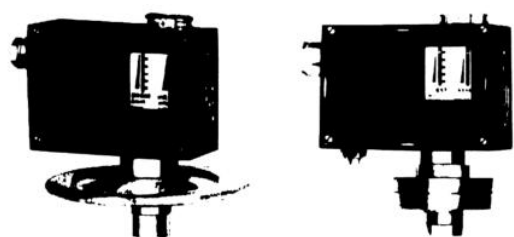




D500/7D, D500/7DK Pressure Switches



(Ex)

Adopt diaphragm sensor. Can be used for neutral gases such as air. Liquid media such as water, hydraulic oil, lubricating oil, etc.

Fluid viscosity: $1 \times 0.01 \text{ m}^2/\text{s}$

Protection: IP65

Environment temperature:

-5~40℃

Medium temperature: 0~90℃

(See the next page for the above indicators of EX products)

Vibration resistance:

7D:4g, 7DK:2g

Repeatability error: 1.5%

Power: AC220V/6A Resistive

Installation site: The

pressure interface is

vertically downward

D500/7D

Pressure range Mpa (KPa)	Non-Adjustable Differential Gap			Non-Adjustable Differential Gap			permissible pressure (Max) *Mpa (KPa)	Overall dimensions		Switching times (max) times/min
	Differential Gap≤		Order number	Rang of Differential Gap		Order number		General	EX	
	Set the lower limit Mpa (KPa)	Set the Upper Limit Mpa (KPa)		Set the lower limit Mpa (KPa)	Set the Upper Limit Mpa (KPa)					
(0-2.5) (0-6) (0-16) (0-25)	(0.3) (0.4) (0.4) (0.4)	(0.4) (0.6) (0.8) (0.9)	0812200 0812500 0812700 0812800	(0.8-2.5) (0.9-4) (1.1-12) (1.1-20)	(1.1-2.5) (1.5-4) (2.3-12) (2.8-20)	0802200 0802500 0802700 0802800	(50)	01	04	10
0.005-0.06 0.005-0.1 0.005-0.16 0.005-0.25	0.003 0.003 0.003 0.004	0.006 0.009 0.012 0.015	0814100 0814200 0814300 0814400	0.0090.05 0.011-0.08 0.013-0.12 0.014-0.2	0.016-0.05 0.018-0.08 0.025-0.12 0.025-0.2	0804100 0804200 0804300 0804400	1.5	02	05	10
0.03-0.4 0.03-0.6 0.05-1	0.02 0.03 0.03	0.04 0.05 0.06	0814500 0814600 0814700	0.05-0.2 0.06-0.4 0.06-0.6	0.08-0.2 0.1-0.1 0.11-0.6	0804500 0804600 0804700	4	03	06	
0.1-1.6 0.1-2.5	0.04 0.04	0.12 0.15	0814800 0814900	0.12-1.2 0.12-2	0.25-1.2 0.33-2	0804800 0804900	5			

D500/7D has corresponding EX-Products, just change the second to last order number to "8", such as 0812200 to 0812280.

The EX-Product parameters are the same as the above table. Explosion-proof grade Exde II CT5. For EX-Product instructions, see the next page for Power.



精 控

D500/70DK (small Differential Gap)

Pressure range Mpa (KPa)	Non-Adjustable Differential Gap			permissible pressure (Max) *Mpa (KPa)	Overall dimensions	Switching times (max) times/min
	Differential Gap≤		Order number			
	Set the lower limit Mpa (KPa)	Set the Upper Limit Mpa (KPa)				
(0-2.5)	(0.15)	(0.2)	0812207	(50)	01	10
(0-6)	(0.18)	(0.45)	0812507			
(0-16)	(0.2)	(0.5)	0812707			
(0-25)	(0.25)	(0.6)	0812807			
0.005-0.06	0.002	0.004	0814107	1.5	02	40
0.005-0.1	0.002	0.006	0814207			
0.005-0.16	0.0025	0.0075	0814307			
0.005-0.25	0.0025	0.01	0814407			
0.03-0.4	0.015	0.02	0814507	4	03	
0.03-0.6	0.015	0.02	0814607			
0.05-1	0.018	0.038	0814707			
0.1-1.6	0.02	0.08	0814807	5		
0.1-2.5	0.02	0.1	0814907			

*In actual work, even a short pressure peak cannot exceed this value.

Setting Value Adjustment: See the instructions.

D500/7D (Including EX-Products) ,
D500/7DK:

Connection: female screw G1/4"

Sensor Materials:

Body Case: 0-2.5kPa-0-25kPa:

AL Or Galvanized steel

Other Typ: Copper

Diaphragm: NBR

Available accessories:

0574767, 0574773

0812200-0812800/0802200-0802800

/0812207-0812807 usable:

0574771 bracket

Other 0574772 bracket



精 控

EX-Product:

Explosion-Proof: Exde II CT5

Fluid viscosity: $1 \times 0.01 \text{ m}^2/\text{s}$

Vibration resistance: 2g

Protection: IP54

Repeatability error: 1.5%

Environment temperature:

Power: DC 250V 0.25A (Resistive) 60WMax

-5~40℃

AC 250V 5A (Resistive) 1250VAMax

Medium temperature: 0~90℃

Note: the actual power capacity should not be

Installation site: The pressure greater than the above quota.

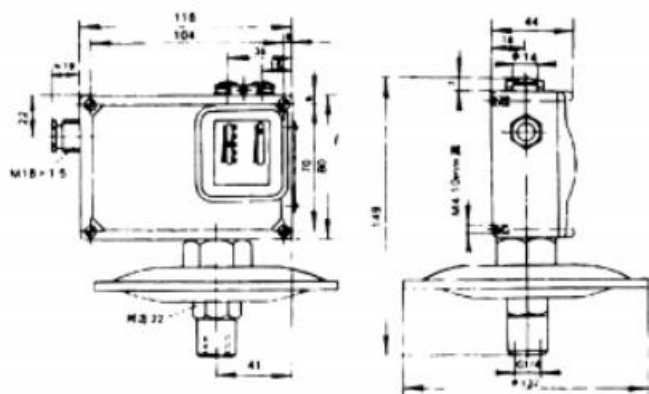
interface is vertically downward

Overall Dimensions

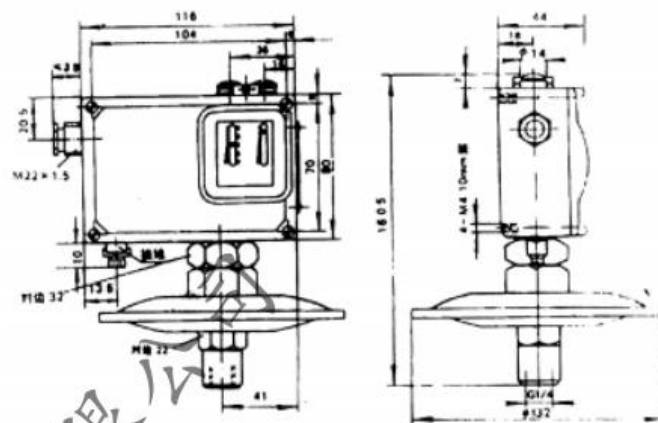
General

EX Unit (mm)

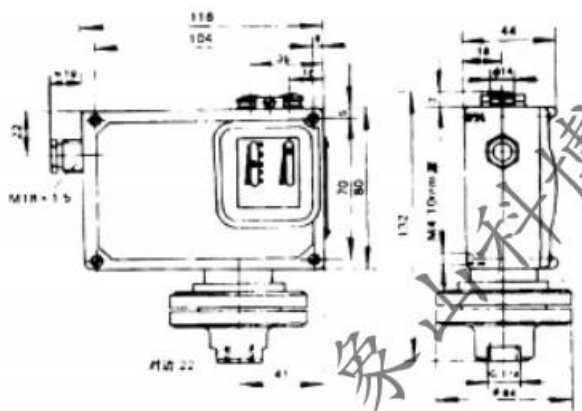
01



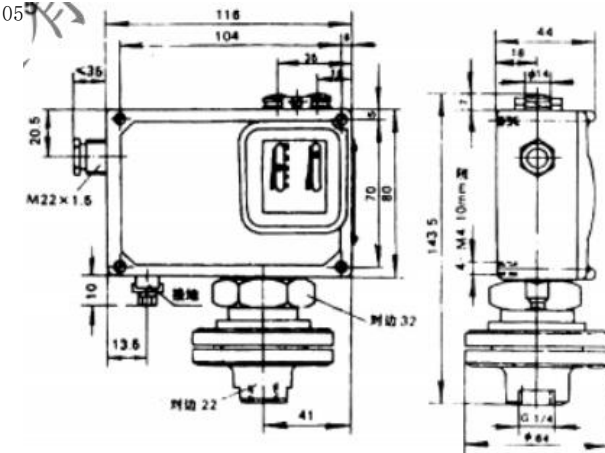
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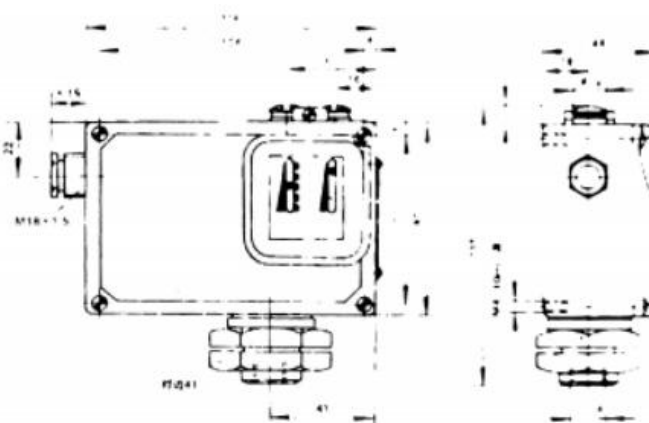
02



05

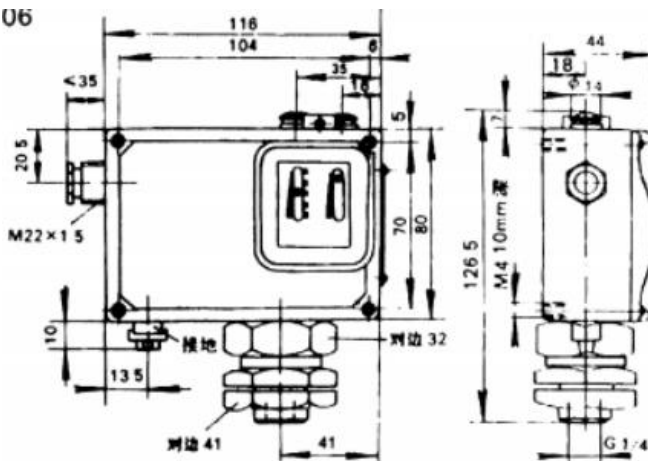


03

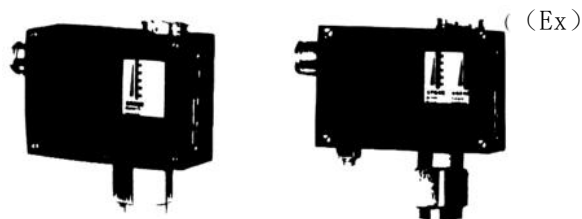


06

06



D501/7D, D501/7DK Pressure Switches



Adopt metal diaphragm sensor. Can be used for neutral gases such as air. Liquid media such as water, hydraulic oil, lubricating oil, etc. NO.02 Can be used for corrosive media.

