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As experts in pressure, differential pressure, temperature and humidity, switching, flow and HVAC, we offer efficient solutions for plant and process automation. With many years of experience in the manufacturing sector, we can respond quickly and flexibly to local market needs.

Whether in the HVAC, automation, food manufacturing, chemical or pharmaceutical industries, Anwoll offers control solutions and products to improve the efficiency and security of your systems. Not only that, you can reduce procurement, inventory, installation costs, and improve operational safety through efficient and standardized products. With intelligent manufacturing, a rich product range, and a worldwide distribution network, we provide users with tailor-made product solutions.



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SPS11 small pressure switch mode 1)SPS11-22 Small pressure switch 2)SPS11-12 Small pressure switch 3)SPS11-27 Small pressure switch

The SPS11 switches are fixed set point, factorycalibrated pressure switches. They have an automatic reset and can have normally open or normally closed contacts. All metallic wetted components make the SPS11 switch compatible with a multitude of chemicals in liquid or gas form. It offers numerous types of electrical terminations, from different sizes and styles of push-on terminals to wire leads with an array of standard industry connectors.

- Switch with automatic reset design
- Suitable for applications such as air and water pressure control, internal circuitry of electrical refrigeration equipment, indoor air conditioning, or indoor cooling devices
- Wide pressure setting range, suitable for different requirements

ANWOLL USA 5634 GRAND FLORAL BLVD HOUSTON TX 77041-5561

Technical parameter

sic information		
Pressure set range	From 0.02 MPa to 6.5 MPa; below 1.0 MPa	
(gauge pressure)	is considered low pressure, while 1.0 MPa	with
	and above is considered high pressure	Оре
Process connection	M threads (below M10),	Medi
	M threads (above M12),	
	NPT threads, R threads, G threads,	Temp
	UNF threads, and copper pipes, etc	
Burst pressure	34.5MPax1min, no damage or leakage	
Mechanical lifespan	100,000	
(switching cycles)		IP gr
Electrical lifespan	30,000	
(switching cycles)		Cor
Tests/Admissions	UL	
ectrical overview		
Switching load	24250VAC/0.026A;	
	836VDC/0.023A;600VAC 0.023A(UL)	

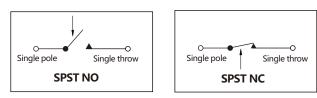
120VAC/6A;250VAC/6A(CE);250VAC/3A(CQC)

Under the condition of ensuring electrical lifespan

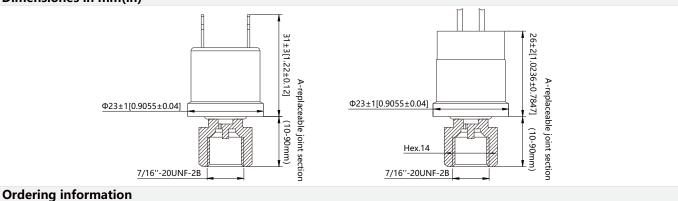
It pressure difference switch, the maximum current is 0.5A

ating conditions Air,water,motor oils,transmission oils, n jet fuels and other similar Hydrocarbon Media Ambient:-40...+65°C[-40...+149°F](Low pressure); ature -40...+120°C[-40...+248°F](High pressure) Medium:-40...+80°C[-40...+176°F](Low pressure); -40...+135°C[-40...+275°F](High pressure) IP67

act version

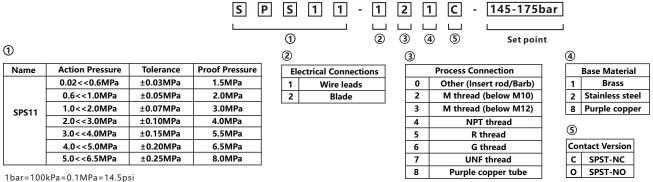


Dimensiones in mm(in)



Example part number:SPS11-121C-145-175bar

Model SPS11 small pressure switch, electrical connections: wire leads, process connection: M thread (below M10), base material: brass, contact version:SPST-NC,Pressure setting:Reset pressure 145psi,Action pressure 175psi.





SMALL HIGH CURRENT PRESSURE SWITCH MODEL SPS13



1)SPS13 front view 2)SPS13 thread view

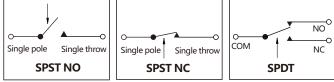
The SPS13 switches are fixed set point, factory calibrated pressure switches. It is automatic reset, and can be normally open or normally close contacts. All metallic wetted components make the SPS13 switch compatible with a multitude of chemicals in liquid or gas form. It is offered numerous types of electrical terminations from different size and style push on terminals to wire leads with an array of standard industry connectors.

- Switch with automatic reset design
- The maximum pressure set point can reach 942psi, and the maximum rated current is 25A
- Typical application safety devices/air conditioning/refrigeration equipmen

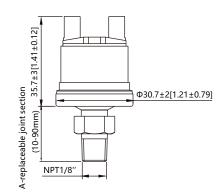
Technical parameter

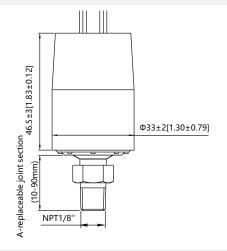
Operating	conditions
Medium	Air,wate fuels and o
Temperature	Ambient:-40+6
	-40+120
	Medium:-40+8
	-40+13
IP grade	
Contact ve	ersion
Single pole Single	le throw Single pole
SPST NC	D SPST
	Medium Temperature IP grade Contact ve Single pole Sing

Contact ve	arsion
IP grade	IP67
	-40+135°C[-40+275°F](High pressure)
	Medium:-40+80°C[-40+176°F](Low pressure);
	-40+120°C[-40+248°F](High pressure)
Temperature	Ambient:-40+65°C[-40+149°F](Low pressure);
Medium	Air,water,motor oils,transmission oils,jet fuels and other similar Hydrocarbon Media



Dimensiones in mm(in)





Ordering information

Example part number:SPS13-121C-145-175bar

Model SPS13 small high current pressure switch, electrical connections: wire leads, process connection: M thread(below M10), base material:brass,contact version:SPST-NC,Pressure setting:Reset pressure 145psi ,Action pressure 175psi.

			S	Ρ	S	13-1	1	2	1 C - 145-175	bar		
					1	(2	3	(4) (5) Set poin	nt		
1				G	2)			3		(4)	
Name	Action Pressure	Tolerance	Proof Pressure	ΙΓ	Elec	trical Connections]		Process Connection	Γ		Base Material
	0.1≤<0.6MPa	±0.03MPa	1.5MPa		1	Wire leads	1	0	Other (Insert rod/Barb)	1	1	Brass
	0.6≤<1.0MPa	±0.05MPa	2.0MPa		2	Blade	1	2	M thread (below M10)		2	Stainless steel
SPS13	1.0≤<2.0MPa	±0.07MPa	3.0MPa	-				3	M thread (below M12)	8	8	Purple copper
51515	2.0≤<3.0MPa	±0.10MPa	4.0MPa					4	NPT thread	(5	
	3.0≤<4.0MPa	±0.15MPa	5.5MPa					5	R thread	(5	ע	
	4.0≤<5.0MPa	±0.20MPa	6.5MPa					6	G thread	L	C	ontact Version
	5.0≤<6.5MPa	±0.25MPa	8.0MPa					7	UNF thread		c	SPST-NC
I								8	Purple copper tube		0	SPST-NO
160-100	/Pa-0 1MPa-14 5m	.:									D	SPDT

1bar=100kPa=0.1MPa=14.5psi



PRESSURE SWITCH FOR WATER PURIFIER MODEL SPS14



1)SPS14 front view 2)SPS14 interface view

This product is specially designed for water purifier, which can replace traditional high-low pressure switch. It is more sensitive action and used for wider range of applications.

- Dedicated to water purifiers, replacing traditional high and low voltage switches for water purifiers
- More sensitive response and wider applicability

IP54

Technical parameter

General

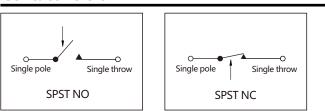
Basic information		
Pressure set range	From 0.02 MPa to 1.0 MPa	; below 0.6 MPa
(gauge pressure)	is considered low pressure	e, while 0.6 MPa
	and above is considere	d high pressure
Burst pressure	3.2MPax1min, no dar	nage or leakage
Mechanical lifespar	n (switching cycles)	100,000
Electrical lifespan (s	witching cycles)	30,000
Electrical overview		
Switching load	24250VAC/0.026A;83	6VDC/0.023A
	Under the condit	tion of ensuring
	electrical lifespan w	ithout pressure
diff	erence switch, the maximum	n current is 0.5A

Operating conditions

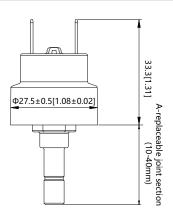
Medium	Air,water
Temperature	Ambient:-40+65°C[-40+149°F](Low pressure);
	-40+120°C[-40+248°F](High pressure)
	Medium:-40+80°C[-40+176°F](Low pressure);
	-40+100°C[-40+212°F](High pressure)

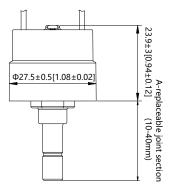
IP grade

Contact version



Dimensiones in mm(in)

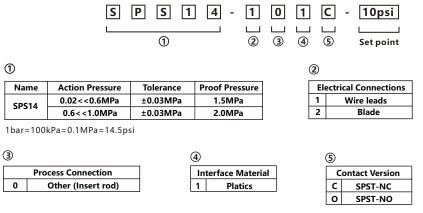




Ordering information

Example part number:SPS14-101C-10psi

Model SPS14 pressure switch for water purifier, electrical connections: wire leads, process connection: other (Insert rod), interface material: plastics, contact version: SPST-NC, Pressure setting: 10psi.





AIR COMPRESSOR PRESSURE SWITCH MODEL CPS23







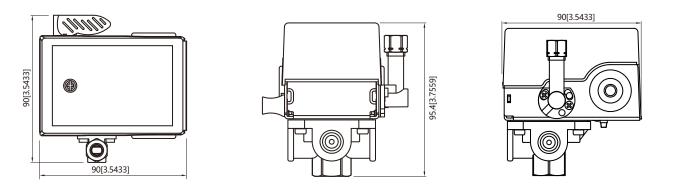
1)CPS23 front view 2)CPS23 side view 3)CPS23 back view

CPS23 air compressor pressure switch, this product is used for adjusting the pressure which in the compressor tank to operate between two preset pressure values. The pressure switch with an unloading valve prevents the air compressor fromoverloading and the handle is supposed to manually power off the compressor. The fourway base connection makes the installation of additional parts more convenient.

- Adjust pressure in the air compressor tank
- Choose to have a relief valve function to avoid compressor overload starting
- The four ports connector facilitates the installation of components such as safety valves
- The attached handle can cut off the compressor power manually

General		Operating condition	S
Basic information		Medium	Air,non-flammable,non-hazardous
Pressure range	95125-200psi		and non-corrosive gas
Process connection	Single port/Female thread,	Temperature	Ambient:-20+80°C[-4+176°F]
	Four ports/Female thread,	Unloading valve connection	Φ6.0 mm,Φ6.4 mm,Φ6.5 mm,
Sing	gle port/male thread,Double female		can be customized
and male thread NP	T1/4,R1/4,G1/4(can be customized)	IP grade	IP20
Tests/Admissions	CSA	Contact version	
Electrical overview		DPST	
Switching load	26A at 120VAC,50HZ		Input Output
	20A at 240VAC,60HZ		Synchronous

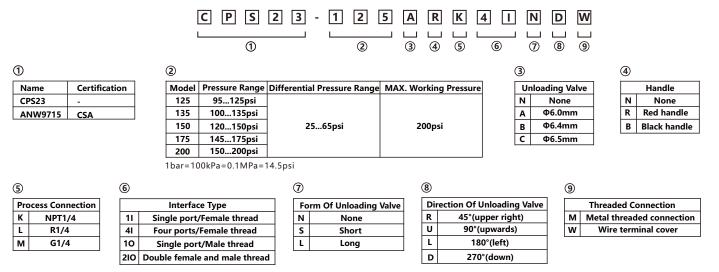
Dimensiones in mm(in)



Ordering information

Example part number:CPS23-125ARK4INDW

Model CPS23 air compressor pressure switch, pressure range:95...125psi, differential pressure range:25...65psi, maximum working:200psi; unloading valve:Φ6.0mm; handle:red handle; connector:NPT1/4; interface type: four ports/female thread; form of unloading valve: none; direction of unloading valve: 270° (down); threaded connection: wire terminal cover.





EXTENDED DUTY PRESSURE SWITCH MODEL SPS15



SPS15 extended duty pressure switch is specifically designed to stand up to extended duty applications. This switch is factory set but capable of field adjustment. It features different diaphragms for compatibility with a wide variety of fluids, and various terminations including a Metri-Pack connector that forms a tight seal when connected. It can be widely used for pool and spa, anti- skid braking systems, water pump systems, and dental air compressors, heavy construction, off road equipments and other pressure control systems.

- Specially designed for enduring continuous loads
- Featuring Kapton (polyimide) diaphragms compatible with various liquids
- Durable structure with stable volume and set points

General

Basic information	
Pressure set range	0.5150psi
Process connection	1/8NPT,1/4NPT,R1/8,R1/4,G1/8,G1/4
	(Optional other interface forms)
Terminal	#8-32 screws,1/4"blade
Material Co	ontact: silver alloy,gold plated;Base:brass;
	Cover:glass reinforced polyester;
	Diaphragm: polyimide film
Max operating pressu	re 150psi for 0.524psi set point range,
	250psi for 25150psi set point range
Switch type	Direct action, blade contact
Tests/Admissions	UL

Electrical overview

Electric rating	Resistive:15AMP-6VDC,8AMP-12VDC,4AMP-24VDC;

Inductive: 1AMP-120VAC,0.5AMP-240VAC

Operating conditions

Air,water,motor oils,transmission oils,

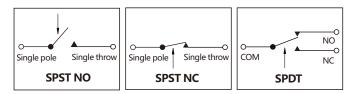
jet fuels and other similar Hydrocarbon Media

Temperature

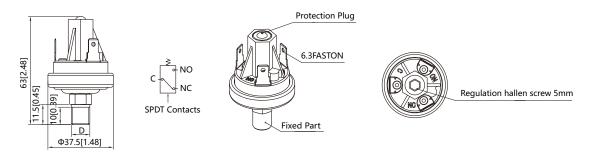
Medium

Working:-40...+120°C[-40...+248°F]

Contact version



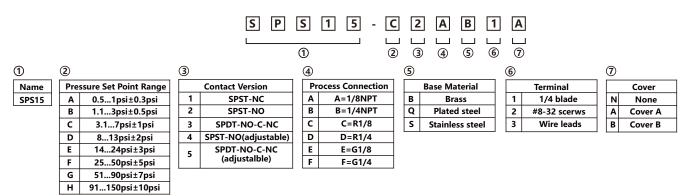
Dimensiones in mm(in)



Ordering information

Example part number:SPS15-C2AB1A

Model SPS15 extended duty pressure switch, pressure set point range:3.1...7psi±1psi, contact version: SPST-NO, process connection: 1/8NPT; base material: brass; terminals: 1/4blade; cover: cover a.



1bar=100kPa=0.1MPa=14.5psi



PRESSURE SWITCH MODEL PS31



1)PS31 side view 2)PS31 thread view 3)PS31 adjusting screw view

PS31 Series pressure switches are used to control the pressure of compressor in refrigerant system, also available in air or water fluid. This series have quite stable performance with internal micro-switch structure. Standard mounting bracket are provided.

