

STANDARD TYPE PRESSURE GAUGES

Case: black steel(standard);chromed steel(optional)
Ring: black steel(standard);chromed steel(optional)
Window: glass(standard);acrylic plastic (optional)
Internals: brass(standard)
Socket: brass(standard)

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-0101	1-1/2"	back	-1-700Bar or Mpa Psi mmHg kg/cm2 Kpa	1/8" 1/4" 3/8" 1/2" NPT BSP PT	2.50%
HP-0102	1-1/2"	bottom			2.50%
HP-0103	2"	back			2.50%
HP-0104	2"	bottom			2.50%
HP-0105	2-1/2"	back			1.50%
HP-0106	2-1/2"	bottom			1.50%
HP-0107	3"(80mm)	back			1.50%
HP-0108	3"(80mm)	bottom			1.50%
HP-0109	4"	back			1.50%
HP-0110	4"	bottom			1.50%
HP-0111	6"	back			1.00%
HP-0112	6"	bottom			1.00%
HP-0113	8"	bottom			1.00%
HP-0114	10"	bottom			1.00%

PLASTIC CASE PRESSURE GAUGES

Case: black ABS plastic
Window: snap-in acrylic plastic
Internals: brass
Socket: brass(standard);brass with PTFE ring(optional)

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-0201	1-1/2"	back	-1-700Bar or Mpa Psi mmHg kg/cm2 Kpa	1/8"	2.50%
HP-0202	1-1/2"	bottom		1/4"	2.50%
HP-0203	2"	back		3/8"	2.50%
HP-0204	2"	bottom		1/2"	2.50%
HP-0205	2-1/2"	back		NPT	2.50%
HP-0206	2-1/2"	bottom		BSP	2.50%
HP-0207	4"	back		PT	2.50%
HP-0208	4"	bottom			2.50%

OPTIONAL TYPE PRESSURE GAUGES

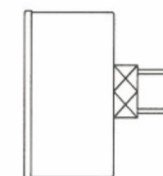
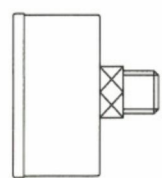
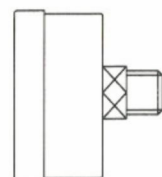
Case: black steel
Window: snap-in acrylic plastic
Internals: brass(standard)
Socket: brass(standard)

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-0301	1-1/2"	back	-1-700Bar or Mpa Psi mmHg kg/cm2 Kpa	1/8" 1/4" 3/8" 1/2" NPT BSP PT	2.50%
HP-0302	1-1/2"	bottom			2.50%
HP-0303	2"	back			2.50%
HP-0304	2"	bottom			2.50%
HP-0305	2-1/2"	back			1.50%
HP-0306	2-1/2"	bottom			1.50%
HP-0307	3"	back			1.50%
HP-0308	3"	bottom			1.50%
HP-0309	4"	back			1.50%
HP-0310	4"	bottom			1.50%

BACK FLANGE TYPE PRESSURE GAUGES

Case and Flange: black steel
Ring: black steel(standard);chromed steel(optional)
Window: glass(standard);acrylic plastic (optional)
Internals: brass(standard)
Socket: brass(standard)

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-0401	1-1/2"	bottom	-1-700Bar or Mpa Psi mmHg kg/cm2 Kpa	1/8"	2.50%
HP-0402	2"	bottom		1/4"	2.50%
HP-0403	2-1/2"	bottom		3/8"	1.50%
HP-0404	3"	bottom		1/2"	1.50%
HP-0405	4"	bottom		NPT	1.50%
HP-0406	6"	bottom		BSP	1.00%
HP-0407	8"	bottom		PT	1.00%
HP-0408	10"	bottom			1.00%



FRONT FLANGE TYPE PRESSURE GAUGES

Case and Flange: black steel
Window: glass(standard);acrylic plastic (optional)
Internals: brass(standard)
Socket: brass(standard)

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-0501	1-1/2"	back	-1-700Bar	1/8",1/4"	2.50%
HP-0502	2"	back		or	3/8",1/2"
HP-0503	2-1/2"	back	Mpa Psi	NPT,BSP,PT	1.50%
HP-0504	3"	back	mmHg kg/cm² Kpa		1.50%
HP-0505	4"	back			1.50%

U CLAMP TYPE PRESSURE GAUGES

Case:black steel(standard);chromed steel(optional)
Window:acrylic plastic(standard)
Ring:SS304
Internals:brass(standard)
Socket: brass(standard)

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-0601	1-1/2"	back	-1-700Bar or	1/8", 1/4"	2.50%
HP-0602	2"	back			
HP-0603	2-1/2"	back	Mpa Psi	NPT,BSP,PT	1.50%
			mmHg kg/cm ² Kpa		1.50%

INDUSTRIAL BAYONET PRESSURE GAUGES (EXPLOSION RUBBER ON THE BACK)

Case and Ring: black steel
Window: glass(standard);acrylic (optional)
Internals:brass(standard)
Socket: brass(standard)

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-0701	4"	bottom	-1-700Bar or Mpa Psi	3/8", 1/2"	1.00%
HP-0702	6"	bottom	mmHg kg/cm ² Kpa	NPT,BSP,PT	1.00%