Fluid viscosity: $1 \times 0.01 \text{ m}^2/\text{s}$ Vibration resistance: 2g
 Protection: IP65 Repeatability error: 1.5%
 Environment temperature: $-5 \sim 40^\circ\text{C}$ Power: AC220V/6A Resistive
 Medium temperature: $0 \sim 120^\circ\text{C}$ Installation site: The pressure interface is vertically downward
 (See the next page for the above indicators of EX products)

D501/7D

Pressure range Mpa	Non-Adjustable Differential Gap			Non-Adjustable Differential Gap			permissible pressure (Max) *Mpa	Overall dimensions	
	Differential Gap≤		Order number	Rang of Differential Gap		Order number		General	EX
	Set the lower limit Mpa	Set the Upper Limit MPa		Set the lower limit Mpa	Set the Upper Limit Mpa				
0-0.01	0.0008	0.0012	0815100	0.0025-0.0085	0.004-0.0085	0815100	0.1	01	03
0-0.025	0.0009	0.0018	0815200	0.003-0.015	0.005-0.015	0815200			
0-0.04	0.001	0.0025	0815300	0.0035-0.03	0.007-0.03	0815300			
0.05-0.4	0.05	0.06	0813500	0.15-0.25	0.18-0.25	0803500	10	02	04
0.05-0.6	0.05	0.07	0813600	0.15-0.5	0.22-0.5	0803600			
0.05-1	0.06	0.1	0813700	0.15-0.8	0.3-0.8	0803700			

D501/7DK (small Differential Gap)

Pressure range Mpa	Non-Adjustable Differential Gap			permissible pressure (Max) *Mpa	Overall dimensions
	Differential Gap≤		Order number		
	Set the lower limit Mpa	Set the Upper Limit MPa			
0-0.01	0.0005	0.0006	0815107	0.1	01
0-0.025	0.0006	0.001	0815207		
0-0.04	0.0006	0.0018	0815307		
0.05-0.4	0.03	0.035	0813507	10	02
0.05-0.6	0.03	0.04	0813607		
0.05-1	0.03	0.05	0813707		

*In actual work, even a short pressure peak cannot exceed this value.

D501/7D (Including EX-Products) ,
 D501/7DK:

Connection: female screw G1/4"

Sensor Materials:

Body Case: NO.01: AL Or Galvanized steel

NO.02: Stainless Steel 1Cr18Ni9Ti

Diaphragm: Stainless Steel

00Cr17Ni14Mo2

Switching times (max) : 10 times/min

Available accessories:

0574767, 0574773,

0815100-0815300/0805100-0805300

/0815107-0815307/usable:

057477 bracket

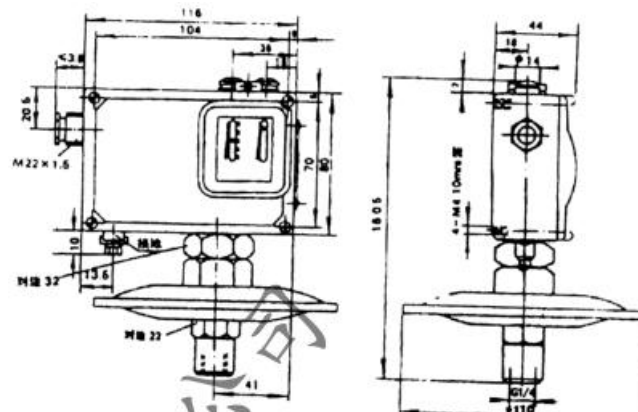
Other 0574772 bracket

Setting Value Adjustment: See the instructions.

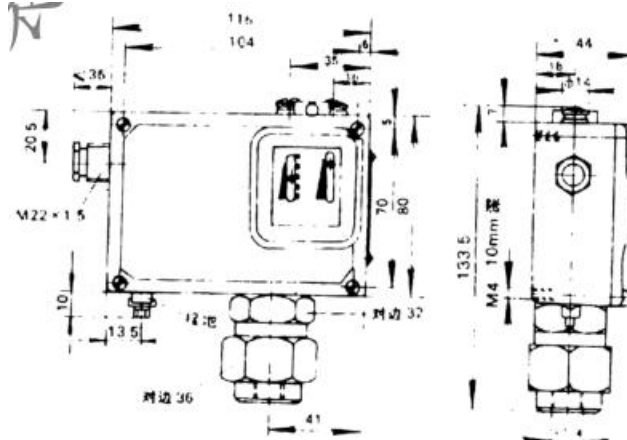
interface is vertically downward

General

03

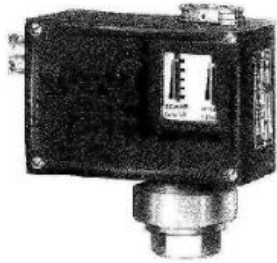


04



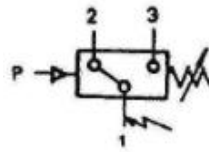
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JKD502/7D;JKD502/7DK Pressure switches



The pressure switch adopts a bellows-type sensor, which can be used with neutral gases such as air, gas, water vapor and liquid media such as water, oil and refrigerant. The setting value of the switch is adjustable, the adjustment range is -0.1-2.5MPa,

JKD520/7D EX-Pressure switches (Ex)



SPDT Microswitch action process, terminals 1-3. When the differential pressure rises to the upper switching value, the terminal 1-2 is connected. When the differential pressure rises to the upper switching value, it is disconnected.

□Technical data

	General	EX
Fluid viscosity	$<1 \times 10^{-3} \text{ m}^2/\text{s}$	$<1 \times 10^{-3} \text{ m}^2/\text{s}$
switching element	Microswitch	Microswitch
Explosion-Proof	—	ExedII CT5 CertificateNO GYB081089X
Protection	IP65(conform to DIN40050, Equivalent to GB4208in IP65)	IP54(conform to DIN40050, Equivalent to IP54 in GB4208)
Environment tem perature	-40~50℃	-40℃~50℃
Medium temperat ure	0~120℃	0~95℃
Installation si te		The pressure interface is vertically downward
Vibration resistance	D502/7D: 40m/s^2 D502/7DK: 20m/s^2	Max: 20m/s^2
Repeatability error	$\leq 1\%$	$\leq 1\%$
Power	AC 220V 6A (Resistive)	DC 250V 0.25A (Resistive) 60W _{max} AC 250V 5A (Resistive) 1250 V _{Amax}

□Features Can be used for vacuum

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□Type

• JK502/7D Non-Adjustable Differential Gap

Pressure range MPa	Differential Gap $\leq$		permissible pressure(Max) **MPa	Switching times (max) times/min	Sensor Materials		Connection	Weight kg	Overall dimensions		Order number	
	Set the lower limit MPa	Set the lower limit MPa			Body Case	bellows			General	EX	General	EX
-0.1-0	0.006	0.007	1	20	Brass	Stainless steel 00Gr17Ni 14M02 (316L)	G1/4"	1.0	01	04	0810100	0850180
-0.1-0.1	0.007	0.008	1				G1/4"	1.0	01	04	0810200	0850280
-0.1-0.16	0.008	0.009	1				G1/4"	1.0	01	04	0810300	0850380
-0.1-0.25	0.009	0.012	1				G1/4"	1.0	01	04	0810400	0850480
0-0.1	0.007	0.008	1				G1/4"	1.0	01	04	0811100	0851180
0-0.16	0.008	0.009	1				G1/4"	1.0	01	04	0811200	0851280
0.01-0.25	0.009	0.01	1				G1/4"	1.0	01	04	0811300	0851380
0.02-0.4	0.03	0.03	2				G1/4"	0.85	02	05	0811400	0851480
0.03-0.6	0.03	0.035	2				G1/4"	0.85	02	05	0811500	0851580
0.03-1	0.03	0.04	2				G1/4"	0.85	02	05	0811600	0851680
0.05-1.6	0.07	0.08	5				G1/4"	0.9	03	06	0811700	0851780
0.05-2.5	0.07	0.09	5				G1/4"	0.9	03	06	0811800	0851880

• JKD502/7D Adjustable Differential Gap

Pressure range MPa	adjustable range		permissible pressure (Max) **MPa	Switching times (max) times/min	Sensor Materials		Connection	Weight kg	Overall dimensions		Order number	
	Set the lower limit MPa	Set the lower limit MPa			Body Case	bellows			General	EX	General	EX
-0.1-0	0.018-0.08	0.019-0.08	1	20	Brass	Stainless steel 00Gr17Ni 14M02 (316L)	G1/4"	1.05	01	04	0800100	0840180
-0.1-0.1	0.019-0.1	0.021-0.1	1				G1/4"	1.05	01	04	0800200	0840280
-0.1-0.16	0.02-0.2	0.022-0.2	1				G1/4"	1.05	01	04	0800300	0840380
0.1-0.25	0.022-0.25	0.024-0.25	1				G1/4"	1.05	01	04	0800400	0840480
0-0.1	0.015-0.08	0.016-0.08	1				G1/4"	1.05	01	04	0801100	0841180
0-0.16	0.018-0.1	0.02-0.1	1				G1/4"	1.05	01	04	0801200	0841280
0.01-0.25	0.02-0.2	0.024-0.2	1				G1/4"	1.05	01	04	0801300	0841380
0.02-0.4	0.08-0.25	0.08-0.25	2				G1/4"	0.9	02	05	0801400	0841480
0.03-0.6	0.08-0.5	0.09-0.5	2				G1/4"	0.9	02	05	0801500	0841580
0.03-1	0.09-0.8	0.1-0.8	2				G1/4"	0.9	02	05	0801600	0841680
0.05-1.6	0.17-1.2	0.19-1.2	5				G1/4"	0.95	03	06	0801700	0841780
0.05-2.5	0.18-2	0.2-2	5				G1/4"	0.95	03	06	0801800	0841880

• JKD502/7DK Non-Adjustable Differential Gap (small Differential Gap, General)

Pressure range MPa	adjustable range		permissible pressure (Max) **MPa	Switching times (max) times/min	Sensor Materials		Connection	Weight kg	Overall dimensions	Order number
	Set the lower limit MPa	Set the lower limit MPa			Body Case	bellows				
-0.1-0	0.008	0.0045	1	20	Brass	Stainless steel 00Gr17Ni 14M02 (316L)	G1/4"	1.0	01	0810107
-0.1-0.1	0.003	0.005	1				G1/4"	1.0	01	0810207
-0.1-0.16	0.003	0.0065	1				G1/4"	1.0	01	0810307
0.1-0.25	0.0045	0.01	1				G1/4"	1.0	01	0810407
0-0.1	0.003	0.0045	1				G1/4"	1.0	01	0811107
0-0.16	0.003	0.006	1				G1/4"	1.0	01	0811207
0.01-0.25	0.0045	0.007	1				G1/4"	1.0	01	0811307
0.02-0.4	0.012	0.016	2				G1/4"	0.85	02	0811407
0.03-0.6	0.015	0.02	2				G1/4"	0.85	02	0811507
0.03-1	0.018	0.03	2				G1/4"	0.85	02	0811607
0.05-1.6	0.03	0.05	5				G1/4"	0.9	03	0811707
0.05-2.5	0.03	0.06	5				G1/4"	0.9	03	0811807

*In actual work, the short-term pressure peak of the medium at the two pressure ports cannot exceed this value.

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□ Adjustment of set value

• Steps to adjust the setting value of the pressure switch with the Non-Adjustable Differential Gap. (Hereinafter referred to as NADG-Pressure switch). An Examples is as follows:

[Example 1]: Choose a pressure switch with model JKD502/7D and order number 0811600, and it is required to increase the pressure to 0.5Mpa (upper switching value) to send a contact signal. The operation steps are as follows: (As shown in Figure 1)

- Loosen the locker and screw the product into the threaded interface of the pressure test bench. Note that the flat part of the sensor must be clamped with a wrench to prevent the switch housing and the sensor from rotating relative to each other.

- Open the cover, pass the cable through the cable interface into the terminal board, and connect a DMM to the other end of the cable.

- Adjust the pressure to 0.5Mpa, this value can be read from the standard pressure gauge.

- Turn the setting value adjustment screw clockwise to change the setting value from large to small, until the switch contacts switch at 0.5Mpa.

- Tighten the locker, adjust the pressure of the pressure calibration table, make the pressure change up and down at 0.5Mpa, check whether the switch value of the contact is 0.5Mpa when the pressure rises, this value is the up switch to be set value. The corresponding down-switching value should be 0.5Mpa minus the switching difference of 0.035Mpa (around), that is, 0.465Mpa (around).

[Example 2]: Select the pressure switch model JKD502/7D with order number 0811700, and it is required to reduce the pressure to 0.8Mpa (lower switching value) to send a contact signal. The operation steps are as follows:

- Loosen the locker and screw the product into the threaded interface of the pressure calibration platform. Note that the flat part of the sensor must be clamped with a wrench. Prevent the relative rotation of the switch housing and the sensor.

- Open the cover, pass the cable through the cable interface into the terminal board, and connect a DMM to the other end of the cable.

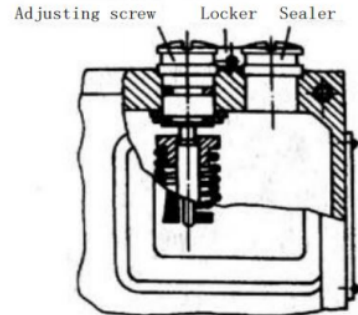
- Add the pressure to 0.8Mpa, this value can be read from the standard pressure gauge.

