

## DATA SHEET — OVERHEAD TANKS U.S. CUSTOMARY

API 614, 6th Ed. DATA SHEET OVERHEAD TANKS U.S. CUSTOMARY		Job No.: _____ Page: <u>10 of 15</u> Date: _____		Item No.: _____ By: _____ Revision: _____		
1	APPLICABLE TO: <input type="checkbox"/> Proposal <input type="checkbox"/> Purchase <input type="checkbox"/> As built					Rev
2	Supplier _____	Manufacturer _____				
3	Purchase Order No. _____ Date _____	Inquiry No. _____ Requisition No. _____				
4	<b>Accumulators (6.11):</b>					
5	<b>Service application</b>	<b>Lube oil</b>	<b>Control oil</b>	<b>Seal oil</b>	<b>Seal oil booster</b>	
6	▽ Required, yes or no, and quantity					
7	○ Purchaser's item No.					
8	▽ Service combined with					
9	○ Direct contact type (6.11.3) (Fig. C.19)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10	▽ Bladder type (Fig. C.18)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11	○ Include option nos. (Fig. C.18, C.19)					
12	○ Rundown time (min)					
13	○ Provisions for heat trace, insulation (6.11.13)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14	○ Constant pressure regulator (6.11.3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15	▽ Manufacturer					
16	▽ Model					
17	▽ Nominal / usable capacity (gal)					
18	◇ Material: Austenitic ss vessel (6.11.9)					
19	○ Bladder					
20	○ Corrosion allowance (in)					
21	○ Design / test pressure (psig)					
22	○ Construction code / Code stamp	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>	
23	○ Accumulator valve locked open (6.11.18)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
24	Include:					
25	○ charge pressure gauge:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
26	○ manual precharge valve (6.11.3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
27	○ gas supply regulator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
28	○ bleed-down line sight glass (6.11.17)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
29	<b>Overhead tanks (6.12)</b>					
30	<b>Service application</b>	<b>Rundown lube oil</b>	<b>Low-pressure seal oil</b>	<b>Medium-pressure seal oil</b>	<b>High-pressure seal oil</b>	
31						
32	<b>Lube-oil rundown tanks (6.12.2)</b>					
33	▽ Required, yes or no (6.12.2.1)					
34	○ Purchaser's item no.					
35	▽ Service combined with					
36	○ Includes options no. (Fig. C.15 or C.16)					
37	<input type="checkbox"/> Capacity (min) or (gal)					
38	○ Bypass orifice (6.12.2.6) (Fig. C.16)					
39	○ Interconnecting piping volume					
40	<b>Seal-oil tanks (6.12.3)</b>					
41	▽ Required, yes or no (6.12.3.1)					
42	○ Purchaser's item No.					
43	▽ Total capacity (gal)					
44	▽ Design / test pressure (psig)	/	/	/	/	
45	○ Additional coastdown time (min) (6.12.3.2.1)					
46	○ Level transmitter (6.12.3.4 g)					
47	○ Valved blowdown connection (6.12.3.4 f)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
48	○ Bladder (6.12.3.5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
49	○ Connection location specified (6.6.4.12)					
50	○ Code design / Code stamp (6.3.1–6.3.3)	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>	

## DATA SHEET — SEAL-OIL DRAIN TRAPS

U.S. CUSTOMARY

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1	APPLICABLE TO: <input type="checkbox"/> Proposal <input type="checkbox"/> Purchase <input type="checkbox"/> As built		Rev
2	Supplier _____	Manufacturer _____	
3	Purchase Order No. _____ Date _____	Inquiry No. _____ Requisition No. _____	
4			
5	Traps for inner seal oil: (oil seals) (6.13)		
6	Service application		
7	<input type="radio"/> Purchaser's item no.		
8	<input type="radio"/> Seal gas vent piping arrangement (6.13.12)		
9	<input type="radio"/> Drain piped to specified location (6.13.13)		
10	<input type="radio"/> Each drain piped separately (6.13.14)		
11	<input type="radio"/> Spectacle blinds provided (6.13.2)		
12	<input type="radio"/> Float controlled	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="radio"/> Transmitter controlled (6.13.6)	<input type="checkbox"/>	<input type="checkbox"/>
14	<input type="radio"/> Pots only, for manual drain	<input type="checkbox"/>	<input type="checkbox"/>
15	<input type="radio"/> with valving	<input type="checkbox"/>	<input type="checkbox"/>
16	<input type="radio"/> Flush level glass	<input type="checkbox"/>	<input type="checkbox"/>
17	<input type="radio"/> High level switch	<input type="checkbox"/>	<input type="checkbox"/>
18	<input type="radio"/> Include option nos.		
19	<input type="radio"/> Retention (hr) / (gal)		
20	<input type="radio"/> Code construction (6.3.1)	<input type="checkbox"/>	<input type="checkbox"/>
21	<input type="radio"/> Code stamp (6.3.3)	<input type="checkbox"/>	<input type="checkbox"/>
22	Float traps		
23	<input type="checkbox"/> Manufacturer		
24	<input type="checkbox"/> Model		
25	<input type="checkbox"/> Pressure rating (psig)		
26	<input type="checkbox"/> Materials: body		
27	float / trim		
28	<input type="radio"/> Drain line piped to		
29	<input type="radio"/> Code construction (6.3.1)	<input type="checkbox"/>	<input type="checkbox"/>
30	<input type="radio"/> Code stamp (6.3.3)	<input type="checkbox"/>	<input type="checkbox"/>
31	Drain pot		
32	<input type="radio"/> Corrosion allowance		
33	<input type="checkbox"/> Material		
34	<input type="checkbox"/> Design / test pressure (psig)		
35	<input type="radio"/> Code construction (6.3.1)	<input type="checkbox"/>	<input type="checkbox"/>
36	<input type="radio"/> Code stamp (6.3.3)	<input type="checkbox"/>	<input type="checkbox"/>
37	Mist eliminator		
38	<input type="radio"/> Corrosion allowance (in)		
39	<input type="checkbox"/> Material: shell		
40	<input type="checkbox"/> Demisting mesh		
41	<input type="checkbox"/> Design / test pressure (psig)		
42	<input type="radio"/> Code construction (6.3.1)	<input type="checkbox"/>	<input type="checkbox"/>
43	<input type="radio"/> Code stamp (6.3.3)	<input type="checkbox"/>	<input type="checkbox"/>
44			
45	Comments:		
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## DATA SHEET — GAUGE BOARD AND PANELS