Features

- Suitable for refrigeration systems
- Manual and automatic reset functions
- Adjustable pressure and differential pressure

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Manual Reset

Technical parameter

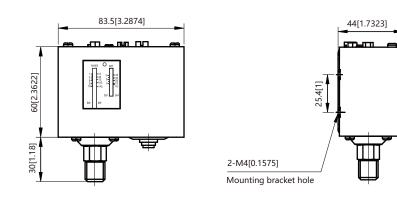
Ge	ne	ral

	Medium	R22,R134a,R404A,air,liquid,etc
G1/4 male,1/4SAE male	Temperature	Medium:-40+120°C[-40+248°F]
The threads can be customized		Ambient:-20+65°C[-4+149°F]
6-14mm	IP grade	IP20,IP30(with bracket and cover),
UL508		IP44(with bracket, cover, and cap),
		IP55(with integral cover)
FL8A/LR48A at 240VAC		
FL16A/LR96A at 120VAC		
2000V/one minute without breakdown	Contact version)
ent		
2N*M	10	
Vertical,	СОМ	
	The threads can be customized 6-14mm UL508 FL8A/LR48A at 240VAC FL16A/LR96A at 120VAC 2000V/one minute without breakdown ment 2N*M	G1/4 male,1/4SAE male Temperature The threads can be customized 6-14mm 6-14mm IP grade UL508 UL508 FL8A/LR48A at 240VAC FL16A/LR96A at 120VAC 2000V/one minute without breakdown Contact version 10 10 2N*M 10

Operating conditions

Automatic Reset

Dimensiones in mm(in)



pressure connections facing downwards

Ordering information

Example part number:PS31-02NAL

Model PS31 pressure switch, pressure range:-0.5...2bar, differential pressure range:0.2...0.7bar, maximum working:10bar; reset method:auto reset;process connection:1/4sae male;backet:L type.

					L		\Box	\Box			
				1		2	3	4	5		
1	2				3	l.		4		5	
Name	Model	Pressure Range	Differential Pressure Range	MAX. Working Pressure		Reset Met	thod		Process Connection		Bracket
PS31	02	-0.52bar	0.20.7bar	10bar	N	I Auto r	eset	Α	1/4SAE male	N	Without bracket
	03	-0.53bar	0.351.5bar	10bar	N	1 Manual	reset	В	G1/4 male	P	Flat type
	06	-0.56bar	0.64bar	17bar	_			С	NPT1/4 male	L	L type
	08	-0.27.5bar	0.74bar	17bar				D	R1/4 male	U	U type
	10	110bar	13bar	17bar				E	G1/4 male		
	14	214bar	14bar	17bar				F	NPT1/4 female	1	
	16	316bar	14bar	20bar				G	R1/4 female	1	
	20	520bar	25bar	35bar				н	M12*1.25 male]	
	30D	530bar	310bar	35bar				Т	Welded copper pipe]	
	32	832bar	26bar	35bar						•	
	42	842bar	410bar	45bar							

P S 3 1 - 0 2 N A L

1bar=100kPa=0.1MPa=14.5psi



PRESSURE SWITCH MODEL PS32



1)PS32 front view 2)PS32 thread view 3)PS32 adjusting screw view

PS32 pressure switch is an automatic control device that receives pressure signals and actuates. It is usually used to control the start and stop of compressors and fans in refrigeration systems. It can also be used in water pumps, fire protection, boilers, hydraulics, ironing and other devices as a safety protection.

- Suitable for refrigeration systems
- Manual and automatic reset functions
- Adjustable pressure and differential pressure
- Design of Double Head Pressure Switch

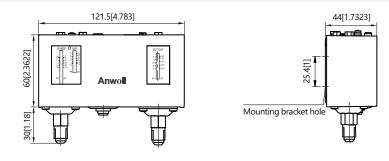
ANWOLL USA 5634 GRAND FLORAL BLVD HOUSTON TX 77041-5561

Technical parameter

General

Basic information		Temperature	Medium:-40+120°C[-40+248°F]
Process connection	G1/4 male,1/4SAE male		Ambient:-20+65°C[-4+149°F]
	The threads can be customized	IP grade	IP20,IP30(with bracket and cover),
Cable diameter	6-14mm		IP44(with bracket, cover, and cap)
Tests/Admissions	UL508		
Electrical overview			
Switching load	FL8A/LR48A at 240VAC	Contact version	ı
	FL16A/LR96A at 120VAC		MAX:50VA MAX:50VA
Dielectric strength	2000V/one minute without breakdown		
Installantion arrangem	ent	A B C Pressure Decrease at Pressure Ir	
Installation torque	2N*M	Low Pressure Side High Press Automatic Reset	
Factory set	Vertical,		
	pressure connections facing downwards		MAX:50VA
Operating condi	tions		A B H C M Pressure Decrease at Pressure Increase at
Medium	R22,R134a,R404A,air,liquid,etc		Low Pressure Side High Pressure Side High and low-pressure manual reset

Dimensiones in mm(in)



Ordering information

Example part number:PS32-32NAL

Model PS32 pressure switch, low-pressure side (pressure range:-0.2...7.5bar, differential pressure range:0.7...4bar, maximum working: 17bar), high-pressure side (pressure range:8...32bar, differential pressure range:fixed 4bar, maximum working:35bar); reset method: auto reset; process connection:1/4sae male; backet: L type.

				P S 3 2	- <u>3</u>	2 N A 2 3 4		L 3		
1	2				3		4		5	
Name		Low-Pressure Side			Reset Method		Process Connection		Bracket	
PS32	Model	Pressure Range	Differential Pressure Range	MAX. Working Pressure	Ν	Auto reset	Α	1/4SAE male	N	Without bracket
	32	-0.27.5bar	0.74bar	17bar	нм	manual reset	В	G1/4 male	Р	Flat type
	45	212bar	15bar	17bar			н	M12*1.25 male	L	L type
					High and low-			Welded copper pipe	U	U type
	Model		High-Pressure Side			pressure manual reset			-	
	wouer	Pressure Range	Differential Pressure Range	MAX. Working Pressure						
	32	832bar	fixed 4bar	35bar						
	45	845bar	fixed 7bar	48bar						
	-									

1bar=100kPa=0.1MPa=14.5psi



PRESSURE SWITCH MODEL HPS41







1)HPS41 front view 2)HPS41 back view 3)HPS41 side view

HPS41 series pressure switches are mainly used to control pressure of boiler or water tower regulating system. When the system pressure exceed the setting point, the switch will cut off the circuit for protection. With SPDT contact arrangement, HPS41 switch can detect the pressure change and shift the internal status accordingly to control the on/off of external circuits, which is available for the pressure control, limit and alarm of non-hazardous liquid, gas and steam.

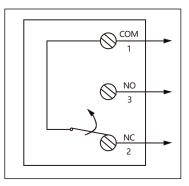
- Suitable for controlling the pressure regulation of boilers and water towers
- Manual and automatic reset functions
- Adjustable pressure and differential pressure

General

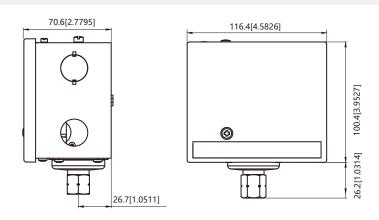
Basic information	
Pressure range	15100-2070kPa(215-300psi)
Process connection	NPT1/4,G1/4,R1/4
	The threads can be customized
Cable diameter	22mm
Mechanical lifespan	50,000
(switching cycles)	
Electrical lifespan	30,000
(switching cycles)	
Electrical overview	
Switching load	FL5.1A/LR30.6A at 240VAC
	FL8A/LR48A at 120VAC
Dielectric strength	2000V/one minute without breakdown
Installantion arrangem	nent
Installation torque	2N*M
Factory set	Vertical,
	pressure connections facing downwards

Medium	Air,water,oil,steam,liquid and
	other non-corrosivemedia,
	chlorinecontaining liquid is not available
Temperature	Medium:-40+180°C[-40+365°F]
	Ambient:-29+66°C[-20.2+150.8°F]
Pressure diaphragm	Stainless steel, corrugated tube
Thermal material	Brass

Contact version



Dimensiones in mm(in)



Ordering information

		Pressure Range		Differential P	Pressure Range	Maximum Working Pressure		
Name	Model	kPa	psi	kPa	psi	kPa	psi	
	15	15100	215	1540	26	170	25	
HPS41	50	35350	550	40100	414	590	85	
	150	701035	10150	70150	1022	1550	225	
	300	1402070	20300	140345	2050	2410	350	

1bar=100kPa=0.1MPa=14.5psi



THERMOSTAT MODEL TS34





1)TS34 side view 2)TS34 capillary view 3)TS34 adjusting screw view

TS34 are used for regulation, but can also be seen in safety monitoring systems. They are available with vapor charge or with adsorption charge. With vapor charge the differential is very small. The TS34 Thermostats with adsorption charge are widely used to give frost protection.

Features

• Detect the temperature change of the medium and perform the switching action

3

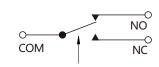
- Automatic reset function
- The action temperature and differential is adjustable

Basic information						
Temperature bulb	Φ2.5 Capillary,the minimum length of					
	capillary and controlled environment					
	is 0.25m(customizable)					
Tests/Admissions	UL508					
Electrical overview						
Switching load	FL8A/LR48A at 240VAC					
	FL16A/LR96A at 120VAC					
Dielectric strength	2000V/one minute without breakdown					
Installantion arrangem	ent					
Installation torque	2N*M					
Factory set	Vertical					

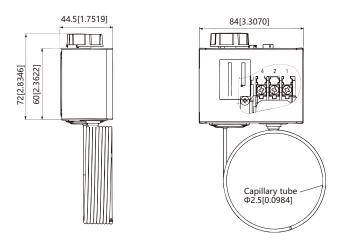
Medium	Mainly the greenhouse air
Temperature	Medium:-40+120°C[-40+248°F]
	Ambient:-25+65°C[-13+149°F]
IP grade	IP30

Contact version

SPDT



Dimensiones in mm(in)



Ordering information

Name	Model	Factory Set		
TS34	15	-3015℃[-2259℉]	210℃[35.650℉]	-7/-9°C[19.4/15.8°F]
1354	30	-530°C[2386°F]	212℃[35.653.6℉]	10/7°C[50/44.6°F]

Note: The length of the capillary tube is customizable, with a default length of 3 meters.



DIFFERENTIAL PRESSURE SWITCH MODEL DPS33



1)DPS33 front view 2)DPS33 back view 3)DPS33 thread view 4)DPS33 thread view

The DPS33 differential pressure switch features highly sensitive pressure sensors on both sides that trigger the switch mechanism to control equipment like motor-driven valves. It's typically used to manage pressure differences between supply and return pipes in water and oil systems. For example, it can control a valve in the bypass near the pump; when the pressure difference exceeds the set value, the valve opens or closes to maintain normal system operation.

- Adjustable design for differential pressure setting
- Manual reset and automatic reset modes are optional
- Using bellows for pressure transfer, it has the characteristics of stable linear pressure coefficient and long life
- Various mounting modes of mounting brackets can be customized

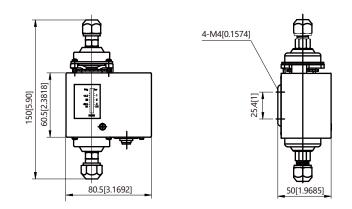
Manual Reset

Technical parameter

General		Operating conditions	
Basic information		Medium	Refrigerant,air,water,oil
Process connection	1/4SAE male,G1/4 male,M12*1.25 male	Temperature	Medium:-40+120°C[-40+248°F]
Cable diameter	6-14mm		Ambient:-20+65°C[-4+149°F]
Tests/Admissions	UL508	IP grade	
Electrical overview			
Switching load	FL8A/LR48A at 240VAC		
	FL16A/LR72A at 120VAC		
Dielectric strength	1500V/one minute without breakdown	Contact version	
Installantion arrangem	ient		
Installation torque	2N*M		
Factory set	Vertical,		

pressure connections facing downwards

Dimensiones in mm(in)

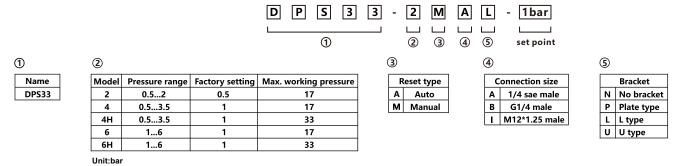


Automatic Reset

Ordering information

Example part number:DPS33-2MAL-1bar

Model DPS33 differential pressure switch, differential pressure range:0.5...2bar, reset type:manual; connection size:1/4sae male, L type bracket, set point:1bar.





MICRO DIFFERENTIAL PRESSURE SWITCH MODEL DPS52







1)DPS52 front view 2)DPS52 bottom view 3)DPS52 upper part view

The DPS52 is an adjustable differential pressure switch capable of detecting miniscule changes in pressure due to the size and proven design. The switch set point or switching point can be field adjustable without the need of a manometer by simply using the adjustment knob and the built in calibrated visual scale. This switch is equipped a clear cover that not only protects the adjustment knob to be move involuntary but also provides class IP54 protection.

- Sense the slight change of pressure, suitable for HVAC systems
- Automatic reset function
- Widely used in wards, laboratories, clean workshops and so on

ANWOLL USA 5634 GRAND FLORAL BLVD HOUSTON TX 77041-5561

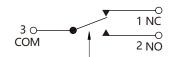
Technical parameter

General

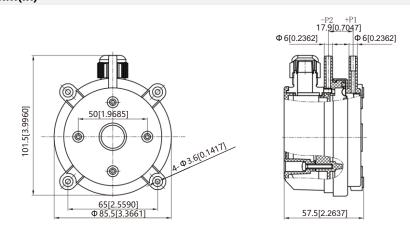
Basic information	
Pressure difference range	20200-5000Pa
Process connection	φ 6.4mm
	for tube connection
Terminal block	6.35*0.8 AMP standard flat insert
Tests / Admissions	UL60730
Electrical overview	
Switching load	1.5A(0.4A) at 250VAC
Resistive(inductive)	0.1A at 24VDC
Initial contact resistance	<100 milliohms
Installantion arrangement	
Installation torque	0.8N*M

Factory set	Vertical,
	pressure connections facing downwards
Operating con	ditions
Medium	Air,non flammable
	or non hazardous gases
Temperature	Medium:-20+85°C[-4+185°F]
	Ambient:-40+85°C[-40+185°F]
IP grade	IP54 (with cover)
Contact versio	n

SPDT



Dimensiones in mm(in)



Ordering information

Name	Model	Differential Pressure Range	Return Difference	Tolerance
	02	20200Pa	10±3Pa	15%
	03	30300Pa	10±3Pa	15%
	04	40400Pa	20±4Pa	15%
	05	50500Pa	20±4Pa	15%
	10	2001000Pa	100±15Pa	15%
	25	5002500Pa	150±15Pa	15%
	11	1001000Pa	50±5Pa	15%
DPS52	50	10005000Pa	250±25Pa	15%
	03A	20300Pa	10±3Pa	15%
	05A	30500Pa	20±4Pa	15%
	06A	40600Pa	20±4Pa	15%
	06	60600Pa	20±4Pa	15%
	15	1001500Pa	50±5Pa	15%
	20	2002000Pa	100±10Pa	15%
	45	5004500Pa	250±25Pa	15%

Note: The default accessories are a pipette, air tube (1.5m default length), and optional bracket. 1bar=100kPa=0.1MPa=14.5psi Please make separate remarks for special requirements.





ASS61 air switch button color

 1)PVD treatment on brass surface (circular pattern)
 2)Rose Gold (PVD Panel)
 3)Stainless steel, surface coated with decorative chromium

 4)Stainless steel glossy surface
 5)Black antique copper wire drawing (circular pattern)
 6)Dot plated matte black

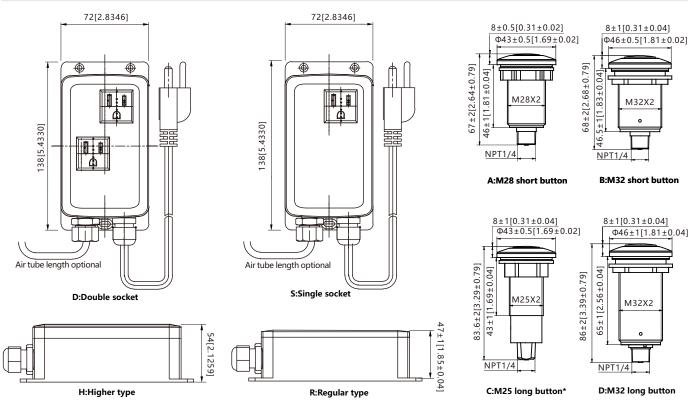
The ASS61 air socket switch is provided with a snap action switching for higher current capacity. It can be used together with air button for remote control purpose, which is widely used in food waste disposer, pumps for swimming pools and spas, hot tubs, sanitary equipment, medical equipment etc.