- Turn the setting value adjustment screw counterclockwise to change the setting value from small to large, until the switch contact is switched at 0.8Mpa

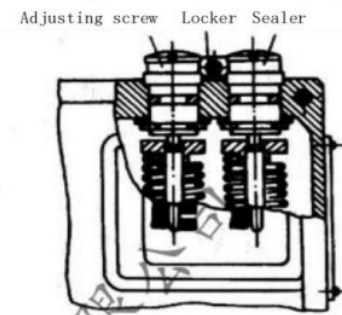
- Tighten the locker, adjust the pressure of the pressure calibration table, make the pressure change up and down at 0.8Mpa, and check whether the switching value of the contact is 0.8Mpa when the pressure drops. This value is the down switch value to be set. The corresponding up-switching value is 0.8Mpa plus the switching difference of 0.075Mpa (around), that is, 0.875Mpa (around).

2. Steps to adjust the setting value of the pressure switch with the Adjustable Differential Gap. (Hereinafter referred to as ADG-Pressure switch). An Examples is as follows:

[Example 3]: Choose the pressure switch of model JKD502/7D with order number 0801600, and it is required to increase the pressure to 0.6Mpa to send a contact signal, and when the pressure drops to 0.4Mpa, the contact returns.



Sketch of NADG-Pressure switch



Sketch of ADG-Pressure switch

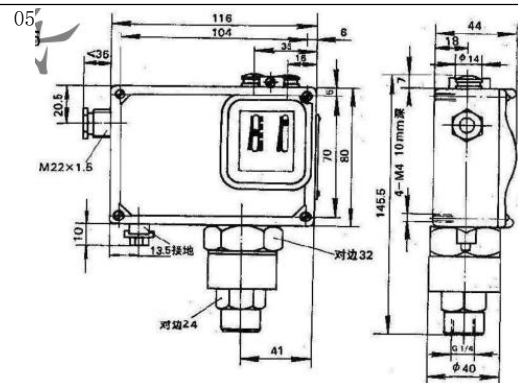
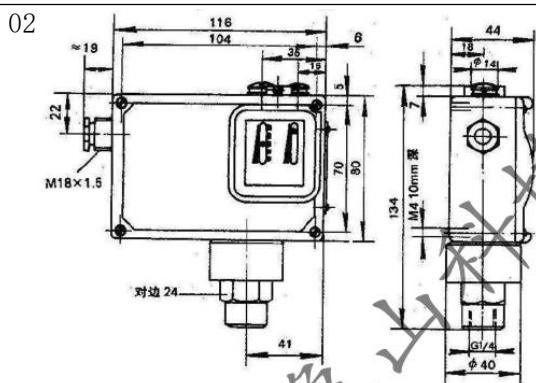
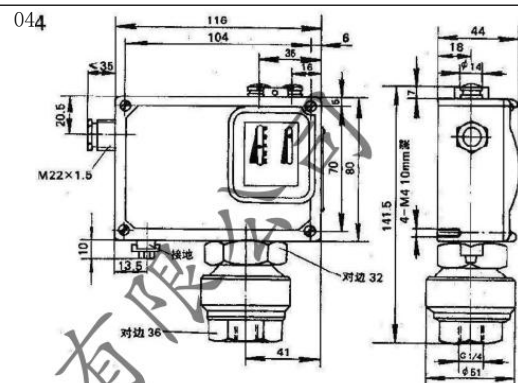
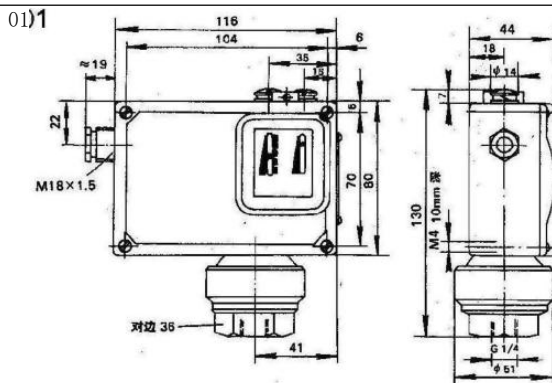
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The operation is as follows: (as shown in Figure 2)

- Loosen the locker and screw the product into the threaded interface of the pressure calibration platform. Note that the flat part of the sensor must be clamped with a wrench. Prevent the relative rotation of the switch housing and the sensor.
- Open the cover, pass the cable through the cable interface into the terminal board, and connect a DMM to the other end of the cable. Increase the pressure to 0.4Mpa, this value can be read from a standard pressure gauge.
- Adjust the switching value first, and turn the setting value adjustment screw counterclockwise until the switch contact is switched at 0.4Mpa.
- Turn the switch difference adjustment screw counterclockwise to increase the switch difference from the minimum until the pressure rises to 0.6Mpa. The contact action.
- Tighten the locker, adjust the pressure value to change back and forth within the range of more than 0.4-0.6Mpa, check whether the switching value of the contact is 0.6Mpa when the pressure rises, this value is the set up switching value. Check whether the switch value of the contact is 0.4Mpa when the pressure is lowered. This value is the lower switch value to be set.

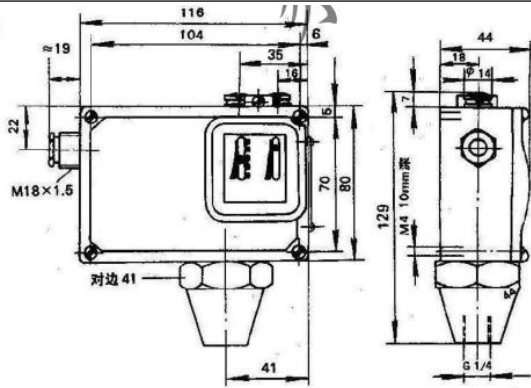
□Overall dimensions

Unit (mm)

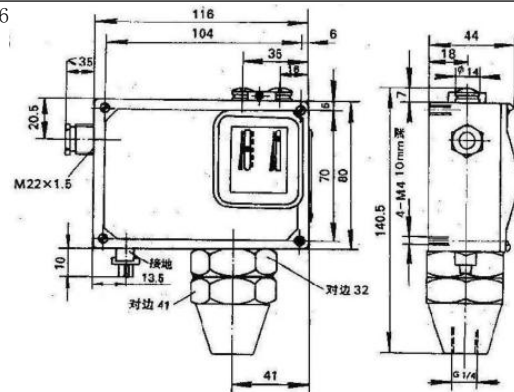


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03



06



D504/7D, D504/7DK Pressure Switches



Adopt piston type sensor. Available with neutral hydraulic oil and other media.

Fluid viscosity: $1 \times 0.01 \text{ m}^2/\text{s}$

Protection: IP65

Environment temperature:

-5~50℃

Medium temperature: 0~100℃

Vibration resistance:

7D:4g, 7DK:2g

Repeatability error: 1.5%

Power: AC220V/6A Resistive

Installation site: The pressure interface is vertically downward (Within 15 degrees of inclination)

D504/7D

Pressure range MPa	Non-Adjustable Differential Gap			Non-Adjustable Differential Gap			permissible pressure (Max) *Mpa	Overall dimensions
	Differential Gap≤		Order number	Rang of Differential Gap		Order number		
	Set the lower limit MPa	Set the Upper Limit MPa		Set the lower limit MPa	Set the Upper Limit MPa			
0.3-4	0.2	0.4	0817200	0.4-2	0.6-2	0817200	16	01
0.3-6.3	0.3	0.6	0817300	0.4-5	0.8-5	0817300		
0.5-10	0.4	0.9	0817400	0.7-8	1.2-8	0817400	30	
0.5-16	0.6	1.2	0817500	1-12	1.6-12	0817500		
1-25	0.8	2	0817600	1.7-20	2.6-20	0817600	80	
1-40	0.9	2.2	0817700	2-30	3.5-30	0817700		

*In actual work, even a short pressure peak cannot exceed this value.

D504/7DK (small Differential Gap)

Pressure range MPa	切换差不可调			permissible pressure (Max) *Mpa	Overall dimensions
	切换差不大于		Order number		
	Set the lower limit MPa	Set the Upper Limit MPa			
0.3-4	0.1	0.3	0817207	16	01
0.3-6.3	0.15	0.5	0817307		
0.5-10	0.3	0.7	0817407	30	
0.5-16	0.4	1	0817507		
1-25	0.6	1.5	0817607	80	
1-40	0.7	1.8	0817707		

*In actual work, even a short pressure peak cannot exceed this value.

D504/7D, D504/7DK:

Connection: female screw G1/4"

Sensor Materials:

Body Case: Galvanized steel

Piston: Steel

Switching times (max) : 30 times/min

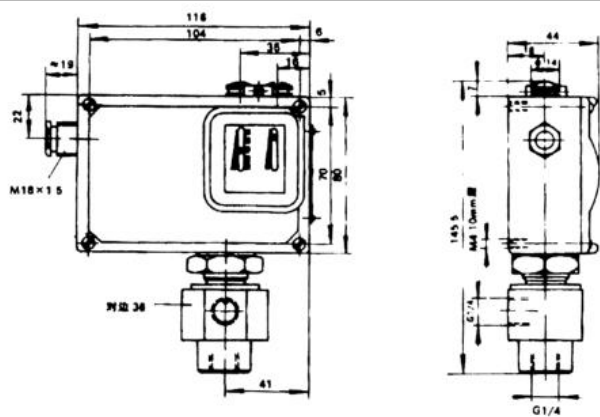
Available accessories:

0574767, 0574773,

Setting Value Adjustment: See the instructions.

Overall Dimensions

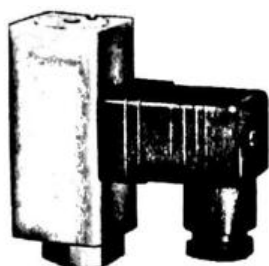
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D500/18D, D505/18D Pressure Switches



D500/18D Diaphragm sensor , Used for liquid media such as neutral gas or lubricating oil.

D505/18D Piston sensor, Used for neutral lubricating media such as hydraulic oil and lubricating oil.

Fluid viscosity: $1 \times 0.01 \text{ m}^2/\text{s}$

Protection: IP54

Environment temperature:

-10~55℃ (D500/18D)

-25~55℃ (D505/18D)

Medium temperature:

-10~80℃ (D500/18D)

-25~80℃ (D505/18D)

Vibration resistance: 10g

Repeatability error: 2.5%

Power: AC220V/6A Resistive

Installation site:

Unlimited

D500/18D

Pressure range MPa	Non-Adjustable Differential Gap			permissible pressure (Max)**MPa	Connection Type	female screw	Sensor Materials	Overall dimensions
	Differential Gap≤		Order number					
	Set the lower limit MPa	Set the Upper Limit MPa						
-0.1-0	0.015	0.02	0880100	8	female screw	G1/4"	Body Case: AL Sealing, Diaphragm: NBR	01
-0.1-0	0.015	0.0	0881100	8	Flange			03
0.02-0.2	0.02	0.04	0880200	8	female screw	G1/4"		01
0.02-0.2	0.02	0.04	0881200	8	Flange			03
0.05-0.8	0.04	0.13	0880300	8	female screw	G1/4"		01
0.05-0.8	0.04	0.13	0881300	8	Flange			03
0.1-1.6	0.06	0.24	0880400	8	female screw	G1/4"		02
0.1-1.6	0.06	0.24	0881400	8	Flange			03

*In actual work, the short-term pressure peak of the medium at the two pressure ports cannot exceed this value.

D505/18D

Pressure range MPa	Non-Adjustable Differential Gap			permissible pressure (Max)**MPa	Connection Typ	female screw	Sensor Materials	Overall dimensions
	Differential Gap≤		Order number					
	Set the lower limit MPa	Set the Upper Limit MPa						
0.5-7	0.8	2	0882100	40	female screw	G1/4"	Body Case: AL Sealing: NBR Piston: Steel	04
0.5-7	0.8	2	0883100	40	Flange			03
1-16	1.2	3.5	0882200	40	female screw	G1/4"		04
1-16	1.2	3.5	0883200	40	Flange			03
2.5-25	1.5	4	0882300	40	female screw	G1/4"		05
2.5-25	1.5	4	0883300	40	Flange			03
4-40	1.8	4.5	0882400	60	female screw	G1/4"		05
4-40	1.8	4.5	0883400	60	Flange			03

*In actual work, the short-term pressure peak of the medium at the two pressure ports cannot exceed this value.