U.S. CUSTOMARY

<b>API 614, 6th Ed. DATA SHEET</b>		Job No.: _____	Item No.: _____
<b>GAUGE BOARD AND PANELS</b>		Page: 12 of 15	By: _____
<b>U.S. CUSTOMARY</b>		Date: _____	Revision: _____
1	APPLICABLE TO: <input type="checkbox"/> Proposal <input type="checkbox"/> Purchase <input type="checkbox"/> As Built		
2	For _____ Site _____		
3	Oil System for _____		
4	Supplier _____	Manufacturer _____	
5	Purchase Order No. _____ Date _____	Inquiry No. _____	Requisition No. _____
6			
7	<b>Explanations:</b>		
8	— The party to complete the information is indicated as follows:		
9	<input type="radio"/> Purchaser <input type="checkbox"/> Vendor <input type="checkbox"/> Either, but by vendor if not by purchaser.		
10	— An asterisk * specifies a requirement, value, or criterion.		
11	— Designations in parentheses ( ) are explained in the standard;		
12	numbers refer to paragraphs.		
13	<b>Service</b>	<b>Console gauge board</b>	<b>Local equipment panel</b>
14			
15	<input type="radio"/> Panel identification		
16	<input type="radio"/> Supplied by (8.5.1)		
17	<input type="radio"/> Type: (8.5.5) free standing		
18	locally mounted		
19	remote mounted		
20	<input type="radio"/> Per purchaser's specification (8.5.4)		
21	<input type="radio"/> Water tight enclosure (8.5.9.1, 8.5.9.2)		
22	<input type="radio"/> Purged or pressurized		
23	<input type="radio"/> Purge or pressure gas		
24	<input type="radio"/> Shutoff valves for shutdown		
25	sensing devices (8.2.1.2)		
26	<input type="radio"/> Rear access doors		
27	<input type="radio"/> Walk-in facility		
28	<input type="radio"/> Sun and weather roof extension		
29	<input type="radio"/> External light with on/off switch (8.5.8)		
30	<input type="radio"/> Internal light and receptacle (8.5.19)		
31	<input type="radio"/> Limits: max or min height above floor		
32	<input type="radio"/> Removable gland plates (8.5.28)		
33	<input type="radio"/> Spare terminals required		
34	<input type="radio"/> Signal-segregation requirements (8.3.1.7)		
35	<input type="radio"/> Reinforced panel front (8.5.13)		
36	<input type="radio"/> Top and sides specified thickness (8.5.14)		
37	<input type="checkbox"/> Material: front panel		
38	<input type="checkbox"/> Other panels and doors		
39	<input type="checkbox"/> Chassis		
40	<input type="radio"/> Vibration isolator		
41	<input type="radio"/> Electrical area classification		
42	<input type="radio"/> Panel power supply (8.4.2)		
43	<input type="radio"/> Tropicalization (8.4.11)		
44	<input type="radio"/> Common panel for driver and driven		
45	equipment (8.5.1)		
46			
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## DATA SHEET — INSTRUMENTATION

