INPUT SIGNAL : FOUNDATION FIELDBUS			
28	LUB & ISO VALVE:	NO	68	POSITIONER	*TYPE: FF/PNEUMATIC		
29	*PACKING MATERIAL:	PTFE	69		*MFR & MODEL		
30	*PACKING TYPE:		70		*ON INCR SIGNAL OUTPUT INCR/DECR		
31			71	GAUGES: YES	BYPASS: NO		
32			72	*CAM CHARACTERISTIC			
33	TRIM	*TYPE:	SINGLE SEAT	74	SWITCHES	TYPE: N/A	
34		*SIZE		75		QUANTITY	
35		*CHARACTERISTIC:	%EQ	76	*MFR & MODEL		
36		*BALANCED / UNBALANCED		77	CONTACTS / RATING		
37		*RATED Cv	FL Xt	79	ACTUATION POINTS		
38		*PLUG/BALL/DISK MTRL:	316SS+STELLITE	80	AIR SET	*MFR & MODEL:	
39	*SEAT MTRL:	316SS+STELLITE	81	AIR CONNECTIC 1/4" NPTF			
40	*CAGE/GUIDE MTRL:	316SS+STELLITE	83	AVAILABLE AIR SUPPLY PRESSURE MAX / MIN (BARG):		8 / 4	
	*STEM MTRL:	316SS+STELLITE	84	*SET PRESSURE			
				FILTER: YES	GAUGE: YES		

NOTE:
*: BY VENDOR



Lavan Oil Refining Company

CONTROL VALVE DATA SHEET

TAG NO. : LV-2253	SERVICE: LPG
Qty : 1	LINE NO. : 22-LPG22-AN02-3"

1	SERVICE CONDITIONS	FLUID/PHASE: LPG / LIQUID			DESIGN. PRESS. (KG/CM2 G)/DESIGN TEMP.(C) : 20/107		
			UNITS	MAX. FLOW	NORM. FLOW	MIN. FLOW	SHUT-OFF
2		FLOW RATE	KG/HR	7620	6600	3300	
3		INLET PRESSURE	KG/CM2 G	11.35	11.35	11.35	
4		OUTLET PRESSURE	KG/CM2 G	10.85	10.85	10.85	
5		INLET TEMPERATURE	°C	45	45	45	
6		OPERATING DENSITY / MOL WT	KG/M3 / -	550 / 58.2	550 / 58.2	550 / 58.2	
7		VISCOSITY/SPEC HEATS RATIO	cP / -	0.115/1.41	0.115/1.41	0.138/1.41	
8		VAPOR PRESSURE (Pv)	KG/CM2 A	-	-	-	
9		*REQUIRED Cv		17	15.5	7.7	
10		*TRAVEL	%				
11		ALLOWABLE/*PREDICTED SPL	dBA				
12	COMP FACTOR (Z)					-	
13	LINE	PIPE LINE SIZE	IN : 3"-SCH40	53	ACTUATOR	*TYPE: DIAPHRAGM	
14		& SCHEDULE	OUT: 3"-SCH40	54		*MFR & MODEL	
15	PIPE LINE INSULATION:	PT	55	*SIZE		EFF. AREA	
16	VALVE BODY/BONNET	*TYPE: GLOBE		56		ON/OFF <input type="checkbox"/> MODULATING <input type="checkbox"/> <input checked="" type="checkbox"/>	
17		*SIZE (inch): 1 1/2"	RATING: 300	57		SPRING ACTION OPEN/CLOSE: CLOSE	
18		MAX PRESS(KG/CM2 G)/TEMP(°C): 20/107		58		*MAX. ALLOWABLE PRESSURE	
19		*MFR & MODEL		59		*MIN REQUIRED PRESSURE	
20		*BODY/BONNET MTRL: A-216 Gr.WCB		60		CONTROL PRESSURE RANGE:	
21		*LINER MATERIAL/ID		61		MAX: 1 BARG	MIN: 0.2 BARG
22		END	IN: FLG, 300#, AASME B16.5	62		*BENCH RANGE	
23		CONNECTION	OUT: FLG, 300#, AASME B16.5	63		ACTUATOR ORIENTATION: VERTICAL	
24		FLG. FACE FINISH:	RF	64		HANDWHEEL N/A	
25		END EXT/MATL:		65	AIR FAILURE NO		
26	*FLOW DIRECTION:		67	INPUT SIGNAL : FOUNDATION FIELDBUS			
27	*TYPE OF BONNET: BOLTED		68	POSITIONER	*TYPE: FF/PNEUMATIC		
28	LUB & ISO VALVE: NO		69		*MFR & MODEL		
29	*PACKING MATERIAL: PTFE		70		*ON INCR SIGNAL OUTPUT INCR/DECR		
30	*PACKING TYPE: MFR STD		71		GAUGES: YES BYPASS: NO		
31			72		*CAM CHARACTERISTIC		
32	TRIM	*TYPE: SINGLE SEAT		74	SWITCHES	TYPE: N/A QUANTITY	
33		*SIZE		75		*MFR & MODEL	
34		*CHARACTERISTIC: %EQ		76	CONTACTS / RATING		
35		*BALANCED / UNBALANCED		77	ACTUATION POINTS		
36		*RATED Cv	FL Xr	79	AIR SET	*MFR & MODEL: AIR CONNECTION 1/4" NPTF	
37		*PLUG/BALL/DISK MTRL: 316SS+STELLITE		80		AVAILABLE AIR SUPPLY PRESSURE MAX / MIN (BARG): 8 / 4	
38		*SEAT MTRL: 316SS+STELLITE		81		*SET PRESSURE	
39		*CAGE/GUIDE MTRL: 316SS+STELLITE		83		FILTER: YES GAUGE: YES	
40	*STEM MTRL: 316SS+STELLITE		84				