Adjust the set value

Steps to adjust the setting value of the pressure switch with the Non-Adjustable Differential Gap. (Hereinafter referred to as NADG-Pressure switch). An Examples is as follows:

[Example]: Select the pressure switch model 505/18D with order number 0882200, and it is required to reduce the pressure to 8Mpa (lower switching value) to send a contact signal. The operation steps are as follows:

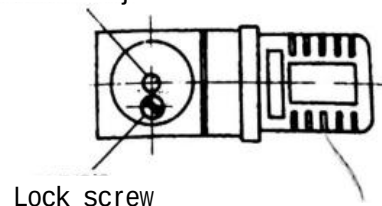
*Screw the product into the thread of the hydraulic pressure test bench (if the product is a flange interface, connect with the flange of the pressure test bench), apply pressure to the product for 2 minutes according to the actual working pressure, and then Can be set.

*Pass the cable through the cable interface into the terminal board, and connect a DMM to the other end of the cable.

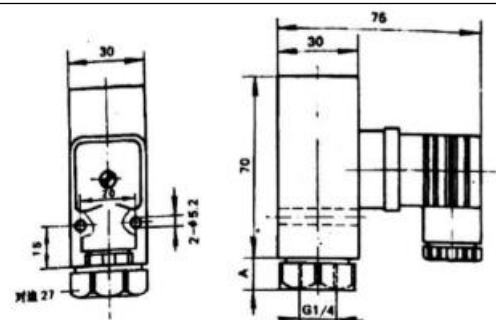
*Loosen the tightening screw, and use a 5mm hexagon socket screw wrench to turn the hexagonal slot (used for the setting value adjustment screw) clockwise to change the setting value from small to large, until the switch is switched at 8MPa.

*Tighten the lock screw, adjust the pressure of the calibration table to change back and forth at 8MPa, and check whether the switch value of the switch is 8MPa when the pressure drops. This value is the down switch value to be set. The corresponding up-switching value is 8MPa plus the switching difference of 2.3MPa (about), which is 10.3MPa (about).

Set value adjustment



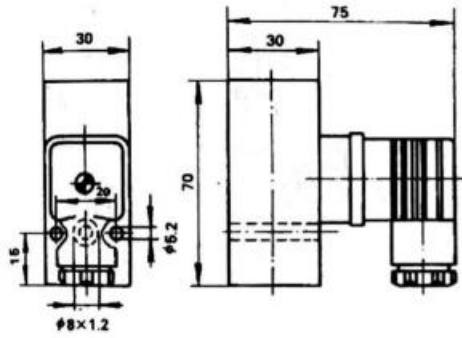
Overall dimensions



Number	A
01	15
02	9
04	6
05	7



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Number
01

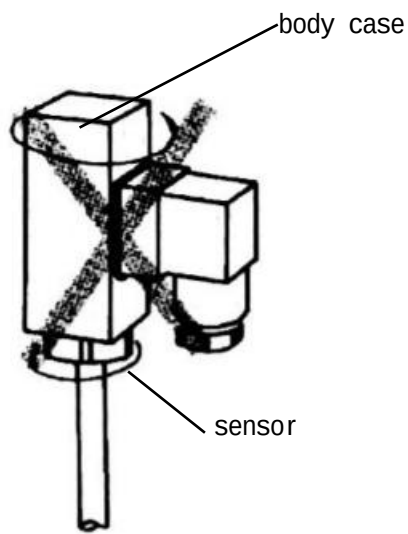
O-Sealing: $\phi 5 \times 15$

Order number: 0664098

Accessories: 0574767, 0574773

Note:

Pay special attention when installing (or disassembling) the product: Pressure switch and pipe joint of threaded interface The depth of screwing into the G1/4" screw hole shall not exceed 12mm. When installing (removable) products, use a wrench The hexagonal surface of the clamping interface is connected with the pipe, the upper part The square shell and the lower hexagonal surface parts cannot Relative rotation. (As shown on the right)

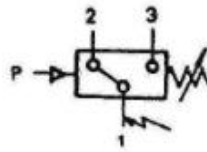


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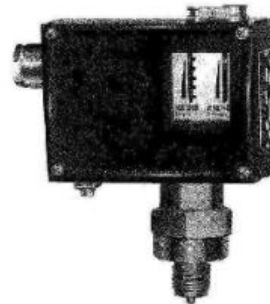
D511/7D、D511/7DK Pressure switches



The pressure switch adopts a bellows-type sensor, Can be used for corrosive gas and liquid media. The setting value of the switch is adjustable, the adjustment range is -0.1-6.3MPa.



D511/7D EX-Pressure switches



SPDT Microswitch action process, terminals 1-3. When the differential pressure rises to the upper switching value, the terminal 1-2 is connected. When the differential pressure rises to the upper switching value, it is disconnected.

□Technical data

	General	EX
Fluid viscosity	$<10^{-3} \text{m}^2/\text{s}$	$<10^{-3} \text{m}^2/\text{s}$
switching element	Microswitch	Microswitch
Explosion-Proof	—	ExedII CT5 CertificateNO GYB081089X
Protection	IP65(conform to DIN40050 , Equivalent to GB4208in IP65)	IP54(conform to DIN40050, Equivalent to IP54 in GB4208)
Environment temperature	$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$	$-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$
Medium temperature	$0^{\circ}\text{C} \sim 200^{\circ}\text{C}$	$0^{\circ}\text{C} \sim 150^{\circ}\text{C}$
Installation site		The pressure interface is vertically downward
Vibration resistance	D511/7D: 40m/s^2 D511/7DK: 20m/s^2	Max: 20m/s^2
Repeatability error	$\leq 1\%$	$\leq 1\%$
Power	AC 220V 6A (Resistive)	DC 250V 0.25A (Resistive) W_{max} AC 250V 5A (Resistive) $1250 \text{VA}_{\text{max}}$

□Features

The use temperature range is large. Can be used for corrosive media.

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□Type

• D511/7D Non-Adjustable Differential Gap

Pressure range MPa	Differential Gap≤		permissible pressure (Max)**MPa	Switching times (max) times/min	Sensor Materials		Connection	Weight kg	Overall dimensions		Order number	
	Set the lower limit MPa	Set the lower limit MPa			Body Case	bellows			General	EX	General	EX
-0.1-0	0.006	0.007	1	20	All parts in contact with the medium are made of stainless steel Bellows: 316L Other: 1Cr18Ni9Ti		G1/2"	1.0	01	04	0810111	0850181
-0.1-0.1	0.007	0.008	1				G1/2"	1.0	01	04	0810211	0850281
-0.1-0.16	0.008	0.009	1				G1/2"	1.0	01	04	0810311	0850381
-0.1-0.25	0.009	0.012	1				G1/2"	1.0	01	04	0810411	0850481
0-0.1	0.007	0.008	1				G1/2"	1.0	01	04	0811111	0851181
0-0.16	0.008	0.009	1				G1/2"	1.0	01	04	0811211	0851281
0.01-0.25	0.009	0.01	1				G1/2"	1.0	01	04	0811311	0851381
0.02-0.4	0.03	0.03	2				G1/2"	0.85	02	05	0811411	0851481
0.03-0.6	0.03	0.035	2				G1/2"	0.85	02	05	0811511	0851581
0.03-1	0.03	0.04	2				G1/2"	0.85	02	05	0811611	0851681
0.05-1.6	0.07	0.08	5				G1/2"	0.9	03	06	0811711	0851781
0.05-2.5	0.07	0.09	5				G1/2"	0.9	03	06	0811811	0851881
0.3-6.3	0.1	0.2	8.5				G1/2"	0.9	03	06	0811911	0851981

• D511/7D Adjustable Differential Gap

Pressure range MPa	adjustable range		permissible pressure (Max) **MPa	Switching times(max) times/min	Sensor Materials		Connection	Weight kg	Overall dimensions		Order number	
	Set the lower limit MPa	Set the lower limit MPa			Body Case	bellows			General	EX	General	EX
-0.1-0	0.018-0.08	0.019-0.08	1	20	All parts in contact with the medium are made of stainless steel Bellows: 316L Other: 1Cr18Ni9Ti		G1/2"	1.05	01	04	0800111	0840181
-0.1-0.1	0.019-0.1	0.021-0.1	1				G1/2"	1.05	01	04	0800211	0840281
-0.1-0.16	0.02-0.2	0.022-0.2	1				G1/2"	1.05	01	04	0800311	0840381
0.1-0.25	0.022-0.25	0.024-0.25	1				G1/2"	1.05	01	04	0800411	0840481
0-0.1	0.015-0.08	0.016-0.08	1				G1/2"	1.05	01	04	0801111	0841181
0-0.16	0.018-0.1	0.02-0.1	1				G1/2"	1.05	01	04	0801211	0841281
0.01-0.25	0.02-0.2	0.024-0.2	1				G1/2"	1.05	01	04	0801311	0841381
0.02-0.4	0.08-0.25	0.08-0.25	2				G1/2"	0.9	02	05	0801411	0841481
0.03-0.6	0.08-0.5	0.09-0.5	2				G1/2"	0.9	02	05	0801511	0841581
0.03-1	0.09-0.8	0.1-0.8	2				G1/2"	0.9	02	05	0801611	0841681
0.05-1.6	0.17-1.2	0.19-1.2	5				G1/2"	0.95	03	06	0801711	0841781
0.05-2.5	0.18-2	0.2-2	5				G1/2"	0.95	03	06	0801811	0841881
0.3-6.3	0.25-2	0.65-2	8.5				G1/2"	0.95	06	06	0801911	0841981

• D511/7DK Non-Adjustable Differential Gap (small Differential Gap, General)

Pressure range MPa	adjustable range		permissible pressure (Max) **MPa	Switching times (max) times/min	Sensor Materials		Connection	Weight kg	Overall dimensions	Order number
	Set the lower limit MPa	Set the lower limit MPa			Body Case	bellows				
-0.1-0	0.008	0.0045	1	20	All parts in contact with the medium are made of stainless steel Bellows: 316L Other: 1Cr18Ni9Ti		G1/2"	1.0	01	0810113
-0.1-0.1	0.003	0.005	1				G1/2"	1.00	01	0810213
-0.1-0.16	0.003	0.0065	1				G1/2"	1.0	01	0810313
0.1-0.25	0.0045	0.01	1				G1/2"	1.0	01	0810413
0-0.1	0.003	0.0045	1				G1/2"	1.0	01	0811113
0-0.16	0.003	0.006	1				G1/2"	1.0	01	0811213
0.01-0.25	0.0045	0.007	1				G1/2"	1.0	01	0811313
0.02-0.4	0.012	0.016	2				G1/2"	0.85	02	0811413
0.03-0.6	0.015	0.02	2				G1/2"	0.85	02	0811513
0.03-1	0.018	0.03	2				G1/2"	0.85	02	0811613
0.05-1.6	0.03	0.05	5				G1/2"	0.9	03	0811713

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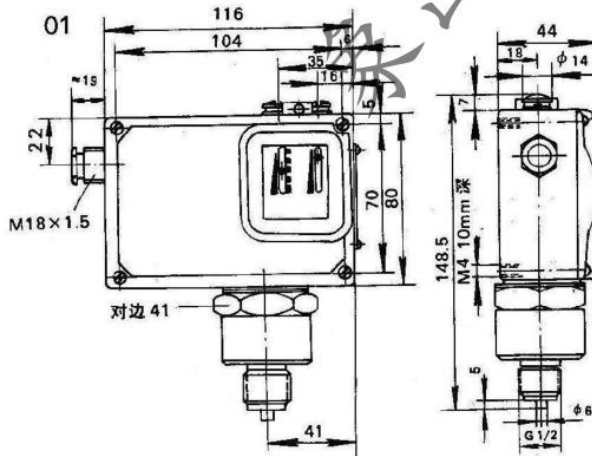
0.05-2.5	0.03	0.06	5			G1/2"	0.9	03	0811813
0.3-6.3	0.06	0.12	8.5			G1/2"	0.9	0.3	0811919

*In actual work, the short-term pressure peak of the medium at the two pressure ports cannot exceed this value.