## U.S. CUSTOMARY

<b>API 614, 6th Ed. DATA SHEET INSTRUMENTATION U.S. CUSTOMARY</b>		Job No.: _____		Item No.: _____				
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		Date: _____		Revision: _____				
1	<b>APPLICABLE TO:</b> <input type="checkbox"/> Proposal <input type="checkbox"/> Purchase <input type="checkbox"/> As Built					Rev		
2	For _____ Site _____							
3	Oil System for _____							
4	Supplier _____		Manufacturer _____					
5	Purchase Order No. _____ Date _____		Inquiry No. _____		Requisition No. _____			
6								
7	<b>Explanations:</b>							
8	— The party to complete the information is indicated as follows:							
9	<input type="radio"/> Purchaser <input type="checkbox"/> Vendor <input type="checkbox"/> Either, but by vendor if not by purchaser.							
10	— An asterisk * specifies a requirement, value, or criterion.							
11	— Designations in parentheses ( ) are explained in the standard; numbers refer to paragraphs.							
12								
13	<b>Use the following code letters for details of panel mounted items:</b>							
14	L - Locally mount on piping		B - Local equipment panel		C - Remote equipment panel			
15	F - Flush mount on front		H - Purchaser remote mount (control room)		CP - Cutout for purchaser item			
16	S - Surface mount on front		P - Purchaser supply and mount		M - Mount by vendor of purchaser item			
17	R - Rear of panel mount		V - Vendor supply and mount					
18	<b>Instrumentation (8.3)</b>							
19	Instrument location (8.3.1.1)	L	B	C	Instrument location (8.3.1.1)	L	B	C
20	<b>Pressure indicators (8.3.8)</b>				<b>Push button stations</b>			
21	<input type="radio"/> Main turbine inlet				<input type="radio"/> Main equipment start			
22	<input type="radio"/> Main turbine first stage				<input type="radio"/> Main equipment stop			
23	<input type="radio"/> Main turbine extraction				<input type="radio"/> Compressor block in			
24	<input type="radio"/> Main turbine exhaust				<input type="radio"/> Compressor unblock			
25	<input type="radio"/> Steam chest				<b>Miscellaneous</b>			
26	<input type="radio"/> First stage after extraction				<input type="radio"/> Equipment tachometer			
27	<input type="radio"/> Nozzle bowl				<input type="radio"/> Equipment speed control			
28	<input type="radio"/> Steam seal				<input type="radio"/> Equipment ammeter			
29	<input type="radio"/> Ejector/Eductor steam				<input type="radio"/> Compressor inlet controller			
30	<input type="radio"/> Compressor suction				<input type="radio"/> Annunciation system (8.2.4.1)			
31	<input type="radio"/> Compressor discharge				<input type="radio"/> ISA 18.1 sequence specified (8.2.4.4)			
32	<input type="radio"/> Each compressor section				<input type="radio"/> Separate first our indication (8.2.4.5)			
33	<input type="radio"/> Balance chamber				<input type="radio"/> Equipment flow meter			
34	<b>Differential pressure gauges</b>				<input type="radio"/> Guide vane positioner			
35	<input type="radio"/> Compressor air filter				<input type="radio"/> Suction throttle valve			
36	<input type="radio"/> Buffer gas				<input type="radio"/> Anti-surge equipment			
37	<input type="radio"/> Balance chamber				<input type="radio"/> Capacity control equipment			
38	<input type="radio"/> Other				<input type="radio"/> Hand-auto (HA) or Hand-off-auto starting			
39	<b>Temperature gauges</b>				<input type="radio"/> switch for pump motor(s) (8.2.1.4)			
40	<input type="radio"/> Main turbine inlet steam				<input type="radio"/> Other			
41	<input type="radio"/> Main turbine exhaust				<input type="radio"/> Other			
42	<input type="radio"/> Main turbine extraction/induction				<input type="radio"/> Other			
43	<input type="radio"/> Compressor suction (each section)				<b>Monitors</b>			
44	<input type="radio"/> Compressor discharge (each section)				<input type="radio"/> Vibration			
45	<input type="radio"/> Other				<input type="radio"/> Axial position			
46	<input type="radio"/> Level indicators/controllers				<input type="radio"/> Thrust bearing metal temp			
47	<input type="radio"/> Suction separator				<input type="radio"/> Journal bearing metal temp			
48	<input type="radio"/> Interstage separator							
49	<input type="radio"/> Discharge separator							
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## DATA SHEET — INSTRUMENTATION

## U.S. CUSTOMARY

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1	APPLICABLE TO: <input type="checkbox"/> Proposal <input type="checkbox"/> Purchase <input type="checkbox"/> As Built			
2	For _____ Site _____			
3	Oil System for _____			
4	Supplier _____ Manufacturer _____			
5	Purchase Order No. _____ Date _____ Inquiry No. _____ Requisition No. _____			
6				
7	<b>Instrumentation</b>			
8	<input type="radio"/> Additional signal-segregation requirements specified by purchaser (8.3.1.7)			
9	<input type="radio"/> Wiring to be installed in (8.4.13): <input type="radio"/> Metal conduit <input type="radio"/> Cable trays <input type="radio"/> Enclosures			
10	<input type="radio"/> Switches shall be wired to: <input type="radio"/> open (de-energize) or <input type="radio"/> close (energize) to initiate alarms and shutdowns (8.3.2.6)			
11	<input type="radio"/> Transmitters (8.3.3.2): <input type="radio"/> indicating type <input type="radio"/> nonindicating (blind) type			
12	<input type="radio"/> housing type _____			
13	<input type="radio"/> power supply _____			
14	<input type="radio"/> Transmitter output signal type (8.3.3.3): <input type="radio"/> analog <input type="radio"/> digital			
15	<input type="radio"/> Nonhazardous <input type="radio"/> Nonincendive <input type="radio"/> Explosion proof			
16	<input type="radio"/> Multi-point instruments may be used (8.3.2.8)			
17	<input type="radio"/> NEMA 4X junction boxes required (8.1.5)			
18	<input type="radio"/> Protection method of compliance and certification of devices within a hazardous area (8.1.6): _____			
19	<input type="radio"/> Liquid-filled or dampened movement gauges shall be furnished (8.3.8.2)			
20	<input type="radio"/> Sight flow indicators installed in the drain lines of totally enclosed dry coupling guards (8.3.9.3)			
21	<input type="radio"/> Continuously energized solenoids required for shutdown circuits (8.3.10.4)			
22	<input type="radio"/> Dual-coil solenoids required for shutdown functions (8.3.10.5)			
23	<input type="radio"/> Thermal relief valves provided for components that may be blocked in by isolation valves (8.3.11.8)			
24	<input type="radio"/> Discharge of oil thermal relief valves routed back to reservoir (8.3.11.10)			
25	<input type="radio"/> Purchaser's labeling in addition to manufacturer's standard labeling (8.3.1.3)			
26	<input type="radio"/> Purchaser's tagging in addition to manufacturer's standard tagging (8.3.1.11)			
27	<b>Electrical Systems</b>			
28	<input type="radio"/> Characteristics of electrical power supplies for motors, heater and instruments shall be specified (8.4.2)			
29	<input type="radio"/> Instrument and control wiring may be solid conductors in areas not subject to vibration (8.4.5)			
30	Wiring installed in (8.4.13): <input type="radio"/> Metal conduit <input type="radio"/> Cable trays			
31	<input type="radio"/> Conduit drains provided in all conduit low points for indoor installations (8.4.20)			
32	<input type="radio"/> Tropical location treatment (8.4.11)			
33	<input checked="" type="checkbox"/> Enable all instruments and other components (except shutdown devices) to be replaced or tested during equipment operation (8.2.1.1)			
34	<input type="radio"/> Enable all shutdown devices to be replaced or tested with the equipment in operation (8.2.1.2)			
35	<input type="radio"/> Purchaser specified alarms and shutdowns required — see Table 9 (8.2.2.2)			
36	<input type="radio"/> Purchaser specified alarm/shutdown systems to be supplied and installed by the equipment vendor (8.2.2.5)			
37	Alarm/Trip wiring per Arrangement (8.2.3.1): <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			
38	Any alarm shall initiate: <input type="radio"/> Audible warning <input type="radio"/> Flashing light <input type="radio"/> Both audible warning and flashing light (8.2.2.6.2)			
39	Any shutdown shall initiate: <input type="radio"/> Audible warning <input type="radio"/> Flashing light <input type="radio"/> Both audible warning and flashing light (8.2.2.6.2)			
40	<input type="radio"/> For non-fail-safe systems, a failure that results in the system being unable to recognize an alarm condition shall also result in all other alarms and shutdowns remaining functional (8.2.2.6.7)			
41				
42	<input checked="" type="checkbox"/> Test each component of every alarm, shutdown and trip function, while the equipment is in operation, without disarming any other function (8.2.2.6.8)			
43				
44	<b>Comments:</b>			
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## DATA SHEET — INSPECTION AND TESTING