- Suitable for kitchen waste disposal, swimming pools, hot springs, cleaning equipment, etc
- Use as remote control device that works in conjunction with pneumatic buttons
- Only for indoor use

General

Basic information		Electrical overview	
Gas tightness	Under 50psi pressure,	Switching load	12A at 125VAC
	no leakage phenomenon	Dielectric strengt	h 1500V
Pressure range	< 1.8psi		
Air tube	Air tube length optional	Operating con	ditions
Tests / Admissions	UL 60730	Temperature	Ambient:-10+50°C[+14+122°F]

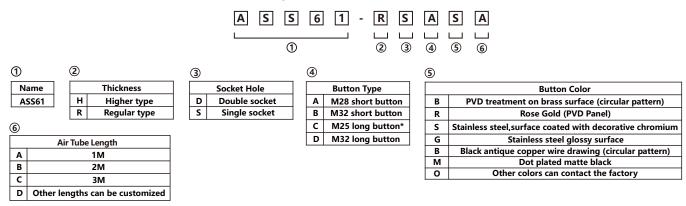
Dimensiones in mm(in)



Ordering information

Example part number:ASS61-RSASA

Model ASS61 air socket switch, thickness: regular type; socket hole: single socket; button type: M28 short button; button; button: stainless steel, surface coated with decorative chromium, air tube length: 1m.



* This button is designed specifically for small hole countertops, with low air pressure and only compatible with 1-meter air pipes. If the length of the trachea exceeds this specification, the switch may not be activated.



AIR SOCKET SWITCH MODEL ASS62



ASS62 air switch button color

 1)PVD treatment on brass surface (circular pattern)
 2)Rose Gold (PVD Panel)
 3)Stainless steel, surface coated with decorative chromium

 4)Stainless steel glossy surface
 5)Black antique copper wire drawing (circular pattern)
 6)Dot plated matte black

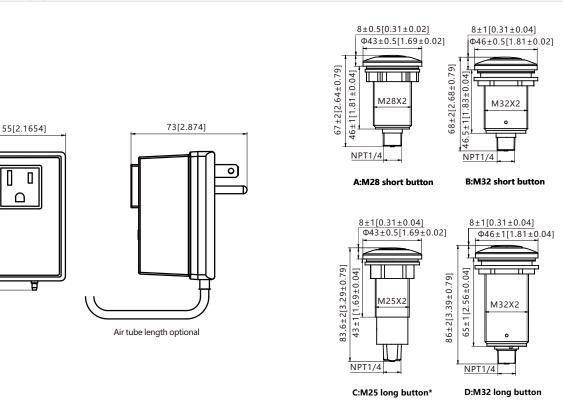
ASS62 air socket switch is provided with a snap action switching for higher current capacity. It can be used together with air button for remote control purpose, which is widely used in food waste disposer, pumps for swimming pools and spas, hot tubs, sanitary equipment, medical equipment etc.

- Suitable for kitchen waste disposal, swimming pools, hot springs, cleaning equipment, etc
- Use as remote control device that works in conjunction with pneumatic buttons
- Only for indoor use

General General

asic information		Electrical overview	
Gas tightness	Under 50psi pressure,	Switching load	15A at 120VAC
	no leakage phenomenon	Dielectric strengt	th 1500V
Pressure range	< 1.8psi		
Air tube	Air tube length optional	Operating con	ditions
Tests / Admissions	UL 60730	Temperature	Ambient: -10+60°C[+14+140°F]

Dimensiones in mm(in)



Ordering information

85.7[3.3465]

80[3.1496]

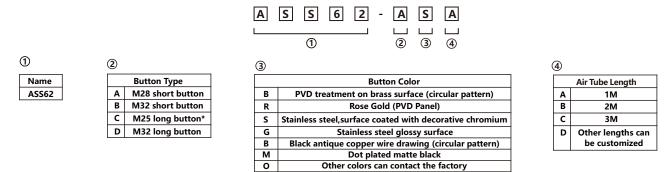
Example part number:ASS62-ASA

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Model ASS62 air socket switch, button type:M28 short button; button; button: stainless steel, surface coated with decorative chromium, air tube length:1m.



* This button is designed specifically for small hole countertops, with low air pressure and only compatible with 1-meter air pipes. If the length of the trachea exceeds this specification, the switch may not be activated.



DIFFERENTIAL PRESSURE GAUGE MODEL DPG51







1)DPG51 front view 2)DPG51 back view 3)DPG51 side view

The DPG51 differential pressure gauge is widely used for measuring the fans or blowers pressure, filter resistant, wind speed, furnace gas pressure, Orifice pressure difference, bubble level and hydraulic system pressure. It is also applied to regulate the air-gas combustion ratio and automatic valve or detecting the breathing, and blood pressure in medical equipment. There are some more applications like micro-electronics, aviation and space, environmental protection project, biological engineering, intelligent

uilding, HVAC, food and beverage and precision electronic processing.

- Motion of the pointer without inertia or drift
- No hysteresis
- Positive, negative or differential pressure can be measured
- Two pressure ports on the side and back, with three installation options for flexible and versatile applications

ANWOLL USA 5634 GRAND FLORAL BLVD HOUSTON TX 77041-5561

Technical parameter

General

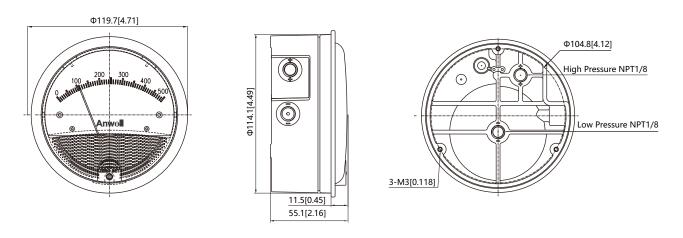
Basic information		
Pressure range	010kPa	IP grade
Over-pressure protection	110kPa150kPa,	Accuracy
the	rubber plug pops out automatically	
Process connection	1/8*NPT female thread high	
	and low pressure(positive and	Operating cor
	negative pressure) connection,	Medium
	side and back both a pair	Temperature

IP grade	IP66
Accuracy	±2% FS under 21.1°C[70°F]
	(≤125Pa ±3%,≤60Pa ±3Pa)

nditions

Medium	Air and non-flammable gases
Temperature	Ambient:-6.67+60°C [+20+140°F]

Dimensiones in mm(in)



Ordering information

Name	Model	Range	Model	Range
	30Pa	030Pa	8kPa	08kPa
	±30Pa	-3030Pa	10kPa	010kPa
	60Pa	060Pa	0.5inWC	00.5inWC
	±60Pa	-6060Pa	1inWC	01inWC
	125Pa	0125Pa	2inWC	02inWC
	±125Pa	-125125Pa	3inWC	03inWC
DPG51	250Pa	0250Pa	5inWC	05inWC
	300Pa	0300Pa	10inWC	010inWC
	±250Pa	-250250Pa	15inWC	015inWC
	500Pa	0500Pa	5mmWC	05mmWC
	750Pa	0750Pa	6mmWC	06mmWC
	1kPa	01kPa	10mmWC	010mmWC
	2kPa	02kPa	25mmWC	025mmWC
	3kPa	03kPa	30mmWC	030mmWC
	5kPa	05kPa	50mmWC	050mmWC

1Pa = 0.001kPa=0.10197mmWC

1inWC=249.08891Pa



CERAMIC CAPACITOR CORE PRESSURE TRANSMITTER MODEL PT11



1)PT11 front view 2)Process connection view 3)Electrical connection view

The PT11 pressure transmitter adopts ceramic capacitor core, which is an ideal choice for refrigerant pressure measurement occasions. The standard 0.5-4.5V output signal, has the advantages of wide operating temperature high precision, high waterproof level, and anti-condensation water. It is suitable for the pressure measurement of most common refrigerants, and also has a high burst pressure.

- Designed for the refrigeration industry
- High waterproof grade, anti-condensation
- High cost performance

General

Basic information	
Measurement range	0~1050bar
Overload pressure	2 times of the rated pressure
Burst pressure	3 times of the rated pressure
Accuracy	±1.5%F.S(-20+80°C)[-4+176°F]
	±2.5%F.S(-40+120°C)[-40+248°F]
Pressure form	Guage pressure G
Measured medium	R12,R22,R32,R134a,R404a,R407c,
	R410a,R502,R507

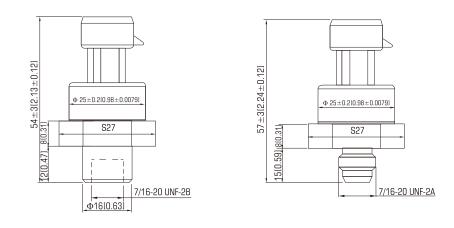
Operating conditions

IP grade	IP67
Temperature	Working : -40+120°C[-40+248°F]
	7/16-20UNF External thread
Process connection	7/16-20UNF Internal thread

Electrical overview

Electrical propertie 3-wir			
Output signal	0.54.5V(Proportional voltage output)		
Power supply	4.755.25VDC		
Electrical connection	Packard		
Dielectric strength	500VAC for 1min		

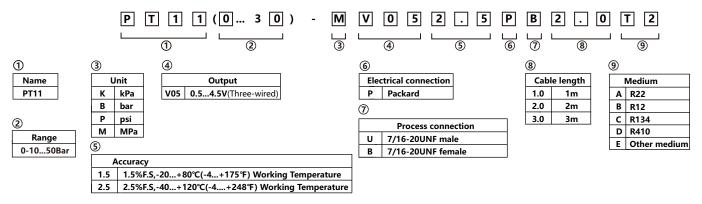
Dimensiones in mm(in)



Ordering information

Example part number:PT11(0...60)-MV052.5PB2.0T2

Model PT11 pressure transmitter, Measuring range 0...30bar, Signal output 0.5...4.5V, Accuracy 2.5%F.S, Electrical connection packard, Process connection 7/16-20UNF Internal thread, Built-in cable length 1M, Unit Kpa, Working Temp -40...120°C(-40...248°F).



CERAMIC SENSITIVE DIAPHRAGM PRESSURE TRANSMITTER MODEL PT12



PT12 pressure transmitter outlet mode 1)PT12 Packard connector 2)PT12 Hirschmann connector 3)PT12 GX12 aviation connector 4) PT12 M12 cable outlet

PT12 oil-filled silicon core pressure transmitter is widely used in the measurement of fluid medium pressure in test systems such as fire protection, water treatment, water supply systems, air compressors, pneumatic devices, andfactory automation. Adopt ceramic sensitive diaphragm with high overload capacity. It has excellent anticorrosion and anti-wear performance, adopts ASIC technology, MEMS technology, and digital compensation And it has the characteristics of small size and low price. can be applied in various complex environment.

- Oil-filled silicon core with high overload capacity
- Excellent resistance to corrosion and wear
- Using ASIC technology, digital compensation
- Can be used in a variety of complex environments

General

Basic information			
Measurement range	-100КРа~0.3МРа6МРа,0~0.3МРа60МРа		
Overload pressure	1.5 times of the rated pressure(up to 80MPa)		
Burst pressure	2 times of the rated pressure(up to 90MPa)		
Accuracy	±0.5%F.S,±1.0%F.S		
Stability	< 0.5%F.S/year		
Pressure form	Guage pressure G		
Measured medium	Gas or liquid compatible with 1Cr18Ni9Ti,		
304 stainless steel, Fluorine rubber or Nitrile rubber			

Operating	conditions
operating	conditions

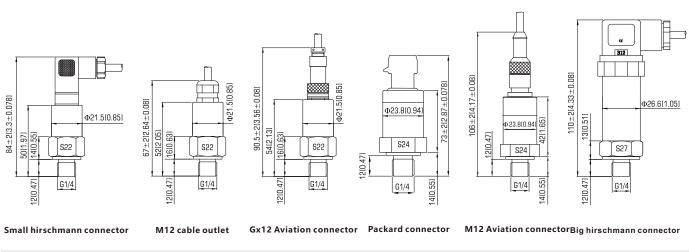
Process connection	G1/4,NPT1/4,R1/4,G1/2,		
	7/16-20UNF,M20*1.5,M10*1,M14*1.5etc		
Temperature	Working:-20+85°C[-4185°F]		
	Storage:-40+100°C[-40212°F]		
IP grade	IP54(GX12 aviation),IP65(DIN43650A,		
M12 waterproof outlet,M12 four-core aviation connenctor			

Electrical overview

Electrical connection Packard, DIN43650C (small Hirschmann), DIN43650A (big Hirschmann), M12 waterproof outlet, M12 aviation connector, GX12 aviation connector (three-core/four-core)

Electrical properties	2-wired(current)	3-wired(voltage)		
Output signal	420mA	0.54.5V	05V	010V
Power supply	836VDC	4.755.25VDC	836VDC	1236VDC

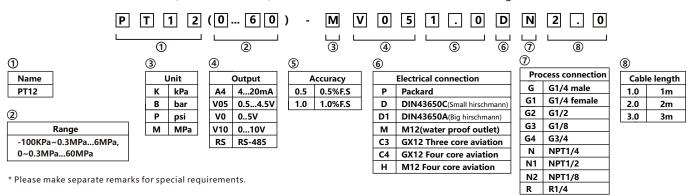
Dimensiones in mm(in)



Ordering information

Example part number:PT12(0...60)-KV051.0DN2.0

Model PT13 pressure transmitter, Measuring range 0...60MPa,Signal output 0.5...4.5V,Accuracy 1.0%F.S, Electrical connection DIN43650C(Small hirschmann), Process connection NPT1/4,Built-in cable length 2M.





OIL-FILLED SILICON CORE PRESSURE TRANSMITTER MODEL PT13



PT13 pressure transmitter outlet mode 1)PT13 GX12 aviation connector 2)PT13 M12 cable outlet 3)PT13 Hirschmann connecto 4) Internal structure diagram

PT13 oil-filled silicon core pressure transmitter is widely used in the measurement of fuid medium pressure in test systems such as fre protection, water treatment, water supply systems, air compressors, and pneumatic device and factory automation. It has excellent anti-corrosion and anti-wear performance, adopts ASIC technology, MEMS technology, digital compensation, and can be applied in various complex environment.

