



principle characteristics

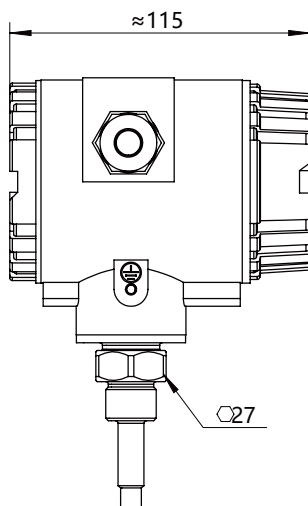
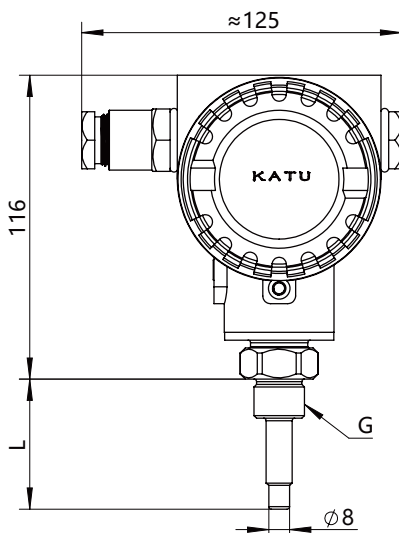
Based on the thermal principle, the sealed probe contains two resistors, one of which is heated as the detection resistance and the other is not heated as the reference resistance. When the medium flows, the heat on the heating resistance is taken away and the resistance value is changed.

No moving parts, maintenance-free, easy to install, one type is suitable for a variety of pipe diameter requirements, switch volume continuously adjustable, very low pressure loss, compact structure, LED display flow trend and switch status.

product application

Gas-liquid dual, can be used for pneumatic and hydraulic systems, can be used for circulating water, cutting fluid and lubricating oil break detection, and pump idling protection.

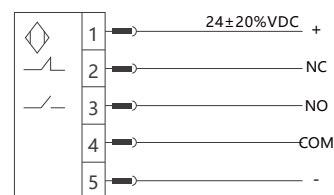
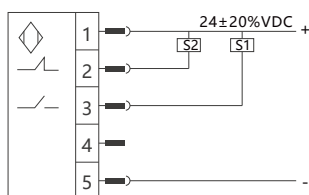
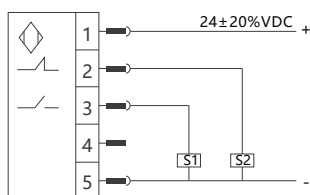
Size chart (mm)



Technical parameters

- ◇Set the range: 1.. 150cm/s(water), 3... 300 cm/s (oil),20... 2000cm/s (air)
- ◇Signal output: PNP,NPN, relay, Normally open + normally closed (SPDT)
- ◇The power supply: 24V±20%VDC or 230V±15%VAC
- ◇Current is switched on: Maximum 400mA(PNP or NPN), maximum 4A (relay)
- ◇No-load current: Maximum 80mA
- ◇Flow indicator: LED row (8)
- ◇Set way: Potentiometer setting
- ◇Pressure range: 100bar
- ◇The temperature gradient: ≤4°C/s
- ◇The response time: 1-13s,Typical values 2s
- ◇Initialization time: 8s
- ◇Electric protection: Invert, short circuit, overload protection
- ◇Protection grade: IP67
- ◇Medium temperature: -20...80°C
- ◇The environment temperature: -20...80°C
- ◇Storage temperature: -20...100°C
- ◇Connection mode: Explosion-proof joints, cable fasteners
- ◇material:
 - probe: Stainless steel
 - shell: Cast aluminum
- ◇Explosion-proof grade: Ex d II CT6

PNP(SPDT)



F S800-	G 12M	DC	C	M	S	-	detailed
FS800-							FS800 series electronic explosion-proof flow switches
	G12M						Joint thread G1/2 external thread
	G14M						Joint thread G1/4 external thread
	R12M						Joint thread RC1/2 external thread
	R14M						Joint thread RC1/4 external thread
	M18K						Joint threadM18×1.5 Internal thread It is convenient to use with installation accessories to rotate and adjust the installation direction on site
		DC					DC24V±20% power supply
			P				PNP output
			N				NPN output
			C				Relay output
				M			Electrical connection:M20*1.5
				Z			Electrical connection: cable fastener
					S		No explosion-proof
					E		explosion-proof (Ex d IIC T6)
							Length of probe rod
						-	standard type G thread, 30mm thread is suitable for ≤DN32
							Standard type R thread, 30mm thread is suitable for ≤DN32
						50	Probe rod length unit mm (including thread 50), suitable for ≥DN40