## U.S. CUSTOMARY

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1	APPLICABLE TO: <input type="checkbox"/> Proposal <input type="checkbox"/> Purchase <input type="checkbox"/> As built		Rev
2	Supplier _____	Manufacturer _____	
3	Purchase Order No. _____ Date _____	Inquiry No. _____ Requisition No. _____	
4			
5	Shop inspection (9.1.1)	Required	Witnessed
6	<input type="radio"/> Compliance with inspector's checklist (9.1.2)	<input type="radio"/>	<input type="radio"/>
7	<input type="radio"/> Required for system assemblies	<input type="radio"/>	<input type="radio"/>
8	<input type="radio"/> Cleanliness inspection before vessel heads are welded, or exchangers or piping assembly (9.2.3.2)	<input type="radio"/>	<input type="radio"/>
9	<input type="radio"/> Required for major components:	<input type="radio"/>	<input type="radio"/>
10	<input type="radio"/> Material certification to be furnished	<input type="radio"/>	<input type="radio"/>
11	<input type="radio"/> Special examinations	<input type="radio"/>	<input type="radio"/>
12	<input type="radio"/> Construction code (6.3.1)	<input type="radio"/>	<input type="radio"/>
13	<input type="radio"/> Code stamp (6.3.3)	<input type="radio"/>	<input type="radio"/>
14	<input type="radio"/> Certified copies of all test logs and data for approval before shipment (10.4.3.2)	<input type="radio"/>	<input type="radio"/>
15	<input type="radio"/> Demonstrate pump alignment by unbolting pump inlet and discharge piping (9.3.3.14)	<input type="radio"/>	<input type="radio"/>
16	<input type="radio"/> Additional radiography, magnetic particle inspection, or liquid penetrant inspections (6.4.2)	<input type="radio"/>	<input type="radio"/>
17	<input type="radio"/> Hardness testing (9.2.3.3)	<input type="radio"/>	<input type="radio"/>
18	Shop testing (9.3)	Required	Witnessed
19	<input type="radio"/> Cleanliness demonstrated prior to as well as after operational testing (9.3.3.12)	<input type="radio"/>	<input type="radio"/>
20	<input type="radio"/> Four-hour running test, with system parameters recorded at least every 30 minutes (9.3.3.4)	<input type="radio"/>	<input type="radio"/>
21	<input type="radio"/> Check controls	<input type="radio"/>	<input type="radio"/>
22	<input type="radio"/> Changeover filters/coolers	<input type="radio"/>	<input type="radio"/>
23	<input type="radio"/> One- and two-pump operation	<input type="radio"/>	<input type="radio"/>
24	<input type="radio"/> Sound level survey	<input type="radio"/>	<input type="radio"/>
25	<input type="radio"/> Hydro test assembled system	<input type="radio"/>	<input type="radio"/>
26	<input type="radio"/> Use during shop test of served equipment (9.3.1.5)	<input type="radio"/>	<input type="radio"/>
27	<input type="radio"/> Use for complete unit system test (9.3.1.6)	<input type="radio"/>	<input type="radio"/>
28	<input type="radio"/> Piping spools hydrotested prior to painting (9.2.1.3)	<input type="radio"/>	<input type="radio"/>
29	<input type="radio"/> PMI testing required (9.2.2.3.1) <input type="radio"/> Extent of required PMI testing, including sampling, is specified (9.2.2.3.2)		
30	<input type="radio"/> Schedule of manufacturing hold points and inspector's visits (9.1.5)		
31	<input type="radio"/> Amount of advance notification required before a witnessed or observed inspection (9.1.6, 9.1.7): _____ working days		
32	<input type="radio"/> Other records or data to be kept by vendor for at least 20 years, in addition to the requirements of 9.2.1.1 f)		
33	<input type="radio"/> Surface and subsurface examination required (9.2.1.5), examination type:		
34	<input type="radio"/> magnetic particle <input type="radio"/> liquid penetrant <input type="radio"/> radiographic <input type="radio"/> ultrasonic		
35	<input type="radio"/> parts requiring examination:		
36	<input type="radio"/> All markings shall be in English and other specified language (9.5.1)		
37	<input type="radio"/> One copy of manufacturer's standard instruction manual packed and shipped with equipment (9.5.8)		
38	<input type="radio"/> Purchaser's review and acceptance of the components selected, before purchase (10.3.2.3.2)		
39	<input type="radio"/> Purchaser's acceptance of layout of components and piping before manufacture (10.3.2.3.3)		
40	<input type="radio"/> Vendor to furnish outline of procedures used for each of special or optional test (10.3.2.3.4)		
41	Information specified in Annex D - Contract Documents and Engineering Design Data shall be provided (10.1.2)		
42	Comments:		
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## A2.2 Data Sheets—SI Units

