



South Zagros Oil & Gas
Production Company
(SZOGPC)

Project

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	63-PSV-204 A to E		
	2	Service	AM2 Header		
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle	Semi Nozzle		
	5	Safety or Relief	Safety		
	6	Conv., Bellows, Pilot Op.	Conv.		
	7	Bonnet Type	Closed		
CONNECTION	8	Inlet Size	2"	3"	
	9	Flange Rating	2500	300	
	10	Type of Facing	RTJ*RF		
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	ASME SA352 LCC		
	12	Seat and Disk	316 STAINLESS STEEL		
	13	Resilient Seat Seal			
	14	Guide and Ring	316 STAINLESS STEEL		
	15	Spring	INCONEL X750		
	16	Bellows	***		
	17	NACE MR 01-75	Yes		
OPTIONS	18	Cap : Screwed or Bolted	Screwed		
	19	Lever : Plain or Packed	Plain		
	20	Test Gauge	YES		
	21				
	22				
	23				
BASIS	24	Code	API RP 520		
	25	Fire	n.a		
	26	Blocked Outlet	yes		
	27	Thermal Expansion	n.a		
FLUID DATA	28	Fluid and State	HC / Gas		
	29	Required Capacity (kg/h)	45947		
	30	Mol.Wt.	Oper.sp.gr	19.1	
	31	Oper.Pressure	Set Pressure	190	234
	32	Oper.Temperature	Rel.Temperature	60	74.2
	33		Constant		
	34	Back Pressure	Variable		
	35		Total	<10%	
	36	% Allowable Overpressure	16%		
	37	Overpressure Factor	1.16		
	38	Compressibility Factor	1		
	39	Latent Heat of Vaporization	n.a		
	40	Ratio of Specific Heats	1.26		
	41	Operating Viscosity, cp			
	42	Barometric Pressure	0.8		
	43				
	44				
		45	Calc. Area sq. in.	0.5	
		46	Selected Area	V.T.A	
	47	Orifice Designation	V.T.A		
	48	Manufacturer	V.T.A		
	49	Model No.	V.T.A		

NOTES :

V.T.A: Vendor to Advise



South Zagros Oil & Gas
Production Company
(SZOGPC)

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Project

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	69-PSV-065	
	2	Service	ACF Outlet of P-69.01	
	3	Line No. / Vessel No.		
	4	Full Nozzle / Semi Nozzle	Semi Nozzle	
	5	Safety or Relief	Safety	
	6	Conv. : Bellows, Pilot Op.	Bellows	
	7	Bonnet Type	closed	
CONNECTION	8	Inlet Size	2"	3"
	9	Flange Rating	1500	600
	10	Type of Facing	RTJ*RF	
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	ASME SA352 LCC	
	12	Seat and Disk	316 STAINLESS STEEL	
	13	Resilient Seat Seal		
	14	Guide and Ring	316 STAINLESS STEEL	
	15	Spring	CHROME STEEL	
	16	Bellows	MONEL	
	17	NACE MR 01-75	Yes	
OPTIONS	18	Cap : Screwed or Bolted	Screwed	
	19	Lever : Plain or Packed	Plain	
	20	Test Gauge	Yes	
	21			
	22			
	23			
BASIS	24	Code	API RP 520	
	25	Fire	n.a	
	26	Blocked Outlet	Yes	
	27	Thermal Expansion	n.a	
FLUID DATA	28	Fluid and State	Codensate / Liquid	
	29	Required Capacity (m3/h)	16	
	30	Mol Wt	Oper sp.gr	0.65
	31	Oper Pressure	Set Pressure	184.4
	32	Oper Temperature	Rel Temperature	40
	33	Back Pressure	Constant	
	34		Variable	70
	35		Total	
	36	% Allowable Overpressure	10%	
	37	Overpressure Factor	1.1	
	38	Compressibility Factor		
	39	Latent Heat of Vaporization	n.a	
	40	Ratio of Specific Heats		
	41	Operating Viscosity, cp	1	
	42	Barometric Pressure	0.8	
	43			
	44			
		45	Calc. Area sq. in.	0.105
46		Selected Area	V.T.A	
47		Orifice Designation	V.T.A	
48		Manufacturer	V.T.A	
49		Model No.	V.T.A	

NOTES :

V.T.A: Vendor to Advise



South Zagros Oil & Gas
Production Company
(SZOGPC)

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Project

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.		10-PSV-161 A/B	
	2	Service		DTP Air Receiver	
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle		Semi Nozzle	
	5	Safety or Relief		Safety	
	6	Conv., Bellows, Pilot Op.		Conv.	
	7	Bonnet Type		Closed	
CONNECTION	8	Inlet Size	Outlet Size	1"	2"
	9	Flange Rating		150	150
	10	Type of Facing		RF*RF	
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet		SA216 Gr WCB / Carbon steel	
	12	Seat and Disk		AISI 316L or A351Gr CF3M / AISI 316L	
	13	Resilient Seat Seal			
	14	Guide and Ring		AISI 316L / A351 Gr CF3M	
	15	Spring		Carbon steel	
	16	Bellows		***	
	17	NACE MR 01-75		No	
OPTIONS	18	Cap : Screwed or Bolted		Screwed	
	19	Lever : Plain or Packed		Plain	
	20	Test Gauge		Yes	
	21				
	22				
	23				
BASIS	24	Code		API RP 520	
	25	Fire		n.a	
	26	Blocked Outlet		Yes	
	27	Thermal Expansion		n.a	
FLUID DATA	28	Fluid and State		Air / Gas	
	29	Required Capacity (Kg/h)		831	
	30	Mol Wt.	Oper sp gr	29	1
	31	Oper Pressure	Set Pressure	8	10
	32	Oper Temperature	Rel Temperature	30	60
	33	Back Pressure	Constant	ATM	
	34		Variable		
	35		Total		
	36	% Allowable Overpressure		10%	
	37	Overpressure Factor		1.1	
	38	Compressibility Factor		0.99	
	39	Latent Heat of Vaporization		n.a	
	40	Ratio of Specific Heats		1.4	
	41	Operating Viscosity, cp			
	42	Barometric Pressure		0.8	
	43				
	44				
	45	Calc. Area sq. in.		0.138	
	46	Selected Area		V.T.A	
	47	Orifice Designation		V.T.A	
	48	Manufacturer		V.T.A	
	49	Model No.		V.T.A	

NOTES :