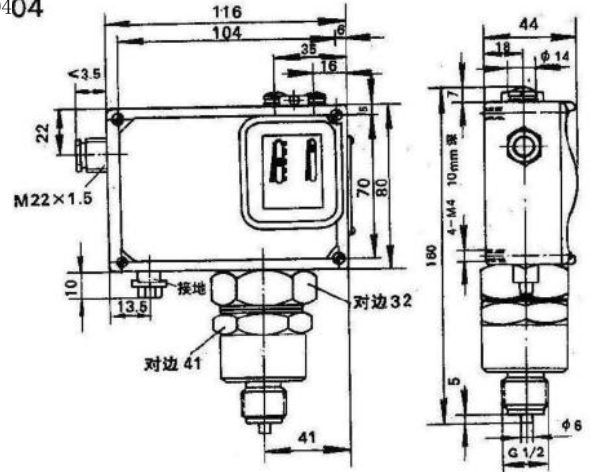
□Overall dimensions

Unit (mm)

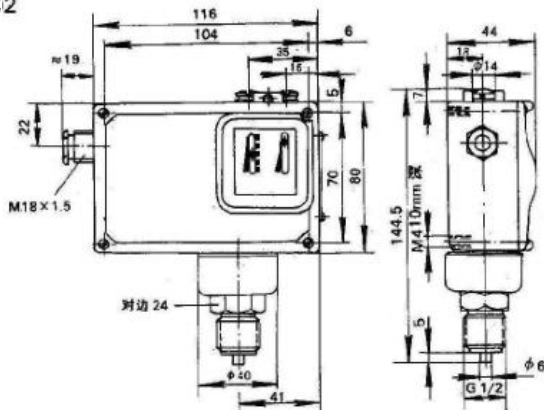
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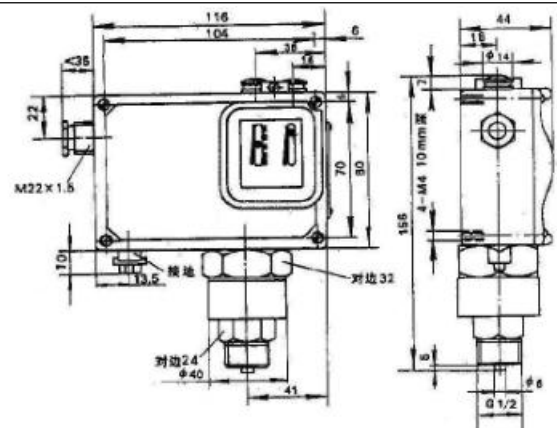
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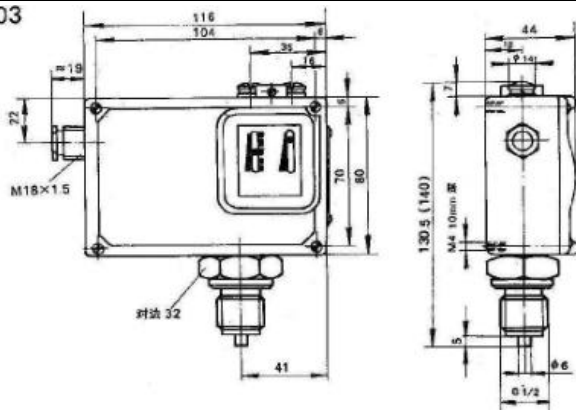
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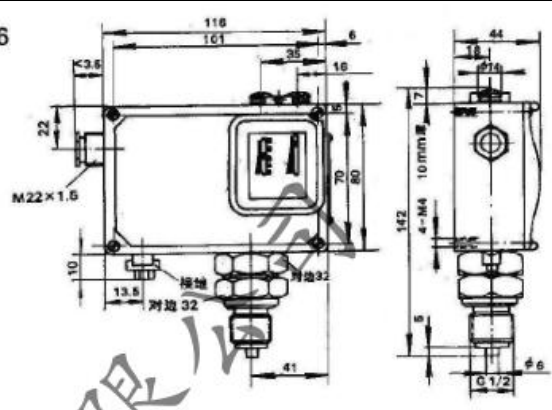
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□ Adjustment of set value

• Steps to adjust the setting value of the pressure switch with the Non-Adjustable Differential Gap. (Hereinafter referred to as NADG-Pressure switch). An Examples is as follows:

[Example 1]: Choose a pressure switch with model JKD511/7D and order number 0811611, and it is required to increase the pressure to 0.5Mpa (upper switching value) to send a contact signal. The operation steps are as follows: (As shown in Figure 1)

• Loosen the locker and screw the product into the threaded interface of the pressure test bench. Note that the flat part of the sensor must be clamped with a wrench to prevent the switch housing and the sensor from rotating relative to each other.

• Open the cover, pass the cable through the cable interface into the terminal board, and connect a DMM to the other end of the cable.

• Adjust the pressure to 0.5Mpa, this value can be read from the standard pressure gauge.

• Turn the setting value adjustment screw clockwise to change the setting value from large to small, until the switch contacts switch at 0.5Mpa.

• Tighten the locker, adjust the pressure of the pressure calibration table, make the pressure change up and down at 0.5Mpa, check whether the switch value of the contact is 0.5Mpa when the pressure rises, this value is the up switch to be set value. The corresponding down-switching value should be 0.5Mpa minus the switching difference of 0.035Mpa (around), that is, 0.465Ma (around).

[Example 2]: Select the pressure switch model JKD511/7D with order number 0811711, and it is required to reduce the pressure to 0.8Mpa (lower switching value) to send a contact signal. The operation steps are as follows:

• Loosen the locker and screw the product into the threaded interface of the pressure calibration platform. Note that the flat part of the sensor must be clamped with a wrench. Prevent the relative rotation of the switch housing and the sensor.

• Open the cover, pass the cable through the cable interface into the terminal board, and connect a DMM to the other end of the cable.

• Add the pressure to 0.8Mpa, this value can be read from the standard pressure gauge.

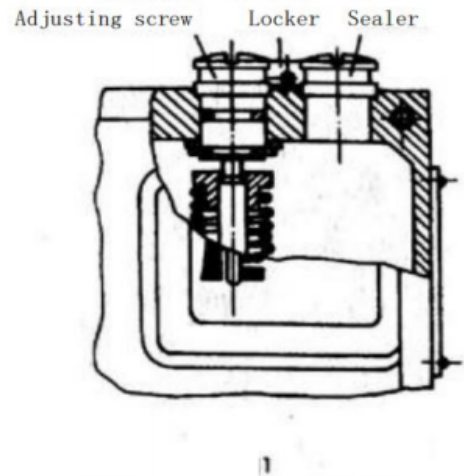
• Turn the setting value adjustment screw counterclockwise to change the setting value from small to large, until the switch contact is switched at 0.8Mpa

• Tighten the locker, adjust the pressure of the pressure calibration table, make the pressure change up and down at 0.8Mpa, and check whether the switching value of the contact is 0.8Mpa when the pressure drops. This value is the down switch value to be set. The corresponding up-switching value is 0.8Mpa plus the switching difference of 0.075Mpa (around), that is, 0.875Mpa (around).

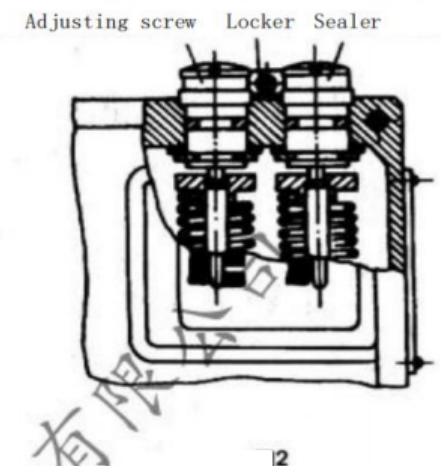
2. Steps to adjust the setting value of the pressure switch with the Adjustable Differential Gap. (Hereinafter referred to as ADG-Pressure switch). An Examples is as follows:

[Example 3]: Choose the pressure switch of model JKD511/7D with order number 0801611, and it is required to increase the pressure to 0.6Mpa to send a contact signal, and when the pressure drops to 0.4Mpa, the contact returns. The operation is as follows: (as shown in Figure 2)

• Loosen the locker and screw the product into the threaded interface of the pressure calibration platform. Note that the flat part of the sensor must be clamped with a wrench. Prevent the relative rotation of the switch housing and the sensor.



Sketch of NADG-Pressure switch



Sketch of ADG-Pressure switch

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- Open the cover, pass the cable through the cable interface into the terminal board, and connect a DMM to the other end of the cable. Increase the pressure to 0.4Mpa, this value can be read from a standard pressure gauge.
- Adjust the switching value first, and turn the setting value adjustment screw counterclockwise until the switch contact is switched at 0.4Mpa.
- Turn the switch difference adjustment screw counterclockwise to increase the switch difference from the minimum until the pressure rises to 0.6Mpa. The contact action.
- Tighten the locker, adjust the pressure value to change back and forth within the range of more than 0.4-0.6Mpa, check whether the switching value of the contact is 0.6Mpa when the pressure rises, this value is the set up switching value. Check whether the switch value of the contact is 0.4Mpa when the pressure is lowered. This value is the lower switch value to be set.

□ Selection and installation

- When using a pressure switch, it is best to make the predetermined setting value in the middle of the adjustment range of the controller setting value. Generally, it is 20%~80% of the adjustment range.
- If the pressure switch is to be installed outdoors, adequate protection should be provided to avoid drastic changes in ambient temperature, direct sunlight, and infiltration of corrosive gases or water.
- When installing the cable, choose a suitable cable outer diameter and tighten the compression nut at the cable lead-in to prevent the cable from loosening and prevent water or dust from penetrating.
- For controlled liquid media with pressure peaks and pulse pressures, a pressure shock damper can be installed on the sensor interface to eliminate adverse effects.
- The on-off current cannot be greater than the rated value.
- Pay special attention when installing (or disassembling) the product :

1) For installation (or disassembly, a wrench must be used to clamp the flat part of the sensor to prevent relative rotation between the sensor and the switch housing. (As shown in the right picture)

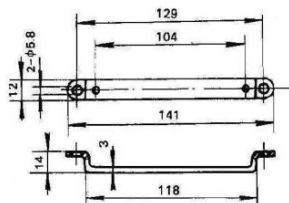
2) When the sensor interface is internal thread, the depth of the pipe joint screwed into the sensor should not exceed 12mm.

□ Accessories

Order number: 0574772

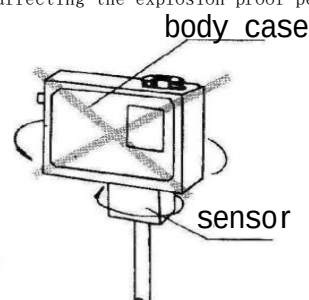
7D mounting bracket

(bracket 2, bolt 4 只), Also applies to 7T



Pay attention to the following points when selecting and installing EX-pressure switches :

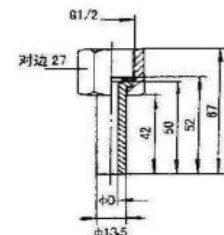
- Ex-Pressure switch is suitable for all kinds of flammable gases and vapors above II CT5 (see GB3886.1 Appendix A for flammable gas vapor group temperature group examples) and hazardous locations below zone 1.
- The cable wire should be inserted deep enough into the terminal board, and tighten the terminal board fastening screws. The outer diameter of the cable allowed to pass is 10-12mm.
- Before opening the product cover, cut off the power supply.
- Reliable grounding inside and body case .
- The power must not exceed the rated value .
- The maximum surface temperature of the exposed part of the product shall not exceed 95℃ .
- The enclosure of the product must be installed in an environment that avoids external impact damage to the enclosure. If the window glass is found to be damaged, it must be replaced in time to avoid affecting the explosion-proof performance.



Order number: 0574770、0574769、0574768

Nut with sealing ring and welded tube G1/2"

ΦD=6.2mm
8.2mm
10.2mm



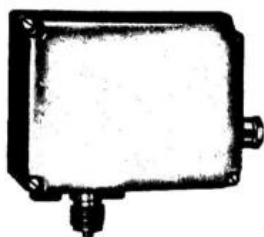
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D512/10D Pressure Switches



Stainless steel spring tube sensor , Used for corrosive gas and liquid media.

Fluid viscosity: $1 \times 0.01 \text{ m}^2/\text{s}$

Protection: IP65

Environment temperature:

-25~55℃

Medium temperature: 0~80℃

Vibration resistance: 1g

Repeatability error: 1.0%

Power: AC220V/6A Resistive

Installation site: Unlimited

D512/10D

Pressure range MPa	Non-Adjustable Differential Gap		permissible pressure (Max)**MPa	Switching times(max) times/min	Sensor Materials	Connection : External thread	Overall dimensions
	Differential Gap≤	Order number					
1-10	0.2	0830200	15	60	stainless steel 316L	G1/2"	01
1-16	0.32	0830300	20				
2-25	0.5	0830400	32				
2-40	0.8	0830500	50				

*In actual work, the short-term pressure peak of the medium at the two pressure ports cannot exceed this value.