NOTE:
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Lavan Oil Refining Company

CONTROL VALVE DATA SHEET

TAG NO. : TV-2253

SERVICE: LPS STEAM

Qty. : 1

LINE NO. : 22-LPS22-AN10-3"-IH

1		FLUID/PHASE: LPS / STEAM	UNITS	MAX. FLOW	NORM. FLOW	MIN. FLOW	SHUT-OFF
2	SERVICE CONDITIONS	FLOW RATE	KG/HR	1289	1173	586	
3		INLET PRESSURE	KG/CM2 G	5	5.00	5	
4		OUTLET PRESSURE	KG/CM2 G	4.5	4.50	4.5	
5		INLET TEMPERATURE	°C	158.7	158.7	158.7	
6		OPERATING DENSITY / MOL WT	KG/M3 / -	3.16 / 18	3.16 / 18	3.16 / 18	
7		VISCOSITY/SPEC HEATS RATIO	cP / -	-1.38	-1.38	-1.38	
8		VAPOR PRESSURE (Pv)	KG/CM2 A	-	-	-	
9		*REQUIRED Cv		41.1	37.4	18.7	
10		*TRAVEL	%				
11		ALLOWABLE/*PREDICTED SPL	dBA				
12		COMP FACTOR (Z)					-
13		LINE	PIPE LINE SIZE IN : 3"-SCH40	53	DIAPHRAGM		
14	& SCHEDULE OUT: 3"-SCH40		54				
15	PIPE LINE INSULATION: IH		55				
16	VALVE BODY/BONNET	*TYPE: EQUAL PERCENT	56	ACTUATOR			
17		*SIZE (inch): 2" RATING: 300	57				
18		MAX PRESS(BAR G)/TEMP(°C):7.8/190	58				
19		*MFR & MODEL	59				
20		*BODY/BONNET MTRL: A-216 Gr.WCB	60				
21		*LINER MATERIAL/ID	61				
22		END IN: FLG, 300#, AASME B16.5	62				
23		CONNECTION OUT: FLG, 300#, AASME B16.5	63				
24		FLG. FACE FINISH: RF	64				
25		END EXT/MATL:	65				
26		*FLOW DIRECTION:	67				
27		*TYPE OF BONNET: BOLTED	68				
28		LUB & ISO VALVE: NO	69				
29		*PACKING MATERIAL: GRAFOIL	70				
30	*PACKING TYPE: MFR STD	71					
31		72	FOUNDATION FIELDBUS				
32	TRIM	*TYPE: SINGLE SEAT	74	POSITIONER			
33		*SIZE	75				
34		*CHARACTERISTIC: %EQ	76				
35		*BALANCED / UNBALANCED	77				
36		*RATED Cv FL Xt	79				
37		*PLUG/BALL/DISK MTRL: 316SS+STELLITE	80				
38		*SEAT MTRL: 316SS+STELLITE	81				
39		*CAGE/GUIDE MTRL: 316SS+STELLITE	83				
40	*STEM MTRL: 316SS+STELLITE	84	SWITCHES				
			AIR SET				

NOTE :
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