

BANNING high pressure transmitter KSHP





DESCRIPTION

KSPH series pressure seat is made of 17-4PH stainless steel onepiece integrated structure. The integrated stainless steel diaphragm makes the overload performance much higher than that of common cores such as diffused silicon and ceramics, and its pressure interface has no welds, no silicone oil or Other organic substances have good sealing performance. In the standard production process, various parameters are strictly controlled, and the entire product has undergone strict testing and aging of components, semi-finished products and finished products, and its performance is stable and reliable.

CHARACTERISTICS

- Anti-100V/m electromagnetic interference
- Stainless steel one-piece integrated structure, no O-rings
- high pressure
- Adapt to harsh environments
- Various output signals
- High reliability and stability
- Strong overload capacity
- Wide operating temperature range

PERFORMANCE

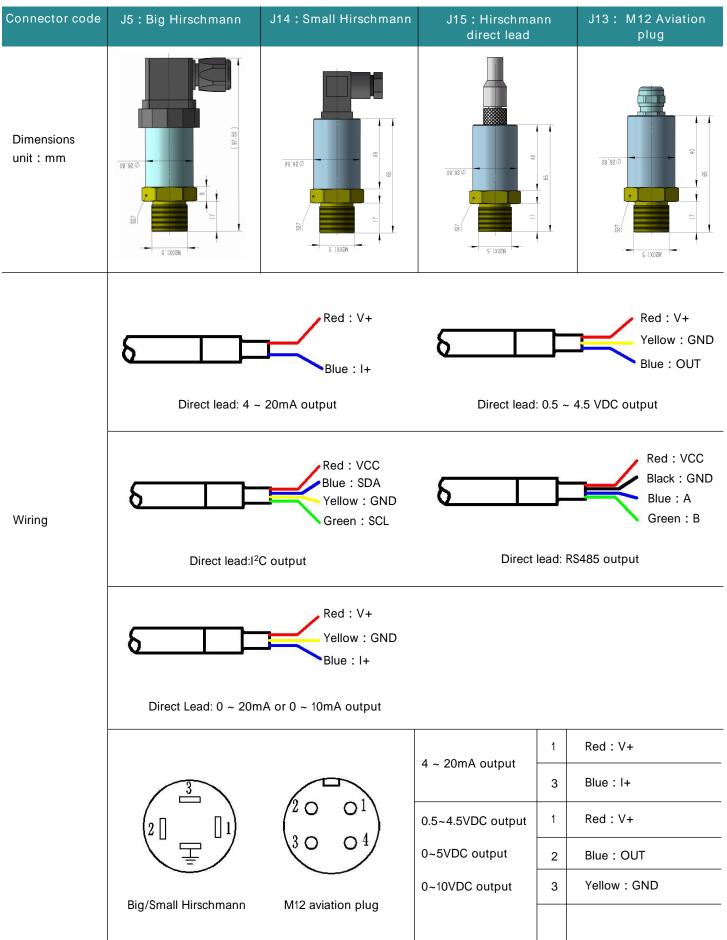
Performance	KSHP	
Measuring range	0~1MPa300MPa	
pressure type	seal pressure	
Power supply	9~30VDC;5VDC	
Power output	4 ~ 20mA、 0 ~ 5V、 0 ~ 10V (9 ~ 30VDC); 0.5 ~ 4.5V(5VDC)	
precision	± 0.25%FS	
Hysteresis and Repeatability	± 0.25%FS	
Long-term stability (1 year)	± 0.25%FS	
Insulation resistance (250Vdc)	50M	
Overload pressure	200%FS	
Destruction pressure	500%FS	
Pressure cycling (from zero to full scale)	10 × 10 ⁶ Pressure cycle	
Compensated temperature	-20 ~ 85	
Operating temperature	-40 ~125	
Storage temperature	-40 ~125	
vibration	± 20g	
Shock (11mS)	100g	

APPLICATION

• It is widely used in pressure measurement of industrial process sites such as petroleum, chemical industry, metallurgy,

electric power, hydrology and so on.

EXTERNAL STRUCTURE





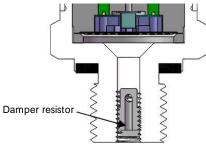
SELECTION OF DAMPER

APPLICATION:

- Cavitation, liquid hammer and pressure spikes can occur in air or liquid systems with varying flow rates. Examples include quick closing of valves or starting and stopping of pumps.
- These problems can occur at the inlet and outlet, even at fairly low operating pressures.

MEDIA CONDITION:

- In liquids containing particles, clogging of the nozzle may occur. Mounting the transmitter vertically minimizes the risk of clogging, as the flow of fluid is limited to the initial start-up, while the volume behind the nozzle is fixed and the nozzle's aperture is relatively large (1.2mm).
- The effect of medium viscosity on response time is small. Even if the viscosity reaches 100 CST, the response time will not exceed 4ms.