Adjust the set value

Example: Select a pressure switch with a setting value adjustment range of 2~40MPa, and it is required to increase the pressure to 26MPa (upper switching value) to send a switch signal. The operation steps are as follows:

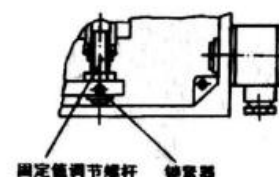
*When selecting the product into the threaded interface of the pressure calibration table, pay attention to the flat part of the sensor must be clamped with a wrench to prevent the switch housing and the sensor from rotating relative to each other.

*Open the cover, insert the cable through the cable interface into the terminal board, and connect a DMM or indicator to the other end of the cable.

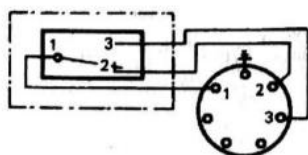
*Add the pressure to 26MPa, this value can be read from a standard pressure gauge.

*Loosen the locker and turn the setting value adjustment screw counterclockwise to make the setting value change from small to large until the switch is switched at 26MPa.

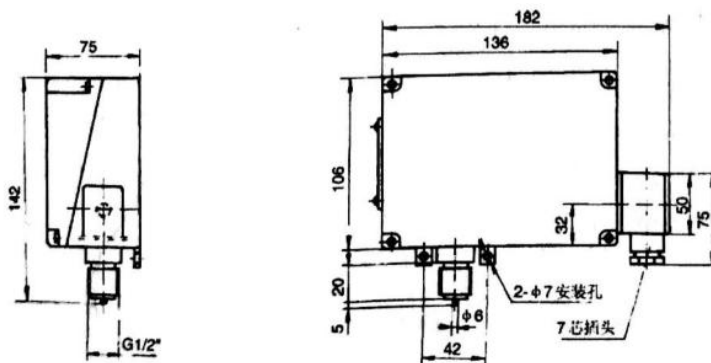
*Tighten the locker, adjust the pressure of the pressure calibration table, make the pressure change back and forth at 26MPa, and check whether the switching value of the switch is 26MPa when the pressure rises. This value is the up-switching value to be set, and its corresponding down-switching value should be 26MPa, minus the switching value 0.8MPa (about), that is, 25.2MPa (about).



Wiring diagram with plug



Overall dimensions





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D518/7D Pressure Switches



Adopt stainless steel flange diaphragm sensor. It can be used for high viscosity, dust particles, crystals, and corrosive media.

Protection: IP65

Environment temperature:
-10~55℃

Medium temperature: 0~120℃

Vibration resistance: 1g

Repeatability error: 1.5%

Power: AC220V/6A Resistive

Installation site: The
pressure interface is
vertically downward

D518/7D

Pressure range Mpa	Non-Adjustable Differential Gap			Non-Adjustable Differential Gap			permissible pressure (Max) *Mpa	Overall dimensions
	Differential Gap≤		Order number	Rang of Differential Gap		Order number		
	Set the lower limit Mpa	Set the Upper Limit MPa		Set the lower limit Mpa	Set the Upper Limit Mpa			
0.02-0.1	0.02	0.03	0813321	0.06-0.08	0.07-0.08	0803321	1.2	0.1
0.02-0.16	0.02	0.03	0813421	0.065-0.14	0.075-0.14	0803421		
0.05-0.25	0.02	0.035	0813521	0.07-0.18	0.09-0.18	0803521		
0.05-0.4	0.02	0.04	0813621	0.07-0.3	0.1-0.3	0803621		
0.05-0.6	0.035	0.055	0813721	0.08-0.45	0.12-0.45	0803721		

*In actual work, even a short pressure peak cannot exceed this value.

Outer Diameter of connective Flange: DIA 120, 140, 150mm

Sensor Materials: Body Case: 1Cr18Ni9Ti

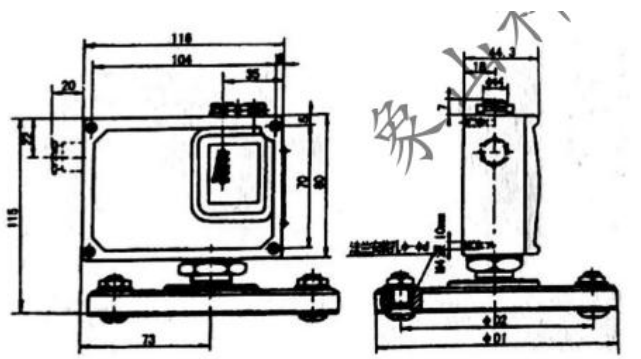
Switching times (max) : 10 times/min

Diaphragm: 00cr17Ni14Mo2

Setting Value Adjustment: See the instructions.

Overall Dimensions

01



Pay attention when installing (or removing) the switch :

Prevent the relative rotation of the sensor (flange) and the switch housing.

If users have specific requirements for flange dimensions, they can be customized.

150	125±0.20	16
140	110±0.20	14
120	90±0.175	14
D ₁	D ₂	d

D520/7DD、D520/7DDK

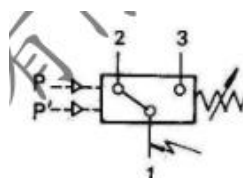
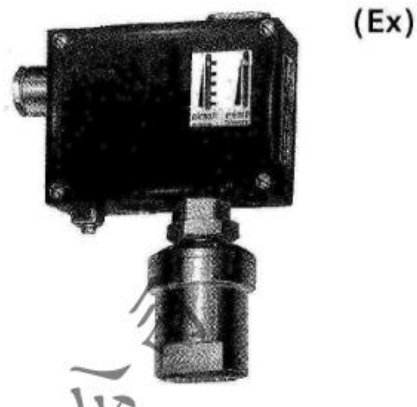
Differential pressure switches



The pressure switch adopts a bellows-type sensor, which can be used with neutral gases such as air, gas, water vapor and liquid media such as water, oil and refrigerant. The setting value of the switch is adjustable, the adjustment range is 0.02-1.6MPa, and the working pressure range is 0.05 -2.5MPa.

D520/7DD

EX-Differential pressure switches



SPDT Microswitch action process, terminals 1-3. When the differential pressure rises to the upper switching value, the terminal 1-2 is connected. When the differential pressure rises to the upper switching value, it is disconnected.

□Technical data

	General	EX
Fluid viscosity	$<1 \times 10^{-3} \text{ m}^2/\text{s}$	$<1 \times 10^{-3} \text{ m}^2/\text{s}$
switching element	Microswitch	Microswitch
Explosion-Proof	—	ExedII CT5 CertificateNO GYB081089X
Protection	IP65(conform to DIN40050 , Equivalent to GB4208in IP65)	IP54(conform to DIN40050, Equivalent to IP54 in GB4208)
Environment temperature	-30~50℃	-20℃~40℃
Medium temperature	0~120℃	0~95℃
Installation site		The pressure interface is vertically downward
Vibration resistance	D511/7D: 40m/s ² D511/7DK: 20m/s ²	Max: 20m/s ²
Repeatability error	≤1%	≤1%
Power	AC 220V 6A (Resistive)	DC 250V 0.25A (Resistive) 60Wmax AC 250V 5A (Resistive) 1250 VAMax

Xiangshan Kebo Instrument Co., Ltd.

☐ Typ

• D520/7DD Non-Adjustable Differential Gap

Differential pressure range MPa	Differential Gap≤		Working pressure range*MPa	permissible pressure (Max)**MPa	Switching times (max) times/min	Sensor Materials		Connection	Weight kg	Overall dimensions		Order number	
	Set the lower limit MPa	Set the lower limit MPa				Body Case	bellows			General	EX	General	EX
0.02-0.1	0.012	0.015	0.05 — 1.6	2	10	Brass	316L Stainless steel	G1/4"	1.20	01	02	0819100	0859180
0.02-0.16	0.012	0.017		2	10			G1/4"	1.20	01	02	0819200	0859280
0.025-0.25	0.015	0.02		2	10			G1/4"	1.20	01	02	0819300	0859380
0.03-0.4	0.02	0.025		2	10			G1/4"	1.20	01	02	0819400	0859480
0.05-0.6	0.06	0.07	0.1	3	10			G1/4"	1.20	01	02	0819500	0859580
0.05-1	0.07	0.08	—	3	10			G1/4"	1.20	01	02	0819600	0859680
0.05-1.6	0.08	0.09	2.5	3	10			G1/4"	1.20	01	02	0819700	0859780

• D520/7DD Adjustable Differential Gap

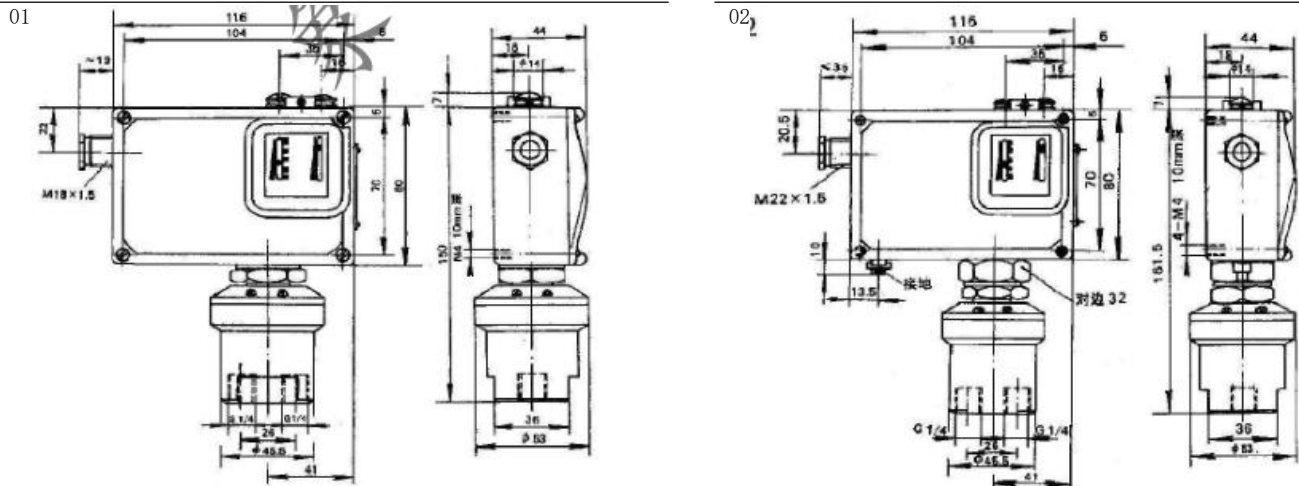
Differential pressure range MPa	adjustable range		Working pressure range*MPa	permissible pressure (Max) **MPa	Switching times (max) times/min	Sensor Materials		Connection	Weight kg	Overall dimensions		Order number	
	Set the lower limit MPa	Set the lower limit MPa				Body Case	bellows			General	EX	General	EX
0.02-0.1	0.035-0.1	0.04-0.1	0.05 — 1.6	2	10	Brass	316L Stainless steel	G1/4"	1.25	01	02	0809100	0849180
0.02-0.16	0.035-0.15	0.04-0.15		2	10			G1/4"	1.25	01	02	0809200	0849280
0.025-0.25	0.04-0.25	0.045-0.25		2	10			G1/4"	1.25	01	02	0809300	0849380
0.03-0.4	0.045-0.4	0.05-0.4		2	10			G1/4"	1.25	01	02	0809400	0849480
0.05-0.6	0.16-0.4	0.17-0.4	0.1	3	10			G1/4"	1.25	01	02	0809500	0849580
0.05-1	0.17-0.8	0.18-0.8	—	3	10			G1/4"	1.25	01	02	0809600	0849680
0.05-1.6	0.18-1.2	0.2-1.2	2.5	3	10			G1/4"	1.25	01	02	0809700	0849780

• D520/7DDK Non-Adjustable Differential Gap (small Differential Gap, General)

Differential pressure range MPa	Differential Gap≤		Working pressure range*MPa	permissible pressure (Max)**MPa	Switching times (max) times/min	Sensor Materials		Connection	Weight kg	Overall dimensions	Order number
	Set the lower limit MPa	Set the lower limit MPa				Body Case	bellows				
0.02-0.1	0.006	0.0075	0.05 — 1.6	2	10	Brass	316L Stainless steel	G1/4"	1.20	01	0819107
0.02-0.16	0.006	0.008		2	10			G1/4"	1.20	01	0819207
0.025-0.25	0.008	0.01		2	10			G1/4"	1.20	01	0819307
0.03-0.4	0.009	0.012		2	10			G1/4"	1.20	01	0819407
0.05-0.6	0.03	0.035	0.1	3	10			G1/4"	1.20	01	0819507
0.05-1	0.035	0.04	—	3	10			G1/4"	1.20	01	0819607
0.05-1.6	0.04	0.045	2.5	3	10			G1/4"	1.20	01	0819707

☐ Overall dimensions

Unit: mm



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□ Adjustment of set value

• Steps to adjust the setting value of the pressure switch with the Non-Adjustable Differential Gap . (Hereinafter referred to as NADG-Pressure switch) .An Examples is as follows:

[Example 1]: Choose a pressure switch with model 520/7DD and order number 0819600, and it is required to increase the pressure to 0.5Mpa (upper switching value) to send a contact signal. The operation steps are as follows: (As shown in Figure 1)

- Loosen the locker and screw the high-pressure inlet of the product into the threaded interface of the pressure test bench. Note that the flat part of the sensor must be clamped with a wrench to prevent the switch housing and the sensor from rotating relative to each other. Low pressure inlet air connection.