### DATA SHEET — SCOPE AND ATTACHMENTS

### SI UNITS (bar)

API 614, 6th Ed. DATA SHEET SCOPE AND ATTACHMENTS SI UNITS (bar)		Job No.: _____ Page: 1 of 15 Date: _____	Item No.: _____ By: _____ Revision: _____	Rev
1	Apply to: <input type="checkbox"/> Proposal <input type="checkbox"/> Purchase <input type="checkbox"/> As Built			
2	For _____ Site _____			
3	Oil System for _____			
4	Supplier _____ Manufacturer _____			
5	Purchase Order No. _____ Date _____ Inquiry No. _____ Requisition No. _____			
6				
7	Explanations:			
8	— The party to complete the information is indicated as follows:			
9	<input type="radio"/> Purchaser <input type="radio"/> Unspared or critical service (by purchaser) <input type="checkbox"/> Vendor <input type="checkbox"/> Either, but by vendor if not by purchaser.			
10	— An asterisk * specifies a requirement, value, or criterion.			
11	— Designations in parentheses ( ) are explained in the standard;			
12	numbers refer to paragraphs.			
13				
14	Applicable documents:			
15	<input type="radio"/> Local instruments and panel items	<input type="radio"/> Pump Drivers (Motor) _____		
16	<input type="radio"/> Instrument suppliers	<input type="radio"/> Pump Drivers (Turbine) _____		
17	<input type="radio"/> Additional documents _____	<input type="radio"/> Referenced standards _____		
18	<input type="radio"/> Additional documents _____	<input type="radio"/> Additional documents _____		
19	<input type="radio"/> Additional documents _____	<input type="radio"/> Additional documents _____		
20	<input type="radio"/> Additional documents _____	<input type="radio"/> Additional documents _____		
21	<input type="radio"/> Additional documents _____	<input type="radio"/> Additional documents _____		
22				
23	Installation data:			
24	<input type="radio"/> Space available for oil system: L _____ W _____ H _____ (m)			
25	<input type="radio"/> Plot plan showing console location in relation to main equipment:			
26	(Sketch the equipment plot plan with relation to the console location here)			
27	<input type="radio"/> Maximum allowable noise level not to exceed _____ dB or see _____			
28	<input type="radio"/> Additional requirements _____			
29	<input type="radio"/> Additional requirements _____			
30				
31	<input type="radio"/> Winterize <input type="radio"/> Tropicalize <input type="radio"/> Minimum clearance and access to components required (6.2.13) _____ (m)			
32	<input type="radio"/> Area classification (8.1.3.2): Zone _____ Group _____ Temp Class _____ or see _____			
33				
34	Equipment oil required:			
35	<input type="checkbox"/> Oil type / viscosity (6.2.8):			
36	<input type="checkbox"/> Required heat load _____ (kJ/hr)			
37				
38	<input type="radio"/> Lube oil (6.2.6): Normal After trip Pressure			
39	<input type="checkbox"/> _____ (m³/h) (m³/h) (barG)			
40	<input type="checkbox"/> Driven equipment			
41	<input type="checkbox"/> Driven equipment			
42	<input type="checkbox"/> Driven equipment			
43	<input type="checkbox"/> Prime mover			
44	<input type="checkbox"/> Gears			
45	<input type="checkbox"/> Couplings			
46	<input type="checkbox"/> Total:			
47	<input type="checkbox"/> Control oil (normal)			
48	<input type="checkbox"/> Control oil (transient)			
49	<input type="radio"/> _____			
50				

## DATA SHEET — SCOPE AND ATTACHMENTS

SI UNITS (bar)

<b>API 614, 6th Ed. DATA SHEET</b>		Job No.: _____		Item No.: _____	
<b>SCOPE AND ATTACHMENTS</b>		Page: 2 of 15		By: _____	
<b>SI UNITS (bar)</b>		Date: _____		Revision: _____	

  

1	<b>* Site data:</b>		<b>Utility data:</b>		
2	<input type="radio"/> Ambient conditions		<input type="radio"/> Electrical	<input type="radio"/> Cooling water: water source	
3	<input type="radio"/> Min/max temperature (°C) _____ / _____		Volts _____	Inlet temperature (°C) _____	Maximum return (°C) _____
4	<input type="radio"/> Relative humidity _____		Hertz _____	Normal pressure (barG) _____	Design pressure (barG) _____
5			Phase _____	Min. return (barG) _____	Maximum Delta p ( $\Delta p$ ) (bar) _____
6					
7					
8	<input type="radio"/> Steam	<b>Drivers (6.7.7.3):</b>		<b>Heating:</b>	
9		Pressure _____	Temperature _____	Pressure _____	Temperature _____
10		Pressure _____	Temperature _____	Pressure _____	Temperature _____
11		Pressure _____	Temperature _____	Pressure _____	Temperature _____
12		Pressure _____	Temperature _____	Pressure _____	Temperature _____
13		Pressure _____	Temperature _____	Pressure _____	Temperature _____
14		Pressure _____	Temperature _____	Pressure _____	Temperature _____

