

3. Instrument List (Pressure Switch 2/3)

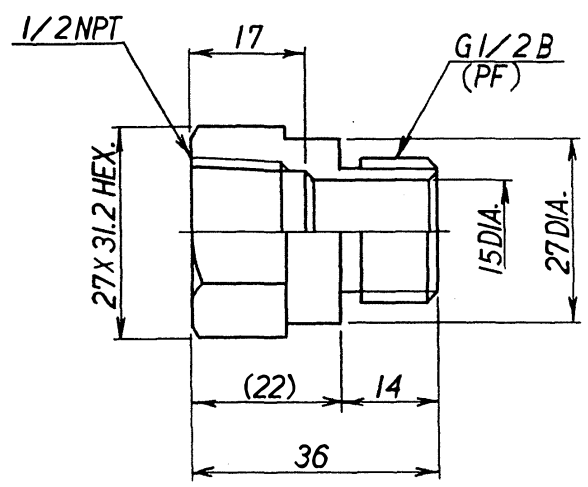
SPC-GIH-XIT05-0028 Rev.4

No	INSTR TAG NO.	SERVICE DESCRIPTION	P&ID DRAWING			OPERATION CONDITIONS				CALIBRATED RING			INSTRUMENT TYPE	MANUFACTURER DETAILS			REFERENCES			REMARKS				
			DWG No.	LOCA TION	REV	Line No.	Fluid	Flow (bbl)	Press (bar/g)	Temp (°C)	Lower	Upper		EU	Process connection size	Electrical Conduit Size	Make	Model	Location Drawing No.		Data Sheet Drawing No.	Hook up Drawing No.		
19	50LBR11 CP305	BFT A EXHAUST STEAM PRESSURE HIGH	TJB59-L1-OFF-C-2103(1/2)	F-11	4	50LBR11 BR010	ES					150	0	0	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5720	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DHU-5720	4	N/A
20	50LBR12 CP305	BFT B EXHAUST STEAM PRESSURE HIGH	TJB59-L1-OFF-C-2103(1/2)	G-11	4	50LBR12 BR010	ES					150	0	0	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5720	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DHU-5720	4	N/A
21	50MAV10 CP305	LUBE OIL PRESSURE LOW (EMERGENCY OIL PUMP START)	TJB59-L1-OFF-C-2125(1/2)	B-11	5	50MAV10 BR005	LOIL					79	1	10	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5722	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DAS-5722	4	N/A
22	50MAV10 CP310	LUBE OIL PRESSURE LOW (SECONDARY MAIN OIL PUMP START)	TJB59-L1-OFF-C-2125(1/2)	B-10	5	50MAV10 BR020	LOIL					79	1	10	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5722	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DAS-5722	4	N/A
23	50MAV52 CP305	TURNING GEAR INTERLOCK PRESSURE HIGH	MAV-M-PID-2125(1/2)	D-8	5	50MAV52 BR005	LOIL					79	0.6	6	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5710	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DHU-5720	4	N/A
24	50MAV60 CP305	TURBINE LUBE OIL PRESSURE LOW 3	MAV-M-PID-2125(1/2)	E-12	5	50MAV60 BR015	LOIL					79	0.6	6	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5710	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DHU-5720	4	N/A
25	50MAV60 CP310	TURBINE LUBE OIL PRESSURE LOW 1	TJB59-L1-OFF-C-2125(1/2)	E-12	5	50MAV60 BR015	LOIL					79	0.6	6	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5710	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DHU-5720	4	N/A
26	50MAV60 CP315	TURBINE LUBE OIL PRESSURE LOW 2	MAV-M-PID-2125(1/2)	E-12	5	50MAV60 BR015	LOIL					79	0.6	6	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5710	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DHU-5720	4	N/A
27	50MAX30 CP302	EOC OIL PRESSURE LOW LOW 1	TJB59-L1-OFF-C-MAX-M-PID-2124	B-8	1	N/A	EO					182	15	150	PS	NPT 1/4(F)	G 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5724	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DAS-5724	4	N/A
28	50MAX30 CP303	EOC OIL PRESSURE LOW LOW 2	TJB59-L1-OFF-C-MAX-M-PID-2124	B-8	1	N/A	EO					182	15	150	PS	NPT 1/4(F)	G 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5724	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DAS-5724	4	N/A
29	50MAX30 CP304	EOC OIL PRESSURE LOW LOW 3	TJB59-L1-OFF-C-MAX-M-PID-2124	B-8	1	N/A	EO					182	15	150	PS	NPT 1/4(F)	G 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5724	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DAS-5724	4	N/A
30	50MKF50 CP301	STATOR COOLING WATER PUMP OUTLET PRESSURE LOW	TJB59-L1-OFF-C-MKF-M-PID-4400	B-2	6	50MKF20 BR050	SCW					95	1	10	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5710	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DHU-5720	4	N/A
31	50MKF50 CP302	STATOR COOLING WATER PUMP OUTLET PRESSURE LOW LOW	TJB59-L1-OFF-C-MKF-M-PID-4400	B-2	6	50MKF20 BR050	SCW					95	1	10	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5710	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DHU-5720	4	N/A
32	50MKF50 CP303	STATOR COOLING WATER GENERATOR INLET PRESSURE LOW LOW 1	TJB59-L1-OFF-C-MKF-M-PID-4400	A-2	6	50MKF50 BR030	SCW					95	0.4	4	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5710	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DHU-5720	4	N/A
33	50MKF50 CP304	STATOR COOLING WATER GENERATOR INLET PRESSURE LOW LOW 2	TJB59-L1-OFF-C-MKF-M-PID-4400	A-2	6	50MKF50 BR030	SCW					95	0.4	4	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5710	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DHU-5720	4	N/A
34	50MKF50 CP305	STATOR COOLING WATER GENERATOR INLET PRESSURE LOW LOW 3	TJB59-L1-OFF-C-MKF-M-PID-4400	A-2	6	50MKF50 BR030	SCW					95	0.4	4	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-3-DAS-5710	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-3-DHU-5720	4	N/A
35	50MKW10 CP301	GENERATOR SEAL OIL VACUUM TANK PRESSURE VACUUM LOW	TJB59-L1-OFF-C-MKW-M-PID-4401	D-4	4	N/A	VAC					79	-1	0	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-MKW-E-SPC-4259	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-MKW-E-SPC-4259	4	N/A
36	50MKW30 CP301	GENERATOR MAIN SEAL OIL PUMP PRESSURE LOW	TJB59-L1-OFF-C-MKW-M-PID-4401	D-4	4	50MKW30 BR010	GSO					79	1.5	15	PS	NPT 1/4(F)	NPT 1/2(F)	CEB3-2X3	NAGANO KEIKI	TJB59-L1-OFF-C-MKW-E-SPC-4259	TJB59-L1-OFF-C-3-DAS-5732	TJB59-L1-OFF-C-MKW-E-SPC-4259	4	N/A





