

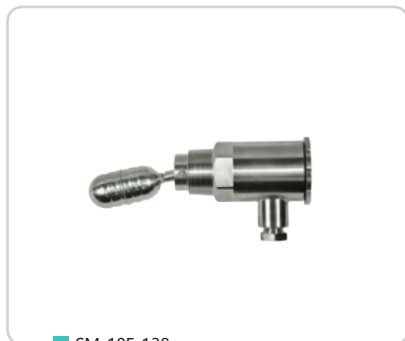
Side-mounted Float Level Switch

SM



SM series side-mounted float level switch is suitable for liquid level control of open or bearing pressure container in industrial process. When the liquid level reaches to high or low limit, relay contact point can be as signal alarm device or the switch in electronic pump circuit. It is used in water treatment, petrochemical, furnace, shipyard etc. It is widely applicable in the condition of high viscosity, high pressure, high temperature because of it is flexible structure, and it can replace the UQK series products.

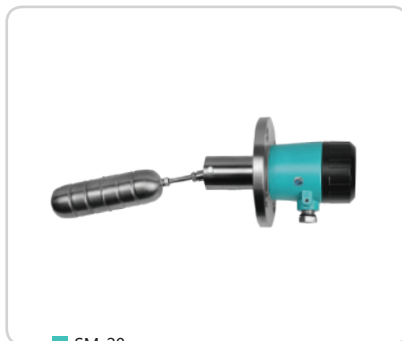
Product series



■ SM-10E-138



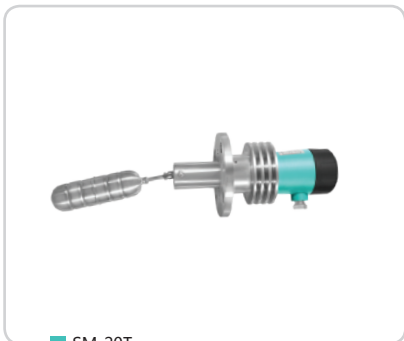
■ SM-10E



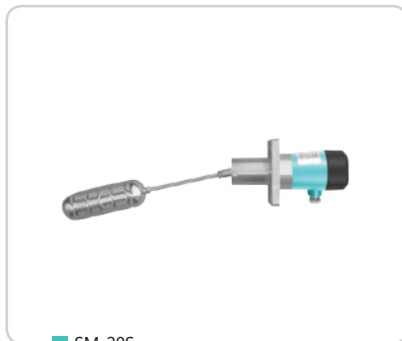
■ SM-20



■ SM-20L



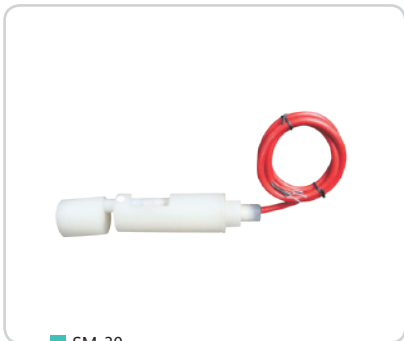
■ SM-20T



■ SM-20S



■ UQK-02

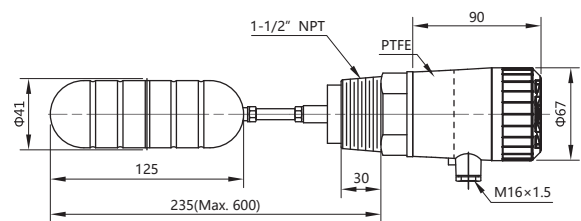
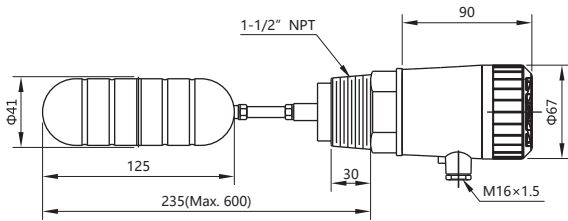


