

OWNER



**BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT**

EPC CONTRACTOR:



MC :



شرکت نفت و سویی
توسعه ایرانیان





Instrument index for reciprocating compressor



Owner Document Number: 17811-72	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
	BU	20	VD	303	IN	INX	0032	Rev.:	Page
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Instrument index for reciprocating compressor

00	24/11/2020	For Approval	WZ	RB	KP		
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code	
							Class: 1 Phase: 1

OWNER  شرکت پتروشیمی بوتهر	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR: 	
	Instrument index for reciprocating compressor								
MC :   شرکت سفت و سوی توسعه ایرانیان	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
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TAG NUMBER	SERVICE DESCRIPTION	INSTRUMENT TYPE	LOCATION	P&ID NUMBER	I/O TYPE	SIGNAL TYPE	CALIBRATED RANGE	UNIT	ENGINEERING	PROCESS CONNECTION	INSTRUMENT CONNECTION	B&B	TYPE B&B	TW	ISOLATION VALVE	PROTOCOL	WIRING DRAWING NUMBER	DATASHEET NUMBER	HOOK-UP DRAWING NUMBER	MANUFACTURER & MODEL NO.	PANEL OR LOCAL MOUNTED
PDG-001A	Compressor Inlet Strainer Differential Pressure Transmitter	DIFFERENTIAL PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	-1-1	bar		1/4"NPT-F	-	YES	5-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
PG-001A	Compressor Inlet Nitrogen Pressure Gauge	PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	0-16	bar(a)		1/2"NPT-M	-	YES	2-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
PG-002A	Compressor Upstream After-Cooler Nitrogen Pressure Gauge	PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	0-40	bar(a)		1/2"NPT-M	-	YES	2-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
PG-003A	Compressor Cooling Water Inlet Water Pressure Gauge	PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	0-6	bar(a)		1/2"NPT-M	-	YES	2-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
TG-001A	Compressor Cooling Water Inlet Water Temperature Gauge	TEMPERATURE GAUGE	FIELD	17811-03	AI	ANALOG	0-60	°C		1/2"NPT-M	-	-	-	YES	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TW-001A	Compressor Cooling Water Inlet Water Temperature Gauge Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	-		1 1/2" 300# RF	-	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TG-002A	Compressor Cooling Water Outlet Water Temperature Gauge	TEMPERATURE GAUGE	FIELD	17811-03	AI	ANALOG	0-60	°C		1/2"NPT-M	-	-	-	YES	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TW-002A	Compressor Cooling Water Outlet Water Temperature Gauge Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	-		1 1/2" 300# RF	-	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
LG-001A	Compressor Oil Sump Oil Level Gauge	LEVEL GAUGE	FIELD	17811-03	AI	ANALOG	will be stated later	mm		1/2"NPT	-	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
PIT-001A	Compressor Inlet Nitrogen Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	-1-13.5	bar(a)		1/2"NPT-M	-	YES	2-WAY	-	YES	HART	17811-05	17811-12	17811-38	TBA	LOCAL
PIT-002A	Compressor Outlet Nitrogen Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	0-36	bar(a)		1/2"NPT-M	-	YES	2-WAY	-	YES	HART	17811-05	17811-12	17811-38	TBA	LOCAL
PIT-003A	Compressor Oil System Oil Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	-1-5	bar(a)		1/2"NPT-M	-	YES	2-WAY	-	YES	HART	17811-05	17811-12	17811-38	TBA	LOCAL
TIT-001A	Compressor Inlet Nitrogen Temperature Transmitter	TEMPERATURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	0-80	°C		-	-	-	-	YES	NO	HART	17811-05	17811-12	17811-38	TBA	LOCAL
TW-001A	Compressor Inlet Nitrogen Temperature Transmitter Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	-		1 1/2" 300# RF	1/2"NPT-F	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TIT-002A	Compressor Upstream After-Cooler Nitrogen Temperature Transmitter	TEMPERATURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	0-200	°C		-	-	-	YES	NO	HART	17811-05	17811-12	17811-38	TBA	LOCAL	
TW-002A	Compressor Upstream After-Cooler Nitrogen Temperature Transmitter Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	-		1 1/2" 300# RF	1/2"NPT-F	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
XY-001A	Compressor Inlet Solenoid Valve	SOLENOID VALVE	FIELD	17811-03	DO	DIGITAL	-	-		1/4"NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
XY-002A	Compressor Cooling Water Inlet Solenoid Valve	SOLENOID VALVE	FIELD	17811-03	DO	DIGITAL	-	-		1/4"NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
XV-002A	Compressor Cooling Water Inlet Ball Valve	BALL VALVE	FIELD	17811-03	DO	DIGITAL	-	-		1/4"NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