- Open the cover, pass the cable through the cable interface into the terminal board, and connect a DMM to the other end of the cable.

- Adjust the pressure to 0.5MPa, this value can be read from the standard pressure gauge.

- Turn the setting value adjustment screw clockwise to change the setting value from large to small, until the switch contacts switch at 0.5Mpa.

- Tighten the locker, adjust the pressure of the pressure calibration table, make the pressure change up and down at 0.5Mpa, check whether the switch value of the contact is 0.5Mpa when the pressure rises, this value is the up switch to be set value. The corresponding down-switching value should be 0.5Mpa minus the switching difference of 0.075Mpa (around), that is, 0.425Ma (around).

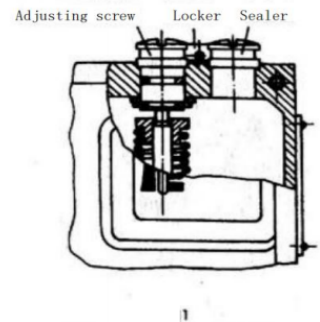
[Example 2]: Select the pressure switch model 520/7DD with order number 0819500, and it is required to reduce the pressure to 0.3Mpa (lower switching value) to send a contact signal. The operation steps are as follows:

- Loosen the locker and screw the high-pressure inlet of the product into the threaded interface of the pressure test bench. Note that the flat part of the sensor must be clamped with a wrench to prevent the switch housing and the sensor from rotating relative to each other. Low pressure inlet air connection.

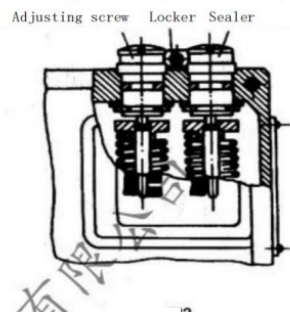
- Open the cover, pass the cable through the cable interface into the terminal board, and connect a DMM to the other end of the cable.

- Add the pressure to 0.3Mpa, this value can be read from the standard pressure gauge.

- Turn the setting value adjustment screw counterclockwise to change the



Sketch of NADG-Pressure switch



Sketch of ADG-Pressure switch

Xiangshan Kebo Instrument Co., Ltd.

setting value from small to large, until the switch contact is switched at 0.3Mpa

- Tighten the locker, adjust the pressure of the pressure calibration table, make the pressure change up and down at 0.3Mpa, and check whether the switching value of the contact is 0.3Mpa when the pressure drops. This value is the down switch value to be set. The corresponding up-switching value is 0.3Mpa plus the switching difference of 0.065Mpa (around), that is, 0.365Mpa (around).

2.Steps to adjust the setting value of the pressure switch with the Adjustable Differential Gap. (Hereinafter referred to as ADG-Pressure switch).An Examples is as follows:

[Example 3]: Choose the pressure switch of model 502/7D with order number 0801600, and it is required to increase the pressure to 0.3Mpa to send a contact signal, and when the pressure drops to 0.2Mpa, the contact returns. The operation is as follows: (as shown in Figure 2)

- Loosen the locker and screw the high-pressure inlet of the product into the threaded interface of the pressure test bench. Note that the flat part of the sensor must be clamped with a wrench to prevent the switch housing and the sensor from rotating relative to each other.Low pressure inlet air connection.

- Open the cover, pass the cable through the cable interface into the terminal board, and connect a DMM to the other end of the cable. Increase the pressure to 0.2Mpa, this value can be read from a standard pressure gauge.

- Adjust the switching value first, and turn the setting value adjustment screw counterclockwise until the switch contact is switched at 0.2Mpa.

- Turn the switch difference adjustment screw counterclockwise to increase the switch difference from the minimum until the pressure rises to 0.3Mpa. The contact action.

- Tighten the locker, adjust the pressure value to change back and forth within the range of more than 0.2-0.3Mpa, check whether the switching value of the contact is 0.3Mpa when the pressure rises, this value is the set up switching value. Check whether the switch value of the contact is 0.2Mpa when the pressure is lowered. This value is the lower switch value to be set.

The pressure switch after setting should be able to simulate the actual working condition, input the pressure signal at the two input ports at the same time, and then check whether the contact is operating at the set value of differential pressure.

□ Selection and installation

- When using a pressure switch, it is best to make the predetermined setting value in the middle of the adjustment range of the controller setting value. Generally, it is 20%~80% of the adjustment range.

- If the pressure switch is to be installed outdoors, adequate protection should be provided to avoid drastic changes in ambient temperature, direct sunlight, and infiltration of corrosive gases or water.

- When installing the cable, choose a suitable cable outer diameter and tighten the compression nut at the cable lead-in to prevent the cable from loosening and prevent water or dust from penetrating.

- For controlled liquid media with pressure peaks and pulse pressures, a pressure shock damper can be installed on the sensor interface to eliminate adverse effects.

- The on-off current cannot be greater than the rated value.

• Pay special attention when installing (or disassembling) the product :

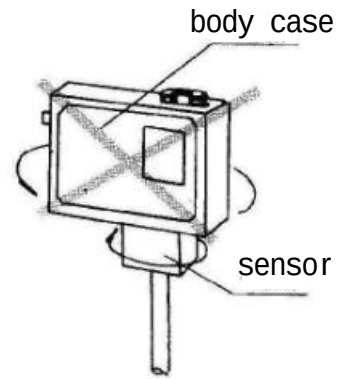
1) For installation (or disassembly, a wrench must be used to clamp the flat part of the sensor to prevent relative rotation between the sensor and the switch housing. (As shown in the right picture)

2) When the sensor interface is internal thread, the depth of the pipe joint screwed into the sensor should not exceed 12mm.

Pay attention to the following points when selecting and installing D520/7DD differential pressure switch:

- When connecting the medium pipeline, the high and low pressure inlets cannot be reversed, otherwise the contact will not act. The interface with the "+" mark is the high-voltage interface, and the interface with the "-" mark is the low-voltage interface.

- When 0574767 or 0574773 is selected for both ports, it must be noted that the diagonal moment of the hexagonal body of the joint provided by the customer cannot be greater than 25.5mm, and the three-way joint accessory can only be used in one pressure port.



Pay attention to the following points when selecting and installing EX-pressure switches :

- Ex-Pressure switch is suitable for all kinds of flammable gases and vapors above IICT5 (see GB3886.1 Appendix A for flammable gas vapor group temperature group examples) and hazardous locations below zone 1.

- The cable wire should be inserted deep enough into the terminal board, and tighten the terminal board fastening screws. The outer diameter of the cable allowed to pass is 10-12mm.

- Before opening the product cover, cut off the power supply.

- Reliable grounding inside and body case .

- The power must not exceed the rated value .

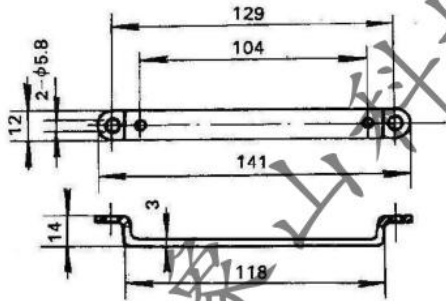
- The maximum surface temperature of the exposed part of the product shall not exceed 95℃ .

- The enclosure of the product must be installed in an environment that avoids external impact damage to the enclosure. If the window glass is found to be damaged, it must be replaced in time to avoid affecting the explosion-proof performance.

□ Accessories

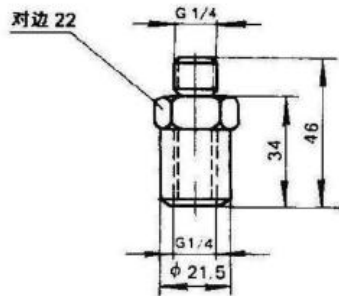
Order number: 0574772

7D mounting bracket (bracket 2, bolt 4 只), Also applies to 7DD



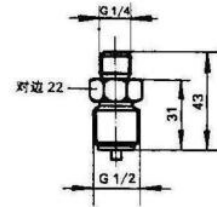
Order number: 0574773

Pressure shock damper interface G1/4"



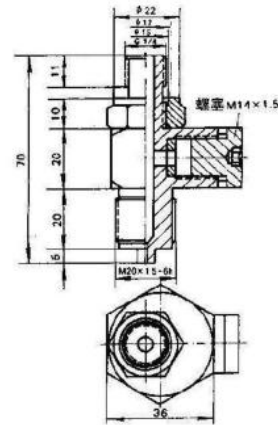
Order number: 0574767

External thread conversion interface
G1/2" -G1/4"



Order number: KB. 5. 470. 505

Tee connector (Unscrew the screw plug and connect with $\Phi 60$ pressure gauge)





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D520M/7DDP, D520M/7DD Differential pressure switches



Adopt rubber diaphragm sensor. Can be used for neutral gases such as air. Liquid media such as water, hydraulic oil, lubricating oil, etc.

Fluid viscosity: 1×10^{-2} m²/s

Protection: IP54

Environment temperature: 0-55°C

Medium temperature:

0-90°C D520M/7DDP

0-60°C D520M/7DD

Vibration resistance: 1g

Repeatability error:

1.5% D520M/7DDP

2% D520M/7DD

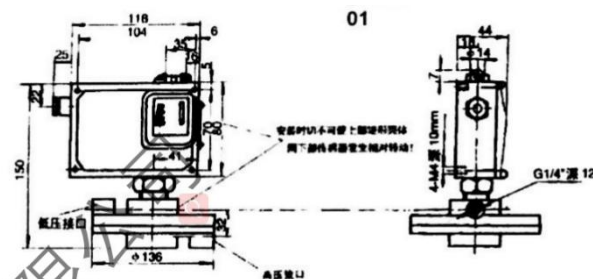
Power: AC220V/6A Resistive

Installation site: The pressure interface is vertically downward

D520M/7DDP

D520M/7DDP Overall dimensions

Differential pressure range KPa	Non-Adjustable Differential Gap			permissible pressure (Max)**KPa	Overall dimensions
	Differential Gap≤		Order number		
	Set the lower limit KPa	Set the Upper Limit kPa			
0.2-2.5	0.15	0.25	0818300	160	01
0.6-6	0.3	0.4	0818500		
1.6-16	0.3	0.6	0818700		
2.5-25	0.3	0.7	0818800		



**In actual work, the short-term pressure peak of the medium at the two pressure ports cannot exceed this value.

D520M/7DD

Differential pressure range KPa	Non-Adjustable Differential Gap			Working pressure range*KPa	permissible pressure (Max)**KPa	Overall dimensions
	Differential Gap≤		Order number			
	Set the lower limit KPa	Set the Upper Limit kPa				
0-1	0.12	0.15	0818110	0-80	100	02
0-1.6	0.15	0.2	0818210			
0.4-4	0.6	0.8	0818410	0-160	200	03
0.6-6	0.7	0.9	0818510			
1-10	0.8	1.2	0818610			
2.5-25	1	1.8	0818810			

*The medium pressure range of the high pressure port.

**In actual work, the short-term pressure peak of the medium at the two pressure ports cannot exceed this value.

Setting Value Adjustment: See the instructions.