■ SM-30

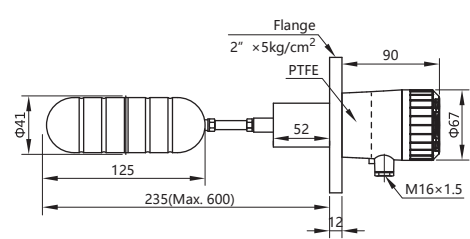
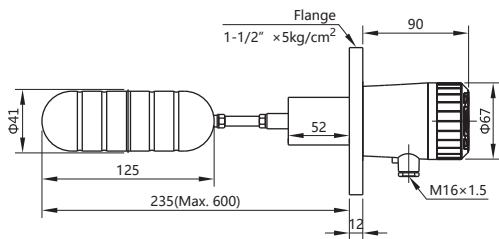


■ SM-30F

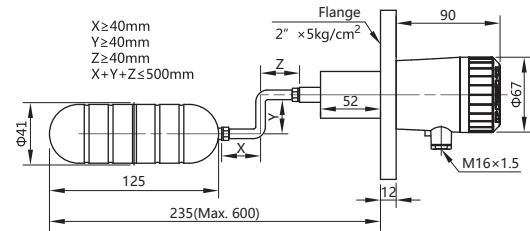
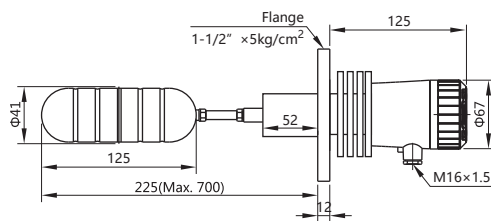
Product dimensions & parameters (reference)



Model:	SM-10	Model:	SM-10T
Type:	standard thread type	Type:	mid-temp thread type
Material:	SUS304 or SUS316	Material:	SUS304 or SUS316
Contact capacity:	5A/250VAC	Contact capacity:	1.5A/250VAC
Contact way:	one set SPDT	Contact way:	one set SPDT
Junction box:	AL alloy baking IP65	Junction box:	AL alloy baking IP65
Connection:	1-1/2"NPT (customized)	Connection:	1-1/2"NPT (customized)
Working temperature:	-30~85°C	Working temperature:	-30~200°C
Suitable gravity:	0.55g/cm ³	Suitable gravity:	0.55g/cm ³
Installation method:	horizontal	Installation method:	horizontal

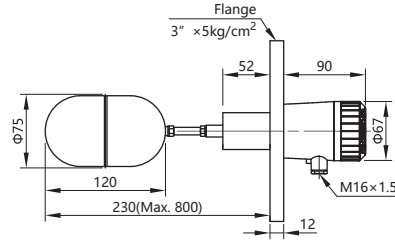
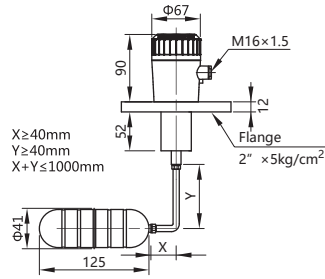


Model:	SM-20	Model:	SM-20T
Type:	standard flange type	Type:	mid-temp flange type
Material:	SUS304 or SUS316	Material:	SUS304 or SUS316
Contact capacity:	5A/250VAC	Contact capacity:	1.5A/250VAC
Contact way:	one set SPDT	Contact way:	one set SPDT
Junction box:	AL alloy baking IP65	Junction box:	AL alloy baking IP65
Connection:	1-1/2"x5kg/cm ² (customized)	Connection:	2"x5kg/cm ² (customized)
Working temperature:	-30~85°C	Working temperature:	-30~200°C
Suitable gravity:	0.55g/cm ³	Suitable gravity:	0.55g/cm ³
Installation method:	horizontal	Installation method:	horizontal