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Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	03-PSV-361A/B		
	2	Service	DTP Stabilizer Column T-301		
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle	Semi Nozzle		
	5	Safety or Relief	Safety		
	6	Conv., Bellows, Pilot Op.	Bellows		
	7	Bonnet Type	Closed		
CONNECTION	8	Inlet Size	1 1/2"	3"	
	9	Flange Rating	150	150	
	10	Type of Facing	RF*RF		
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	SA216 Gr WCB / Carbon steel		
	12	Seat and Disk	AISI 316L or A351 Gr CF3M / AISI 316L		
	13	Resilient Seat Seal			
	14	Guide and Ring	AISI 316L / A351 Gr CF3M		
	15	Spring	Carbon steel		
	16	Bellows	AISI 316L		
	17	NACE MR 01-75	Yes		
OPTIONS	18	Cap : Screwed or Bolted	Screwed		
	19	Lever : Plain or Packed	Plain		
	20	Test Gauge	Yes		
	21				
	22				
	23				
BASIS	24	Code	API RP 520		
	25	Fire	n.a		
	26	Blocked Outlet	yes		
	27	Thermal Expansion	n.a		
FLUID DATA	28	Fluid and State	HC / Gas		
	29	Required Capacity (kg/h)	1455		
	30	Mol Wt.	Oper sp.gr	27.5	
	31	Oper Pressure	Set Pressure	6	8.6
	32	Oper Temperature	Rel Temperature	35	120
	33		Constant		
	34	Back Pressure	Variable	4.4	
	35		Total		
	36	% Allowable Overpressure	10%		
	37	Overpressure Factor	1.1		
	38	Compressibility Factor	0.9		
	39	Latent Heat of Vaporization	n.a		
	40	Ratio of Specific Heats	1.2		
	41	Operating Viscosity, cp			
	42	Barometric Pressure	0.8		
	43				
	44				
		45	Calc. Area sq. in.	0.34	
46		Selected Area	V.T.A		
47		Orifice Designation	V.T.A		
48		Manufacturer	V.T.A		
49		Model No.	V.T.A		

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Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	03-PSV-561A/B		
	2	Service	DTP Hot Oil Surge Drum V-302		
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle	Semi Nozzle		
	5	Safety or Relief	Safety		
	6	Conv. Bellows, Pilot Op.	Conv.		
	7	Bonnet Type	Closed		
CONNECTION	8	Inlet Size	Outlet Size	1" 2"	
	9	Flange Rating	300	150	
	10	Type of Facing	RF*RF		
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	SA216 Gr WCB / Carbon steel		
	12	Seat and Disk	AISI 316L or A351 Gr CF3M / AISI 316L		
	13	Resilient Seat Seal			
	14	Guide and Ring	AISI 316L / A351Gr CF3M		
	15	Spring	Alloy steel		
	16	Bellows	**		
	17	NACE MR 01-75	No		
OPTIONS	18	Cap : Screwed or Bolted	Screwed		
	19	Lever : Plain or Packed	Plain		
	20	Test Gauge	yes		
	21				
	22				
	23				
BASIS	24	Code	API RP 520		
	25	Fire	n a		
	26	Blocked Outlet	yes		
	27	Thermal Expansion	n a		
FLUID DATA	28	Fluid and State	HC / Gas		
	29	Required Capacity (kg/h)	216		
	30	Mol.Wt.	Oper.sp.gr	19.69	
	31	Oper Pressure	Set Pressure		5
	32	Oper Temperature	Rel Temperature	190	280
	33	Back Pressure	Constant	ATM	
	34		Variable		
	35		Total		
	36	% Allowable Overpressure	10%		
	37	Overpressure Factor	1.1		
	38	Compressibility Factor	0.9		
	39	Latent Heat of Vaporization	n a		
	40	Ratio of Specific Heats	1.2		
	41	Operating Viscosity, cp			
	42	Barometric Pressure	0.8		
	43				
	44				
		45	Calc. Area sq. in.	0.11	
46		Selected Area	V.T.A		
47		Orifice Designation	V.T.A		
48		Manufacturer	V.T.A		
49		Model No.	V.T.A		

NOTES :

V.T.A: Vendor to Advise



South Zagros Oil & Gas
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Project

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	69-PSV-067		
	2	Service	ACF S.C. Outlet to 3-Phase Sep.		
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle	Semi Nozzle		
	5	Safety or Relief	Safety		
	6	Conv., Bellows, Pilot Op.	Conv.		
	7	Bonnet Type	Closed		
CONNECTION	8	Inlet Size	Outlet Size	1 1/2"	2"
	9	Flange Rating	1500	300	
	10	Type of Facing	RTJ*RF		
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	ASME SA352 LCC		
	12	Seat and Disk	316 STAINLESS STEEL		
	13	Resilient Seat Seal			
	14	Guide and Ring	316 STAINLESS STEEL		
	15	Spring	CHROME STEEL (ALUMINUM METALLIZED)		
	16	Bellows	MONEL		
	17	NACE MR 01-75	Yes		
OPTIONS	18	Cap : Screwed or Bolted	Screwed		
	19	Lever : Plain or Packed	Plain		
	20	Test Gauge	Yes		
	21				
	22				
	23				
BASIS	24	Code	API RP 520		
	25	Fire	n.a		
	26	Blocked Outlet	yes		
	27	Thermal Expansion	n.a		
FLUID DATA	28	Fluid and State	/ Liquid		
	29	Required Capacity (m3/h)	0.498		
	30	Mol Wt.	Oper. sp. gr.	0.796	
	31	Oper. Pressure	Set Pressure	160	232
	32	Oper. Temperature	Rel. Temperature	50	50
	33	Back Pressure	Constant		
	34		Variable		
	35		Total	<10%	
	36	% Allowable Overpressure	10%		
	37	Overpressure Factor	1.1		
	38	Compressibility Factor			
	39	Latent Heat of Vaporization	n.a		
	40	Ratio of Specific Heats			
	41	Operating Viscosity, cp	0.9		
	42	Barometric Pressure	0.8		
	43				
	44				
	45	Calc. Area sq. in.	0.003		
	46	Selected Area	0.196		
	47	Orifice Designation	E		
	48	Manufacturer	V.T.A		
	49	Model No.	V.T.A		

NOTES :

V.T.A: Vendor to Advise



South Zagros Oil & Gas
Production Company
(SZOGPC)

#-06

Project

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	69-PSV-066 A/B		
	2	Service	ACF 3Phase Separator		
	3	Line No. / Vessel No			
	4	Full Nozzle / Semi Nozzle	Semi Nozzle		
	5	Safety or Relief	Safety		
	6	Conv., Bellows, Pilot Op.	Bellows		
	7	Bonnet Type	Closed		
CONNECTION	8	Inlet Size	Outlet Size	2"	3"
	9	Flange Rating	600 150		
	10	Type of Facing	RF*RF		
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	ASME SA352 LCC		
	12	Seat and Disk	316 STAINLESS STEEL		
	13	Resilient Seat Seal			
	14	Guide and Ring	316 STAINLESS STEEL		
	15	Spring	CHROME STEEL (ALUMINUM METALLIZED)		
	16	Bellows	MONEL		
	17	NACE MR 01-75	Yes		
OPTIONS	18	Cap : Screwed or Bolted	Screwed		
	19	Lever : Plain or Packed	Plain		
	20	Test Gauge	Yes		
	21				
	22				
	23				
BASIS	24	Code	API RP 520		
	25	Fire	Yes		
	26	Blocked Outlet	n a		
	27	Thermal Expansion	n a		
FLUID DATA	28	Fluid and State	HC / Gas		
	29	Required Capacity (kg/h)	19443		
	30	Mol Wt	Oper. sp. gr	17.67	
	31	Oper. Pressure	Set Pressure	55	84.6
	32	Oper. Temperature	Rel. Temperature	50	167.2
	33		Constant		
	34	Back Pressure	Variable		
	35		Total		
	36	% Allowable Overpressure	21%		
	37	Overpressure Factor	1.21		
	38	Compressibility Factor	0.92		
	39	Latent Heat of Vaporization (kj/kg)	135		
	40	Ratio of Specific Heats	1.3		
	41	Operating Viscosity, cp	0.014		
	42	Barometric Pressure	0.8		
	43				
	44				
		45	Calc. Area sq. in.	0.5	
46		Selected Area	V.T.A		
47		Orifice Designation	V.T.A		
48		Manufacturer	V.T.A		
49		Model No.	V.T.A		