A  
B  
C  
D



				APPD.	<i>S. Horinoki</i>	SCALE	TITLE	SHEET NO.		
				CHKD.	<i>T. Takahashi</i>	1/1			JOINT	A/A
					<i>N. Saichō</i>					
REVISION	DATE	DRAWN	APPD.	DATE	<i>M. Oada</i>	3RD-ANGLE	DWG. NO.			
	SEP. 7 '94	<i>M. Oada</i>	<i>S. Horinoki</i>	JUN. 12 '85			1429-9249-00			



## Specification 2

### Electric characteristics:

Switch	Switching capacity			Safety standard compliance rating	Withstand voltage	Insulation resistance
		Resistance load	Inductive load			
1 contact standard	125V AC	20 A	20 A	AC-15 250V AC 3 A	2000V AC	500V DC 100MΩ or higher
	250V AC	20 A	20 A			
	125V DC	0.5 A	0.05 A	DC-13 125V DC 0.5 A		
	250V DC	0.25 A	0.03 A			
1 contact direct current	125V AC	10 A	6 A	DC-13 125V DC 6 A		
	250V AC	3 A	1.5 A			
	125V DC	10 A	6 A			
	250V DC	3 A	1.5 A			
2 contacts simultaneous operation	125V AC	10 A	6 A	DC-12 125V DC 0.1 A		
	250V AC	10 A	4 A			
	125V DC	0.5 A	0.05 A	DC-13 60V DC 0.1 A		
	250V DC	0.25 A	0.03 A			

·Inductive load: Power factor 0.4 or higher (AC)  
Time constant 7ms and under (DC)  
\* 1 contact direct current: Direct current rating is bigger than standard.

### Pressure range, deadband, withstand pressure and wetted parts material:

Pressure range MPa	Deadband MPa (Adjustable range)	Withstand pressure MPa	Wetted parts material		
			Tank	Bellows	Connecting part
-0.1 to 0	0.003 to 0.02	0.15	SUS316	SUS316L	SUS316
0.01 to 0.1	0.003 to 0.02	0.15			
0.02 to 0.2	0.006 to 0.04	0.3			
0.03 to 0.3	0.009 to 0.06	0.45			
0.04 to 0.4	0.012 to 0.08	0.6			
0.06 to 0.6	0.018 to 0.12	0.9			
0.1 to 1	0.03 to 0.2	1.5			
0.15 to 1.5	0.045 to 0.3	2.25			
0.2 to 2	0.06 to 0.4	3			
0.3 to 3	0.09 to 0.6	4.5			
0.5 to 5	0.15 to 1	7.5			
0.7 to 7	0.21 to 1.4	10.5			
1 to 10	0.3 to 2	15	SUS316		
1.5 to 13	0.75 to 3	21			
1.5 to 15*	0.75 to 3	21			

#### How to choose suitable pressure range

- Suitable pressure range for accurate and stable set value operation: 30% of max.P. or greater
- Pressure range for long life use: Approx. 65% of max.P. or less
- Accurate and long life operation (ideal): Approx. 30 to 65% of max.P.

In the right figure

- Range 1: Selection of both accuracy and longevity
- Range 2: Selection of valuing accuracy
- Range 3: Selection of valuing longevity

#### Recommended switch set point range

- Upper limit type: (10%max.P.+Deadband) to 90%max.P.
- Lower limit type: 10%max.P. to (90%max.P.-Deadband)

\* 1.5 to 15MPa rated pressure range can be made by non-CE compliant specification only.