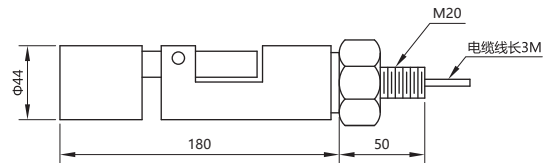
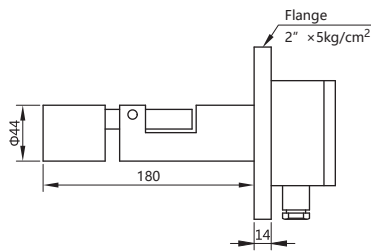


Model:	SM-20HT	Model:	SM-20Z
Type:	high-temp flange type	Type:	Z type
Material:	SUS304 or SUS316	Material:	SUS304 or SUS316
Contact capacity:	5A/250VAC	Contact capacity:	5A/250VAC
Contact way:	one set SPDT	Contact way:	one set SPDT
Junction box:	AL alloy baking IP65	Junction box:	AL alloy baking IP65
Connection:	1-1/2"x5kg/cm ² (customized)	Connection:	2"x5kg/cm ² (customized)
Working temperature:	-30~300°C	Working temperature:	-30~130°C
Suitable gravity:	0.55g/cm ³	Suitable gravity:	0.55g/cm ³
Installation method:	horizontal	Installation method:	horizontal

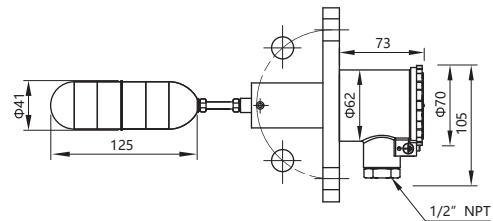
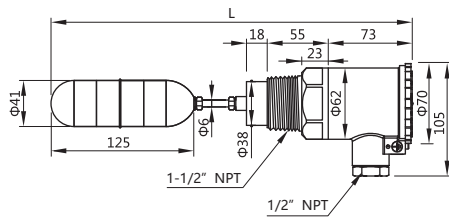
Product dimensions & parameters (reference)



Model:	SM-20L	Model:	SM-20B
Type:	top flange type	Type:	standard flange type
Material:	SUS304 or SUS316	Material:	SUS304 or SUS316
Contact capacity:	5A/250VAC	Contact capacity:	5A/250VAC
Contact way:	one set SPDT	Contact way:	one set SPDT
Junction box:	AL alloy baking IP65	Junction box:	AL alloy baking IP65
Connection:	2"x5kg/cm ² (customized)	Connection:	3"x5kg/cm ² (customized)
Working temperature:	-30~85°C	Working temperature:	-30~85°C
Suitable gravity:	0.55g/cm ³	Suitable gravity:	0.55g/cm ³
Installation method:	vertical	Installation method:	horizontal



Model:	SM-30F	Model:	SM-30
Type:	corrosion-proof flange type	Type:	corrosion-proof thread type
Material:	PP or PVDF	Material:	PP or PVDF
Contact capacity:	5A/250VAC	Contact capacity:	5A/250VAC
Contact way:	one set SPDT	Contact way:	one set SPDT
Junction box:	ABS plastic junction box IP65	Junction box:	direct outgoing line IP65
Connection:	2"x5kg/cm ² (customized)	Connection:	M20x1.5 (customized)
Working temperature:	PP-30~85°C、PVDF-30~160°C	Working temperature:	PP-30~85°C、PVDF-30~160°C
Suitable gravity:	0.6g/cm ³	Suitable gravity:	0.6g/cm ³
Installation method:	horizontal	Installation method:	horizontal

