	
DOC NUMBER: <b>569-DB7A-AIC-712-008</b>		CLIENT NUMBER: <b>PRD-AIC-DSH-076</b>	
CLIENT: <b>TAKEDA/BAXALTA</b>			
PROJECT: <b>BURITI EPCVM PROJECT</b>			

## DRUG PRODUCT - BMS - DATA SHEET DIFFERENTIAL PRESSURE SWITCH

1	29OCT2021	ISSUE FOR CONSTRUCTION CONSIDERING COMMENTS	MAV	MAF	RSP
0	29JUL2021	ISSUE FOR CONSTRUCTION	JHA	MAF	RSP
A	24-mar-21	60% DD ISSUE	JHA	MAF	RSP
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV

NUMBER: 569-DB7A-AIC-712-008

CLIENT NR: PRD-AIC-DSH-076

TITLE

PRESSURE DIFFERENTIAL SWITCH

SHEET:  
2 de 9

REV.:  
1

### DOCUMENT REVIEW CONTROL

Revision	A	B	0	1	2	3	Revision	A	B	0	1	2	3	Revision	A	B	0	1	2	3
Page							Page							Page						
1	X		X	X			26							51						
2	X		X	X			27							52						
3	X		X	X			28							53						
4	X		X	X			29							54						
5	X		X	X			30							55						
6	X		X	X			31							56						
7	X		X	X			32							57						
8	X		X	X			33							58						
9	X		X	X			34							59						
10	X		X	/			35							60						
11	X		X	/			36							61						
12	/		/	/			37							62						
13							38							63						
14							39							64						
15							40							65						
16							41							66						
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25							50							75						





### REVISION 0 NOTES:

- 1- UPDATE ACCORDING TO P&ID (HVAC AND PROCESS).
- 2- INSERTION OF PROCESS DATA.
- 3- INSERTION OF INSTRUMENT REFERENCE MODELS.

### REVISION 1 NOTES:

- 1- CANCELLED PDS-AHU-7A-2-002, PDS-AHU-7A-4-002





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NUMBER: <b>569-DB7A-AIC-712-008</b>		CLIENT NR: <b>PRD-AIC-DSH-076</b>	
TITLE			SHEET:
<b>PRESSURE DIFFERENTIAL SWITCH</b>			<b>3 de 9</b>
			REV.: <b>1</b>
<b>REFERENCE DOCUMENTS</b>			

7A-M-4-5-21	DRUG PRODUCT - AFD - AHU-7A-1
7A-M-4-5-22	DRUG PRODUCT - AFD - AHU-7A-2
7A-M-4-5-23	DRUG PRODUCT - AFD - AHU-7A-3
7A-M-4-5-24	DRUG PRODUCT - AFD - AHU-7A-4
7A-M-4-5-25	DRUG PRODUCT - AFD - AHU-7A-5
7A-M-4-5-26	DRUG PRODUCT - AFD - AHU-7A-6
PRD-AIC-LIS-014	DRUG PRODUCT - BMS - INSTRUMENT INDEX
PRD-PIP-TSP-501	PIPE CLASS AND SPECIFICATION - TECHNICAL SPECIFICATION
PRD-AIC-LIS-046	INTEGRATED PROJECT SERVICES - INSTRUMENT SUGGESTED SUPPLIER LIST





<b>GENERAL NOTES</b>
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- 1- Provide calibration certificate issued by INMETRO or by organ accredited by it.
  
- 2- The identification plates must be made of AISI 304 stainless steel permanently attached to the instruments with a tag and serial number. The serial number of the instrument, when possible, can be recorded on the body itself.
  
- 3- The manufacturer must provide rear protection disc.