- Oil-filled silicon core with high overload capacity
- Excellent resistance to corrosion and wear
- Using ASIC technology, digital compensation
- Can be used in a variety of complex environments

General

Basic information	Basic	information	
--------------------------	-------	-------------	--

Measurement range	-100KPa0~5KPa60MPa
Overload pressure	1.5 times of the rated pressure
Accuracy	±0.5%F.S(-100KPa0~5KPa60MPa)
	±0.25%F.S(-100KPa0~10KPa60MPa)
Stability	< 0.5%F.S/year
Pressure form	Guage pressure G/Absolute pressure A
Measured medium	Gas or liquid compatible with 304 and
316L stainle	ss steel, Fluorine rubber or Nitrile rubber

Operating conditions		
Process connection	G1/4,NPT1/4,R1/4,G1/2,	
	7/16-20UNF,M20*1.5,M10*1,M14*1.5etc	
Temperature	Working:-20+85°C[-4185°F]	
	Storage:-40+100°C[-40212°F]	
P grade IP54(GX12 aviation),IP65(DIN43650		
M12 waterproof	f outlet,M12 four-core aviation connenctor)	

Electrical overview

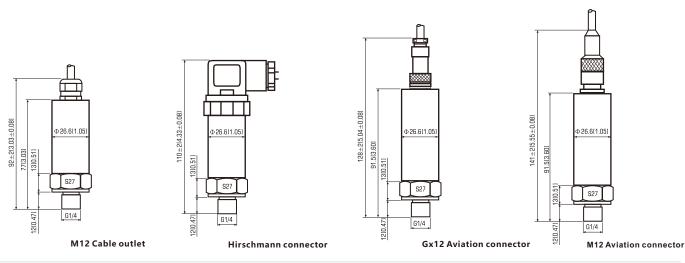
Electrical connection

DIN43650A(Big Hirschmann),M12 waterproof outlet, GX12 aviation (three-core/four-core),

M12 four-core aviation connenctor

Electrical properties	2-wired(current)		3-wired(voltage)		4-wired
Output signal	420mA	0.54.5V	05V	010V	RS485
Power supply	836VDC	4.755.25VDC	836VDC	1236VDC	1030VDC

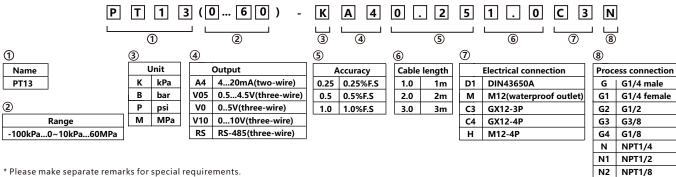
Dimensiones in mm(in)



Ordering information

Example part number:PT13(0...60)-A40.251.0C3NK

Model PT13 pressure transmitter, Measuring range 0...60kPa,Signal output 4...20mA,Accuracy 0.25%F.S,Built-in cable length 1M, Electrical connection CX12-3P , Process connection NPT1/4.



* Please make separate remarks for special requirements.

M M12*1



MONOCRYSTALLINE SILICON PRESSURE TRANSMITTER MODEL MST21





1)Orange style 2)Blue style

The MST21 monocrystalline silicon pressure transmitter is used to measure the liquid leve density and pressure of liquid, gas or steam, then convert it to 4...20mA DC output signal. The transmitter can be operated locally with three buttons, or remotely operated by a universal hand operator, configuration software, and mobile phone APP. It can perform display and configuration adjustments without affecting the output signal of 4~20mA DC.

- Adopts MEMS monocrystalline silicon highprecision pressure sensor
- Fast response, high stability, measuring accuracy 0.075%FS
- Range ratio up to 100:1
- Reversible in-place display screen with backlit high brightness LCD display
- Local zero clearing function, local zero, full point setting adjustment

Standard specifications

Standard zero point as the Reference Calibration Range, stainlesssteel 316L diaphragm, silicone oil as filing liquid.

Performance specifications

The overall performance includes but is not limited to [reference accuracy], [environmental temperature impact] and comprehensiveerror of other impact.

- Typical accuracy: ±0.075% of the upper limit of the range
- Annual stability: ±0.2% of the upper limit of the range

1)Reference accuracy of range adjustment

Includes linearity from zero, hysteresis and repeatability

Linear Output	TD≤10	±0.075%	Nominal range 6KPa, 40KPa.250KPa.1MPa.
Accuracy	10 < TD≤100	±0.0075TD%	3MPa,10MPa

Note: TD = Turn down

|URV|≥|LRV|, TD=URL/|URV|

|URV|≤|LRV|, TD=URL/|LRV|

2)Influence of ambient temperature

The accuracy of the range below 6Kpa is 0.075% in the normal temperature range, and the accuracy of the full temperature range of -20...70°C is 0.15%.

3)Power influence

When the power supply voltage changes within 12...36V DC,

the change of zero point and range does not exceed ±0.005%

of the upper limit of the range/V, which can be ignored.

Functional specifications

1)Range selection

Within the range of the upper and lower limits, the turn down ratio can be adjusted to select the range. For example, the upper and lower limit sare -40~40kpa. At this time, choose to adjust the turndown ratio to 10, and choose to output 0~4Kpa, or -4~4kpa. In order to ensure the accuracy, the turn down ratio should be as small as possible, generally within 10, too large will affect the accuracy.

2)Zero setting

Zero point and range can be adjusted to any value within the measurement range in the table, the calibration range must \geq the minimum range.

3)Impact of installation position

Install at any position, the maximum does not exceed 400Pa can be corrected by clearing.

4)Range and scope

Gauge pressure

Rang	e/URL/LRL	KPa	Turndown ratio
В	Range	0.26	130
Б	URL/LRL	-66	130
6	Range	0.440	1 100
С	URL/LRL	-4040	1100
_	Range	2.5250	4 4 9 9
D	URL/LRL	-100250	1100
	Range	101000	
E	URL/LRL	-1001000	1100
	Range	303000	
F	URL/LRL	-1003000	1100
	Range	10010000	
G	URL/LRL	-10010000	1100

Absolute pressure

Range	e/URL/LRL	КРа	Turndown ratio
Ц	Range	0~100250KPa	13
H	URL/LRL	0250KPa	15
I	Range	0~0.11MPa	110
	URL/LRL	01MPa	
J	Range	0~0.13MPa	1 20
	URL/LRL	03MPa	130

5)Output

Signal	Туре	Output
420mA	Linear	Two-wire
420mA+HART	Linear	Two-wire
RS485	Linear	Four-wire

6)Alarm current

- Low alarm mode(minimum): 3.8mA.
- High alarm mode(maximum):20.8mA
- No alarm mode(Hold): Maintain the high-alarm mode of effective current value before failure .
- Alarm current standard setting : high-alarm mode.

7)Response time

- The total damping constant time; equal to the sum of the damping time of electronic circuit components and the sensor case.
- Electronic circuit component damping time: 0-60S range adjustable.
- Sensing case damping time: ≤0.2S.
- Power-on start-up time after power failure: ≤5S
- Data recovery to normal use time: ≤2S.

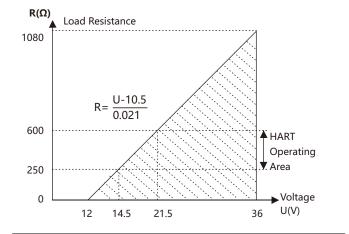
8)Ambient temperature

ltem	Operating conditions
Working temperature	-20+70℃[-4+158°F] with display
Storage temperature	-40+85°C[-40+185°F]
Working humidity	5100%RH@40℃
Production grade	IP65
Dangerous place	ExdIICT6

Installation

1)Power supply and load conditions

ltem	Operating conditions
Standard/flameproof	14.536VDC.The load resistance
	during communication is 250600 Ω
RS485	1236VDC



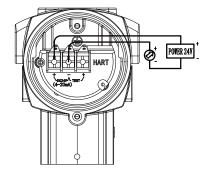
2)Electronic connection

Туре	Directions
Electrical	Aluminum alloy junction box, two outlets with
connection	internal thread M20*1.5, the main body is
_	blue, and the cover is white.
	One end is equipped with M20*1.5 waterproof
	connector, the other end is equipped with plug
	PVC material, applicable wire diameter 6-8 mm
	protection grade IP65.
	Explosion-proof configuration, one end is
	equipped with NPT1/2 female thread , the
Outlet	other end is equipped with plug, stainlesss
protection	teel material applicable wire diameter
	6-8 mm, protection grade IP65.
	Explosion-proof configuration, one end is
	equipped with M20*1.5 female thread, the
	other end is equipped with plug, stainlesss
	teel material, applicable wire diameter
	6-8 mm, protection grade IP65.

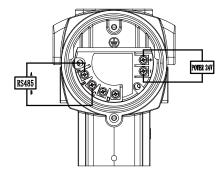
Physical specifications

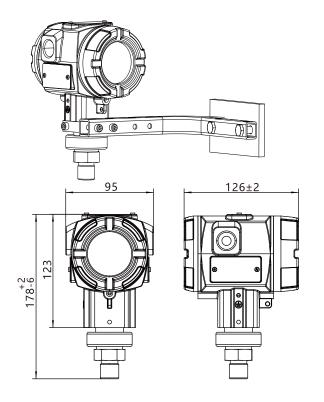
Sensor case	Stainless steel 316L
Diaphragm	Stainless steel 316L,Hastelloy, Tantalum
Process connection	Stainless steel 304,stainless steel 316L
Thread specification	M20*1.5,G1/2, NPTF1/2, others
Transmitter shell	Aluminum alloy material
Shell seal	NBR
Name plate	Stainless steel 304

Electric Connection & Dimensiones in mm



Note: The quick interface function is equivalent to the signal terminal.

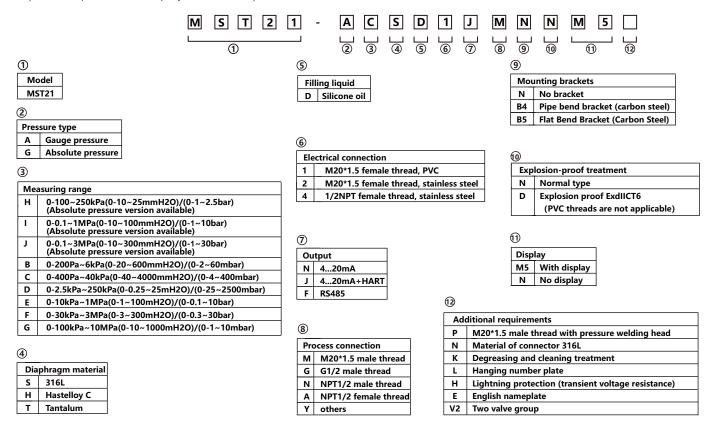




Ordering information

Example part number:MST21-GSD1NGNNM5L

MST21 pressure transmitter, gauge pressure type, 0 - 400 Pa range, 316L diaphragm, silicone oil fill, M20×1.5 female thread (PVC), 4 - 20 mA + HART output, M20×1.5 male thread for process connection, no bracket, common type for explosion - proof, with display, no extra requirements.





MONOCRYSTALLINE SILICON DIFFERENTIAL PRESSURE TRANSMITTER MODEL MST22



1)Orange style 2)Blue style

MST22 differential pressure transmitter uses single crystal silicon sensor chip which adopts German advanced MEMS technology. It has built-in temperature compensation element and extremely high measurement accuracy and long-term stability over a wide range of static pressure and temperature variations. It can measure level, density, pressure of liquid, gas and steam. It is widely used in industrial process control, automated manufacturing, aerospace automotive and marine petroleum and petrochemical, electronic power, medical and health and many other fields. MST22 can accurately measure differential process control and convert it into 4, 20 mA DC

pressure and convert it into 4-20 mA DC output signal and can be operated locally

through three buttons, and remotely operated by a general-purpose communicator, configuration software, and mobile phone APP, to perform display and configuration adjustment without affecting the 4-20 mA DC output signal.

- High product life and long-term stability
- Double Wheatstone bridge design, "double beam" resistance temperature characteristics complement each other, improve the antiinterference ability of the chip
- LCD with backlit digital watch head can display pressure, percentage and current and 0 to 100% analog indication

Standard specifications

Standard zero point as the Reference Calibration Range, stainlesssteel 316L diaphragm, silicone oil as filing liquid.

Performance specifications

The overall performance includes, but not limited to, the combined error of Reference Accuracy, Static Pressure Effect, Ambient Temperature Effect and other effects.

- Typical accuracy: ±0.075% of the upper limit of the range
- Annual stability: ±0.2% of the upper limit of the range

1)Reference accuracy of range adjustment

Includes linearity from zero, hysteresis and repeatability

Linear Output	TD≤10	±0.075%	Nominal range 6KPa,
			40KPa,250KPa,1MPa,
Accuracy	10 < TD≤100	±0.0075TD%	3MPa,10MPa

Note: TD = Turn down

|URV|≥|LRV|, TD=URL/|URV|

 $|URV| \le |LRV|$, TD=URL/|LRV|

2)Static pressure impact

Zero impact	±0.15TD% Upper range limit/10MPa
Full scale effect	±0.2TD% Upper range limit/10MPa

3)Ambient temperature influence of range below 6KPa

Range	Temperature	Accracy
Below 6 KPa	Normal Temp range	0.15%
	-2070°C Temp range	0.075%

4)Power supply impact

When the power supply voltage varies within $12 \sim 36V$ DC, the variation of zero point and range is not exceed $\pm 0.005\%$ of the upper limit range/V, which can be ignored.

Functional specifications

1)Range limits

Range can be adjusted by turn down adjustment within URL and LRL.Such as for URL/LRL -40 ~ 40 kPa, TD=10, range can be $0 \sim 4$ kPa or $-4 \sim 4$ kPa. Turn down should be as low as possible to ensure accuracy.In general, turn down is within 10, too big will affect accuracy

2)Zero point setting

Zero and span can be adjusted to any value within the measurement range in the table, as long as calibration range is not less than minimum range.

3)Impact of installation position

Install at any position, the maximum does not exceed 150Pa can be corrected by clearing.

3)Range and scope

Range	e/URL/LRL	КРа	Turndown ratio	
Р	Range	0.26	1 20	
В	URL/LRL	-66	130	
6	Range	0.440	1 100	
С	URL/LRL	-4040	1100	
-	Range	2.5250	1 100	
D	URL/LRL	-250250	1100	
	Range	201000		
E	URL/LRL	-5001000	1100	
	Range	303000		
F	URL/LRL	-5003000	1100	

5)Output

Signal	Туре	Output
420mA	Linear	Two-wire
420mA+HART	Linear	Two-wire
RS485	Linear	Four-wire

6)Alarm current

Low report mode(Minimum): 3.8 mA.

High report mode (maximum): 20.8 mA.

No report mode (hold) : keep the effective current value before the fault

Standard setting of alarm current: high alarm mode.

7)Response time

- The total damping constant time; equal to the sum of the damping time of electronic circuit components and the sensor case.
- Electronic circuit component damping time: 0-60S range adjustable.
- Sensing case damping time: ≤0.2S.
- Power-on start-up time after power failure: ≤5S
- Data recovery to normal use time: ≤2S.

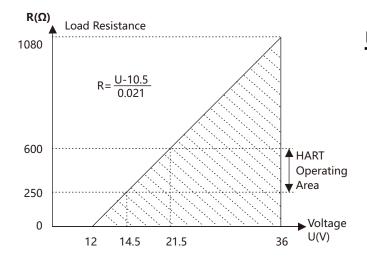
8)Ambient temperature

Item	Operating conditions
Working temperature	-20+70°C[-4+158°F] with display
Storage temperature	-40+85°C[-40+185°F]
Measuring medium	Silicon oil filled sensor:
temperature range	-40+120°C[-40+248°F]
Working humidity	5100%RH@40°C
Production grade	IP65
Dangerous place	ExdIICT6

Installation

1)Power supply and load conditions

ltem	Operating conditions
current mode	14.5-36VDC
	communication load:250-600 Ω
RS485	1236VDC



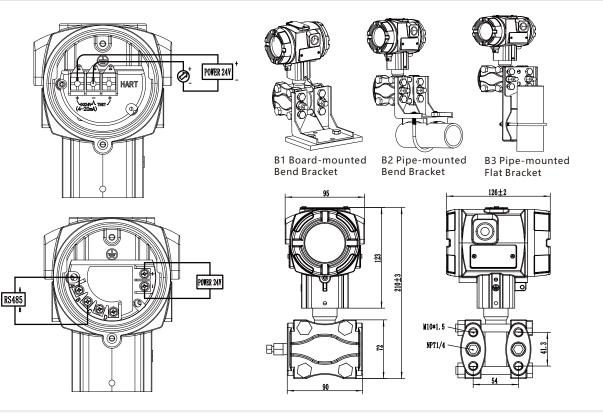
2)Electronic connection

Туре	Directions
Electrical	Junction box is Aluminum alloy with two outlets
connection	M20 *1.5 Female. Main body is orange.
	Shell cover is white.
	One end is equipped with M20*1.5 waterproof
	connector, the other end is equipped with plug
	PVC material, applicable wire diameter 6-8 mm
	protection grade IP65.
	Explosion-proof configuration, one end is
	equipped with NPT1/2 female thread , the
Outlet	other end is equipped with plug, stainlesss
protection	teel material applicable wire diameter
	6-8 mm, protection grade IP65.
	Explosion-proof configuration, one end is
	equipped with M20*1.5 female thread, the
	other end is equipped with plug, stainlesss
	teel material, applicable wire diameter
	6-8 mm, protection grade IP65.