  

15	<b>Location (6.1.6):</b>				
16	<input type="radio"/> Indoor	<input type="radio"/> Heated	<input type="radio"/> Under roof		
17	<input type="radio"/> Outdoor	<input type="radio"/> Unheated	<input type="radio"/>		

  

18	<b>Painting:</b>	<input type="checkbox"/> Weights	<input type="checkbox"/> Dimensions:	L	W	H
19	<input type="radio"/> Component supplier standard	(kg)	(m)			
20	<input type="radio"/> Unified per system supplier standard	Console	Console			
21	<input type="radio"/> Purchaser's paint system (9.4.4.2):	Panel	Panel			
22						
23						

  

24	<b>Preparation for shipment</b>		<b>Miscellaneous documentation</b>	
25	<input type="radio"/> Domestic		<input type="radio"/> Spare parts quotation with proposal	
26	<input type="radio"/> Export		<input type="radio"/> Spare parts quotation after contract	
27	<input type="radio"/> Extended Storage _____ months		<input type="radio"/> Above based on normal supply for _____ months.	
28	<input type="radio"/> Include _____ sets of extra filter elements		<input type="radio"/> Complete inspector's checklist (Annex J)	
29			<input type="radio"/> Progress reports (10.4.4)	
30			<input type="radio"/> Technical data manual provided at shipment (10.4.6.4.2)	
31			<input type="radio"/> Units of measurement for drawings, documentation and maintenance	
32			dimensions (5.2): <input type="radio"/> U.S. Customary <input type="radio"/> International System of Units (SI)	

  

33	<b>Spare parts</b>	
34	Vendor Std.	Purchasers requirements
35	<input type="checkbox"/>	
36	<input type="checkbox"/>	
37	<input type="checkbox"/>	

  

38	<b>Process piping, intercoolers, aftercoolers (7.4, 7.6)</b>	
39	<input type="radio"/> If soleplates are specified for the equipment train, Purchaser to define extent of train lube oil piping system to be included (7.1.7)	
40	<input type="radio"/> Extent of, and requirements for process piping supplied by vendor (7.4.1) _____	
41	<input type="radio"/> Driven equipment vendor to review design of piping, appurtenances, and vessels and supports immediately upstream and downstream	
42	<input type="radio"/> of the equipment (7.4.3) _____	
43	<input type="radio"/> Intercoolers furnished by driven equipment vendor (7.6.1)	
44	<input type="radio"/> Aftercoolers furnished by driven equipment vendor (7.6.3)	
45	<input type="radio"/> Fabricated piping between compressor stages and coolers furnished by driven equipment vendor (7.6.15)	
46	<input type="radio"/> Intercoolers and aftercoolers to be: <input type="radio"/> water-cooled <input type="radio"/> air-cooled (7.6.2)	
47	<input type="radio"/> TEMA class for water-cooled intercoolers and aftercoolers: <input type="radio"/> TEMA C <input type="radio"/> TEMA R (7.6.5)	
48	<input type="radio"/> Water-cooled intercoolers and aftercoolers with double-pipe design (7.6.11)	
49	<input type="radio"/> Intercoolers skid-mounted (7.6.12)	
50	<input type="radio"/> Air-cooled intercoolers and aftercoolers in accordance with API 661 (7.6.9)	
51	<input type="radio"/> Special materials for intercoolers and aftercoolers (7.6.13) _____	