PCV-001A	Compressor Bypass (Recycle) Pressure Control Valve	PRESSURE CONTROL VALVE	FIELD	17811-03	AO	ANALOG	-	-		1/4"NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
PSV-001A	Compressor Upstream After-Cooler Pressure Safety Valve	PRESSURE SAFETY VALVE	FIELD	17811-03	-	-	-	-		1" 300# RF	-	-	-	-	-	-	17811-12	17811-12	17811-38	TBA	LOCAL
PSV-002A	Compressor Upstream After-Cooler Pressure Safety Valve	PRESSURE SAFETY VALVE	FIELD	17811-03	-	-	-	-		1" 300# RF	-	-	-	-	-	-	17811-12	17811-12	17811-38	TBA	LOCAL
PDG-001B	Compressor Inlet Strainer Differential Pressure Transmitter	DIFFERENTIAL PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	-1-1	bar		1/4"NPT-F	-	YES	5-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
PG-001B	Compressor Inlet Air Pressure Gauge	PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	0-16	bar(a)		1/2"NPT-M	-	YES	2-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
PG-002B	Compressor Upstream After-Cooler Air Pressure Gauge	PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	0-40	bar(a)		1/2"NPT-M	-	YES	2-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
PG-003B	Compressor Cooling Water Inlet Water Pressure Gauge	PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	0-6	bar(a)		1/2"NPT-M	-	YES	2-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
TG-001B	Compressor Cooling Water Inlet Water Temperature Gauge	TEMPERATURE GAUGE	FIELD	17811-03	AI	ANALOG	0-60	°C		1/2"NPT-M	-	-	-	YES	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TW-001B	Compressor Cooling Water Inlet Water Temperature Gauge Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	-		1 1/2" 300# RF	-	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TG-002B	Compressor Cooling Water Outlet Water Temperature Gauge	TEMPERATURE GAUGE	FIELD	17811-03	AI	ANALOG	0-60	°C		1/2"NPT-M	-	-	-	YES	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TW-002B	Compressor Cooling Water Outlet Water Temperature Gauge Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	-		1 1/2" 300# RF	-	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
LG-001B	Compressor Oil Sump Oil Level Gauge	LEVEL GAUGE	FIELD	17811-03	AI	ANALOG	will be stated later	mm		1/2"NPT	-	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
PIT-001B	Compressor Inlet Air Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	-1-13.5	bar(a)		1/2"NPT-M	-	YES	2-WAY	-	YES	HART	17811-05	17811-12	17811-38	TBA	LOCAL
PIT-002B	Compressor Outlet Air Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	0-36	bar(a)		1/2"NPT-M	-	YES	2-WAY	-	YES	HART	17811-05	17811-12	17811-38	TBA	LOCAL
PIT-003B	Compressor Oil System Oil Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	-1-5	bar(a)		1/2"NPT-M	-	YES	2-WAY	-	YES	HART	17811-05	17811-12	17811-38	TBA	LOCAL
TIT-001B	Compressor Inlet Air Temperature Transmitter	TEMPERATURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	0-80	°C		-	-	-	-	YES	NO	HART	17811-05	17811-12	17811-38	TBA	LOCAL
TW-001B	Compressor Inlet Air Temperature Transmitter Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	-		1 1/2" 300# RF	1/2"NPT-F	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TIT-002B	Compressor Upstream After-Cooler Air Temperature Transmitter	TEMPERATURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	0-200	°C		-	-	-	YES	NO	HART	17811-05	17811-12	17811-38	TBA	LOCAL	
TW-002B	Compressor Upstream After-Cooler Air Temperature Transmitter Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	-		1 1/2" 300# RF	1/2"NPT-F	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
XY-001B	Compressor Inlet Solenoid Valve	SOLENOID VALVE	FIELD	17811-03	DO	DIGITAL	-	-		1/4"NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
XY-002B	Compressor Cooling Water Inlet Solenoid Valve	SOLENOID VALVE	FIELD	17811-03	DO	DIGITAL	-	-		1/4"NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
XV-002B	Compressor Cooling Water Inlet Ball Valve	BALL VALVE	FIELD	17811-03	DO	DIGITAL	-	-		1/4"NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
PCV-001B	Compressor Bypass (Recycle) Pressure Control Valve	PRESSURE CONTROL VALVE	FIELD	17811-03	AO	ANALOG	-	-		1/4"NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
PSV-001B	Compressor Upstream After-Cooler Pressure Safety Valve	PRESSURE SAFETY VALVE	FIELD	17811-03	-	-	-	-		1" 300# RF	-	-	-	-	-	-	17811-12	17811-12	17811-38	TBA	LOCAL
PSV-002B	Compressor Upstream After-Cooler Pressure Safety Valve	PRESSURE SAFETY VALVE	FIELD	17811-03	-	-	-	-		1" 300# RF	-	-	-	-	-	-	17811-12	17811-12	17811-38	TBA	LOCAL