THREAD INTERFACE

Thread code	C1:M20×1.5-6g	C2:G1/2	C3:G1/4
Dimensions unit : mm	26.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		D26.8 00 57 57 57 57 51/4
Torque	15 ~ 25Nm	15 ~ 25Nm	15 ~ 25Nm



Thread code	C5:NPT1/4	C6:R1/4	C7:NPT1/2	
Dimensions unit : mm	26.8	26.8 00 LZ R1/4	26.8 P P P P P NPT1/2	
Torque	15 ~ 25Nm	15 ~ 25Nm	15 ~ 25Nm	
Thread code	C8:M12×1.5	C10: R1/2	C15: G3/8	
Dimensions unit : mm	26.8	026.8 02 02 02 02 02 02 02 02 02 02 02 02 02		
Torque	15 ~ 25Nm	15 ~ 25Nm	15 ~ 25Nm	

NOTE : Torque depends on various factors, such as gasket material, matching materials, thread lubrication, and pressure.



PRESSURE RANGE TABLE

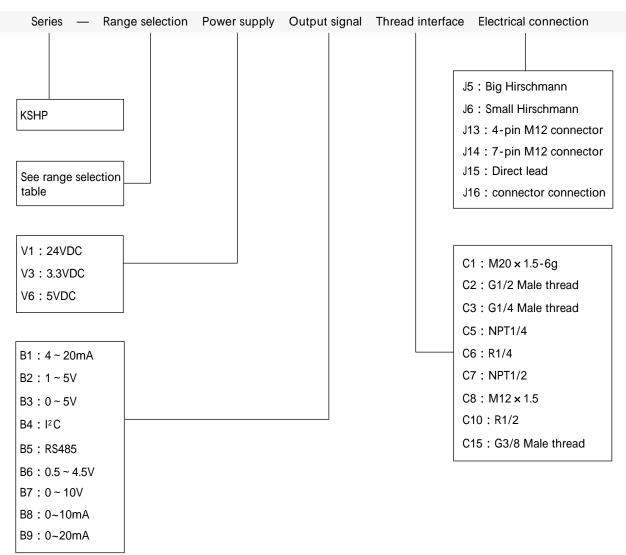
Range code	Pressure type	Measuring range	Overload pressure	Burst pressure	Remark
1M	S	0 ~1MPa	150%FS	300%FS	
1.6M	S	0 ~1.6MPa	150%FS	300%FS	
2.5M	S	0 ~2.5MPa	150%FS	300%FS	
4M	S	0 ~4MPa	150%FS	300%FS	
6M	S	0 ~6MPa	150%FS	300%FS	
10M	S	0~10MPa	150%FS	300%FS	
16M	S	0 ~16MPa	150%FS	500%FS	
25M	S	0 ~25MPa	150%FS	300%FS	
40M	S	0 ~40MPa	150%FS	300%FS	
60M	S	0~60MPa	150%FS	200%FS	
100M	S	0~100MPa	120%FS	150%FS	
120M	S	0~120MPa	120%FS	150%FS	
150M	S	0~150MPa	120%FS	150%FS	
200M	S	0 ~200MPa	120%FS	150%FS	
300M	S	0~300MPa	120%FS	150%FS	

NOTE: 1: S seal pressure.

2 : Use a non-oil-filled pressure sensor. The measurement medium must be pure gas.



NOMENCLATURE



FOR EXAMPLE : KSHP-130MSV1B1C3J5

The series is KSHP, range is $0 \sim 130$ MPa, pressure type is seal pressure, power supply mode is 24VDC, output signal is 4-20mA, thread interface is G1 / 4 male thread, and electrical connector is Big Hirschmann.

When selecting, please pay attention to the compatibility of the tested medium and the product's contact part.



DISCLAIMER

A Warning

LIFE OR PROPERTY RISK

 Please ensure that this product has been designed as part of whole system and already considered related risks, make sure the product has the correct ratings and is designed based on the entire system. It must not be used when applications related to serious life or property damage risks.

Failure to follow this instruction can result in death or serious injury.

A Warning

PERSONAL INJURY

• DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to follow this instruction can result in death or serious injury.

A Warning

MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to follow this instruction can result in death or serious injury.

SALES & SERVICE

Banning serves its clients through a worldwide network of sales offices, agents and distributors. For application assistance specifications, prices or names with the nearest authorized dealer, please contact your sales specialist or contact us directly:

Banning (Nanjing) Sensing Technology Co., Ltd.

Nanjing,Pukou District, High-tech Zone, Longtai Road No. 16, Building C2, 3rd Floor TEL: 400-7181-886





WeChat



Invoice

Official Website : www.banningsensor.com Service Hotline : 400-7181-886 Official mailbox : sales@banningsensor.com

© 2022Banning (Nanjing) Sensing Technology Co., Ltd.

Warranty/Remedy

Banning warrants goods of its manufacture as being free of defective materials and faulty workmanship during the appli cable warranty period. Banning's standard product warranty applies unless agreed to otherwise by Banning in writing; please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Banning during the period of coverage, Banning will repair or replace, at its option, without charge those items that Banning , in its sole discretion, finds defective. The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Banning be liable for consequential special, or indirect damages.

While Banning may provide application assistance personally, through our literature and the Banning web site, it is buyer's sole responsibility to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Banning assumes no responsibility for its use.