NOTES :

V.T.A: Vendor to Advise



South Zagros Oil & Gas
Production Company
(SZOGPC)

Project

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.		63-PSV-504 A/E	
	2	Service		AM5 Header	
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle		Semi Nozzle	
	5	Safety or Relief		Safety	
	6	Conv. , Bellows, Pilot Op.		Conv.	
	7	Bonnet Type		Closed	
CONNECTION	8	Inlet Size	Outlet Size	2"	3"
	9	Flange Rating		2500	300
	10	Type of Facing		RTJ*RF	
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet		ASME SA352 LCC	
	12	Seat and Disk		316 STAINLESS STEEL	
	13	Resilient Seat Seal			
	14	Guide and Ring		316 STAINLESS STEEL	
	15	Spring		INCONEL X750	
	16	Bellows		***	
	17	NACE MR 01-75		Yes	
OPTIONS	18	Cap : Screwed or Bolted		Screwed	
	19	Lever : Plain or Packed		Plain	
	20	Test Gauge		Yes	
	21				
	22				
	23				
BASIS	24	Code		API RP 520	
	25	Fire		n.a	
	26	Blocked Outlet		yes	
	27	Thermal Expansion		n.a	
FLUID DATA	28	Fluid and State		HC / Gas	
	29	Required Capacity (kg/h)		45988	
	30	Mol Wt.	Oper sp.gr	19.1	
	31	Oper Pressure	Set Pressure	190	234
	32	Oper Temperature	Rel Temperature	58	59.3
	33	Back Pressure	Constant		
	34		Variable		
	35		Total	<10%	
	36	% Allowable Overpressure		16%	
	37	Overpressure Factor		1.16	
	38	Compressibility Factor		1	
	39	Latent Heat of Vaporization		n.a	
	40	Ratio of Specific Heats		1.26	
	41	Operating Viscosity, cp			
	42	Barometric Pressure		0.8	
	43				
	44				
		45	Calc. Area sq. in.		0.5
46		Selected Area		V.T.A	
47		Orifice Designation		V.T.A	
48		Manufacturer		V.T.A	
49		Model No.		V.T.A	

NOTES :

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Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	63-PSV-504 B/C/D		
	2	Service	AM5 Header		
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle	Semi Nozzle		
	5	Safety or Relief	Safety		
	6	Conv., Bellows, Pilot Op.	Conv.		
	7	Bonnet Type	Closed		
CONNECTION	8	Inlet Size	2"	3"	
	9	Flange Rating	2500	300	
	10	Type of Facing	RTJ*RF		
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	ASME SA352 LCC		
	12	Seat and Disk	316 STAINLESS STEEL		
	13	Resilient Seat Seal			
	14	Guide and Ring	316 STAINLESS STEEL		
	15	Spring	INCONEL X750		
	16	Bellows	***		
	17	NACE MR 01-75	Yes		
OPTIONS	18	Cap : Screwed or Bolted	Screwed		
	19	Lever : Plain or Packed	Plain		
	20	Test Gauge	Yes		
	21				
	22				
	23				
BASIS	24	Code	API RP-520		
	25	Fire	n.a		
	26	Blocked Outlet	yes		
	27	Thermal Expansion	n.a		
FLUID DATA	28	Fluid and State	HC/Gas		
	29	Required Capacity (kg/h)	45988		
	30	Mol Wt.	Oper. sp. gr.	19.1	
	31	Oper. Pressure	Set Pressure	190	246/4
	32	Oper. Temperature	Rel. Temperature	58	59.3
	33		Constant		
	34	Back Pressure	Variable		
	35		Total		<10%
	36	% Allowable Overpressure			16%
	37	Overpressure Factor			1.16
	38	Compressibility Factor			1
	39	Latent Heat of Vaporization			n.a
	40	Ratio of Specific Heats			1.26
	41	Operating Viscosity, cp			
	42	Barometric Pressure			0.8
	43				
	44				
		45	Calc. Area sq. in.	0.5	
		46	Selected Area	V.T.A	
		47	Orifice Designation	V.T.A	
48		Manufacturer	V.T.A		
49		Model No.	V.T.A		

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Item No.

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Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	69-PSV-69 A/B		
	2	Service	ACF Emergency HC Drain		
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle	Semi Nozzle		
	5	Safety or Relief	Safety		
	6	Conv., Bellows, Pilot Op.	Bellows		
	7	Bonnet Type	Closed		
CONNECTION	8	Inlet Size	Outlet Size	1 1/2"	2"
	9	Flange Rating	300 150		
	10	Type of Facing	RF*RF		
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	ASME SA352 LCC		
	12	Seat and Disk	316 STAINLESS STEEL		
	13	Resilient Seat Seal			
	14	Guide and Ring	316 STAINLESS STEEL		
	15	Spring	CHROME STEEL (ALUMINUM METALLIZED)		
	16	Bellows	MONEL		
	17	NACE MR 01-75	Yes		
OPTIONS	18	Cap : Screwed or Bolted	Screwed		
	19	Lever : Plain or Packed	Plain		
	20	Test Gauge	Yes		
	21				
	22				
	23				
BASIS	24	Code	API RP 520		
	25	Fire	yes		
	26	Blocked Outlet	n a		
	27	Thermal Expansion	n a		
FLUID DATA	28	Fluid and State	HC / Gas		
	29	Required Capacity (kg/h)	4152.4		
	30	Mol. Wt.	Oper. sp. gr.	17.8	
	31	Oper. Pressure	Set Pressure	30	34
	32	Oper. Temperature	Rel. Temperature	50	129.4
	33		Constant		
	34	Back Pressure	Variable		
	35		Total	0	
	36	% Allowable Overpressure	21%		
	37	Overpressure Factor	1.21		
	38	Compressibility Factor	0.96		
	39	Latent Heat of Vaporization	216.5		
	40	Ratio of Specific Heats	1.3		
	41	Operating Viscosity, cp	0.013		
	42	Barometric Pressure	0.8		
	43				
	44				
		45	Calc. Area sq. in.	0.29	
46		Selected Area	0.307		
47		Orifice Designation	F		
48		Manufacturer	V.T.A		
49		Model No.	V.T.A		

NOTES :

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South Zagros Oil & Gas
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Project:

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	67-PSV-861 A/B	
	2	Service	ACF Air Receiver	
	3	Line No. / Vessel No		
	4	Full Nozzle / Semi Nozzle	Semi Nozzle	
	5	Safety or Relief	Safety	
	6	Conv., Bellows, Pilot Op.	Conv.	
	7	Bonnet Type	Closed	
CONNECTION	8	Inlet Size	Outlet Size	1" 2"
	9	Flange Rating	150	150
	10	Type of Facing	RF*RF	
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	SA216 WCC CARBON STEEL	
	12	Seat and Disk	316 STAINLESS STEEL	
	13	Resilient Seat Seal		
	14	Guide and Ring	316 STAINLESS STEEL	
	15	Spring	CHROME STEEL (PHOSPHATED)	
	16	Bellows	***	
	17	NACE MR 01-75	No	
OPTIONS	18	Cap : Screwed or Bolted	Screwed	
	19	Lever : Plain or Packed	Plain	
	20	Test Gauge	Yes	
	21			
	22			
	23			
BASIS	24	Code	API RP 520	
	25	Fire	n.a	
	26	Blocked Outlet	Yes	
	27	Thermal Expansion	n.a	
FLUID DATA	28	Fluid and State	Air / Gas	
	29	Required Capacity (Kg/h)	364.5	
	30	Mol. Wt.	Oper sp. gr.	29 1
	31	Oper. Pressure	Set Pressure	8 10
	32	Oper. Temperature	Rel. Temperature	30 62
	33		Constant	ATM
	34	Back Pressure	Variable	
	35		Total	
	36	% Allowable Overpressure	10%	
	37	Overpressure Factor	1.1	
	38	Compressibility Factor	0.99	
	39	Latent Heat of Vaporization	n.a	
	40	Ratio of Specific Heats	1.4	
	41	Operating Viscosity, cp		
	42	Barometric Pressure	0.8	
	43			
	44			
	45	Calc. Area sq. in.	0.06	
	46	Selected Area	0.11	
	47	Orifice Designation	D	
	48	Manufacturer	V.T.A	
	49	Model No.	V.T.A	

NOTES :

V.T.A: Vendor to Advise



South Zagros Oil & Gas
Production Company
(SZOGPC)

Project

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	67-PSV-660 A/B		
	2	Service	ACF Fuel Gas K.O. Drum		
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle	Semi Nozzle		
	5	Safety or Relief	Safety		
	6	Conv. Bellows, Pilot Op.	Bellows		
	7	Bonnet Type			
CONNECTION	8	Inlet Size	Outlet Size	1 1/2"	3"
	9	Flange Rating	150	150	
	10	Type of Facing	RF*RF		
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	ASME SA352 LCC		
	12	Seat and Disk	316 STAINLESS STEEL		
	13	Resilient Seat Seal			
	14	Guide and Ring	316 STAINLESS STEEL		
	15	Spring	CHROME STEEL		
	16	Bellows	316 STAINLESS STEEL		
	17	NACE MR 01-75	Yes		
OPTIONS	18	Cap : Screwed or Bolted	Screwed		
	19	Lever : Plain or Packed	Plain		
	20	Test Gauge	Yes		
	21				
	22				
	23				
BASIS	24	Code	API RP 520		
	25	Fire	n.a		
	26	Blocked Outlet	yes		
	27	Thermal Expansion	n.a		
FLUID DATA	28	Fluid and State	HC / Gas		
	29	Required Capacity (kg/h)	1847.9		
	30	Mol Wt.	Oper. sp. gr.	17.66	0.59
	31	Oper. Pressure	Set Pressure	5.54	6.5
	32	Oper. Temperature	Rel. Temperature	25	25
	33		Constant		
	34	Back Pressure	Variable	0.14	
	35		Total		
	36	% Allowable Overpressure	10%		
	37	Overpressure Factor	1.10		
	38	Compressibility Factor	0.98		
	39	Latent Heat of Vaporization	n.a		
	40	Ratio of Specific Heats	1.3		
	41	Operating Viscosity, cp	0.011		
	42	Barometric Pressure	0.8		
	43				
	44				
		45	Calc. Area sq. in.	0.55	
46		Selected Area	0.785		
47		Orifice Designation	H		
48		Manufacturer	V.T.A		
49		Model No.	V.T.A		

NOTES :

V.T.A: Vendor to Advise



South Zagros Oil & Gas
Production Company
(SZOGPC)

Project

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	67-PSV-167&168	
	2	Service	ACF Diesel Oil Loading Pump	
	3	Line No. / Vessel No.		
	4	Full Nozzle / Semi Nozzle	Semi Nozzle	
	5	Safety or Relief	Safety	
	6	Conv., Bellows, Pilot Op.	Conventional	
	7	Bonnet Type	closed	
CONNECTION	8	Inlet Size	Outlet Size	1 1/2" 2"
	9	Flange Rating	NPT	NPT
	10	Type of Facing	FEMALE*FEMALE	
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	316 STAINLESS STEEL/SA216WCC CARBON STEEL	
	12	Seat and Disk	316 STAINLESS STEEL	
	13	Resilient Seat Seal		
	14	Guide and Ring	316 STAINLESS STEEL	
	15	Spring	CHROME STEEL (PHOSPHATED)	
	16	Bellows	***	
	17	NACE MR 01-75	No	
OPTIONS	18	Cap : Screwed or Bolted	Screwed	
	19	Lever : Plain or Packed	Plain	
	20	Test Gauge	Yes	
	21			
	22			
	23			
BASIS	24	Code	API RP 520	
	25	Fire	n.a	
	26	Blocked Outlet	Yes	
	27	Thermal Expansion	n.a	
FLUID DATA	28	Fluid and State	Diesel Oil / Liquid	
	29	Required Capacity (m3/h)	20	
	30	Mol Wt.	Oper. sp. gr.	0.87
	31	Oper. Pressure	Set Pressure	2.77 3.45
	32	Oper. Temperature	Rel. Temperature	20 20
	33		Constant	1.2
	34	Back Pressure	Variable	
	35		Total	
	36	% Allowable Overpressure	10%	
	37	Overpressure Factor	1.1	
	38	Compressibility Factor		
	39	Latent Heat of Vaporization	n.a	
	40	Ratio of Specific Heats		
	41	Operating Viscosity, cp	22	
	42	Barometric Pressure	0.8	
	43			
	44			
		45	Calc. Area sq. in.	0.4
46		Selected Area	V.T.A	
47		Orifice Designation	V.T.A	
48		Manufacturer	V.T.A	
49		Model No.	V.T.A	

NOTES :

V.T.A: Vendor to Advise



South Zagros Oil & Gas
Production Company
(SZOGPC)