Physical specifications

Sensor case	Stainless steel 316L
Diaphragm	Stainless steel 316L,Hastelloy,Tantalum
Process connection	Stainless steel 304, stainless steel 316L
Nut and bolt	Stainless steel (A4), color zinc
Sealing ring	NBR,FKM,EPDM
Transmitter shell	Aluminum alloy material
Shell seal	NBR
Name plate	Stainless steel 304

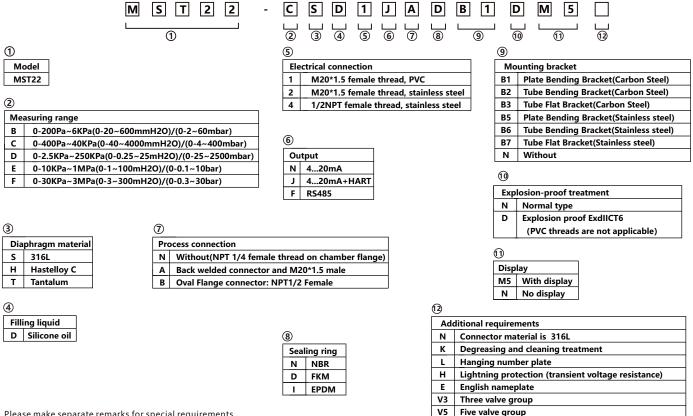
Electric Connection & Dimensiones in mm



Ordering information

Example part number:MST22-CSD1JADDNB1

The MST22 series differential pressure transmitter has a measurement range of 0...40 kPa, a 316L stainless steel diaphragm, and silicone oil filling. It features an M20*1.5 internal electrical connection, PVC housing, and outputs a 4~20 mA signal with HART. The process connection includes a pressure tap with M20*1.5 external threading and a welded pressure tap tube. The sealing ring is FKM, and the carbon steel mounting bracket is standard explosion-proof without additional requirements.



Please make separate remarks for special requirements.





1)Orange style 2)Blue style

The MST23 single flange differential pressure transmitter is composed of an MST22 differential pressure transmitter and a welded liquid level flange. The pressure is transmitted between the flange and the sensor using silicone oil or other filling liquid to avoid the influence of the measured medium on the measurement through the impulse tube, including crystallization, solidification, vaporization (boiling), condensation, fractionation (severe changes), etc. Used to measure the liquid level, flow rate, and pressure of liquid gases or vapors, and then convert them into 4-20 mA DC signal output.

- Adopts MEMS monocrystalline silicon high precision pressure sensor
- Provide standard HART bus communication mode perfect self-diagnosis and remote communicationSignal function
- High brightness LCD display with backlight, reversible in-place displaycurtain
- Local zero clearing function, local zero, full point setting adjustment function
- Convenient local current loop check function
- Various specifications of process connection can be selected according to requirements

specifications

The range is adjusted based on the standard zero point. The diaphragm is stainless steel 316L, and the filling liquid is silicone oil.

1)Reference Accuracy of Range Adjustment

Includes linearity from zero, hysteresis and repeatability

Linear output	TD≤10	±0.2%	Nominal range:	
accuracy	10 < TD≤100	±0.02TD%	40KPa, 250KPa 1MPa, 3MPa	
Note: TD = Turn down				
URV ≥ LRV , TD=URL/ URV				
URV ≤ LRV , TD=URL/ LRV				

2)Power impact

When the power supply voltage changes within 12 ~ 36V DC, the change of zero point and range does not exceed $\pm 0.005\%$ of the upper limit of the range/V, which can be ignored.

Functional specifications

1)Range limits

Within the range of the upper and lower limits, the TD value can be adjusted within the allowable range to select the range.For example, the upper and lower limits are -40~40kpa. At this time, choose to adjust the TD value to 10, and choose to output 0~4Kpa, or -4~4kpa.In order to ensure the accuracy, the TD value should be as small as possible, generally within 10, too large will affect the accuracy

2)Range and upper&lower limits

			1
Range	e/URL/LRL	KPa	Turndown ratio
с —	Range	140	1 10
	URL/LRL	-4040	140
	Range	2.5250	1100
D	URL/LRL	-250250	
_	Range	101000	1 100
E UF	URL/LRL	-5001000	1100
F	Range	303000	
	URL/LRL	-5003000	1100

3)Zero point setting

Zero point and range can be adjusted to any value within the measuring range in the table, as long as: calibration range \geq minimum range.

4)Installation position influence

It can be installed at any position through the liquid level flange. The best state is to keep the process flange in a vertical state. The offset caused by the position deviation can be corrected by clearing the operation.

5)Output

Signal	Туре	Output
420mA	Linear	Two-wire
420mA+HART	Linear	Two-wire
RS485	Linear	Four-wire

6)Alarm current

- Low alarm model (Min):3.8mA.
- High alarm mode(Max):20.8mA.
- Alarm current standard setting: high alarm mode.
- Non-alarm mode (maintain): maintain the current
- practical value before the fault.

7)Response time

- The total damping constant time equal to the sum of
 - the damping time constant of the electronic
 - circuitcomponents and the sensing bellows.
- Electronic circuit component damping time: 0-60S range adjustable.
- Sensing bellows damping time: ≤0.2S.
- Power-on start-up time after power failure: ≤5S.
- Data recovery to normal usage time: ≤2S.

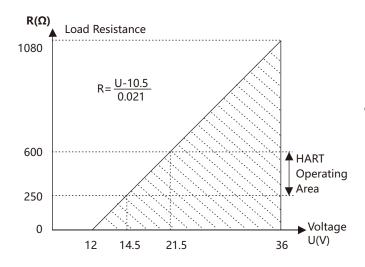
8)Ambient temperature

Operating conditions
-20+70°C[-4+158°F] with display
-40+85°C[-40+185°F]
Silicon oil filled sensor:
-40+120°C[-40+248°F]
5100%RH@40°C
IP65
ExdIICT6

Installation

1)Power supply and load conditions

Item Operating con			
Standard/	14.536VDC communication		
Flameproof	load:250600Ω		
RS485	1236VDC		



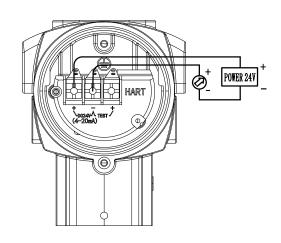
2)Electronic connection

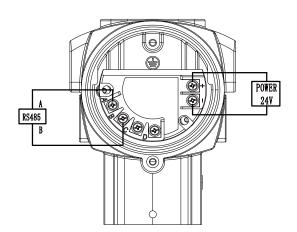
Туре	Directions
Electrical	Junction box is Aluminum alloy with two
connection	outlets M20 *1.5 Female. Main body is
	blue. Shell cover is white.
	One end is equipped with M20*1.5 waterproof
	connector, the other end is equipped with plug
	PVC material, applicable wire diameter 6-8 mm
	protection grade IP65.
	Explosion-proof configuration, one end is
	equipped with NPT1/2 female thread , the
Outlet	other end is equipped with plug, stainlesss
protection	teel material applicable wire diameter
	6-8 mm, protection grade IP65.
	Explosion-proof configuration, one end is
	equipped with M20*1.5 female thread, the
	other end is equipped with plug, stainlesss
	teel material, applicable wire diameter
	6-8 mm, protection grade IP65.

Physical specifications

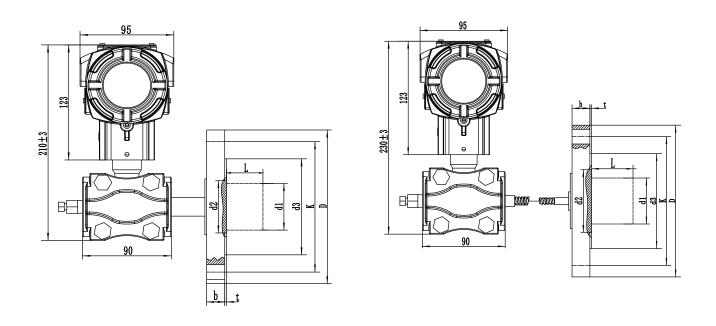
Sensor case	Stainless steel 316L				
Diaphragm	Stainless steel 316L, Hastelloy, Tantalum				
	FEP, PFA, PTFE coated film				
Process flange	Stainless steel 304, stainless steel 316L				
Nuts and bolts	Stainless steel(A4),Color zinc				
Sealing ring	NBR,FKM,EPDM				
Transmitter shell	Aluminum alloy				
Shell seal	NBR				
Name plate	Stainless steel 304				

Electrical connection



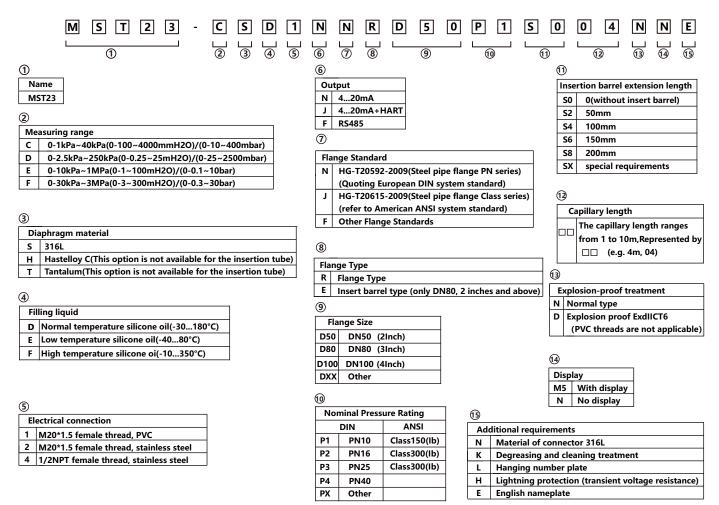


Dimensiones in mm



Ordering information

Example part number:MST23-CSD1NNRD50P1S004NN



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REMOTE FLANGE DIFFERENTIAL PRESSURE TRANSMITTER

Г24



1)Orange style 2)Blue style

MST24 double flange differential pressure transmitter is composed of the MST22 differential pressure transmitter and a small welded remote flange with a capillary tube. between the flange and the sensor, silicon oil and other filling fluids are used to transmit pressure, to prevent the measured medium from passing through the impulse pipe. Which will impact the measurement. The impact of the measured medium pass through the impulse pipe includes crystallization, solidification vaporization (boiling), condensation fractionation (severe change) and etc. The Transmitter is used to measure the liquid level, flow and pressure of liquid, gas or steam, and then convert it into 4...20 mA signal output. The working principle of MST24 double flange differential pressure transmitter is the same as MST22 differential pressure transmitter

except that the pressure transmission path on the positive pressure side is slightly different, that is the pressure acting on the highpressure side firstly passes through the diaphragm and the filing liquid of the remote flange, and then pass to the transmitter body via capillary tube, and finally reach the high pressure side of measurement sensor.

- Adopts MEMS monocrystalline silicon highprecision pressure sensor
- Fast response and high stability
- Convenient local current loop check function
- Various specifications of process connection can be selected according to requirements
- Provide standard HART bus communication mode perfect self-diagnosis and remote communicationSignal function

specifications

The range is adjusted based on the standard zero point. The diaphragm is stainless steel 316L, and the filling liquid is silicone oil.

1)Reference accuracy of range adjustment

Includes linearity, hysteresis and repeatability from zero.

Linear Output	TD≤10	±0.2%	Nominal range:		
Accuracy	10 < TD≤100	±0.02TD%	40kPa, 250kPa 1MPa, 3MPa		
Note: TD = Turn down					
URV ≥ LRV , T					
URV ≤ LRV , T					

2)Power impact

When the power supply voltage changes within $12 \sim 36V$ DC, the change of zero point and range does not exceed $\pm 0.005\%$ of the upper limit of the range/V, which can be ignored.

Functional specifications

1)Range limits

Range can be adjusted by turn down adjustment within URL and LRL. Such as for URL/LRL -40 ~ 40 kPa, TD=10, range can be 0 ~ 4kPa or -4 ~ 4kPa. Turn down should be as low as possible to ensure accuracy. In general, turn down is within 10, too big will affect accuracy

2)Range and scope

Rang	e/URL/LRL	KPa	Turndown ratio
C	Range	140	1 40
С	URL/LRL	-4040	140
_	Range	2.5250	1 100
D	URL/LRL	-250250	1100
_	Range	101000	
E	URL/LRL	-5001000	1100
	Range 303000	303000	
F	URL/LRL	-5003000	1100

3)Zero point setting

Zero point and range can be adjusted to any value within the measuring range in the table, as long as: calibration range \geq minimum range.

4)Installation position influence

It can be installed at any position through the liquid level flange. The best state is to keep the process flange in a vertical state. The offset caused by the position deviation can be corrected by clearing the operation.

5)Output

Signal	Туре	Output
420mA	Linear	Two-wire
420mA+HART	Linear	Two-wire
RS485	Linear	Four-wire

6)Alarm current

- Low alarm model (Min):3.8mA.
- High alarm mode(Max):20.8mA.
- Alarm current standard setting: high alarm mode.
- Non-alarm mode (maintain): maintain the current
- practical value before the fault.

7)Response time

- The total damping constant time equal to the sum of the damping time constant of the electronic circuitcomponents and the sensing bellows.
- Electronic circuit component damping time: 0-60S range adjustable.
- Sensing bellows damping time: ≤0.2S.
- Power-on start-up time after power failure: ≤5S.
- Data recovery to normal usage time: ≤2S.

8)Ambient temperature

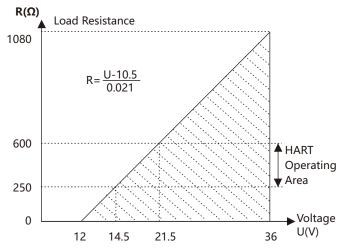
ltem	Operating conditions
Working temperature	-20+70°C[-4+158°F] with display
Storage temperature	-40+85°C[-40+185°F]
Measuring medium	Silicon oil filled sensor:
temperature range	-40+120°C[-40+248°F]
Working humidity	5100%RH@40°C
Production grade	IP65
Dangerous place	ExdIICT6

Installation

1)Power supply and load conditions

Item	Operating conditions
Standard/	14.536VDC
Flameproof	communication load:250600Ω
RS485	1236VDC

ANWOLL USA 5634 GRAND FLORAL BLVD HOUSTON TX 77041-5561



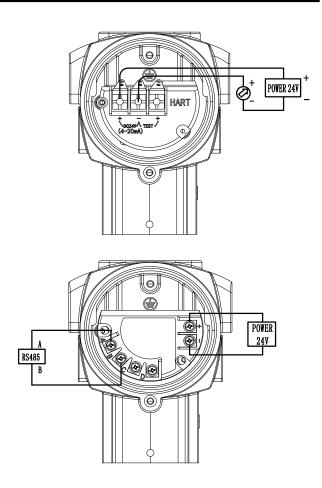
2)Electronic Connection

Туре	Directions
Electrical	Junction box is Aluminum alloy with two
connection	outlets M20 *1.5 Female. Main body is
	blue. Shell cover is white.
	One end is equipped with M20*1.5 waterproof
	connector, the other end is equipped with plug
	PVC material, applicable wire diameter 6-8 mm
	protection grade IP65.
	Explosion-proof configuration, one end is
	equipped with NPT1/2 female thread , the
Outlet	other end is equipped with plug, stainlesss
protection	teel material applicable wire diameter
	6-8 mm, protection grade IP65.
	Explosion-proof configuration, one end is
	equipped with M20*1.5 female thread, the
	other end is equipped with plug, stainlesss
	teel material, applicable wire diameter
	6-8 mm, protection grade IP65.