 				 				
NUMBER: 569-DB7A-AIC-712-008				CLIENT NR: PRD-AIC-DSH-076				
TITLE						SHEET: 4 de 9		
PRESSURE DIFFERENTIAL SWITCH						REV.: 1		
GENERAL	1	INSTRUMENT TAG NUMBER		PDS-AHU-7A-1-001				
	2	SERVICE		DIFFERENTIAL PRESSURE IN FILTER F9				
	3	P&ID		7A-M-4-5-21				
	4	PIPE LINE	EQUIPMENT NUMBER	-	7A-AHU-7A-1			
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		Note 1				
ELEMENT	9	TYPE OF MEASUREMENT		DOUBLE DIAPHRAGM				
	10	MOUNTING		LOCAL				
	11	MATERIAL CASE		ALUMINUM (COOPER FREE)				
	12	CONEX. PROCES. / ACESS.	CONNECTION POSITION	FOR TUBE PLASTIC 6mm	UNDERSIDE			
	13	RANGE	DIFFERENTIAL	200~1000 Pa				
	14	FIXED / ADJUSTABLE DIFFERENTIAL		(Note 1) Pa				
	15	BODY MATERIAL		SILICONE				
	16	RANGE	RESOLUTION	(Note 1) Pa				
SWITCH	17	TYPE		HERMETICALLY SEALED				
	18	AMOUNT		1				
	19	NUMBER OF CONTACTS		1 SPDT				
	20	LOAD TYPE		RESISTIVE				
	21	CONTACTS CAPACITY		1,5A / 250Vac				
	22	CONT / PRESS ACTION UNDER		-				
	23	CONT / PRESS ACTION DOWN		OPEN				
	24	ELECTRICAL CONNECTION		M20x1,5 (				
ACCESSORIES	38	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 2)				
	25	INSTALLER KIT FOR DUCT OU EQUIPMENT		YES FOR EQUIPMENT (HVAC)				
	26	PROBE	TUBING	YES - FLANGEDED	YES- PLASTIC			
	27	SCREWS	INCREMENT DAMPER	YES - FOR FIXING THE PROBE	YES			
	28	LOCK VALVE		NO				
	29							
	30							
	31							
	32							
	33							
	34							
	35							
	36							
	37							
	39							
OPERATING CONDITIONS	40	FLUID	PHYSICAL STATE		AIR		AIR	
	41	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	15	~	21	°C
	42	PRESSURE OPERATION	NORMAL	MAXIMUM	(Note 1) Pa			
	43	DIFFERENTIAL PRESSURE	NORMAL	MAXIMUM	(Note 1) Pa		(Note 1) Pa	
	44	DESIGN PRESSURE	DESIGN TEMPERATURE		(Note 1) Pa		(Note 1) °C	
	45	VISCOSITY @ OPERATING CONDITION		cP				
	46	DENSITY @ OPERATING CONDITION		kg/m³				
	47	SUSPENDED SOLIDS (%)		NO				
	48	SOLIDIFIES AT ROOM TEMPERATURE		NO				
	49	M.M. / Z / Cp/Cv		.... / .... / .....				
	50	MANUFACTURER		Honeywell				
	51	MODEL		DPS 1000				





## NOTES:

- 1- The HVAC HAS SET THE MODEL AND MANUFACTURER, AND THE ADJUSTMENT OF THE ACTUATION POINTS WILL BE INSERTED AT THE TIME OF INSTALLATION TO THE MACHINE.

 				 				
NUMBER: 569-DB7A-AIC-712-008				CLIENT NR: PRD-AIC-DSH-076				
TITLE						SHEET: 5 de 9		
PRESSURE DIFFERENTIAL SWITCH						REV.: 1		
GENERAL	1	INSTRUMENT TAG NUMBER		PDS-AHU-7A-2-001				
	2	SERVICE		DIFFERENTIAL PRESSURE IN FILTER F7				
	3	P&ID		7A-M-4-5-22				
	4	PIPE LINE	EQUIPMENT NUMBER	-	7A-AHU-7A-2			
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		Note 1				
ELEMENT	9	TYPE OF MEASUREMENT		DOUBLE DIAPHRAGM				
	10	MOUNTING		LOCAL				
	11	MATERIAL CASE		ALUMINUM (COOPER FREE)				
	12	CONEX. PROCES. / ACESS.	CONNECTION POSITION	FOR TUBE PLASTIC 6mm	UNDERSIDE			
	13	RANGE	DIFFERENTIAL	200~1000 Pa				
	14	FIXED / ADJUSTABLE DIFFERENTIAL		(Note 1) Pa				
	15	BODY MATERIAL		SILICONE				
	16	RANGE	RESOLUTION	(Note 1) Pa				
SWITCH	17	TYPE		HERMETICALLY SEALED				
	18	AMOUNT		1				
	19	NUMBER OF CONTACTS		1 SPDT				
	20	LOAD TYPE		RESISTIVE				
	21	CONTACTS CAPACITY		1,5A / 250Vac				
	22	CONT / PRESS ACTION UNDER		-				
	23	CONT / PRESS ACTION DOWN		OPEN				
	24	ELECTRICAL CONNECTION		M20x1,5 (				
ACCESSORIES	38	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 2)				
	25	INSTALLER KIT FOR DUCT OU EQUIPMENT		YES FOR EQUIPMENT (HVAC)				
	26	PROBE	TUBING	YES - FLANGEDED	YES- PLASTIC			
	27	SCREWS	INCREMENT DAMPER	YES - FOR FIXING THE PROBE	YES			
	28	LOCK VALVE		NO				
	29							
	30							
	31							
	32							
	33							
	34							
	35							
	36							
	37							
	39							
OPERATING CONDITIONS	40	FLUID	PHYSICAL STATE		AIR		AIR	
	41	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	15	~	21	°C
	42	PRESSURE OPERATION	NORMAL	MAXIMUM	(Note 1) Pa			
	43	DIFFERENTIAL PRESSURE	NORMAL	MAXIMUM	(Note 1) Pa		(Note 1) Pa	
	44	DESIGN PRESSURE	DESIGN TEMPERATURE		(Note 1) Pa		(Note 1) °C	
	45	VISCOSITY @ OPERATING CONDITION		cP				
	46	DENSITY @ OPERATING CONDITION		kg/m³				
	47	SUSPENDED SOLIDS (%)		NO				
	48	SOLIDIFIES AT ROOM TEMPERATURE		NO				
	49	M.M. / Z / Cp/Cv		.... / ..... / .....				
	50	MANUFACTURER		Honeywell				
	51	MODEL		DPS 1000				