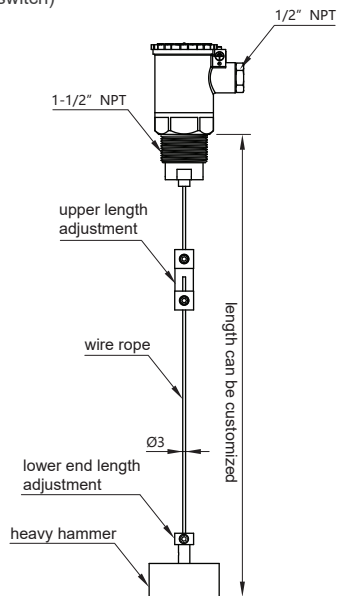


Model:	SM-10E	Model:	SM-20E
Type:	explosion-proof thread type	Type:	explosion-proof flange type
Material:	SUS304 or SUS316	Material:	SUS304 or SUS316
Contact capacity:	5A/250VAC	Contact capacity:	5A/250VAC
Contact way:	one set SPDT	Contact way:	one set SPDT
Junction box:	stainless steel explosion-proof IP65	Junction box:	stainless steel explosion-proof IP65
Connection:	1-1/2"NPT (customized)	Connection:	1-1/2"x5kg/cm ² (customized)
Working temperature:	-30~85°C	Working temperature:	-30~85°C
Suitable gravity:	0.55g/cm ³	Suitable gravity:	0.55g/cm ³
Installation method:	horizontal (explosion proof grade ExdIICT6)	Installation method:	horizontal (explosion proof grade ExdIICT6)

Product dimensions & parameters (reference)

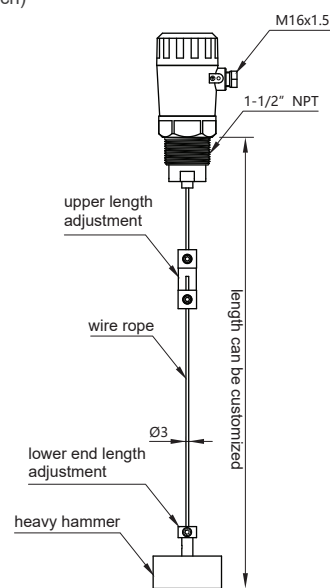
Patent No:201520252758.4

Top mounted high viscosity adjusted liquid level switch (Hard floating roof flexible limit switch)



Patent No:201520252758.4

Top mounted high viscosity adjusted liquid level switch (Hard floating roof flexible limit switch)



Model:	SM-10EF	Model:	SM-10F
Type:	explosion-proof thread type	Type:	standard thread type
Material:	SUS304 or SUS316	Material:	SUS304 or SUS316
Contact capacity:	1A/250VAC	Contact capacity:	1A/250VAC
Contact way:	one set SPDT	Contact way:	one set SPDT
Junction box:	stainless steel explosion-proof IP65	Junction box:	AL alloy baking IP65
Connection:	1-1/2" (customized)	Connection:	1-1/2" (customized)
Working temperature:	-30~300°C (range optional)	Working temperature:	-30~300°C (range optional)
Suitable gravity:	-30~70°C	Suitable gravity:	-30~70°C
Installation method:	vertical	Installation method:	vertical

Working principle

To use of liquid buoyancy principle. When the floating ball due to buoyancy and moving up and down, the magnetic reed switch in the junction box will be action when it is influence by the arm end magnetic. The same principle is used in the micro switch device. To use of magnets and magnet micro switch arm end of mutual exclusion movement to push the micro switch action.

Product purpose

SM series float level switch is suitable for liquid level control of open or bearing pressure container in industrial process. When the liquid level reaches to high or low limit, relay contact point can be as signal alarm device or the switch in electronic pump circuit.

Selection table

Side-mounted float level switch

10:Thread type;**10T**:Normal temperature thread type;**10E**:Thread & explosion-proof type;**10F**:Top mounted thread type;**10EF**:Top mounted thread explosion-proof type;**20**:Flange type;**20T**:Normal temperature flange type;**20HT**:High temperature flange type;**20Z**:Flange with Z probe;**20L**:Flange with L probe;**20B**:Flange with high viscosity type;**20E**:Flange with explosion-proof type;**30**:Thread with anti-corrosion type;**30F**:Flange with anti-corrosion type

Product series	Structure	
SM	-□□□□	