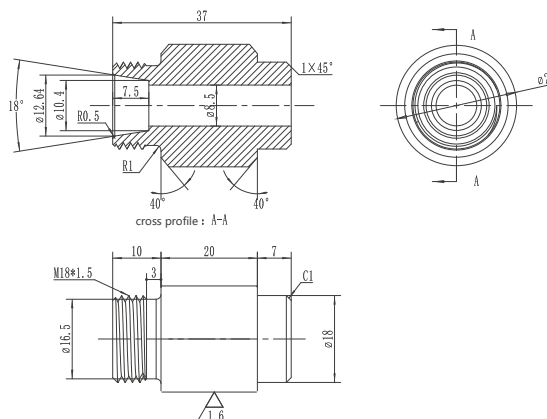
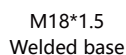
M18 thread does not support length variation of probe rod

* for electrical accessories and installation accessories, please refer to the attachment page on page -

name

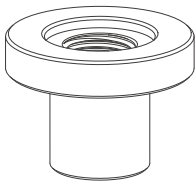
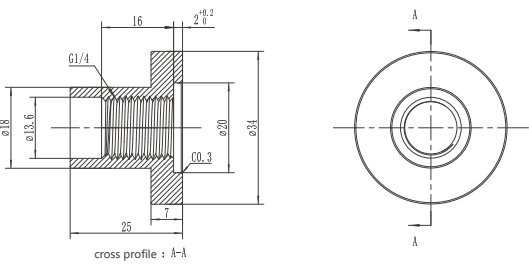
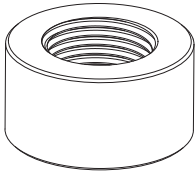
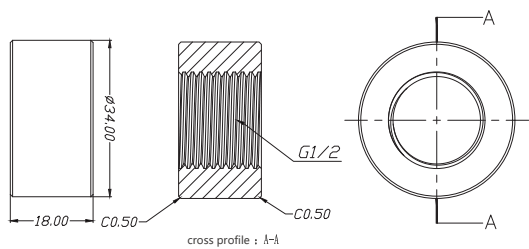
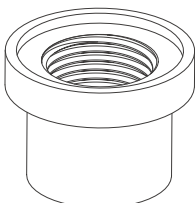
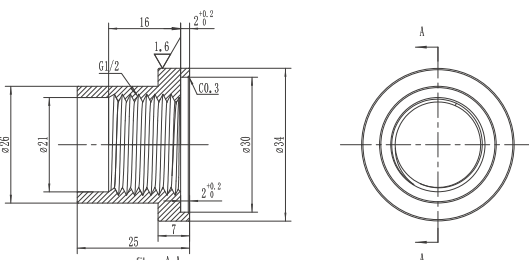
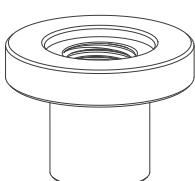
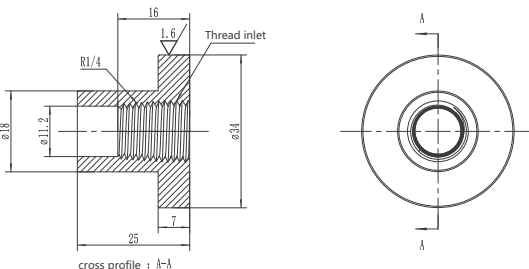
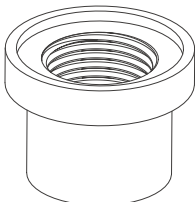
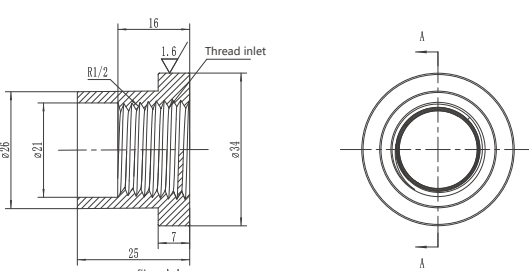
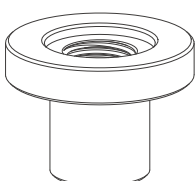
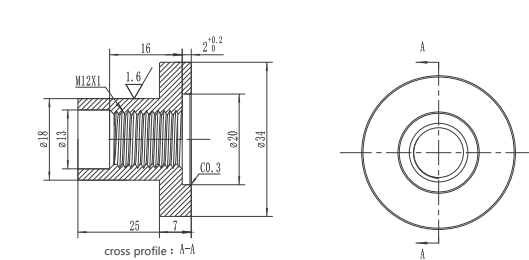
Size drawing (unit :mm)