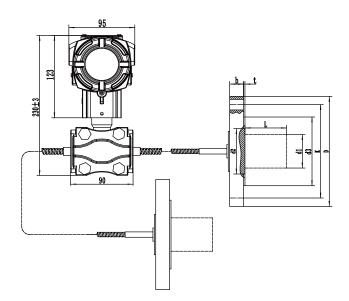
Physical specifications

Sensor case	Stainless steel 316L
Diaphragm	316L, Hastelloy, Tantalum, PTFE Coating
Process flange	Stainless steel 304,stainless steel 316L
Nuts and bolts	Stainless steel(A4),Color zinc
Sealing ring	NBR,FKM,EPDM
Transmitter shell	Aluminum alloy
Shell seal	NBR
Name plate	Stainless steel 304

Electrical connection



Dimensiones in mm(in)



Ordering information

Example part number:MST24-CSD1NNND50P2S20404NN

Model MST24 double flange differential pressure transmitter features a measurement range of 0.40 kPa, with a diaphragm made of 316L stainless steel and a filling liquid of room temperature silicone oil. It has an electrical connection with an M20 x 1.5 internal thread and PVC material, providing an output signal of 4...20 mA. The transmitter complies with the flange standard HG-T20592-2009 (Steel Pipe Flange PN Series), referencing European DIN system standards. It is designed as a flanged type with a flange size of DN50 and a nominal pressure rating of PN16. The insertion tube extends 50 mm, with high-pressure and low-pressure capillary lengths of 4 m each. The device is treated for ordinary explosion protection and does not include a display, featuring an English nameplate.

M S T 2 4 - C S D 1 N 0 2 3 4 5 6	№ 	N [9 9	P 2 S			E
① Model MST24 2	9 Flar D50 D80 D100 DXX	DN80 (DN100(3Inch)		14 E N D		
Measuring range C 0-1kPa~40kPa(0-100~4000mmH20)/(0-10~400mbar) D 0-2.5kPa~250kPa(0-0.25~25mH20)/(0-25~2500mbar) E 0-10kPa~1MPa(0-1~100mH20)/(0-0.1~10bar) F 0-30kPa~3MPa(0-3~300mH20)/(0-0.3~30bar)	10 No P1	minal Pres DIN PN10	sure Rating ANSI Class150(Ib)	-	(j) Di M	isplay 5 With display	
③ Diaphragm material S 316L	P2 P3 P4 PX	PN16 PN25 PN40 Other	Class150(lb) Class300(lb)	-	ĸ	C Degreasing and cleaning treatmer	nt
H Hastelloy C (not available for insertion tube option) T Tantalum (not available for insertion tube option) ④	1) Inse S0	_	el extension leng t insert barrel))	jth	L F E	Lightning protection (transient voltage resistance)	

Fil	Filling liquid			
D	Normal temperature silicone oil(-30180°C)			
F	Low temperature silicone oil(-40_80°C)			

F High temperature silicone oi(-10...350°C)

5

Electrical connection					
1	1 M20*1.5 female thread, PVC				
2	M20*1.5 female thread, stainless steel				
Λ	1/2NPT female thread stainless steel				

6

0ι	Output			
N 420mA				
J	420mA+HART			
F	RS485			

1

Fla	Flange Standard					
Ν	HG-T20592-2009(Steel pipe flange PN series)					
	(Quoting European DIN system standard)					
J	HG-T20615-2009(Steel pipe flange Class series)					
	(refer to American ANSI system standard)					
F	Other Flange Standards					

8

Fla	Flange Type				
Ν	Flanged type				
J	Insertion tube type (available only for DN80,				
	2 inches and above)				

12

S2

S4

S6

S8

SY

50mm

100mm

150mm

200mm

special requirements

High-pressure capillary tube length				
Capillary tube length from 1 to 10 m,				
represented as (e.g., 4 m, 04)				

13

Low-pressure capillary tube length				
Capillary tube length from 1 to 10 m,				
represented as (e.g., 4 m, 04)				



TEMPERATURE TRANSMITTER MODEL TT61



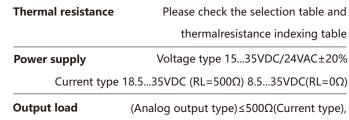
1)TT61 water pipe type 2)TT61 clamp type 3)TT61 split type 4)TT61 wall mounted type

The TT61 series temperature transmitter is a sensor specially designed for industrial applications . It is specially designed for lightning surge , electrostatic discharge , group pulse , pressure resistance, etc., and has strong anti-interference ability . There are five installation methods :wall mounted, airpipe/water pipe, split , and clamp . Three output modes of current , voltage, and thermal resistance areoptional. Strong onsite trial installation capability . Spring screws and terminal posts are designed forquick installation. It can be widely used in computer rooms, HVAC, buildings, storage and other places where temperature measurement and control are required.

- Multiple signal output types, suitable for various processing equipment
- Five installation structures, suitable for various installation environments
- The protection level is Ip65

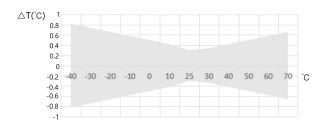
General					
Sensor	r High-precision thermal resistance,see selection table				
(resist	ance output ty	pe)/PT1000,Class A (analog output type)			
Accuracy	Туріса	l 0.20.5°C@0/25°C,see order reference			
No.±0).3℃@25℃,see	e temperature accuracy curve for details			
Operat	ing condit	ions			
Housing material		PC housing, stainless steel			
		probe (6mm) and casing			
Temperatu	ıre	-4070°C,095%RH(Non-condensing)			
IP grade		IP65			
Electric	al overviev	W			
Output		Resistance value ,please refer to			
th	e selection tab	le and thermal resistance indexing table			
		420mA or 010VDC,05VDC			

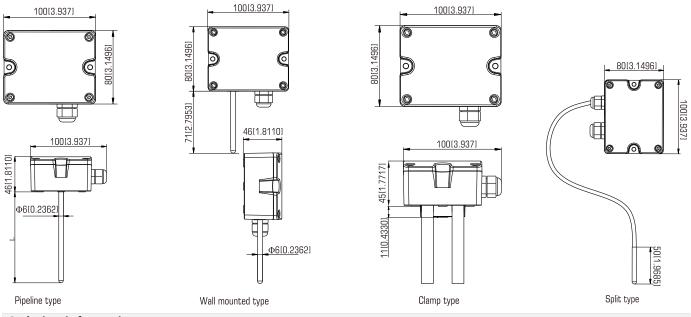
Dimensiones in mm(in)



 $\geq 2K\Omega(0...5V), \geq 3K\Omega(0...10V)$

Temperature Accuracy Curve(Analog output model)

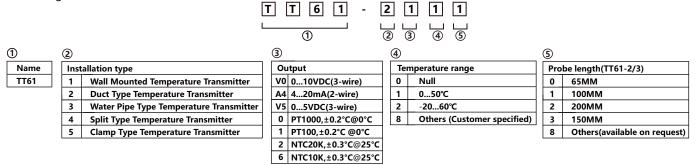




Ordering information

Example part number:TT61-2111

Model TT61 series temperature transmitter, Installation type Duct Type, Output PT1000, ±0.2°C@0°C, Temperature range 0...50°C, Probe length 100MM.



Please make separate remarks for special requirements.

TEMPERATURE AND HUMIDITY TRANSMITTER MODEL THT66



1)THT66-2 duct type temperature and humidity transmitter 2)THT66-1 wall-mounted temperature and humidity transmitter 3)THT66-3 split type temperature and humidity transmitter

THT66 series temperature and humidity transmitter is a transmitter specially designed for industrial applications it has three installation methods: wallmounted, duct type, and split. The three output modes of current, voltage and RS485 are optional. The on-site adaptability is strong, and the terminal design is suitable for rapid installation, it can be widely used in computer rooms, HVAC, buildings, warehousing and other places where temperature an humidit y measurement is required.

- Multiple signal output types, suitable for various processing equipment
- Thress installation structures, suitable for various installation environments
- The protection level is Ip65

General

Relative humidity				
	Digital type			
g range	0%100%RH			
Output:RS485/N	Modbus,010VDC,420mA optional			
	±3%@ 20℃ & 2080%RH			
time	≤10s(20°C,slow flow air)			
e				
Digital type or th	nermal resistance , see Order Ref No			
g range	050°C,-2060°C etc			
Output:RS485/N	Modbus,010VDC,420mA optional			
esistance	See order ref No. and thermal			
	resistance Indexing table			
Digital type:	±0.3°C@060°C Thermal resistance :			
typical	±0.20.4°C@25°C, see Order Ref No.			
	g range Output:RS485/N time e Digital type or th g range Output:RS485/N esistance Digital type:			

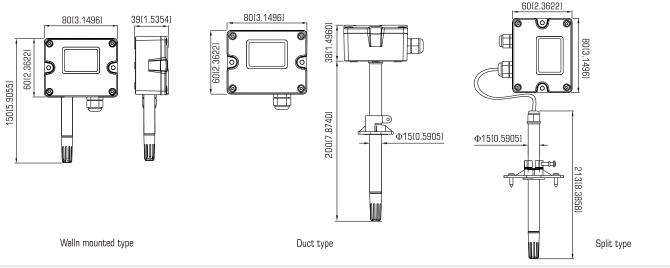
Operating conditions

-0.3 -0.4

Housing mate	rial PC shell, PA6 probe rod and polymer filte			
(optional stainless steel probe and stainless steel sintered filter				
Temperature Working:-2060°C,5%95%RH(Non-condensing)				
IP grade	IP6			
Electrical overview				
Power supply	Voltage type/RS-485:1535VDC/24VAC+20%			
	(AC power supply requires isolated power supply			
Current	t type: 19.535VDC(RL=500Ω)/9.535VDC(RL=0Ω			
Output load	≤250Ω(Current type), ≥2KΩ(Voltage type			
Digital senso	r temperature accuracy curve			
0.5 0.4 0.3				

0.1 0 60 80 ° -0.1-0.2

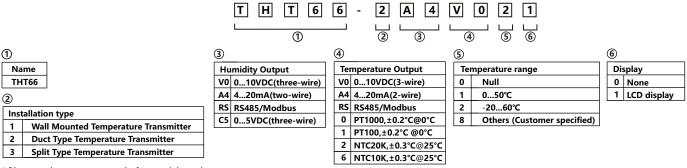
Dimensiones in mm(in)



Ordering information

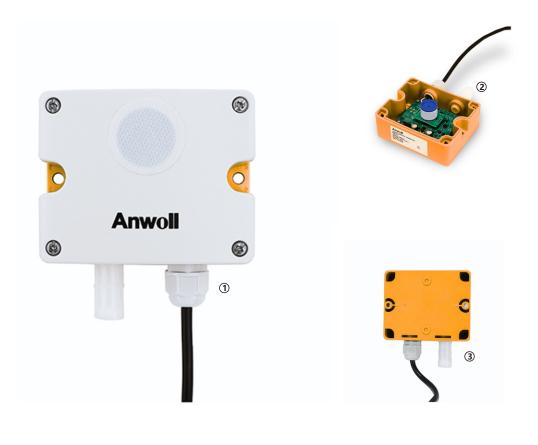
Example part number:THT66-2A4V021

Model THT66 Temperature and Humidity Transmitter, Installation type Duct Type, Humidity Output 4~20mA(2-wire), Temperature Output 0~10VDC(3-wire), Temperature range -20~60°C, Display LCD display.



* Please make separate remarks for special requirements.

CARBON DIOXIDE TRANSMITTER MODEL CDT71



1)CDT71 front view 2)CDT71 internal structure diagram 3)CDT71 back view

CDT71 Wal-mounted Carbon Dioxide Transmitter is based on the fact that different gases have different absorption capabilities for infrared light in a specific band. It measures the concentration of the measured gas by measuring the degree of infrared light absorption. Compared with electrochemical sensors, it has the characteristics of long life and good stability, wide power supply range and power supply antireverse connection protection. It is suitable for indoor air quality detection, air conditioners. air purifiers. vegetable greenhouses and other occasions to measure carbon dioxide gas.

- Multiple signal output types, suitable for various processing equipment
- Up to 5 years of service life
- The protection level is Ip6X

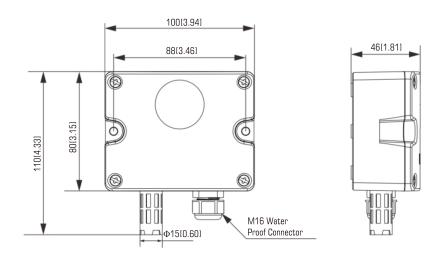
General Basic information Measured concentration ±(40PPm+3%Fs)@25°C			Operating conditions	
			Working temperature Working humidity	-10°C~50°C
				0-80%RH(no condensation)
Preheat time	2min(available)	10min(maximum accuracy)	IP grade	IP6X
Accuracy	0-2000PPN	1/0-5000PPM/0-10000PPM		
Service life		>5 years		
Electrical overviev	N			
Electrical prope	Electrical properties		3-wired	4-wired

Electrical properties	3-wired			4-wired
Output signal	420mA	05V	010V	RS485
Working voltage	1030Vdc	1030Vdc	1630Vdc	1030Vdc

Wiring instructions

	RS485 digital out	tput type wiring	Voltage	e/Current	analog output type wiring
Power supply	Red	Positive power	Power supply	Red	Positive power
rower supply	Black	Negative power		Black	Negative power
Communication	Green	485-A	Communication	Green	Voltage/Current output positive
communication	White	485-B		White	Voltage/Current output negative

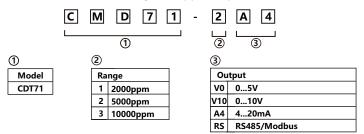
Dimensiones in mm(in)



Ordering information

Example part number:CDT71-2A4

Model CDT71 Wal-mounted Carbon Dioxide Transmitter ,Range 5000ppm,output 4...20mA.



* Please make separate remarks for special requirements.

CARBON MONOXIDE TRANSMITTER MODEL CMT76



1)CMT76 front view 2)CMT76 internal structure diagram 3)CMT76 back view

CMT76 wall-mounted carbon monoxide transmitter uses electrochemical principle to detect carbon monoxide in the air, with good selectivity and stability. Three output modes of current, voltage and RS485 are optional, wide voltage power supply and power supply ant-reverse connection protection, It is suitable for carbon monoxide gas monitoring in indoor air quality detection, air conditioners, air purifiers, underground parking lots and other occasions.

- Multiple signal output types, suitable for various processing equipment
- Up to 5 years of service life
- The protection level is Ip6X

General		Operating co	nditions
Basic information		Temperature	Working:-10+50°C[+14+122°F]
Measured concentration	0-500ppm/0-1000ppm	Working humidity	15%90%RH
Response time(T90)	≤15s	Work pressure	1atm(Standard Atmospheric Pressure)±10%
Accuracy	±5%F. S@25°C	IP grade	IP6x
Service life	>5 years		

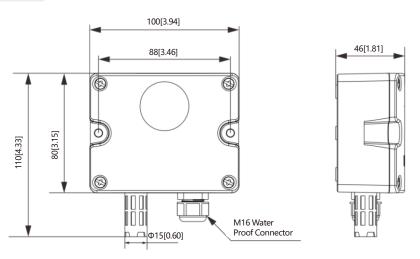
Electrical overview

Electrical properties	3-wired			4-wired
Output signal	420mA 05V 010V		RS485	
Working voltage	1030Vdc	1030Vdc	1630Vdc	1030Vdc

Wiring instructions

	5 digital output ty	pe wiring	Voltage	e/Current	analog output type wiring
Power supply Red		Positive power	Power supply	Red	Positive power
	Black	Negative power		Black	Negative power
Communication	Green	485-A	Communication	Green	Voltage/Current output Positive
	White	485-B		White	Voltage/Current output negative

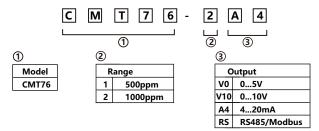
Dimensiones in mm(in)



Ordering information

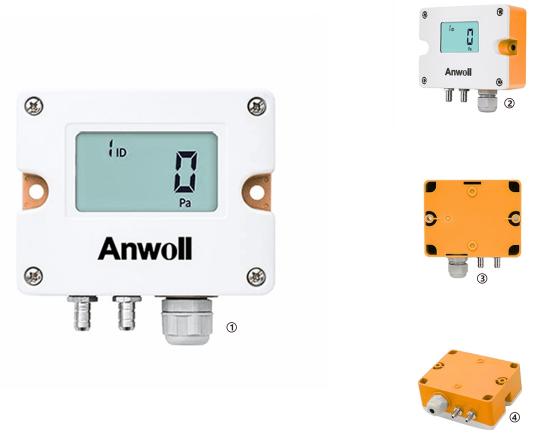
Example part number:CMT76-2A4

Model CMT76 Wall-mounted Carbon Monoxide Transmitter ,Range 1000ppm,output 4...20mA.