D520M/7DD Overall dimensions

Unit (mm)

D520M/7DDP, D520M/7DD:

Connection: female screw G1/4"

Sensor Materials:

Body Case: casting Aluminums

Diaphragm: D520M/7DDP NBR,
D520M/7DD FKM

Switching times (max): 10 times/min

Available accessories:

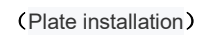
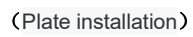
0574773, 0574767

0818110-0818210 choose 0574771A,

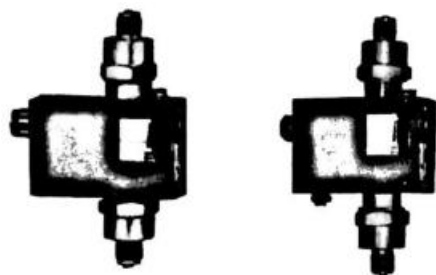
Other choose 0574771



03



D530/7DD, D530/7DDK Differential pressure switches



Adopts stainless steel bellows type sensor. Can be used for corrosive gas or liquid media.

Fluid viscosity: $1 \times 0.01 \text{ m}^2/\text{s}$ Vibration resistance:
 Protection: IP65 7D:4g, 7DK:2g
 Environment temperature: Repeatability error: 1.0%
 -5-40℃ Power: AC220V/6A Resistive
 Medium temperature: 0-120℃ Installation site: Unlimited

D530/7DD

Differential pressure range MPa	Non-Adjustable Differential Gap			Working pressure range*MPa	permissible pressure (Max) *MPa	Overall dimensions	
	Differential Gap≤		Order number			General	EX
	Set the lower limit MPa	Set the Upper Limit MPa					
0.02-0.1	0.025	0.04	0819111	0.05-1.6	2	01	03
0.02-0.16	0.025	0.04	0819211				
0.025-0.25	0.03	0.05	0819311				
0.03-0.4	0.03	0.06	0819411				
0.05-0.6	0.06	0.1	0819511	0.1-2.5	3	02	04
0.05-1	0.07	0.12	0819611				
0.05-1.6	0.08	0.14	0819711				
0.1-3	0.08	0.2	0819715	0.4-6.3	7		

D530/7D has corresponding EX-Products, just change the second to last order number to "8", such as 0819111 to 0819181.

The EX-Product parameters are the same as the above table. Explosion-proof grade Exde II CT5. For EX-Product instructions, see the next page for Power.

D530/7DDK (small Differential Gap)

Differential pressure range MPa	Non-Adjustable Differential Gap			Working pressure range*MPa	permissible pressure (Max) *MPa	Overall dimensions
	Differential Gap≤		Order number			
	Set the lower limit MPa	Set the Upper Limit MPa				
0.02-0.1	0.01	0.02	0819113	0.05-1.6	2	01
0.02-0.16	0.01	0.02	0819213			
0.025-0.25	0.012	0.025	0819313			
0.03-0.4	0.012	0.03	0819413			
0.05-0.6	0.025	0.5	0819513	0.1-2.5	3	02
0.05-1	0.03	0.06	0819613			
0.05-1.6	0.04	0.06	0819713			
0.1-3	0.05	0.15	0819813	0.4-6.3	7	

D530/7DD (Including EX- Products) ,

D530/7DDK:

Connection: External thread G1/2"

Sensor Materials:

Body Case: 1Cr18Ni9Ti

Bellows: 00Cr17Ni14Mo2

Switching times (max) : 10 times/min

*The medium pressure range of the high pressure port.

**In actual work, the short-term pressure peak of the medium at the two pressure ports cannot exceed this value.

Setting Value Adjustment: See the instructions.



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EX-Product: Explosion-proof grade : Exde II

CT5

Fluid viscosity: $1 \times 0.01 \text{ m}^2/\text{s}$

Protection: IP54

Environment temperature:

-5~40℃

Medium temperature: 0~90℃

Installation site: The pressure

interface is vertically downward

Vibration resistance: 2g

Repeatability error: 1%

Power: DC 250V 0.25A (Resistive) 60WMax

AC 250V 5A (Resistive) 1250VAMax

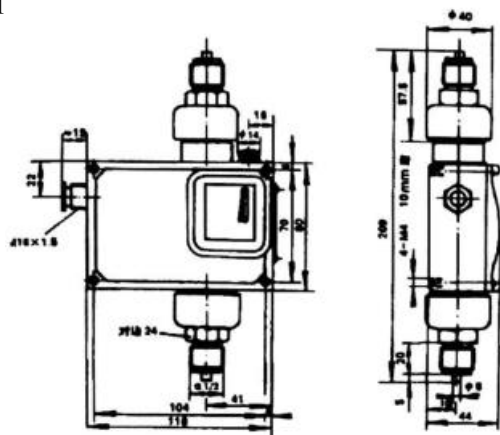
Note: the actual power capacity should not be greater than the above quota.

Overall dimensions

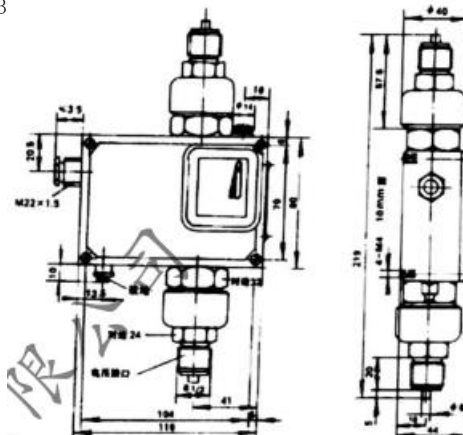
General

EX Unit (mm)

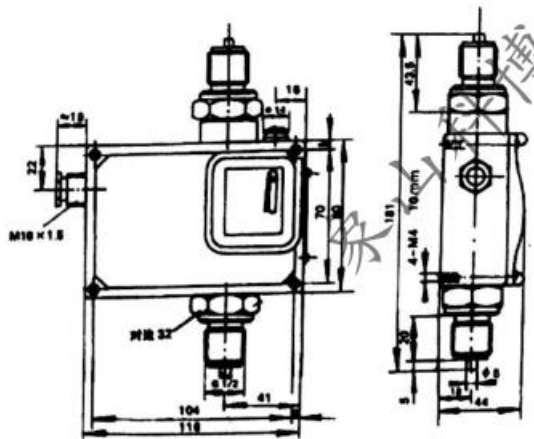
01



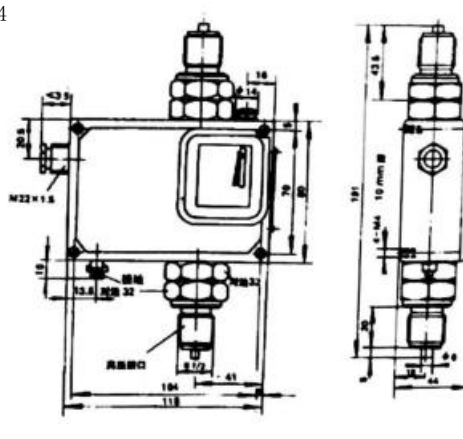
03



02



04



Accessories : 0574768, 0574769, 0574770, 0574772

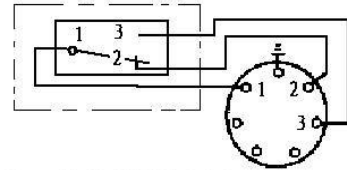
KBP-01A

Pressure Switches

Adopt diaphragm sensor, High pressure resistance, long service life, compact structure and small size. Because the product adopts a special sensor structure, it solves the common oil leakage defect of the piston controller.

Technical data

Switching element : Microswitch (Omron)
Protection: IP68
Environment temperature: $-25 \sim +50^{\circ}\text{C}$
Medium temperature: $-40 \sim +120^{\circ}\text{C}$
Vibration resistance: Max 40m/S²
Repeatability error: $\leq 1\%$
Power: $V_{\text{max}}=220\text{V AC}$ $I_{\text{max}}=5\text{A}$ $P_{\text{max}}=500\text{W}$ (Resistive)



SPDT Microswitch action process, terminals 1-3. When the differential pressure rises to the upper switching value, the terminal 1-2 is connected. When the differential pressure rises to the upper switching value, it is disconnected.

Features

High precision ,It can be used to control and alarm the pressure of gas, water, oil and other liquid media.

◇ Type

Non-Adjustable Differential Gap

Pressure range *Mpa (Kpa)	Differential Gap $\leq$ *Mpa (kpa)	permissible pressure (Max) *Mpa (kpa)	Switching times (max) times/min	Sensor Materials	Connection	Order number
(0~2.5)	(1.0)	(50)	15	Diaphragm : NBR or FKM Connection: Steel or 1Cr18Ni9Ti	G1/4" or M20 × 1.5	0100001
(0~6)	(1.2)	(50)				0100002
(0~16)	(3.0)	(50)				0100003
(0~25)	(4.0)	(50)				0100004
*0.005~0.06	0.006	*1				0100005
*0.005~0.1	0.009	*1				0100006
*0.005~0.25	0.012	*1				0100007

Adjustment of set value

[Example] Choose a pressure switch with model KBP-01A and order number 0100004, and it is required to increase the pressure to 12Kpa (upper switching value) to send a contact signal. The operation steps are as follows: (As shown in Figure 1)

- Screw the product into the threaded interface of the pressure calibration platform, and apply pressure to the product for 2 minutes according to the actual working pressure before setting.

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Xiangshan Kebo Instrument Co., Ltd.

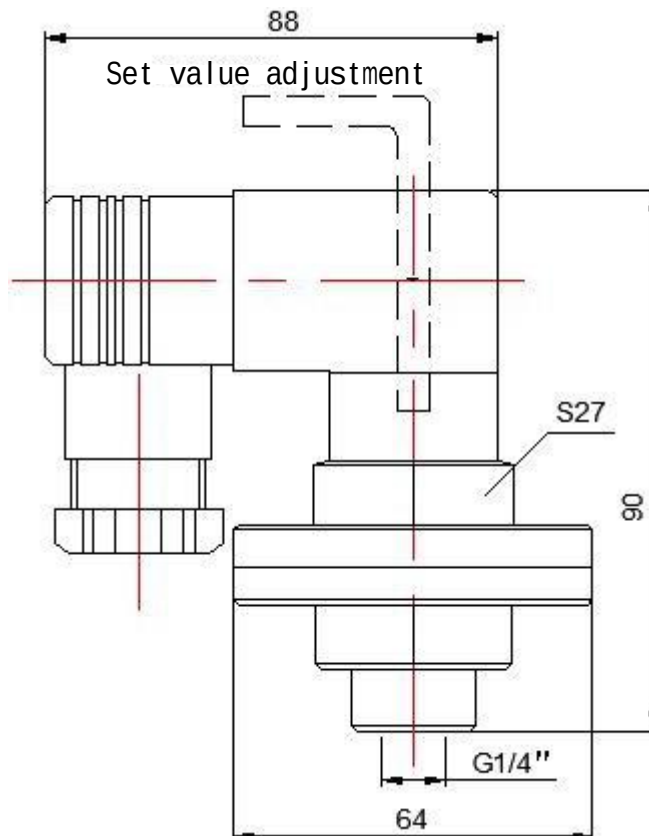
- Connect the DMM or indicator to the output socket;
- Unscrew the screws on the top of the controller ;
- Increase the pressure to 12kPa, this value can be read from a standard pressure gauge ;
- Using a 3mm hexagon socket screw wrench, turn the adjusting screw clockwise to make the setting value change from large to small until the switch switches at 12kPa ;
- Adjust the pressure of the pressure calibration table to make the pressure change back and forth at 12kPa. Check whether the switch value of the contact is 12kPa when the pressure rises. This value is the up switch value to be set, and the corresponding down switch value should be about 8kPa (the set value minus the switch difference) .

✧ Selection and installation

- When using a pressure switch, it is best to make the predetermined setting value in the middle of the adjustment range of the controller setting value. Generally, it is 20%~80% of the adjustment range.
- If the pressure switch is to be installed outdoors, adequate protection should be provided to avoid drastic changes in ambient temperature, direct sunlight, and infiltration of corrosive gases or water.
- When installing the cable, choose a suitable cable outer diameter and tighten the compression nut at the cable lead-in to prevent the cable from loosening and prevent water or dust from penetrating.
 - The on-off current cannot be greater than the rated value.
 - For installation (or disassembly, a wrench must be used to clamp the flat part of the sensor to prevent relative rotation between the sensor and the switch housing.
 - installation: installed vertically



✧ Overall dimensions



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