model

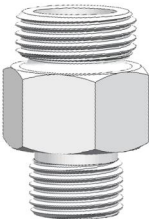
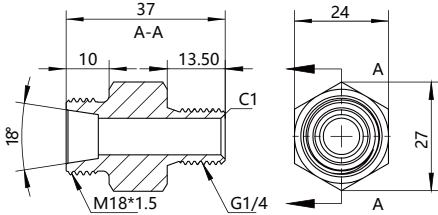
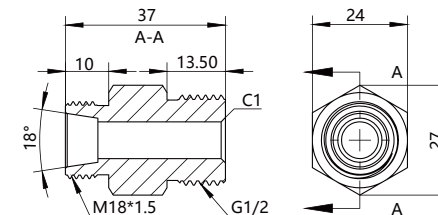


FA002-M18
(Material: 304 stainless steel)

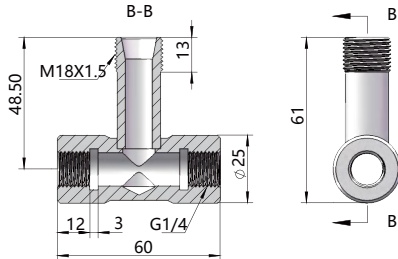
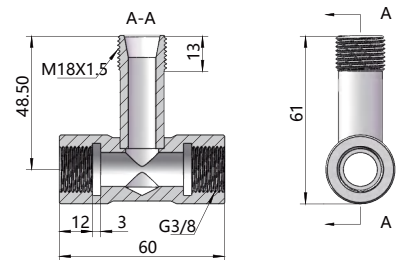
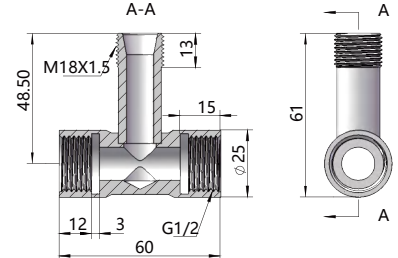
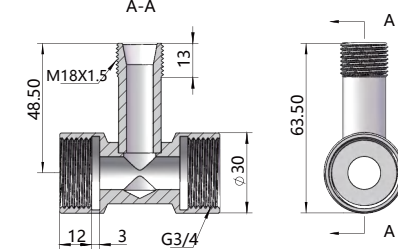
Welded base (optional external thread only)

name	External drawing	Size drawing (unit :mm)	model
G1/4 Welded base			FA002-G14 (Material: 304 stainless steel)
G1/2 High pressure welded base			FA002-G12H (Material: 304 stainless steel)
G1/2 Welded base			FA002-G12 (Material: 304 stainless steel)
Rc1/4 Welded base			FA002-R14 (Material: 304 stainless steel)
Rc1/2 Welded base			FA002-R12 (Material: 304 stainless steel)
M12*1 Welded base			FA002-M12 (Material: 304 stainless steel)