Project

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.		PSV-1901	
	2	Service		DTP Methanol Injection (1900 Station)	
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle		Semi Nozzle	
	5	Safety or Relief		Safety or Relief	
	6	Conv., Bellows, Pilot Op.		Conv.	
	7	Bonnet Type		Closed	
CONNECTION	8	Inlet Size	Outlet Size	1/2"	1/2"
	9	Flange Rating		1500	300
	10	Type of Facing		RF*RF	
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet		1.4571 / 1.4408	
	12	Seat and Disk		1.4571	
	13	Resilient Seat Seal			
	14	Guide and Ring		1.4571	
	15	Spring		1.4310	
	16	Bellows		---	
	17	NACE MR 01-75		No	
OPTIONS	18	Cap: Screwed or Bolted		Screwed	
	19	Lever: Plain or Packed		Plain	
	20	Test Gauge		Yes	
	21				
	22				
	23				
BASIS	24	Code		API RP 520	
	25	Fire		n.a	
	26	Blocked Outlet		Yes	
	27	Thermal Expansion		n.a	
FLUID DATA	28	Fluid and State		Methanol / Liquid	
	29	Required Capacity (m3/h)			
	30	Mol Wt.	Oper. sp. gr.		0.78
	31	Oper. Pressure	Set Pressure *	100-120	136.5
	32	Oper. Temperature	Rel. Temperature	25	38
	33	Back Pressure	Constant	atm	
	34		Variable		
	35		Total	atm	
	36	% Allowable Overpressure		10%	
	37	Overpressure Factor		1.1	
	38	Compressibility Factor			
	39	Latent Heat of Vaporization		n.a	
	40	Ratio of Specific Heats			
	41	Operating Viscosity, cp		0.5	
	42	Barometric Pressure		0.8	
	43				
	44				
	45	Calc. Area sq. in.		V.T.A	
	46	Selected Diameter (mm)		8	
	47	Orifice Designation		V.T.A	
	48	Manufacturer		V.T.A	
	49	Model No.		V.T.A	

NOTES :

V.T.A: Vendor to Advise

* HP: 413.8 LP: 314.5 barg



South Zagros Oil & Gas
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(SZOGPC)

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Project:

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.		03-PSV-661 A/B	
	2	Service		DTP Hot Oil Outlet	
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle		Semi Nozzle	
	5	Safety or Relief		Safety or Relief	
	6	Conv. Bellows, Pilot Op.		Conv.	
	7	Bonnet Type		Closed	
CONNECTION	8	Inlet Size	Outlet Size	1 1/2"	2"
	9	Flange Rating		300	150
	10	Type of Facing		RF*RF	
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet		SA216 Gr WCB / Carbon steel	
	12	Seat and Disk		AISI 316L or A351 Gr CF3M / AISI 316L	
	13	Resilient Seat Seal			
	14	Guide and Ring		AISI 316L / A351 Gr CF3M	
	15	Spring		Tungsten steel	
	16	Bellows		***	
	17	NACE MR 01-75		No	
OPTIONS	18	Cap : Screwed or Bolted		Screwed	
	19	Lever : Plain or Packed		Plain	
	20	Test Gauge		YES	
	21				
	22				
	23				
BASIS	24	Code		API RP 520	
	25	Fire		n.a	
	26	Blocked Outlet		n.a	
	27	Thermal Expansion		Yes	
FLUID DATA	28	Fluid and State		Hot Oil / Liquid	
	29	Required Capacity (m3/h)		9.4	
	30	Mol. Wt.	Oper. sp. gr.		0.86
	31	Oper. Pressure	Set Pressure		12
	32	Oper. Temperature	Rel. Temperature	220	343
	33		Constant	2.1	
	34	Back Pressure	Variable		
	35		Total		
	36	% Allowable Overpressure		10%	
	37	Overpressure Factor		1.1	
	38	Compressibility Factor			
	39	Latent Heat of Vaporization		n.a	
	40	Ratio of Specific Heats			
	41	Operating Viscosity, cp			
	42	Barometric Pressure		0.8	
	43				
	44				
		45	Calc. Area sq. in.		0.2
46		Selected Area		V.T.A	
47		Orifice Designation		V.T.A	
48		Manufacturer		V.T.A	
49		Model No.		V.T.A	

NOTES :

V.T.A: Vendor to Advise



South Zagros Oil & Gas
Production Company
(SZOGPC)

Project

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.		63-PSV-104 A to H	
	2	Service		AM1 Header	
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle		Semi Nozzle	
	5	Safety or Relief		Safety	
	6	Conv., Bellows, Pilot Op.		Conv.	
	7	Bonnet Type		Closed	
CONNECTION	8	Inlet Size	Outlet Size	1 1/2"	2 1/2"
	9	Flange Rating		2500	300
	10	Type of Facing		RTJ*RF	
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet		ASME SA352 LCC	
	12	Seat and Disk		316 STAINLESS STEEL	
	13	Resilient Seat Seal			
	14	Guide and Ring		316 STAINLESS STEEL	
	15	Spring		INCONEL X750	
	16	Bellows		***	
	17	NACE MR 01-75		Yes	
OPTIONS	18	Cap : Screwed or Bolted		Screwed	
	19	Lever : Plain or Packed		Plain	
	20	Test Gauge		YES	
	21				
	22				
	23				
BASIS	24	Code		API RP 520	
	25	Fire		n.a	
	26	Blocked Outlet		yes	
	27	Thermal Expansion		n.a	
FLUID DATA	28	Fluid and State		HC / Gas	
	29	Required Capacity (kg/h)		34000	
	30	Mol Wt	Oper sp.gr	19.1	
	31	Oper Pressure	Set Pressure	190	262.8
	32	Oper Temperature	Rel Temperature	60	76
	33	Back Pressure	Constant		
	34		Variable		
	35		Total	<10%	
	36	% Allowable Overpressure		16%	
	37	Overpressure Factor		1.16	
	38	Compressibility Factor		1	
	39	Latent Heat of Vaporization		n.a	
	40	Ratio of Specific Heats		1.26	
	41	Operating Viscosity, cp			
	42	Barometric Pressure		0.8	
	43				
	44				
		45	Calc. Area sq. in.		0.3
46		Selected Area		V.T.A	
47		Orifice Designation		V.T.A	
48		Manufacturer		V.T.A	
49		Model No.		V.T.A	

NOTES :

V.T.A: Vendor to Advise



South Zagros Oil & Gas
Production Company
(SZOGPC)

Project

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	01-PSV-066 A/B/C/D		
	2	Service	DTP Aghar Slug Catcher		
	3	Line No. / Vessel No			
	4	Full Nozzle / Semi Nozzle	Semi Nozzle		
	5	Safety or Relief	Safety		
	6	Conv. Bellows, Pilot Op.	Bellows		
	7	Bonnet Type	Closed		
CONNECTION	8	Inlet Size	3"	6"	
	9	Flange Rating	900	150	
	10	Type of Facing	RF*RF		
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	A352 LCB / Carbon steel		
	12	Seat and Disk	AISI 316L or a351Gr CF3M / AISI 316L		
	13	Resilient Seat Seal			
	14	Guide and Ring	AISI 316L / A351 Gr CF3M		
	15	Spring	CARBON STEEL		
	16	Bellows	AISI 316 L		
	17	NACE MR 01-75	Yes		
OPTIONS	18	Cap : Screwed or Bolted	Screwed		
	19	Lever : Plain or Packed	Plain		
	20	Test Gauge	YES		
	21				
	22				
	23				
BASIS	24	Code	API RP 520		
	25	Fire	n.a		
	26	Blocked Outlet	yes		
	27	Thermal Expansion	n.a		
FLUID DATA	28	Fluid and State	HC / Gas		
	29	Required Capacity (kg/h)	117268		
	30	Mol Wt.	Oper.sp.gr	17.95	
	31	Oper Pressure	Set Pressure	100-120	139.6
	32	Oper. Temperature	Rel Temperature	35	51.6
	33	Back Pressure	Constant		
	34		Variable	5.2	
	35		Total		
	36	% Allowable Overpressure	10%		
	37	Overpressure Factor	1.1		
	38	Compressibility Factor	0.89		
	39	Latent Heat of Vaporization	n.a		
	40	Ratio of Specific Heats	1.3		
	41	Operating Viscosity, cp			
	42	Barometric Pressure	0.8		
	43				
	44				
	45	Calc. Area sq. in.	1.8		
	46	Selected Area	V.T.A		
	47	Orifice Designation	V.T.A		
	48	Manufacturer	V.T.A		
	49	Model No.	V.T.A		

