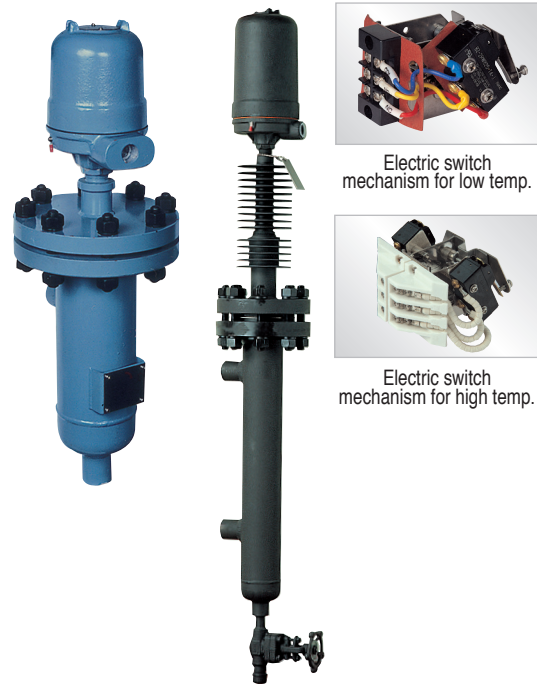


Level Switches

Float Operated Type Level Switch

MODEL:OMS Series



Electric switch mechanism for low temp.

Electric switch mechanism for high temp.

ELECTRICAL SWITCH MECHANISM

- Dry contact switches are recommended for critical environmental conditions.
- Standard switch mechanisms are offered in rugged stainless steel construction.
- Dry contact mechanisms are supplied in both SPDT & DPDT. Generally a maximum of two mechanisms per single control are available as standard.

FEATURES

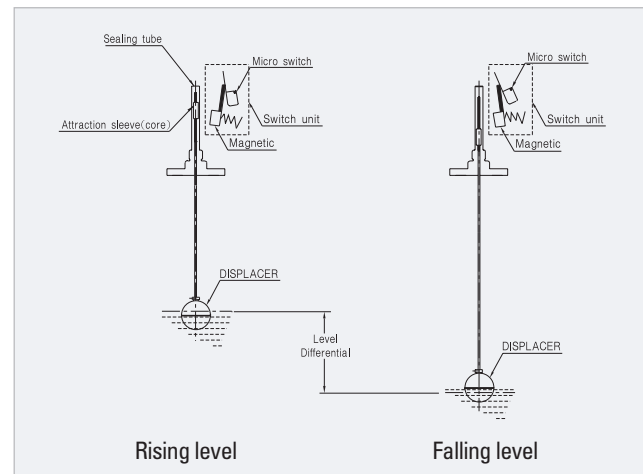
- High load carrying capacity
- Environmental safety
- Vibration resistance

OPERATING PRINCIPLE

This level switch consists of displacer, switch unit in which micro switch and magnetic are assembled. The operation is based upon simple buoyancy. Immersion of the displacer in the liquid results in buoyancy force change, which moves the attraction sleeve upward or downward. Simultaneously, the contact of micro switch is changed by magnetic force as the attraction sleeve is in the field of magnet force. This principle allows adjustment of the switching point up to 15mm by moving the switch unit position.

Model number code system

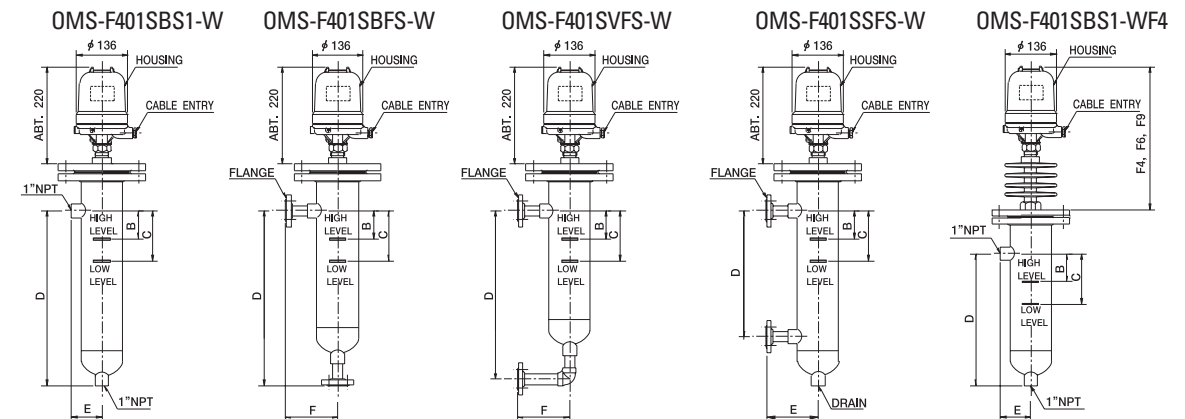
OMS	-	-	-	-	-
• Main application					• Radiation fin
F401					FIN
F402					Temp. range
F301					Not provided
F302					0(T)110
S401					F4
S301					4Wings
S302					110(T)200
S303					F6
SF					6Wings
TF					200(T)250
Connection method					F9
SS					9Wings
SB					250(T)310
SV					
Switch housing					
W					W : Weather proof(IP56)
E					E : Explosion proof(Exd CT6)
Connection size					
S1					S1 : 1" Socket weld
S1 1/2					S1 1/2 : 1-1/2" Socket weld
S2					S2 : 2" Socket weld
F1					F1 : JIS 5K 25A
F2					F2 : JIS 16K 25A
FS					FS : Special flange (ANSI, DIN)