## DATA SHEET — BASIC DESIGN SI UNITS (bar)

API 614, 6th Ed. DATA SHEET BASIC DESIGN SI UNITS (bar)		Job No.: _____ Page: 3 of 15 Date: _____	Item No.: _____ By: _____ Revision: _____
1	APPLICABLE TO: <input type="checkbox"/> Proposal <input type="checkbox"/> Purchase <input type="checkbox"/> As built		
2	For _____ Site _____		
3	Oil System for _____		
4	Supplier _____ Manufacturer _____		
5	Purchase Order No. _____ Date _____ Inquiry No. _____ Requisition No. _____		
6	Basic Design (4.2.a) Configuration Code: _____		
7	Design goal for uninterrupted operation (mission time) of the equipment (6.1.2): _____ months		
8	<input type="radio"/> Purchaser and the vendor shall agree upon an acceptable system before the order is released (4.8).		
9	<input checked="" type="radio"/> If selected here, all diamond options are invoked (4.5).		
10	Overall system selection (6.2)	Figure No	Option Nos
11	<input type="radio"/> Combined lube, seal & control system		
12	<input type="radio"/> Separate seal oil system		
13	<input type="radio"/> Seal module at equipment		
14	<input type="radio"/> Lube / control oil system		
15	<input type="radio"/> Basic oil supply module		
16	<input type="radio"/> Lube module at equipment		
17	<input type="radio"/> Drawing requirements		
18	<input type="radio"/> Component review		
19	Supply arrangement (6.2.7):	Lube oil	Seal oil
20	<input type="radio"/> Separate console	<input type="checkbox"/>	<input type="checkbox"/>
21	<input type="radio"/> Multiple package	<input type="checkbox"/>	<input type="checkbox"/>
22	<input type="checkbox"/> Combined with equipment base		
23	<input checked="" type="radio"/> All oil system components mounted on common baseplate (6.5.2)		
24	<input type="radio"/> Special provisions needed for backup oil supply upon primary system failure (6.2.21)		
25	<input type="radio"/> Lifting attachments furnished with material and load test certifications (6.5.6.6)		
26	Baseplates:		
27	<input type="radio"/> Point support (6.5.13)		
28	<input type="radio"/> Grout holes / vent holes (6.5.7)		
29	<input type="radio"/> Epoxy grout precoat (6.5.8)		
30	<input type="radio"/> Nonskid decking required (6.5.4)		
31	<input type="radio"/> Sloped decking required (6.5.5)		
32	<input type="radio"/> Lifting lugs 100% NDE tested (6.5.6.3)		
33	Basic System Details:		
34	<input type="radio"/> Compressor block-in time (6.2.21.2) _____ (min)		
35	<input type="radio"/> Sound level _____ dB max. (6.1.12)		
36	<input type="checkbox"/> Equipment coast-down time _____ (min)		
37	Equipment cool off time:		
38	<input type="checkbox"/> Driver _____ (min)		
39	<input type="checkbox"/> _____ (min)		
40	<input type="checkbox"/> Minimum start up oil temperature _____ (°C)		
41	Other :		
42	<input type="checkbox"/> Settling out pressure _____ (barG) (6.2.5 a)		
43	<input type="checkbox"/> Standby pump (6.7.1.3)		
44	<input type="checkbox"/> Rundown tank (6.12.2.1)		
45	<input type="checkbox"/> _____ atmospheric (Fig. C.15) _____ pressurized (Fig. C.16)		
46	<input type="checkbox"/> Process relief valve setting _____ (barG)		
47	<input type="checkbox"/> Shop test conditions		
48	<input type="checkbox"/> Field start-up / run-in conditions		
49	<input type="checkbox"/> Other special conditions		
50	<input type="checkbox"/> Welding & special fabrication requirements (6.4.2)		
51	<input type="checkbox"/> Additional radiography		
52	<input type="checkbox"/> Magnetic particle		
53	<input type="checkbox"/> Liquid penetrant		
54	<input type="checkbox"/> Heat loss analysis of system and interconnecting piping (6.6.8.8)		
55	<input type="checkbox"/> Only field-proven equipment, defined by Purchaser, accepted (6.1.3)		
56	<input type="checkbox"/> Documentation to demonstrate field-proven equipment (6.1.3.1)		
57	<input type="checkbox"/> Dynamic simulation of the oil system required (6.2.24)		
58	<input type="checkbox"/> Pressure vessel design code: ASME Section VIII (6.3.1)		
59	<input type="checkbox"/> Utilities manifolded to common connections (7.1.37)		
60	<input type="checkbox"/> Air <input type="checkbox"/> Cooling water <input type="checkbox"/> Other		
61	<input type="checkbox"/> PLV to be tight shutoff, design code compliant (6.7.22.6)		
62	<input type="checkbox"/> PLV not used for continuous pressure regulation (6.7.22.4)		
63	<input type="checkbox"/> Manual bypass valves required around PLV (6.7.22.7)		
64	<input checked="" type="checkbox"/> Control valve heads vented to reservoir (7.3.5)		
65	<input type="checkbox"/> Continuous oil flow for sensing lines of safety instruments (7.3.6)		
66	<input type="checkbox"/> Special requirements for hazardous service specified (7.1.27)		
67	<input type="checkbox"/> Additional purchaser specification for valves (7.1.39)		
68	<input type="checkbox"/> Flanged gate valves required per API 601, API 602 (7.1.40)		
69	<input type="checkbox"/> All stainless steel materials of the oil system to be 316 (6.2.14)		
70	<input type="checkbox"/> Piping design in accordance with ASME B31.3 (6.2.15)		
71	<input type="checkbox"/> Supplementary piping requirements (6.3.5)		
72	Piping, Tubing & Valves:		
73	<input type="radio"/> Test valves in oil lines vented back to reservoir (7.1.33)		
74	<input type="radio"/> Double block & bleeds required (6.2.18)		
75	<input type="radio"/> Instrument test valves required (7.3.11)		
76	<input type="radio"/> Instrument manifold valves required (7.3.13)		
77	<input checked="" type="checkbox"/> Tubing fitting - Mfg _____ Model _____		
78	<input type="radio"/> Flange bolting treated to resist atmospheric corrosion (7.1.35)		
79	<input type="radio"/> Through studs required (7.1.36)		
80	<input type="radio"/> PN designated flanges required (7.1.16.2)		
81	<input type="radio"/> ASME B16.47 Series A steel flanges required (7.1.16.4)		
82	<input type="radio"/> ASME B16.1 or B16.42 iron flanges accepted (7.1.16.5)		
83	<input type="radio"/> Machined and studed connections per ASME B16.1 (7.1.16.11)		
84	<input type="radio"/> Heat tracing reqd by <input type="checkbox"/> Purchaser <input type="checkbox"/> Vendor		

## DATA SHEET — INSTRUMENT SUPPLIERS

SI UNITS (bar)

