

Taylor Valve Technology, Inc

8300 Southwest 8th Street

Oklahoma City, Oklahoma

Serial Number : 012392-98 telephone: 405.787.0145 facsimile: 405.789.8198

Certificate Number: 39356.5534

OGO1316.2C email: info@taylorvalve.com

Customer : KINGS ENERGY SERVICES

Date : 08-Aug-11

277 28042 HWY11

RED DEER, AB

T4S 2L4

Sales Order # : 012392

Customer P.O. # : 119679

Safety Relief Valve Certification

Taylor Valve Technology, Inc. Safety Relief Valves are designed, manufactured and tested in accordance with the provisions of the ASME Boiler and Pressure Vessel Code, Section VIII. This Valve is certified to relieve within plus or minus 2 psi of the set pressure 70 psig or below, and plus or minus 3% of set point for pressures above 70 psig, as allowed for within the provisions of ASME. The published relieving capacities have been certified by the National Board of Boiler and Pressure Vessel Inspectors.

Valve Specifications

Model Number : Taylor Model 8200 Soft Seat	Orifice :	E
Body Size : 1 Inch	Orifice Diameter :	0.520 Inches
Part Number : 82E4351311	Orifice Area :	0.212 In ²
Body Configuration : 1" MNPT X 1" FNPT	Operating Temperature :	70 °F
	Spring Range :	101-225 PSI
	Set Pressure :	150 PSIG

Materials

Body : WCB Carbon Steel	Spring : 17.7 PH Stainless Steel
Seat Frame : Carbon Steel	Guide : 304 Stainless Steel
Seat Housing : 17.4 PH H900 Stainless Steel	Adjustment Screw : Carbon Steel with EN Plating
Trim : Standard	Options : None
Seat : FKM 90d	

Set Pressure Specifications

	Customer Units	ASME Units	
Set Pressure :	150 psig	Set Pressure :	150 psig
ASME High Set Limit :	155 psig	ASME High Set Limit :	155 psig
ASME Low Set Limit :	146 psig	ASME Low Set Limit :	146 psig

ASME (90%) rated capacity at set pressure for indicated fluid, specific gravity and temperature.

Certifying Fluid : Air	582 SCFM	Spec Gravity : 1.00	Temp : 60 oF
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API 520 (100%) calculated capacity at set pressure for indicated fluid, specific gravity and temperature.

Test Fluid : Air	640 SCFM	Spec Gravity : 1.00	Temp : 60 oF
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Prepared by : CALEY ROONEY

Department : Customer Service

Signed CALEY ROONEY

Approved by : CALEY ROONEY

Department : Quality

Signed CALEY ROONEY

Taylor Valve Technology, Inc

8300 Southwest 8th Street

Oklahoma City, Oklahoma

Serial Number : 012392-260 telephone: 405.787.0145 facsimile: 405.789.8198

Certificate Number: 39356.5534

OGO1316.2C email: info@taylorvalve.com

Customer : KINGS ENERGY SERVICES

Date : 08-Aug-11

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Sales Order# : 012392

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Safety Relief Valve Certification

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Valve Specifications

Model Number : Taylor Model 8200 Soft Seat	Orifice :	E
Body Size : 1 Inch	Orifice Diameter :	0.520 Inches
Part Number : 82E8351311	Orifice Area :	0.212 In ²
Body Configuration : 1" MNPT X 1" FNPT	Operating Temperature :	70 °F
	Spring Range :	1201-1600 PSI
	Set Pressure :	1440 PSIG

Materials

Body : WCB Carbon Steel	Spring : 17.7 PH Stainless Steel
Seat Frame : Carbon Steel	Guide : 304 Stainless Steel
Seat Housing : 17.4 PH H900 Stainless Steel	Adjustment Screw : Carbon Steel with EN Plating
Trim : Standard	Options : None
Seat : FKM 90d	

Set Pressure Specifications

	Customer Units	ASME Units	
Set Pressure :	1440 psig	Set Pressure :	1440 psig
ASME High Set Limit :	1483 psig	ASME High Set Limit :	1483 psig
ASME Low Set Limit :	1397 psig	ASME Low Set Limit :	1397 psig

ASME (90%) rated capacity at set pressure for Indicated fluid, specific gravity and temperature.

Certifying Fluid : Air	5,180 SCFM	Spec Gravity : 1.00	Temp : 60 oF
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API 520 (100%) calculated capacity at set pressure for indicated fluid, specific gravity and temperature.

Test Fluid : Air	5,698 SCFM	Spec Gravity : 1.00	Temp : 60 oF
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Prepared by : CALEY ROONEY

Department : Customer Service

Signed CALEY ROONEY

Approved by : CALEY ROONEY

Department : Quality

Signed CALEY ROONEY

2011081001 to 1015

SHEO 15136

1440 psi



Scada Systems

CALIBRATION REPORT

Calibration Equipment Used

DATE :
COMPANY :
LSD /Job # :
S / N :
TECH :

10-Aug-11
11-4902
2011081001
Wes Kotelko

Fluke 744 Process Calibrator	Serial #
Fluke 700P06 100 psi Pressure Module	7784016
Fluke 700P31 3000 psi Pressure Module	92650647
Fluke 700P31 10000 psi Pressure Module	68002912
Fluke 700P31 10000 psi Pressure Module	98203110

SIGNATURE:

INSTRUMENT INFORMATION

Manufacturer: Swagelok
Calibration Date: Aug 10, 2011
Device Purpose: POP Relief Valve

Model Number: SS-4R3A5-EP

Range: 750 - 1500 psi

CALIBRATION DATA

TRIP POINT RISING	TRIP POINT FALLING	AS FOUND	AS LEFT
1440 psi	N/A	N/A	1440 psi rising

NOTES :

Installed 750 - 1500 psi spring and set.



CALIBRATION REPORT

Calibration Equipment Used

DATE :	4-Mar-11
COMPANY :	RJV Gastfield Services
S/N #:	2011032412
TECH :	Bryan Ziegler

	Serial #
Fluke 744 Process Calibrator	7784016
Fluke 700P29 3000 psi Pressure Module	68002912
Ametek 5000 psi Digital Gauge	9003082
Fluke 700P31 10000 psi Pressure Module	98203110

DATE :
COMPANY :
S/N # :
TECH :

Signature:

[Signature]

INSTRUMENT INFORMATION

Manufacturer: Swagelok	Model Number: SS-4R3A5-EP
Calibration Date: March 24, 2011	Range: 3000-4000 PSI

CALIBRATION DATA

CRACK SET POINT	ACTUAL	FOUND	LEFT
0	0	0	0
N/A	N/A	N/A	N/A
3700 PSI	3700 PSI	N/A	3700 PSI

NOTES:

3700 psi