Please make separate remarks for special requirements.





1)DPT51 main view 2)DPT51 side view 3)DPT51 dorsal view

DPT51 differential pressure transmitter is the latest release. It has flexibility of multirangesensor, high function of single range sensor, and is ideal for industrial appl i cation. The differential pressure transmitter has built in multiple optional pressure range and unitselection, and is easily to adjust through built-in DIP switch. The shell protect is Ip65 and equipped with stainless steel conduit for convenient wire arrangement. It is widely used in HVAC, energy management system, VAV and fan control, clean room pressure, smokehood control, oven pressurization, furnace ventilation, furnace ventilation control etc.

- Rich signal output types
- Accuracy up to ±1%F.S
- The protection level is Ip65

General

Basic information	
Measured medium	Air or Neutral gas
Measurement range	±100Pa,±1000Pa,±10000Pa
Accuracy	±1%F.S
Overload pressure	5kPa(DPT-6);10kPa(DPT-0);80kPa(DPT-2)
Response time	0.5s(Default)/1.0s/2s/4s
Pressure connection	Metal barbed interface,φ6.2mm
Housing material	UL94-V0/PC
Display	LCD backlight digital display

Operating conditions

Temperature	0peration:-20+70°C[-4+158°F]
	Compensated:-10+60°C[-14+140°F]
	Storage:-40+70°C[-40+158°F]
IP grade	IP65

Electrical overview

Power consumption

≤1.5W

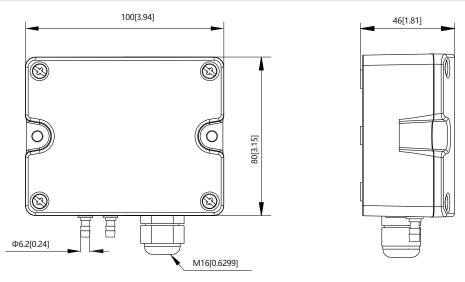
Communication RS-485 standard interface, Modbus RTU protoco

Electromagnetic compatibility

EN 61326-1

Electrical properties	2-wired	3-wired	4-wired	6-wired
Output signal	4~20mA(No backlight)	05VDC/010VDC	RS485	420mA&010VDC
Power supply	1230 VDC	1230VDC/24VAC+20%	930VDC	1230VDC/24VAC+20%

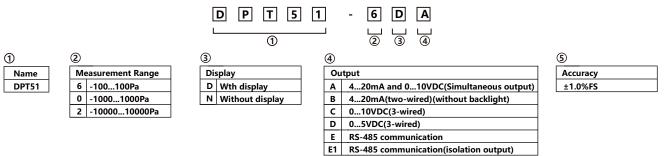
Dimensiones in mm(in)



Ordering information

Example part number:DPT51-6DA

Model DPT51 differential pressure transmitter, Measurement Range -100~100Pa, Display Wth display, Output 4...20mA and 0...10VDC(Simultaneous output).



* Please make separate remarks for special requirements.

AIR VELOCITY TRANSMITTER MODEL ST81



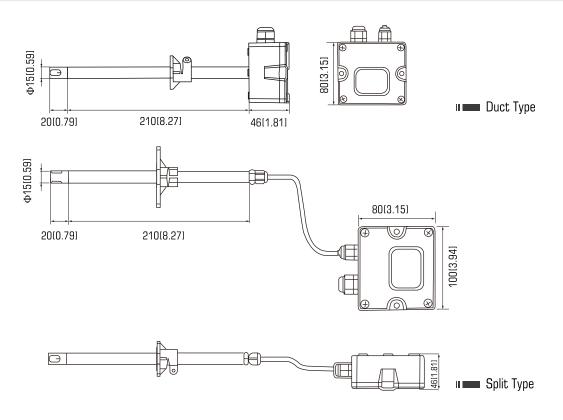
1)ST81 main view 2)ST81 front view 3)ST81 side view

Based on heat conduction principle, the sensor probe of air velocity transmitter ST81is made of MEMS technology, which has the characteristics of high measurement accuracy, wide measurement range, good stability and strong environmental adaptability. It is an ideal choice for wind speed measurement in HVAC, duct air volume measurement, process and environmental control and other applications.

- Widely used, suitable for pipeline, environmental control and other scenarios
- Accuracy up to 0.01m/s
- The protection level is IP65

General		Operating conditions		
Basic information		Temperature	Working:-1060°C[+14+140°F]	
Range ^①	0-10m/s,0-15m/s,0-20m/s,0-30m/s		Storage:-2080°C[-4+176°F]	
Resolution	0.01m/s	IP grade	Shell IP65,Probe IP20	
Accuracy \pm (0.2m/s+	3% of mv)(20°C,45%RH and 1013hPa)	Electrical ov	verview	
Probe length 210mm(optional)		Working Voltage	e 24VAC/DC±20%	
Display Optional LCD	lisplay with unit display and backlight	Output mode	RS485/Modbus,010VDC/420mA(3-wire)	
Housing material	Shell PC, Probe Pa6	Output load	≤500Ω/(Current output),≥2KΩ(Voltage output)	
①Can be selected by jump	per(Analog output version)	Electromagnetic	compatibility EN 61326-1	

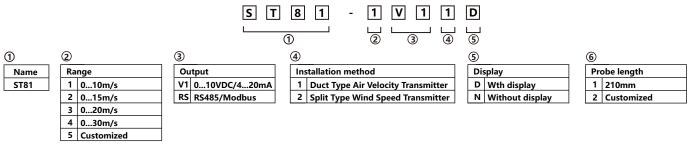
Dimensiones in mm(in)



Ordering information

Example part number:ST81-1V11D

Model ST81 Air Velocity Transmitter ,Range 0...10m/s,Output 0...10VDC/4...20mA,Installation method Duct Type Air Velocity Transmitter, Display Wth display.



Please make separate remarks for special requirements.



ELECTROMAGNETIC FLOWMETER MODEL EFM61









The main function of the EFM61 electromagnetic flowmeter is to measure the flow of conductive fluid. It uses the principle of electromagnetic induction to calculate the flow rate of a conducting fluid by measuring the electromotive force induced by an applied magnetic field. Electromagnetic flowmeters can measure positive and negative flow, display instantaneous flow and cumulative flow, and are suitable for a variety of conductive media, such as liquids and liquidsolid two-phase suspension liquids.

- High accuracy, Linearity and Stability.
- Good reliability and Anti-interference performance.
- Good pressure sealing and High intelligence.
- No pressure loss, lower requirements for straight pipe section.
- Good corrosion resistance and wear resistance.
- The converter can be in the same shape or separate form with the sensor.
- Two-way measurement system, which can measure forward flow and reverse flow.
- Special production process and high quality materials are adopted toensure that the performance of products remains stable for a long time.

ANWOLL USA 5634 GRAND FLORAL BLVD HOUSTON TX 77041-5561

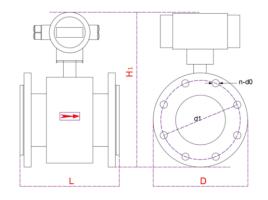
Technical parameter

General

103000mm		
0.5		
1.6MPa,1.0MPa,0.6MPa		
Neoprene rubber, polytetrafluoroethylene,		
egarrubber, polyperfluorinated		
e propylene, PFA, ceramics, etc		
Carbon steel,stainless steel		
(304,316,316L)		
pe electromagnetic flowmeter.		
l converter are connected by a		
ngth should be less than 100m		
15m/s		
onmrnt:-2560°C[-13+140°F]		
IP65,IP68		
420mA,HART,RS485		

Signal electrode form	Fixed, scraper type
Electrical connection	Terminal
Fluid conductivity	≥50µS/cm
Consumed power	< 20W
Electrode material	316L,HastelloyB,HastelloyG,Titanium,
tantalum,	platinum-iridium alloy, tungsten carbide
Ground ring material Stainless steel 1Cr18N	
Number of electrodes	Standard 3 electrodes
(two measuring electrodes, one impact electroo	

Dimensiones in mm(in)



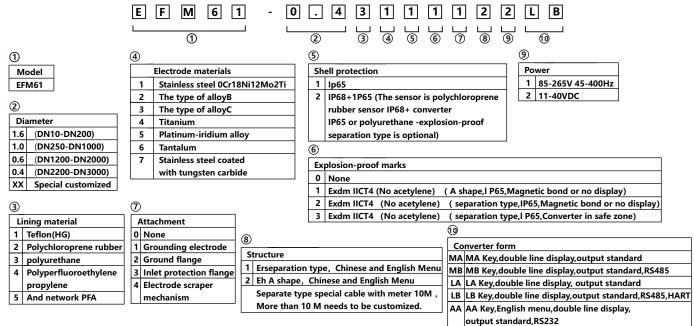
Ordering information

Power supply

Example part number:EFM61-0.43111122LB

Model EFM61 electromagnetic flowmeter, Flange size (DN2200-DN3000), Lining material polyurethane, Electrode materials Stainless steel 0Cr18Ni12Mo2Ti, Shell protection Ip65, Explosion-proof marks Exdm IICT4 (No acetylene) (A shape, I P65, Magnetic bond or no display), Attachment None, Structure Eh A shape, Chinese and English Menu, Power 11-40VDC, Converter form LB Key, double line display, output standard, RS485, HART

220VAC,24VDC



Please make separate remarks for special requirements.



VORTEX FLOWMETER MODEL VFM71



The working principle of vortex flowmeters is based on the Karman vortex principle, which states that when an object is placed in a fluid, alternating shedding vortices will occur on both sides of the object, a phenomenon known as the Karman vortex street. By detecting the frequency of these vortices, the flow rate of the fluid can be calculated. This flowmeter is suitable for measuring gas, liquid and steam and other media, widely used in petroleum, chemical, electric power, light industry and other industries.

- High accuracy, linearity and stability
- Simple and firm structure, no moving parts, high reliability
- Good reliability and anti- interference performance.
- Wide range of applications, the flow of steam, gas and liguid can be measured.
- Smaller pressure loss, lowe roperating costand more energy saving

ANWOLL USA 5634 GRAND FLORAL BLVD HOUSTON TX 77041-5561

Technical parameter

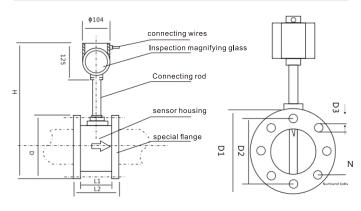
General

Basic information

Path	1			15600mm
Path	Liquid (test medium, normal temperature water)		Gas (Test medium: 20 °C ,	
(mm)	Standard	Extended	air unde	er 101325Pa)
15	0.8-6	0.5-8	6-40	5-50
20	1-8	0.6-12	8-50	6-60
25	1.5-12	0.8-16	10-80	8-120
40	2.5-30	2-40	25-200	20-300
50	3-50	2.5-60	30-300	25-500
65	5-80	4-100	50-500	40-800
80	8-120	6-160	80-800	60-1200
100	12-200	8-250	120-1200	100-2000
125	20-300	12-400	160-1600	150-3000
150	30-400	18-600	250-2500	200-4000
200	50-800	30-1200	400-4000	350-8000
250	80-1200	40-1600	600-6000	500-12000
300	100-1600	60-2500	1000-10000	600-16000
400	200-3000	120-5000	1600-16000	1000-25000
500	300-5000	200-8000	2500-25000	1600-40000
600	500-8000	300-10000	4000-40000	2500-60000

Maximum flow rate	10m/s
Comprehensive accuracy	1.0
Nominal pressure	4.0MPa,2.5MPa,1.6MPa,0.6MPa
Connection flange material	stainless steel (304,316,316L)
Operating conditions	
Ambient temperature	-2560°C[-13+140°F]
IP grade	IP65
Electrical overview	
Output signal	420mA,HART,RS485
Power supply	220VAC,24VDC
Electrical connection	Terminal
Fluid conductivity	≥50µS/cm
Consumed power	≤20W

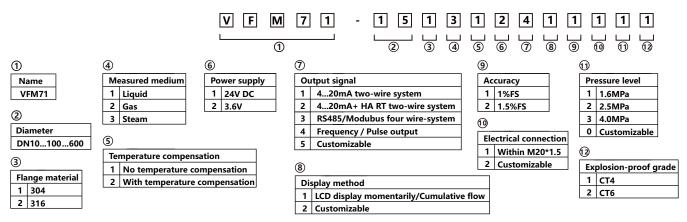
Dimensiones in mm(in)



Ordering information

Example part number:VFM71-151312411111

Model VFM71 vortex flowmeter, Diameter DN 15mm, Flange material 304, Measured medium Steam, Temperature compensation No temperature compensation, Power supply 3.6V, Output signal Frequency / Pulse output, Display method LCD display momentarily/Cumulative flow, Accuracy 1%FS, Electrical connection Within M20*1.5, Pressure level 1.6MPa, Explosion-proof grade CT4.



Please make separate remarks for special requirements.



TURBINE FLOWMETER MODEL TFM81



The working principle of turbine flowmeter is mainly based on the action of fluid inertia force. When the measured flow volume flows through the turbine, the inertia force of the fluid causes the turbine blades to be subjected to a torque, thus making the turbine spin. As the flow rate increases, the turbine spins faster, and by measuring the speed of the turbine, the flow rate of the fluid can be calculated.

Turbine flowmeters usually consist of a turbine, bearing, sensor and display device. When the fluid flows through the turbine, the turbine blade is rotated by the thrust of the fluid. The sensor detects the turbine speed and converts it into an electrical signal, and finally displays the flow value through the display device.

- High precision linear stability
- Good reliability and anti-interference performance
- No zero drift, strong anti-interference ability

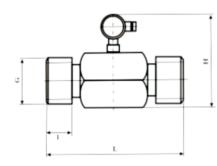
General

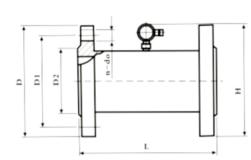
Basic information								
Path 10-500mm			Flow range (m3/h)			Fluid T	Nominal Pressure	
Maximum flow rate	10m/s	(mm)	0.2	0.5	1.00	One-piece	Explosion-proof	(1400)
Comprehensive accuracy	1.0	10		0.4-1.2	0.2-1.2			6.3
Nominal pressure	10MPa,6.3MPa,2.5MPa,1.6MPa	15	12-4	0.6-6	0.4-6			2.5
Connection flange material	stainless steel (304, 316,316L)	25	3-10	1.2-12	1.2-12			6.3
Operating conditions		40	8-25	3-30	3-30	_		16
Ambient temperature	-25+60°C[-13+140°F]	50	12-40	5-50	5-50			
IP grade	IP67	80	20-100	16-100	12-120			6.3
Electrical overview		100	50-160	25-160	20-200	-20+50 -20+100		2.5
Output signal	420mA,HART,RS485	150	100-300	50-300	40-400			
Power supply	220VAC,24VDC	200	200-600	100-600	80-800			
Electrical connection	Terminal	250	300-1000	160-1000	120-1200			
Fluid conductivity	≥50µS/cm	300		250-1600				2.5
Consumed power	≤20W	400		400-2500				
Diameter parameter ga	as	500		600-4000				

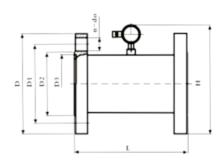
Diameter parameter liquid

Path (mm)	Flow range (m3/h)	Fluid Temperature Range (°C)		Minimum Allowable Fluid	Nominal Pressure	Accuracy
		One-piece	Explosion-proof	Density (kg/m³)	(Mpa)	
15	4-16					
25	8-20	-20+55	-20+70	0.6	1.6	±1.5%
40	20-100	-20+100			2.5	±1.5%
50	30-200				6.3	

Dimensiones in mm(in)



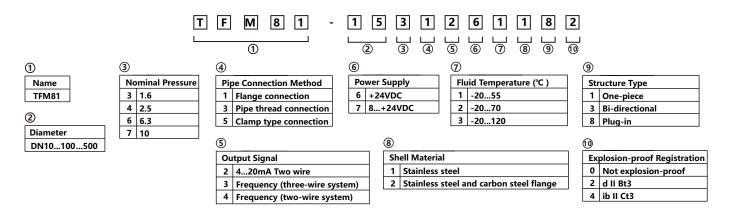




Ordering information

Example part number:TFM81-1531261182

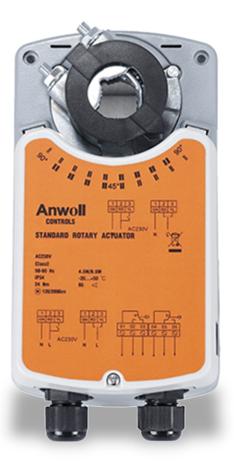
Model TFM81 turbine flowmeter, Diameter Dn15, Nominal Pressure 1.6, Pipe Connection Method Flange connection, Output Signal 4...20mA Two wire, Power Supply +24VDC, Fluid Temperature (°C) -20...55, Shell Material Stainless steel, Structure Type Plug-in, Explosion-proof Registration d II Bt3.