Standard model and specification

Model	Chamber material and pipe size	Max. No. of switch mechan.	Control press. rating				Minimum liquid Sp.Gr	Switch contact rating	Switch contact type
			Psig		Bars				
			100.F	750.F	38.C	400.C Max.			
OMS-F401	Carbon steel (4")	2	285	95	20	7	0.57	120VAC, 15A	SPDT
OMS-F402	Carbon steel (4")	2	600	450	41	31	0.65	120VAC, 15A	SPDT
OMS-F301	Carbon steel (3")	1	285	95	20	7	0.67	120VAC, 15A	SPDT
OMS-F302	Carbon steel (3")	1	350	260	24	18	0.67	120VAC, 15A	SPDT
OMS-S401	Carbon steel (4")	2	600	450	41	31	0.65	120VAC, 15A	SPDT
OMS-S301	Carbon steel (3")	1	300	225	21	16	0.57	120VAC, 15A	SPDT
OMS-S302	Carbon steel (3")	1	350	260	24	18	0.67	120VAC, 15A	SPDT
OMS-SF	Carbon steel	1	230	95	16	7	0.50	120VAC, 15A	SPDT
OMS-TF	Carbon steel	1	225	165	16	11	0.81	120VAC, 15A	SPDT
OMS-S303	Carbon steel	1	285	95	20	7	0.70	120VAC, 15A	SPDT

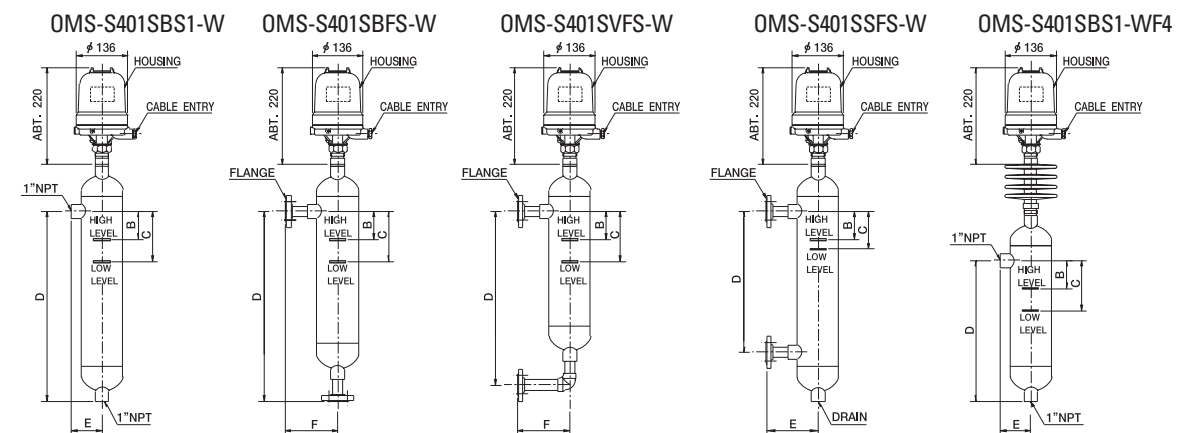
OUTLINE / DIMENSIONS FOR FLANGE EXTERNAL CHAMBER TYPE



Model	B(1)		C(1)		D(2)		E(2)		F	
	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.
OMS-F401	3	76	4	102	10 1/2"	267	3 11/16"	94	6 1/2"	165
OMS-F402	2 1/2"	64	3 1/4"	83	10 1/2"	267	3 11/16"	94	6 1/2"	165
OMS-F301	3	76	4 1/4"	108	9	229	3 3/16"	81	6	152
OMS-F302	3	76	4 1/4"	108	9	229	3 3/16"	81	6	152

Height of housing(single switch function)			
Number of radiation fins			
0(F0)	4(F4)	6(F6)	9(F9)
250	357	407	467

OUTLINE / DIMENSIONS FOR SEALED EXTERNAL CHAMBER TYPE



Model	B(1)		C(1)		D(2)		E(2)		F	
	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.
OMS-S401	2 1/4"	57	3"	76	10 1/2"	267	3 11/16"	94	6 1/2"	165
OMS-S301	2 5/8"	67	3 1/2"	89	10 1/2"	267	3 11/16"	94	6	152
OMS-S302	2 1/2"	64	3 3/4"	95	9"	229	3 3/16"	81	6	152

CONTACT FORM

MAIN MODEL	CONTACT OPERATION	CONTACT CONFIGURATION	
		SPDT	DPDT
OMS SERIES			
NUMBER OF SWITCH UNIT			
ONE(1)			

NOTE

- 1) Nominal dimensions depend on minimum differential setting, minimum liquid specific gravity and single switch function.
- 2) Dimensions are for 1" NPT or S.W. type only.

Manufacturing Line Authorized by the Quality