NOTES :

V.T.A: Vendor to Advise

 South Zagros Oil & Gas Production Company (SZOGPC)		3 9		
Project: Aghar & Dalan Fields		Item No.: 		
		Document No.: 		
Document Title: PRESSURE SAFETY VALVE DATA SHEET				
GENERAL	1	Tag No.		69-PSV-063A/D/E/F/G/H/I/J
	2	Service		ACF Slug Catcher
	3	Line No. / Vessel No.		
	4	Full Nozzle / Semi Nozzle		Semi Nozzle
	5	Safety or Relief		Safety
	6	Conv., Bellows, Pilot Op.		Bellows
	7	Bonnet Type		Closed
CONNECTION	8	Inlet Size	Outlet Size	2" 3"
	9	Flange Rating		1500 300
	10	Type of Facing		RTJ*RF
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet		ASME SA352 LCC
	12	Seat and Disk		316 STAINLESS STEEL
	13	Resilient Seat Seal		
	14	Guide and Ring		316 STAINLESS STEEL
	15	Spring		CHROM STEEL
	16	Bellows		MONEL
	17	NACE MR 01-75		Yes
OPTIONS	18	Cap : Screwed or Bolted		Screwed
	19	Lever : Plain or Packed		Plain
	20	Test Gauge		YES
	21			
	22			
	23			
BASIS	24	Code		API RP 520
	25	Fire		n.a
	26	Blocked Outlet		yes
	27	Thermal Expansion		n.a
FLUID DATA	28	Fluid and State		HC / Gas
	29	Required Capacity (kg/h)		46000
	30	Mol. Wt.	Oper sp gr	18.18
	31	Oper Pressure	Set Pressure	165 232
	32	Oper Temperature	Rel Temperature	55 58.3
	33	Back Pressure	Constant	
	34		Variable	
	35		Total	
	36	% Allowable Overpressure		16%
	37	Overpressure Factor		1.16
	38	Compressibility Factor		0.92
	39	Latent Heat of Vaporization		n.a
	40	Ratio of Specific Heats		1.29
	41	Operating Viscosity, cp		
	42	Barometric Pressure		0.8
	43			
	44			
	45	Calc. Area sq. in.		0.46
	46	Selected Area		V.T.A
	47	Orifice Designation		V.T.A
	48	Manufacturer		V.T.A
	49	Model No.		V.T.A



South Zagros Oil & Gas
Production Company
(SZOGPC)

Project

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	63-PSV-404 A to E		
	2	Service	AM4 Header		
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle	Semi Nozzle		
	5	Safety or Relief	Safety		
	6	Conv., Bellows, Pilot Op.	Conv.		
	7	Bonnet Type	Closed		
CONNECTION	8	Inlet Size	2"	3"	
	9	Flange Rating	2500	300	
	10	Type of Facing	RTJ*RF		
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	ASME SA352 LCC		
	12	Seat and Disk	316 STAINLESS STEEL		
	13	Resilient Seat Seal			
	14	Guide and Ring	316 STAINLESS STEEL		
	15	Spring	INCONEL X750		
	16	Bellows	***		
	17	NACE MR 01-75	Yes		
OPTIONS	18	Cap : Screwed or Bolted	Screwed		
	19	Lever : Plain or Packed	Plain		
	20	Test Gauge	YES		
	21				
	22				
	23				
BASIS	24	Code	API RP 520		
	25	Fire	n.a		
	26	Blocked Outlet	yes		
	27	Thermal Expansion	n.a		
FLUID DATA	28	Fluid and State	HC / Gas		
	29	Required Capacity (kg/h)	45947		
	30	Mol Wt	Oper sp gr	19.1	
	31	Oper Pressure	Set Pressure	190	234
	32	Oper Temperature	Rel Temperature	60	77.6
	33		Constant		
	34	Back Pressure	Variable		
	35		Total	<10%	
	36	% Allowable Overpressure	16%		
	37	Overpressure Factor	1.16		
	38	Compressibility Factor	1		
	39	Latent Heat of Vaporization	n.a		
	40	Ratio of Specific Heats	1.26		
	41	Operating Viscosity, cp			
	42	Barometric Pressure	0.8		
	43				
	44				
		45	Calc. Area sq. in.	0.5	
46		Selected Area	V.T.A		
47		Orifice Designation	V.T.A		
48		Manufacturer	V.T.A		
49		Model No.	V.T.A		

NOTES :

V.T.A: Vendor to Advise



South Zagros Oil & Gas
Production Company
(SZOGPC)

Project:

Aghar & Dalan Fields

Item No.

Document No:

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

3

GENERAL	1	Tag No.		69-PSV-063B/C	
	2	Service		ACF Slug Catcher	
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle		Semi Nozzle	
	5	Safety or Relief		Safety	
	6	Conv., Bellows, Pilot Op.		Bellows	
	7	Bonnet Type		Closed	
CONNECTION	8	Inlet Size	Outlet Size	2"	3"
	9	Flange Rating		1500	300
	10	Type of Facing		RTJ*RF	
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet		ASME SA352 LCC	
	12	Seat and Disk		316 STAINLESS STEEL	
	13	Resilient Seat Seal			
	14	Guide and Ring		316 STAINLESS STEEL	
	15	Spring		CHROME STEEL (ALUMINUM METALLIZED)	
	16	Bellows		MONEL	
	17	NACE MR 01-75		Yes	
OPTIONS	18	Cap : Screwed or Bolted		Screwed	
	19	Lever : Plain or Packed		Plain	
	20	Test Gauge		YES	
	21				
	22				
	23				
BASIS	24	Code		API RP 520	
	25	Fire		n.a	
	26	Blocked Outlet		yes	
	27	Thermal Expansion		n.a	
FLUID DATA	28	Fluid and State		HC / Gas	
	29	Required Capacity (kg/h)		46000	
	30	Mol. Wt.	Oper. sp. gr	18.18	
	31	Oper. Pressure	Set Pressure	165	221
	32	Oper. Temperature	Rel. Temperature	55	58.3
	33				
	34	Back Pressure	Constant		
	Variable		4		
	35	Total			
	36	% Allowable Overpressure		16%	
	37	Overpressure Factor		1.16	
	38	Compressibility Factor		0.92	
	39	Latent Heat of Vaporization		n.a	
	40	Ratio of Specific Heats		1.29	
	41	Operating Viscosity, cp			
	42	Barometric Pressure		0.8	
	43				
	44				
	45	Calc. Area sq. in.		0.46	
	46	Selected Area		V.T.A	
	47	Orifice Designation		V.T.A	
	48	Manufacturer		V.T.A	
	49	Model No.		V.T.A	