<b>API 614, 6th Ed. DATA SHEET</b>		Job No.: _____	Item No.: _____
<b>INSTRUMENT SUPPLIERS</b>		Page: <b>4</b> of 15	By: _____
<b>SI UNITS (bar)</b>		Date: _____	Revision: _____
1	APPLICABLE TO: <input type="checkbox"/> Proposal <input type="checkbox"/> Purchase <input type="checkbox"/> As Built		
2	For _____ Site _____		
3	Oil System for _____		
4	Supplier _____	Manufacturer _____	
5	Purchase Order No. _____ Date _____	Inquiry No. _____	Requisition No. _____
6			
7	<b>Instrument suppliers:</b>	<b>Manufacturer</b>	<b>Description</b>
8	Pressure gauges		
9	Temperature gauges		
10	Level gauges		
11	Differential pressure gauges		
12	Pressure switches		
13	Differential pressure switches		
14	Temperature switches		
15	Level switches		
16	Control valves		
17	Pressure relief valve		
18	Thermal relief valve		
19	Sight flow indicators		
20	Pressure transmitter		
21	Vibration equipment		
22	Tachometer		
23	Solenoid valves		
24	Annunciator		
25	Thermocouples		
26	Resistance temperature detectors (RTDs)		
27	Thermowells		
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42	<input type="radio"/> Purchaser's review and acceptance of components prior to purchase (10.3.2.3.2)		
43	<input type="radio"/> Purchaser's review and acceptance of layout of components and piping prior to purchase (10.3.2.3.3)		
44	<input type="radio"/> Furnish outline of procedures of special tests specified by the purchaser (10.3.2.3.4)		
45	Comments:		
46			
47			
48			
49			
50			

## DATA SHEET — RESERVOIR

SI UNITS (bar)

API 614, 6th Ed. DATA SHEET RESERVOIR SI UNITS (bar)		Job No.: _____ Page: <u>5</u> of <u>15</u> Date: _____	Item No.: _____ By: _____ Revision: _____	Rev
1	APPLICABLE TO: <input type="checkbox"/> Proposal <input type="checkbox"/> Purchase <input type="checkbox"/> As built			
2	Supplier _____	Manufacturer _____		
3	Purchase Order No. _____ Date _____	Inquiry No. _____	Requisition No. _____	
4	Service application: <input type="radio"/> Separate lube <input type="radio"/> Lube/seal combined <input type="radio"/> Separate seal			
5	Purch. item no. _____			
6	<input type="radio"/> Figures no. _____			
7	<input type="radio"/> Include options no. _____			
8	<input type="radio"/> Heater steam/electric (6.6.8.2) _____			
9	<input type="radio"/> Heater removable element (6.6.8.2.3, 6.6.8.2.4) _____			
10	<input type="radio"/> Temp. device for remote monitoring and control (6.6.8.5) _____			
11	<input type="radio"/> Heater element removable during operation (6.6.8.7) _____			
12	<input type="radio"/> Heater installed in oil-filled pipe well (6.6.8.7.2) _____			
13	<input type="radio"/> Material _____			
14	<input type="radio"/> Normal flow (L/min) _____			
15	<input type="radio"/> Free surface (m <sup>2</sup> ) _____			
16	<input type="radio"/> Free surface minimum specified (6.6.7.12) _____			
17	<input type="checkbox"/> Working capacity (l) _____			
18	<input type="radio"/> Working capacity at least 5 min. of normal flow (6.6.7.4) _____			
19	<input type="checkbox"/> Retention capacity (l) _____			
20	<input type="radio"/> Minimum retention capacity 8 min. of normal flow (6.6.7.5) _____			
21	<input type="checkbox"/> Rundown capacity (l) _____			
22	<input type="checkbox"/> Normal operating range (L/min) _____			
23	<input type="checkbox"/> Charge capacity (l) _____			
24	<input type="radio"/> Reflex-type oil level glass (6.6.4.3.1) _____			
25	<input type="radio"/> Alternate means of level indication (6.6.4.3.2) _____			
26	<input type="radio"/> Low-level alarm (6.6.7.11) _____			
27	<input type="radio"/> Insulation clips (6.6.9.1) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
28	<input type="radio"/> Ladder with handrail (6.6.13.1) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
29	<input type="radio"/> Handrails on reservoir top (6.6.13.2) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
30	<input type="radio"/> Nonskid decking on reservoir top (6.6.13.3) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
31	<input type="radio"/> Flanged reservoir pipe connections (6.6.2.10) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
32	<input type="radio"/> Vent connection with blind flange (6.6.4.6) _____			
33	<input type="radio"/> Flanged vent drain connection w/valve & blind flange (6.6.3.3) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
34	<input type="radio"/> Threaded plugged connection above rundown level (6.6.10.1) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
35	<input type="radio"/> Designed for overpressurization or _____			
36	negative pressure (6.6.1.4, 6.6.1.5) _____			
37	<input type="radio"/> Siphon breaker <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
38	<input type="radio"/> Top mounted components prohibited (6.6.1.9) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
39	<input type="checkbox"/> Top mounted components are: _____			
40	<input type="checkbox"/> Submerged components & materials _____			
41	<input type="checkbox"/> Dimension of tank L x W x H (m) _____			
42	<input type="radio"/> Separate connection for seal oil return line (6.6.4.8) _____	<input type="checkbox"/>	<input type="checkbox"/>	
43	<input type="radio"/> Connections for oil conditioner (6.6.11.1) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
44	<input type="radio"/> Sample points required (6.9.14) _____			
45	<input type="radio"/> Top of reservoir shall slope at least 10 mm/m (1/8 in./ft) (6.6.1.11) _____			
46	<input type="radio"/> Other criteria for reservoir top (6.6.13.6) _____			
47	<input type="radio"/> Bottom of reservoir sloped continuously (6.6.3.1) _____			
48	<input type="radio"/> Fill opening, spring closed, with ss mesh strainer (6.6.4.5) _____			
49	<input type="radio"/> Flame arrestors required (6.6.6.1), Locations (6.6.6.2) _____	Special requirements (6.6.6.3) _____		