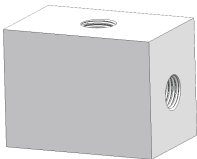
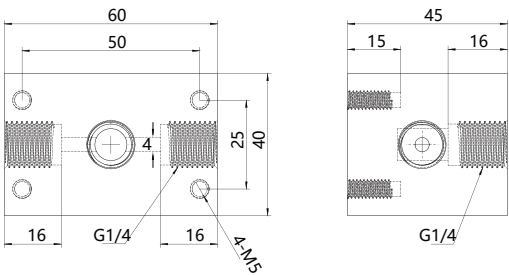
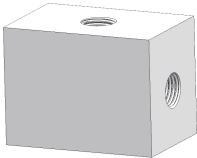
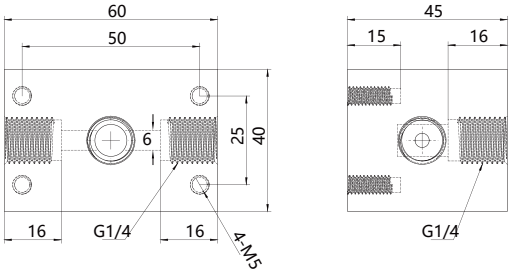
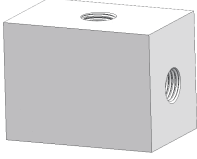
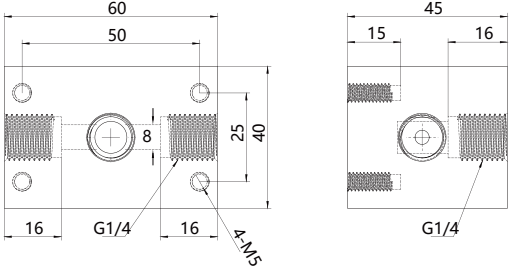
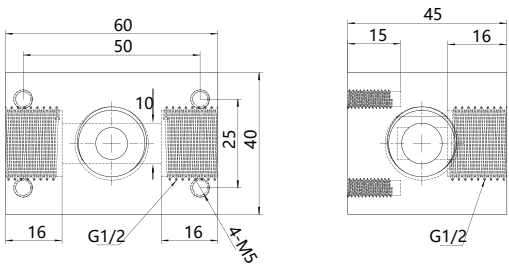
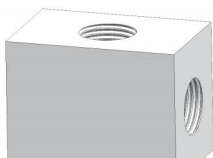
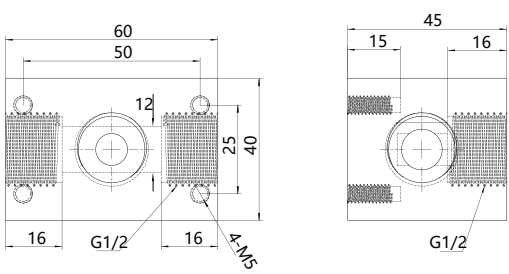
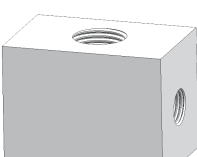
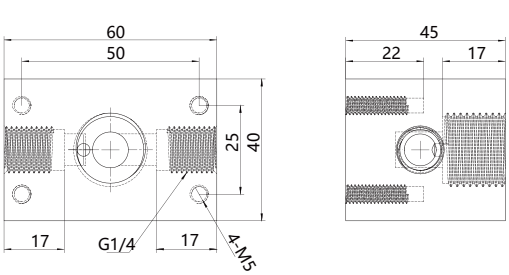
Adapter (M18 internal thread only optional)

name	External drawing	Size chart (mm)	model
M18 * 1.5 internal thread To g1/4 male thread, Probe insertion depth 15mm			FA004-M18G14S (Material: 304 stainless steel)
			FA004-M18G14T (Material: brass)
M18 * 1.5 internal thread To g1/2 male thread			FA004-M18G12S (Material: 304 stainless steel)
			FA004-M18G12T (Material: brass)

Tee (stainless steel) (M18 internal thread only optional)

name	External drawing	Size chart (mm)	model
M18 * 1.5 internal thread Equipped with G1/4 tee			FA003-M18G14 (Material: 304 stainless steel)
M18 * 1.5 internal thread With G3/8 tee			FA003-M18G38 (Material: 304 stainless steel)
M18 * 1.5 internal thread Equipped with G1/2 tee			FA003-M18G12 (Material: 304 stainless steel)
M18 * 1.5 internal thread With G3/4 tee			FA003-M18G34 (Material: 304 stainless steel)

Tee (PP) (external thread only optional)

name	External drawing	Size chart (mm)	model
Type G1/4 small flow tee			FA010-04G14 (material: PP)
Type G1/4 straight hole tee			FA010-06G14 (material: PP)
Type G1/4 small flow tee			FA010-08G14 (material: PP)
Type G1/2 straight hole tee			FA010-10G12 (material: PP)
Type G1/2 straight hole tee			FA010-12G12 (material: PP)
G1/4 gas only Tee adapter			FA012-01 (material: PP)

Tee (conventional stainless steel :40bar) (external thread only optional)

External drawing	Size table					
	Conventional tee					
	Diameter of thread	Inch code	Pipe thread (R)	Model number		
	DN15	4 points	1/2	FA013-R12K		
	Reducing tee					
	Diameter of thread	Inch code	Pipe thread left (R)	Pipe thread center (R)	Pipe thread right (R)	Model number
	DN20	6 points×4 points	3/4 "	1/2"	3/4 "	FA013-R12KR34K
	DN25	1 inch x 4 points	1"	1/2"	1"	FA013-R12KR1K
	DN32	1.2 inches x 4 points	1.2 "	1/2"	1.2 "	FA013-R12KR1.2K

Tee (high pressure stainless steel :200bar) (external thread only optional)

External drawing	Size table					
	Conventional tee					
	Diameter of thread	Inch code	Pipe thread (G)	Model number		
	DN15	Four points	1/2	FA014-G12K		
	Reducing tee					
	Diameter of thread	Inch code	Pipe thread left	Pipe thread center	Pipe thread right	Model number
	DN20	6 points x 4 points	G 3/4 "	G 1/2"	G 3/4 "	FA014-G12KG34K
	DN25	1 inch x 4 points	G 1"	G 1/2"	G 1"	FA014-G12KG1K