

Document Title: Mainline/Station Inlet Pressure Transmitter Manifold
Data Sheet

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Worley Project #: 699826



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Rev No.	Rev Date yyyy-mm-dd	Reason for Issue	Contractor Originator	Contractor Reviewer	Contractor Approver
0A	2019-08-13	Re-Issued for Review	B. Yu	J. VanEe	R. Ladner <i>Rob Ladner</i>

		MAINLINE/STATION INLET PRESSURE TRANSMITTER MANIFOLD				SHT 1 OF 2	
						DATASHEET No. KXL1399-CH2M-I-DS-0010	
						REV: 0A	
						JOB NUMBER: M.000837	
						DATE: 13-Aug-19	
PROJECT: Keystone XL Oil Pipeline Canadian Pump Stations INSTRUMENT DATA SHEET						REQUISITION No. 25472-101-MRA-JP02-Z0001	
						P.O. No.	
						BY	
						CHK'D	
						APPR.	
						BY	
						JV	
						RL	

Tag No.	See Attached List	Service Mainline / Station Inlet Pressure
GENERAL	2 Function	Record ☐ Indicate ☒ Control ☐ Blind ☐ Transmit ☒ Other _____
	3 Case	MFR STD ☒ Nom Size _____ Color: MFR STD ☒ Other _____
	4 Mounting	Flush ☐ Surface ☐ Yoke ☐ Other Refer to Attached List
	5 Enclosure Class	Gen Purpose ☐ Weather proof ☐ Explosion-Proof ☒ Class CSA Class I, Zone 2, Gr.IIA
	6 Power Supply	For Use In Intrin. Safe System ☐ Other NEMA 4X
	7 Chart	117 V 60Hz ☐ Other AC _____ DC 24 Volts DC Strip ☐ Roll ☐ Fold ☐ Circular _____ Time marks _____
	8 Chart Drive	Range _____ Number _____ Speed _____ Power _____
	9 Scales	Type _____ Range 1 _____ 2 _____ 3 _____ 4 _____
	XMTR 10 Transmitter Output	4-20mA ☒ 10-50mA ☐ 21-103kPa (3-15psig) ☐ Other HART For receiver See Spec. Sheet _____
CONTROLLER	11 Control Modes	P-Prop (Gain), I=Integral (Auto Reset), D=Derivative (Rate), Sub: s=Slow, f=Fast P ☐ PI ☐ PD ☐ PID ☐ If ☐ Df ☐ Is ☐ Ds ☐ Other _____
	12 Action	On Meas. Increase Output: Increases ☐ Decreases ☐
	13 Auto-Man Switch	None ☐ MFR STD ☐ Other _____
	14 Set Point Adj.	Manual ☐ External ☐ Remote ☐ Other _____
	15 Manual Reg.	None ☐ MFR STD ☐ Other _____
	16 Output	4-20mA ☐ 10-50mA ☐ 21-103kPa (3-15psig) ☐ Other _____
ELEMENT	17 Service	Gage Press. ☒ Vacuum ☐ Absolute ☐ Compound ☐
	18 Element Type	Diaphragm ☒ Helix ☐ Bourdon ☐ Bellows ☐ Other _____
	19 Material	316 SS ☒ Ber. Copper ☐ Other _____
	20 Range	Fixed ☐ Adj. Range -101 kPa to 27.6 Mpa(-14.7 to 4000 Psig) Set at 0 to 12500 kPag
	21 Process Data	Overrange Protection to 41.4 MPa (6000 psi)
	22 Process Conn.	Press: Normal _____ Max. 9930 kPag (1440 psig) Element Range _____ 1/4 in. NPT ☐ 1/2 in. NPT ☒ Other _____ Location: Bottom ☒ Back ☐ Other _____
	23 Alarm Switches	Quantity _____ Form _____ Rating _____
	24 Function	Press. ☐ Deviation ☐ Contacts To _____ on Inc. Press.
OPTIONS	25 Options	Filter-Reg. ☐ Sup Gage ☐ Output Gage ☐ Charts _____ Diaph Seal ☐ Type _____ Diaph _____ Bot Bowl _____ Conn _____ Capillary: _____ Length _____ Mtl. _____ Other c/w Parker Monoflange - P6FDBB6H200R900F8F-SS-T-BC VTA (Note 4)
	26 MFR & Model No.	Rosemount 3051S1TG4A2E11A1AKDM5Q4Q8P1 (Note 5)
	27 P & ID No.	See Attached List

Notes:
 1.) Supply 316SS Tag, nameplate containing tag number, model/serial number, body rating operating limitation/conditions.
 2.) Ambient Temperature -40 °C to 40 °C (-40 °F to 104 °F). Design Temperature: 65 °C (149 °F).
 3.) Transmitter Accuracy: +/- 0.025% of span at reference condition.
 4.) Manifold Valve to be 316SS, Integral Hard Seat, 2" PN 150 RF Flange. Valve Packing shall be Teflon.
 5.) **Pressure transmitter has already been purchased and not part scope of supply**
 6.) For the Tags listed, this datasheet supersedes Original WP datasheet 25472-101-JPD-JP02-W0001
 7.) Vendor to provide SS manifold Tag and wire to each manifold labeled: "122-LKSDE-B0-PT-0101 Manifold", etc as per tag list
 8.) **VTA - Vendor to Advise**

[illegible]