NOTES:

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NUMBER: 569-DB7A-AIC-712-008				CLIENT NR: PRD-AIC-DSH-076				
TITLE						SHEET: 6 de 9		
PRESSURE DIFFERENTIAL SWITCH						REV.: 1		
GENERAL	1	INSTRUMENT TAG NUMBER		PDS-AHU-7A-3-001				
	2	SERVICE		DIFFERENTIAL PRESSURE IN FILTER F9				
	3	P&ID		7A-M-4-5-23				
	4	PIPE LINE	EQUIPMENT NUMBER	-	7A-AHU-7A-3			
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		Note 1				
ELEMENT	9	TYPE OF MEASUREMENT		DOUBLE DIAPHRAGM				
	10	MOUNTING		LOCAL				
	11	MATERIAL CASE		ALUMINUM (COOPER FREE)				
	12	CONEX. PROCES. / ACESS.	CONNECTION POSITION	FOR TUBE PLASTIC 6mm	UNDERSIDE			
	13	RANGE	DIFFERENTIAL	200~1000 Pa				
	14	FIXED / ADJUSTABLE DIFFERENTIAL		(Note 1) Pa				
	15	BODY MATERIAL		SILICONE				
	16	RANGE	RESOLUTION	(Note 1) Pa				
SWITCH	17	TYPE		HERMETICALLY SEALED				
	18	AMOUNT		1				
	19	NUMBER OF CONTACTS		1 SPDT				
	20	LOAD TYPE		RESISTIVE				
	21	CONTACTS CAPACITY		1,5A / 250Vac				
	22	CONT / PRESS ACTION UNDER		-				
	23	CONT / PRESS ACTION DOWN		OPEN				
	24	ELECTRICAL CONNECTION		M20x1,5 (				
ACCESSORIES	38	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 2)				
	25	INSTALLER KIT FOR DUCT OU EQUIPMENT		YES FOR EQUIPMENT (HVAC)				
	26	PROBE	TUBING	YES - FLANGEDED	YES- PLASTIC			
	27	SCREWS	INCREMENT DAMPER	YES - FOR FIXING THE PROBE	YES			
	28	LOCK VALVE		NO				
	29							
	30							
	31							
	32							
	33							
	34							
	35							
	36							
	37							
	39							
OPERATING CONDITIONS	40	FLUID	PHYSICAL STATE		AIR		AIR	
	41	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	15	~	21	°C
	42	PRESSURE OPERATION	NORMAL	MAXIMUM	(Note 1) Pa			
	43	DIFFERENTIAL PRESSURE	NORMAL	MAXIMUM	(Note 1) Pa		(Note 1) Pa	
	44	DESIGN PRESSURE	DESIGN TEMPERATURE		(Note 1) Pa		(Note 1) °C	
	45	VISCOSITY @ OPERATING CONDITION		cP				
	46	DENSITY @ OPERATING CONDITION		kg/m³				
	47	SUSPENDED SOLIDS (%)		NO				
	48	SOLIDIFIES AT ROOM TEMPERATURE		NO				
	49	M.M. / Z / Cp/Cv		.... / .... / .....				
	50	MANUFACTURER		Honeywell				
	51	MODEL		DPS 1000				





NOTES:

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NUMBER: 569-DB7A-AIC-712-008				CLIENT NR: PRD-AIC-DSH-076				
TITLE						SHEET: 7 de 9		
PRESSURE DIFFERENTIAL SWITCH						REV.: 1		
GENERAL	1	INSTRUMENT TAG NUMBER		PDS-AHU-7A-4-001				
	2	SERVICE		DIFFERENTIAL PRESSURE IN FILTER F9				
	3	P&ID		7A-M-4-5-24				
	4	PIPE LINE	EQUIPMENT NUMBER	-	7A-AHU-7A-4			
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		Note 1				
ELEMENT	9	TYPE OF MEASUREMENT		DOUBLE DIAPHRAGM				
	10	MOUNTING		LOCAL				
	11	MATERIAL CASE		ALUMINUM (COOPER FREE)				
	12	CONEX. PROCES. / ACESS.	CONNECTION POSITION	FOR TUBE PLASTIC 6mm	UNDERSIDE			
	13	RANGE	DIFFERENTIAL	200~1000 Pa				
	14	FIXED / ADJUSTABLE DIFFERENTIAL		(Note 1) Pa				
	15	BODY MATERIAL		SILICONE				
	16	RANGE	RESOLUTION	(Note 1) Pa				
SWITCH	17	TYPE		HERMETICALLY SEALED				
	18	AMOUNT		1				
	19	NUMBER OF CONTACTS		1 SPDT				
	20	LOAD TYPE		RESISTIVE				
	21	CONTACTS CAPACITY		1,5A / 250Vac				
	22	CONT / PRESS ACTION UNDER		-				
	23	CONT / PRESS ACTION DOWN		OPEN				
	24	ELECTRICAL CONNECTION		M20x1,5 (				
ACCESSORIES	38	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 2)				
	25	INSTALLER KIT FOR DUCT OU EQUIPMENT		YES FOR EQUIPMENT (HVAC)				
	26	PROBE	TUBING	YES - FLANGEDED	YES- PLASTIC			
	27	SCREWS	INCREMENT DAMPER	YES - FOR FIXING THE PROBE	YES			
	28	LOCK VALVE		NO				
	29							
	30							
	31							
	32							
	33							
	34							
	35							
	36							
	37							
	39							
OPERATING CONDITIONS	40	FLUID	PHYSICAL STATE		AIR		AIR	
	41	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	15	~	21	°C
	42	PRESSURE OPERATION	NORMAL	MAXIMUM	(Note 1) Pa			
	43	DIFFERENTIAL PRESSURE	NORMAL	MAXIMUM	(Note 1) Pa		(Note 1) Pa	
	44	DESIGN PRESSURE	DESIGN TEMPERATURE		(Note 1) Pa		(Note 1) °C	
	45	VISCOSITY @ OPERATING CONDITION		cP				
	46	DENSITY @ OPERATING CONDITION		kg/m³				
	47	SUSPENDED SOLIDS (%)		NO				
	48	SOLIDIFIES AT ROOM TEMPERATURE		NO				
	49	M.M. / Z / Cp/Cv		.... / .... / .....				
	50	MANUFACTURER		Honeywell				
	51	MODEL		DPS 1000				

NOTES:





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NUMBER: 569-DB7A-AIC-712-008				CLIENT NR: PRD-AIC-DSH-076				
TITLE						SHEET: 8 de 9		
PRESSURE DIFFERENTIAL SWITCH						REV.: 1		
GENERAL	1	INSTRUMENT TAG NUMBER		PDS-AHU-7A-5-001				
	2	SERVICE		DIFFERENTIAL PRESSURE IN FILTER F9				
	3	P&ID		7A-M-4-5-25				
	4	PIPE LINE	EQUIPMENT NUMBER	-		7A-AHU-7A-5		
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		Note 1				
ELEMENT	9	TYPE OF MEASUREMENT		DOUBLE DIAPHRAGM				
	10	MOUNTING		LOCAL				
	11	MATERIAL CASE		ALUMINUM (COOPER FREE)				
	12	CONEX. PROCES. / ACESS.	CONNECTION POSITION	FOR TUBE PLASTIC 6mm		UNDERSIDE		
	13	RANGE	DIFFERENTIAL	200~1000 Pa				
	14	FIXED / ADJUSTABLE DIFFERENTIAL		(Note 1) Pa				
	15	BODY MATERIAL		SILICONE				
	16	RANGE	RESOLUTION	(Note 1) Pa				
SWITCH	17	TYPE		HERMETICALLY SEALED				
	18	AMOUNT		1				
	19	NUMBER OF CONTACTS		1 SPDT				
	20	LOAD TYPE		RESISTIVE				
	21	CONTACTS CAPACITY		1,5A / 250Vac				
	22	CONT / PRESS ACTION UNDER		-				
	23	CONT / PRESS ACTION DOWN		OPEN				
	24	ELECTRICAL CONNECTION		M20x1,5 (				
ACCESSORIES	38	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 2)				
	25	INSTALLER KIT FOR DUCT OU EQUIPMENT		YES FOR EQUIPMENT (HVAC)				
	26	PROBE	TUBING	YES - FLANGEDED		YES- PLASTIC		
	27	SCREWS	INCREMENT DAMPER	YES - FOR FIXING THE PROBE		YES		
	28	LOCK VALVE		NO				
	29							
	30							
	31							
	32							
	33							
	34							
	35							
	36							
	37							
	39							
OPERATING CONDITIONS	40	FLUID	PHYSICAL STATE		AIR		AIR	
	41	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	15	~	21	°C
	42	PRESSURE OPERATION	NORMAL	MAXIMUM	(Note 1) Pa			
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	44	DESIGN PRESSURE	DESIGN TEMPERATURE		(Note 1) Pa		(Note 1) °C	
	45	VISCOSITY @ OPERATING CONDITION		cP				
	46	DENSITY @ OPERATING CONDITION		kg/m³				
	47	SUSPENDED SOLIDS (%)		NO				
	48	SOLIDIFIES AT ROOM TEMPERATURE		NO				
	49	M.M. / Z / Cp/Cv		.... / .... / .....				
	50	MANUFACTURER		Honeywell				
	51	MODEL		DPS 1000				

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NUMBER: 569-DB7A-AIC-712-008				CLIENT NR: PRD-AIC-DSH-076				
TITLE						SHEET: 9 de 9		
PRESSURE DIFFERENTIAL SWITCH						REV.: 1		
GENERAL	1	INSTRUMENT TAG NUMBER		PDS-AHU-7A-6-001				
	2	SERVICE		DIFFERENTIAL PRESSURE IN FILTER F9				
	3	P&ID		7A-M-4-5-26				
	4	PIPE LINE	EQUIPMENT NUMBER	-		7A-AHU-7A-6		
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		Note 1				
ELEMENT	9	TYPE OF MEASUREMENT		DOUBLE DIAPHRAGM				
	10	MOUNTING		LOCAL				
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	13	RANGE	DIFFERENTIAL	200~1000 Pa				
	14	FIXED / ADJUSTABLE DIFFERENTIAL		(Note 1) Pa				
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	16	RANGE	RESOLUTION	(Note 1) Pa				
SWITCH	17	TYPE		HERMETICALLY SEALED				
	18	AMOUNT		1				
	19	NUMBER OF CONTACTS		1 SPDT				
	20	LOAD TYPE		RESISTIVE				
	21	CONTACTS CAPACITY		1,5A / 250Vac				
	22	CONT / PRESS ACTION UNDER		-				
	23	CONT / PRESS ACTION DOWN		OPEN				
	24	ELECTRICAL CONNECTION		M20x1,5 (				
ACCESSORIES	25	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 2)				
	25	INSTALLER KIT FOR DUCT OU EQUIPMENT		YES FOR EQUIPMENT (HVAC)				
	26	PROBE	TUBING	YES - FLANGEDED		YES- PLASTIC		
	27	SCREWS	INCREMENT DAMPER	YES - FOR FIXING THE PROBE		YES		
	28	LOCK VALVE		NO				
	29							
	30							
	31							
	32							
	33							
	34							
	35							
	36							
	37							
	39							
OPERATING CONDITIONS	40	FLUID	PHYSICAL STATE		AIR		AIR	
	41	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	15	~	21	°C
	42	PRESSURE OPERATION	NORMAL	MAXIMUM	(Note 1) Pa			
	43	DIFFERENTIAL PRESSURE	NORMAL	MAXIMUM	(Note 1) Pa		(Note 1) Pa	
	44	DESIGN PRESSURE	DESIGN TEMPERATURE		(Note 1) Pa		(Note 1) °C	
	45	VISCOSITY @ OPERATING CONDITION		cP				
	46	DENSITY @ OPERATING CONDITION		kg/m³				
	47	SUSPENDED SOLIDS (%)		NO				
	48	SOLIDIFIES AT ROOM TEMPERATURE		NO				
	49	M.M. / Z / Cp/Cv		.... / .... / .....				
	50	MANUFACTURER		Honeywell				
	51	MODEL		DPS 1000				

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