NOTES :

V.T.A: Vendor to Advise



South Zagros Oil & Gas
Production Company
(SZOGPC)

Project

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	53-PSV-X72, X75 X: 1,2,3	
	2	Service	Dalan Manifold Methanol Package	
	3	Line No. / Vessel No.		
	4	Full Nozzle / Semi Nozzle	Semi Nozzle	
	5	Safety or Relief	Safety	
	6	Conv., Bellows, Pilot Op.	Conv.	
	7	Bonnet Type	Closed	
CONNECTION	8	Inlet Size	1"	1"
	9	Flange Rating	2500	150
	10	Type of Facing	RTJ*RF	
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	1.4571 / 1.4408	
	12	Seat and Disk	1.4571	
	13	Resilient Seat Seal		
	14	Guide and Ring	1.4571	
	15	Spring	1.4310	
	16	Bellows	---	
	17	NACE MR 01-75	No	
OPTIONS	18	Cap : Screwed or Bolted	Screwed	
	19	Lever : Plain or Packed	Plain	
	20	Test Gauge	YES	
	21			
	22			
	23			
BASIS	24	Code	API RP 520	
	25	Fire	n.a	
	26	Blocked Outlet	Yes	
	27	Thermal Expansion	n.a	
FLUID DATA	28	Fluid and State	Methanol / Liquid	
	29	Required Capacity (m3/h)		
	30	Mol Wt.	Oper sp.gr	0.78
	31	Oper Pressure	Set Pressure	140
	32	Oper Temperature	Rel Temperature	25
	33		Constant	atm
	34	Back Pressure	Variable	
	35		Total	atm
	36	% Allowable Overpressure	10%	
	37	Overpressure Factor	1.1	
	38	Compressibility Factor		
	39	Latent Heat of Vaporization	n.a	
	40	Ratio of Specific Heats		
	41	Operating Viscosity, cp	0.5	
	42	Barometric Pressure	0.8	
	43			
	44			
	45	Calc. Area sq. in.	V.T.A	
	46	Selected Diameter (mm)	8	
	47	Orifice Designation	V.T.A	
	48	Manufacturer	V.T.A	
	49	Model No.	V.T.A	

NOTES :

V.T.A: Vendor to Advise



South Zagros Oil & Gas
Production Company
(SZOGPC)

Project

Aghar & Dalan Fields

Item No.

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	53-PSV-X82,X85 X: 1,2,3	
	2	Service	Dalan Manifold Cor. Inhi. Package	
	3	Line No. / Vessel No.		
	4	Full Nozzle / Semi Nozzle	Semi Nozzle	
	5	Safety or Relief	Safety	
	6	Conv., Bellows, Pilot Op.	Conv.	
	7	Bonnet Type	Closed	
CONNECTION	8	Inlet Size	1"	1"
	9	Flange Rating	2500	150
	10	Type of Facing	RTJ*RF	
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	1.4571 / 1.4408	
	12	Seat and Disk	1.4571	
	13	Resilient Seat Seal		
	14	Guide and Ring	1.4571	
	15	Spring	1.4310	
	16	Bellows	---	
	17	NACE MR 01-75	No	
OPTIONS	18	Cap : Screwed or Bolted	Screwed	
	19	Lever : Plain or Packed	Plain	
	20	Test Gauge	YES	
	21			
	22			
	23			
BASIS	24	Code	API RP 520	
	25	Fire	n.a	
	26	Blocked Outlet	Yes	
	27	Thermal Expansion	n.a	
FLUID DATA	28	Fluid and State	Corrosion Inhibitor / Liquid	
	29	Required Capacity (m3/h)		
	30	Mol.Wt	Oper.sp.gr	0.85
	31	Oper.Pressure	Set Pressure	140
	32	Oper.Temperature	Rel.Temperature	25
	33	Back Pressure	Constant	atm
	34		Variable	
	35		Total	atm
	36	% Allowable Overpressure	10%	
	37	Overpressure Factor	1.1	
	38	Compressibility Factor		
	39	Latent Heat of Vaporization	n.a	
	40	Ratio of Specific Heats		
	41	Operating Viscosity, cp	3	
	42	Barometric Pressure	0.8	
	43			
	44			
	45	Calc. Area sq. in.	V.T.A	
	46	Selected Diameter(mm)	8	
	47	Orifice Designation	V.T.A	
	48	Manufacturer	V.T.A	
	49	Model No.	V.T.A	

NOTES:

V.T.A: Vendor to Advise



South Zagros Oil & Gas Production
Company
(SZOGPC)

Project

Item No.

Aghar & Dalan Fields

Document No.

Document Title: **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	PSV-2-X05/X06/X107/X110/X111 (X: 1 to 6)		
	2	Service	DTP Glycol Filters		
	3	Line No. / Vessel No.			
	4	Full Nozzle / Semi Nozzle	Semi Nozzle		
	5	Safety or Relief	Safety or Relief		
	6	Conv., Bellows, Pilot Op.	Conv.		
	7	Bonnet Type	Closed		
CONNECTION	8	Inlet Size	Outlet Size	3/4" 1"	
	9	Flange Rating	300	300	
	10	Type of Facing	RF*RF		
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	AISI 1017 or SA216 Gr WCB / CARBON STEEL		
	12	Seat and Disk	AISI 316L or A351 GR CF3M / AISI 316L		
	13	Resilient Seat Seal			
	14	Guide and Ring	AISI 316L / A351 Gr CF3M		
	15	Spring	CARBON STEEL		
	16	Bellows	***		
	17	NACE MR 01-75	No		
OPTIONS	18	Cap: Screwed or Bolted	Screwed		
	19	Lever: Plain or Packed	Plain		
	20	Test Gauge	YES		
	21				
	22				
	23				
BASIS	24	Code	API RP 520		
	25	Fire	n.a		
	26	Blocked Outlet	n.a		
	27	Thermal Expansion	Yes		
FLUID DATA	28	Fluid and State	Glycol / Liquid		
	29	Required Capacity (m3/h)	2		
	30	Mol Wt.	Oper sp gr	1.02	
	31	Oper Pressure	Set Pressure	2.5-4	5
	32	Oper Temperature	Ret Temperature	40-98	105
	33	Back Pressure	Constant	ATM	
	34		Variable		
	35		Total		
	36	% Allowable Overpressure	10%		
	37	Overpressure Factor	1.1		
	38	Compressibility Factor			
	39	Latent Heat of Vaporization	n.a		
	40	Ratio of Specific Heats			
	41	Operating Viscosity, cp	18		
	42	Barometric Pressure	0.8		
	43				
	44				
		45	Calc. Area sq. in.	V.T.A	
46		Selected Diameter (mm)	8		
47		Orifice Designation	V.T.A		
48		Manufacturer	V.T.A		
49		Model No.	V.T.A		

NOTES:

V.T.A: Vendor to Advise

 South Zagros Oil & Gas Production Company (SZOGPC)			
Project Aghar & Dalan Fields		Item No.	
		Document No.	
Document Title: PRESSURE SAFETY VALVE DATA SHEET			
GENERAL	1	Tag No.	PSV-2-X01/X02 (X from 1 to 6)
	2	Service	DTP Return Glycol to Still Column
	3	Line No. / Vessel No.	
	4	Full Nozzle / Semi Nozzle	Semi Nozzle
	5	Safety or Relief	Safety or Relief
	6	Conv. Bellows Pilot Op.	Bellows
	7	Bonnet Type	Closed
CONNECTION	8	Inlet Size	4"
	9	Outlet Size	6"
	10	Flange Rating	300
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Type of Facing	RF*RF
	12	Body and Bonnet	SA 216 GR WCB / CARBON STEEL
	13	Seat and Disk	AISI 316L or A351 GR CF3M / AISI 316L
	14	Resilient Seat Seal	
	15	Guide and Ring	AISI 316L / A351 GR CF3M
	16	Spring	CARBON STEEL
	17	Bellows	AISI 316L
OPTIONS	18	NACE MR 01-75	No
	19	Cap : Screwed or Bolted	Screwed
	20	Lever : Plain or Packed	Plain
	21	Test Gauge	yes
	22		
	23		
BASIS	24	Code	API RP 520
	25	Fire	n a
	26	Blocked Outlet	yes
	27	Thermal Expansion	n a
FLUID DATA	28	Fluid and State	Glycol / Liquid
	29	Required Capacity (kg/h)	51875
	30	Mol Wt.	
	31	Oper sp gr	1.06
	32	Oper Pressure	4
	33	Set Pressure	6
	34	Oper Temperature	40
	35	Rel Temperature	53
	36	Back Pressure	Constant
	37		Variable
	38		Total
	39	% Allowable Overpressure	10%
	40	Overpressure Factor	1.1
	41	Compressibility Factor	
	42	Latent Heat of Vaporization	n a
	43	Ratio of Specific Heats	
	44	Operating Viscosity, cp	18
45	Barometric Pressure	0.8	
	46		
	47		
	48		
	49		
	50		

NOTES :

V.T.A: Vendor to Advise

 South Zargos Oil & Gas Production Company (SZOGPC)			
Project Aghar & Dalan Fields		Item No.	
		Document No.	
Document Title: PRESSURE SAFETY VALVE DATA SHEET			
GENERAL	1	Tag No.	PSV-2-X03/X04 (X from 1 to 6)
	2	Service	DTP Glycol Flash Tank
	3	Line No. / Vessel No.	
	4	Full Nozzle / Semi Nozzle	Semi Nozzle
	5	Safety or Relief	Safety or Relief
	6	Conv., Bellows, Pilot Op.	Conv.
	7	Bonnet Type	Closed
CONNECTION	8	Inlet Size	1 1/2"
	9	Outlet Size	2 1/2"
	10	Flange Rating	300
MATERIALS (For all items, relevant ASTM code shall be specified by vendor)	11	Type of Facing	RF*RF
	12	Body and Bonnet	SA 216 GR WCB / CARBON STEEL
	13	Seat and Disk	AISI 316L or A351 GR CF3M / AISI 316L
	14	Resilient Seat Seal	
	15	Guide and Ring	AISI 316L / A351 Gr CF3M
	16	Spring	CARBON STEEL
	17	Bellows	***
OPTIONS	18	NACE MR 01-75	No
	19	Cap : Screwed or Bolted	Screwed
	20	Lever : Plain or Packed	Plain
	21	Test Gauge	Yes
	22		
BASIS	23		
	24	Code	API RP 520
	25	Fire	n.a.
FLUID DATA	26	Blocked Outlet	Yes
	27	Thermal Expansion	n.a.
	28	Fluid and State	HC / Gas
	29	Required Capacity (kg/h)	1210
	30	Mol Wt.	22
	31	Oper. Pressure	3
	32	Oper. Temperature	95
	33	Rel. Temperature	65
	34	Constant	ATM
	35	Back Pressure	Variable
	36	Total	
	37	% Allowable Overpressure	10%
	38	Overpressure Factor	1.1
	39	Compressibility Factor	0.9
	40	Latent Heat of Vaporization	n.a.
	41	Ratio of Specific Heats	1.2
	42	Operating Viscosity, cp	
43	Barometric Pressure	0.8	
	44		
	45	Calc. Area sq. in.	0.45
	46	Selected Area	V.T.A.
	47	Orifice Designation	V.T.A.
	48	Manufacturer	V.T.A.
	49	Model No.	V.T.A.



South Zagros Oil & Gas Production
Company
(SZOGPC)

Project

Item No.

Aghar & Dalan Fields

Document No.

Document Title **PRESSURE SAFETY VALVE DATA SHEET**

GENERAL	1	Tag No.	02-PSV-X08.X09 (X from 1 to 6)	
	2	Service	DTP Glycol Circulation Pumps	
	3	Line No. / Vessel No.		
	4	Full Nozzle / Semi Nozzle	Semi Nozzle	
	5	Safety or Relief	Safety Relief	
	6	Conv. / Bellows, Pilot Op.	Conv.	
	7	Bonnet Type	Closed	
CONNECTION	8	Inlet Size	Outlet Size	1" 1"
	9	Flange Rating	1500	150
	10	Type of Facing	RTJ*RF	
MATERIALS (for all items, relevant ASTM code shall be specified by vendor)	11	Body and Bonnet	SA 216 Gr WCC / AISI C1010	
	12	Seat and Disk	AISI 316L / PH 5T 5T	
	13	Resilient Seat Seal		
	14	Guide and Ring	AISI 431 / AISI 304	
	15	Spring	50 CV 4	
	16	Bellows	---	
	17	NACE MR 01-75	No	
OPTIONS	18	Cap : Screwed or Bolted	Screwed	
	19	Lever : Plain or Packed	Plain	
	20	Test Gauge	Yes	
	21			
	22			
BASIS	24	Code	API RP 520	
	25	Fire	n.a	
	26	Blocked Outlet	Yes	
	27	Thermal Expansion	n.a	
FLUID DATA	28	Fluid and State	Glycol / Liquid	
	29	Required Capacity (kg/h)	15400	
	30	Mol Wt.	Oper sp gr	1.06
	31	Oper Pressure	Set Pressure	130 141.5
	32	Oper Temperature	Rel Temperature	80 90
	33	Back Pressure	Constant	2.4
	34		Variable	
	35		Total	2.4
	36	% Allowable Overpressure	10%	
	37	Overpressure Factor	1.1	
	38	Compressibility Factor		
	39	Latent Heat of Vaporization	n.a	
	40	Ratio of Specific Heats		
	41	Operating Viscosity, cp	18	
	42	Barometric Pressure	0.8	
	43			
	44			
	45	Calc. Area sq. in.	0.1	
	46	Selected Area	V.T.A	
	47	Orifice Designation	V.T.A	
	48	Manufacturer	V.T.A	
	49	Model No.	V.T.A	

NOTES :

V.T.A: Vendor to Advise