Please make separate remarks for special requirements.



STANDARD ACTUATOR MODEL SA61



SA61 series electric damper actuator adopts imported DC motor/brushless motor to supply power energy, And it can offer 2NM~40NM torque, it can directly works on rotar y control of air system and water systems, and can realize signal control of voltage 0(2)-10V and current 0(4)-20mA also can provide mutual convertible current or voltage signal feedback ,It is easy to install and can be easily fixed on the square shaft, round shaft or other shaped damper shaft, This product has advantage of long life, low noise, and multi-functional intelligent control.The whole series of products are available with manual operation function. The protection grade of the product is IP54, and it's stable and efficient, with full overload protection function. All products are equipped with manual limit.

- Suitable torque actuator is selected according to the throttle area
- The shaft Angle of the actuator can be manually adjusted
- Low power consumption

General

Function parameter		_						
torque	2Nm	4Nm	6Nm	8Nm	16Nm	24Nm	32Nm	
suitable air door size	0.3m²	0.5m²	0.8m²	1.2m²	2.5m²	3.7m²	5.2m²	
Rotation direction		C	an be	selec	ted by	/ DIP s	witch	
manual adjustment		Actua	tor car	n be n	nanua	lly adj	usted	
after pres	ssing t	he ge	ar set (disen	gagen	nent b	utton	
Nominal/Maximum Corner 90					90)°/95°		
noise level 46dI				46dBA	A (with	nin 1 n	neter)	
location indication	location indication			Rotation angle provided by				
					positio	on ind	icator	
L×W×H/mm		de	tail se	e dim	ensio	nal dra	awing	
Minimum shaft lengt					> 5	50mm		
Weight			<1.3 Kg					

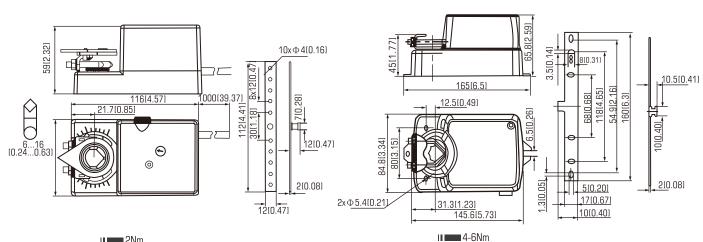
Operating conditions

Electrical grade	III (safety low voltage) II (double insulation)				
IP grade		IP54			
Working environme	ent temperature	-20+50°C[-4+122°F]			
Storage ambient te	mperature	-20+50°C[-4+122°F]			
Temperature test	95% RH, non	-condensing /EN 60730-1			

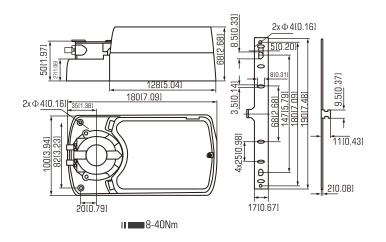
Electrical overview

Rated voltage	AC24	V 50/60Hz DC24V /AC100240V 50/60Hz
Rated voltage ra	nge	AC/DC19.228.8V /AC85265V
Power consumption		Operating state 4.5w,Standby state 0.5W
Wire specification	n	0.5mm ²
Terminal specific	ation	Max 2mm ²

Dimensiones in mm(in)

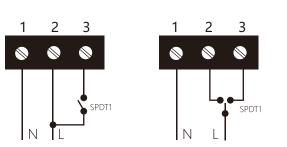


II 2Nm



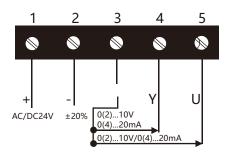
ANWOLL USA 5634 GRAND FLORAL BLVD HOUSTON TX 77041-5561

Wiring mode



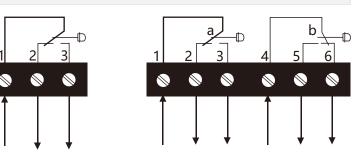
Two-point control wiring Three-point control wiring

Switch outputconnection method, working Voltage:AC/DC 24V;AC100V...AC240V

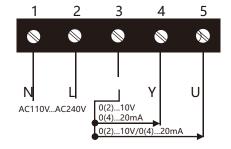


Volt0(0)...10V input resistance≥200KΩ Current0(4)...20mA input resistance=500Ω Analog wiring, the power supply Voltage can be AC/DC 24V

Ordering information



One set of auxiliary switch wiring methods Resistive load 3A 220V Inductive load 1.5A 220V



Volt0(0)...10V input resistance≥200KΩ Current0(4)...20mA input resistance=500Ω Analog wiring, supply voltage AC100V...AC240V

			1		
Model	Output Torque	Power Supply	Running Time	Control Signal	Optional F auxiliary switch
SA61-0224/230-K/KF	2N	24V/230V	20-255	ON-OFF control	One set of auxiliar y switches
SA61-0224/230-M/MF	2N	24V/230V	20-255	0(2)~10V/0(4)~20mA	One set of auxiliar y switches
SA61-0424/230-K/KF	4N	24V/230V	25-30S	ON-OFF control	Two sets of auxiliar y switches
SA61-0424/230-M/MF	4N	24V/230V	25-30S	0(2)~10V/0(4)~20mA	Two sets of auxiliar y switches
SA61-0624/230-K/KF	6N	24V/230V	25-30S	ON-OFF control	Two sets of auxiliar y switches
SA61-0624/230-M/MF	6N	24V/230V	25-30S	0(2)~10V/0(4)~20mA	Two sets of auxiliar y switches
SA61-0824/230-K/KF	8N	24V/230V	30-45S	ON-OFF control	Two sets of auxiliar y switches
SA61-0824/230-M/MF	8N	24V/230V	30-455	0(2)~10V/0(4)~20mA	Two sets of auxiliar y switches
SA61-1624/230-K/KF	16N	24V/230V	30-45S	ON-OFF control	Two sets of auxiliar y switches
SA61-1624/230-M/MF	16N	24V/230V	30-45S	0(2)~10V/0(4)~20mA	Two sets of auxiliar y switches
SA61-2424/230-K/KF	24N	24V/230V	120-160S	ON-OFF control	Two sets of auxiliar y switches
SA61-2424/230-M/MF	24N	24V/230V	120-160S	0(2)~10V/0(4)~20mA	Two sets of auxiliar y switches
SA61-3224/230-K/KF	32N	24V/230V	160-200S	ON-OFF control	Two sets of auxiliar y switches
SA61-3224/230-M/MF	32N	24V/230V	160-200S	0(2)~10W/0(4) ~20mA	Two sets of auxiliar y switches
SA61-4024/230-K/KF	40N	24V/230V	200-2205	ON-OFF contro	Two sets of auxiliar y switches
SA61-4024/230-M/MF	40N	24V/230V	200-2205	l0(2)~10V/0(4)~20mA	Two sets of auxiliar y switches

Please make separate remarks for special requirements.



SPRING RESET DAMPER ACTUATOR MODEL SRA81



SRA81 series electric damper actuators adopt imported DC motor/brushless motor to provide power with torques of 5NM. It is widely used in building ventilation felds, which can realize mechanical reset when power off and electric start, providing more than 30000 times of repeated action.

- Fast and reliable reset in case of power failure or emergency
- The actuator is equipped with a highprecision control system for precise execution and positioning

General

Function parameter

runction parameter	
Torque	5Nm
Suitable damper size	Under normal wind resistance,
1NM matches 0.1 square m	eter (indude airtight valve matching scheme)
Rotating direction	Manual adjustment available
Manual operation	Available in all series
Rotation angle	Max 95°.
Full st	roke can be adjusted by mechanical limit
Run time	Adjustable within the parameter range
Noise level	Motor running 46db, spring reset 62db
Position indication	mechanical indication
Dimension	See Dimension drawing
Length of Shaft	>50mm
Size of Shaft 10-2	0 Round Shaft 10x1016x16 Round Shaft
Weight	<1.8kg

Operating conditions

Electrical grade	III (safety low voltage) II (double insulation				
IP grade		IP54			
Working environn	nent temperature	-20+50°C[-4122°F]			
Storage ambient t	emperature	-30+80°C[-22176°F]			
Temperature test	95% RH, non-condensing /EN 6073				

Electrical overview

Rated voltage	AC24V 50/	60Hz DC24V /AC100240V 50/60Hz
Rated voltage rai	nge	AC/DC19.228.8V /AC85265V
Power consumpt	ion	Run status standby status
Cable size		0.5mm ²
Auxiliary switch	rating	34 AC230V

Wiring diagram

<80°_

S4 | S5

GR/

PUR

S6

II ON-OFF type

≤

<5°

S2

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1

BLK

⊥

Ν

GRN

S3

3(1.5)A AC250V

2

RED

+ DC 24V

AC 24V

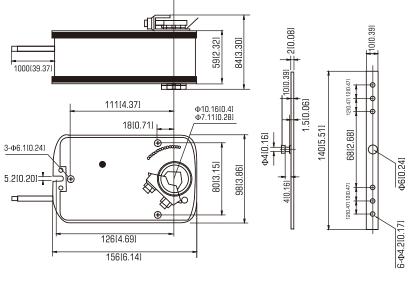
L AC 230V

BLU

S1

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Dimensiones in mm(in)



11 5Nm

Ordering information

Model	Output Torque	Power Supply	Running Time	Control Signal	Optional F auxiliary switch
SRA81-T0524-K/T1024-K	5N/10N	24V		ON-OFF control	/
SRA81-T0524-KF/T1024-KF	5N/10N	24V	Motor run time 70s;	ON-OFF control	Two sets of auxiliary switches
SRA81-T05230-K/T10230-K	5N/10N	230V	Spring reset time<20s	ON-OFF control	/
SRA81-T05230-KF/T10230-KF	5N/10N	230V		ON-OFF control	Two sets of auxiliary switches

Please make separate remarks for special requirements.

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ELECTRICAL REGULATING BALL VALVE MODEL EBV91







In HVAC and water system, ball valves are used as automatic control valves. It has adjustable flow ratio, high reliability and long ser vice life. It uses graphite to strengthen the valve body sealing ring and double EPDM valve stem sealing ring. It has integrated valve distribution butterfly inside and is not afraid of reverse pressure difference. It has the characteristic of equal percentage flow. Its high turn-off pressure is 1.4MPa. The rated working pressure difference is 0.35Mpa. It has a manual actuator short-circuit push button. Working temperature is -5 to 121 °C. It is suitable for central air conditioning, hot and cold water supply system, steam humidification, etc.

- The electric ball valve actuator has the characteristics of quick switching, which can realize the opening and closing of the valve in a short time
- The fluid resistance of the electric ball valve actuator is small, which can reduce the pressure loss of fluid in the pipeline and improve the overall efficiency of the pipeline

General

Function parameter

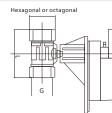
Diameter range	DN15-DN150
Connection mode	DN15-DN50(female thread connection)
	DN65-DN150(flanged connection)
Adjustable ratio of valve	>100
Leakage rat	No leakage from the factory
Max. allowable pressure differe	ence 0.35Mpa
Max. cutoff pressure difference	1.4Mpa
Rotation angle	090°
Installation position	Vertical installation
Flow characteristics	Equal percentage

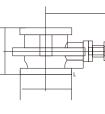
Bearing pressure of valve body	1.6M paflang 2.0Mpa screw thread			
Material of valve body	Forged brass (thread)			
	nodular cast iron (flange)			
Valve core material	304 stainless steel			
Valve stem material	304 stainless steel			
Sealing ring	EPDM			

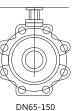
Operating conditions

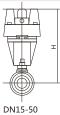
Medium	Hot and cold water, unsaturated steam,				
	50% ethanol water, etc.				
Temperature	Medium:-5+120°C[+23+248°F]				

Dimensiones in mm









Model	G	H(mm)	H1(mm)	L(mm)	Model	Flange indexing circle	L(mm)	D(mm)	H(mm)	n-d
DN 15	G1/2	184	37.5	60	DN 65	165 145		105	136	4-18
DN 20	G3/4	184	44	73	DN 80	160	108	120	140	8-18
DN 25	G1	189	47	89	DN 100	175	120	145	104	8-18
DN 32	G1-1/4	199	52.5	102.5	DN 125	200	145	175	115	8-18
DN 40	G1-1/2	208	57	113	DN 150	230	165	205	138	8-18
DN 50	G2	219	62	127.5						

Ordering information

Model		D' 1	Two-way		с	Fauxiliary		
Two-way	Three-way	Diameter	flow	Power supply	Control signal	switch	Bracket	Actuator
EBV91 15-V	EBV91 15-Y	DN 15	4.0	AC/DC24V/230V	switch/adjust	one set	High platform ball valve bracket with packing / short ball valve bracket with packing	4NM
EBV91 20-V	EBV91 20-Y	DN 20	4.0	AC/DC24V/230V	switch/adjust	one set	High platform ball valve bracket with packing / short ball valve bracket with packing	4NM
EBV91 25-V	EBV91 25-Y	DN 25	10.0	AC/DC24V/230V	switch/adjust	two sets	High platform ball valve bracket with packing / short ball valve bracket with packing	6NM
EBV91 32-V	EBV91 32-Y	DN 32	16.0	AC/DC24V/230V	switch/adjust	two sets	High platform ball valve bracket with packing / short ball valve bracket with packing	6NM
EBV91 40-V	EBV91 40-Y	DN 40	25.0	AC/DC24V/230V	switch/adjust	two sets	High platform ball valve bracket with packing / short ball valve bracket with packing	6NM
EBV91 50-V	EBV91 50-Y	DN 50	40.0	AC/DC24V/230V	switch/adjust	two sets	High platform ball valve bracket with packing / short ball valve bracket with packing	6NM
EBV91 65-V	/	DN 65	63.0	AC/DC24V/230V	switch/adjust	two sets	High platform ball valve bracket with packing	16NM
EBV91 80-V	/	DN 80	100.0	AC/DC24V/230V	switch/adjust	two sets	High platform ball valve bracket with packing	16NM
EBV91 100-V	/	DN 100	160.0	AC/DC24V/230V	switch/adjust	two sets	Ball valve bracket with packaging	24NM
EBV91 125-V	/	DN 125	250.0	AC/DC24V/230V	switch/adjust	two sets	Ball valve bracket with packaging	24NM
EBV91 150-V	/	DN 150	400.0	AC/DC24V/230V	switch/adjust	two sets	Ball valve bracket with packaging	32NM





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