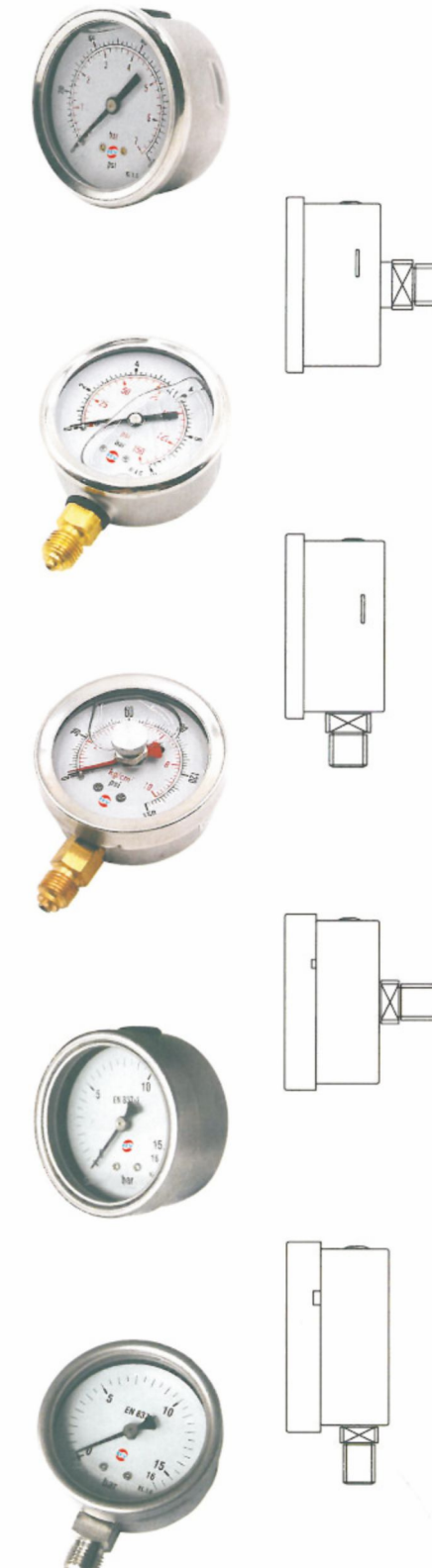
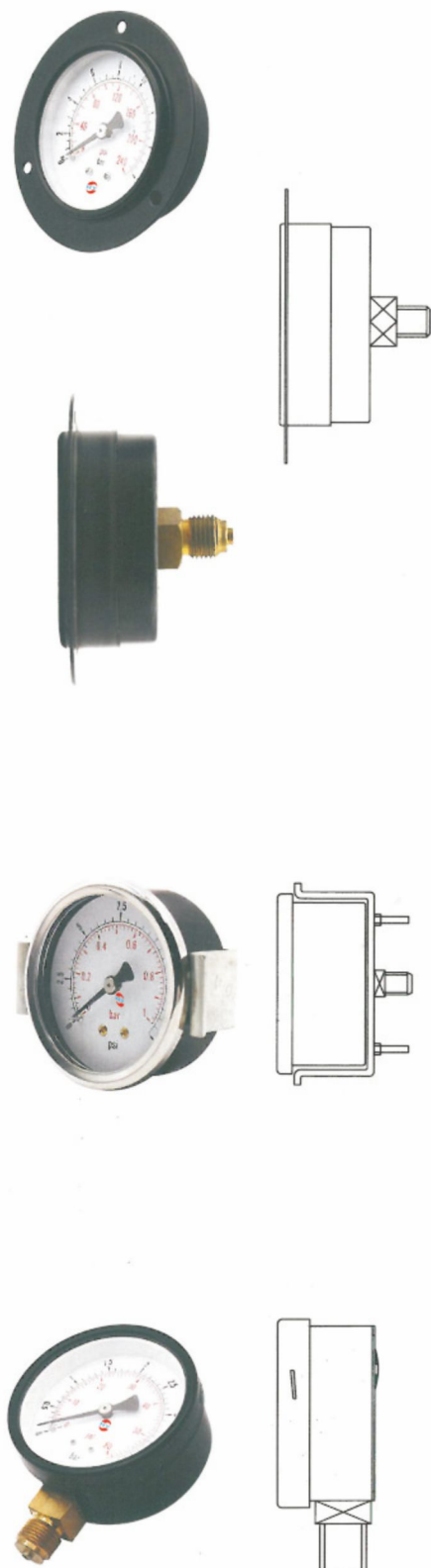
LIQUID FILLED TYPE PRESSURE GAUGES

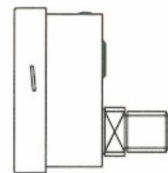
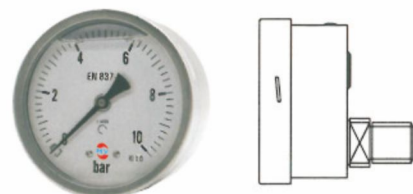
Case/Ring: SS304
Window:plexiglass (pc); with adjustable pointer (optional)
Internals: brass(standard)
Socket: brass(standard)

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-0801B	1-1/2"	back	-1-700Bar or Mpa Psi mmHg kg/cm ² Kpa	1/8" 1/4" 3/8" 1/2" NPT BSP PT	2.50%
HP-0802B	1-1/2"	bottom			2.50%
HP-0803B	2"	back			2.50%
HP-0804B	2"	bottom			2.50%
HP-0805B	2-1/2"	back			1.50%
HP-0806B	2-1/2"	bottom			1.50%
HP-0807B	3"	center back			1.50%
HP-0808B	3"	lower back			1.50%
HP-0809B	3"	bottom			1.50%
HP-0810B	4"	center back			1.50%
HP-0811B	4"	lower back			1.50%
HP-0812B	4"	bottom			1.50%
HP-0813B	4" with explosion rubber	lower back			1.50%
HP-0814B	4" with explosion rubber	bottom			1.50%

Case/Ring: SS304
Window:plexiglass (pc)
Internals:SS316(optional)
Socket: SS316(optional)

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-0801S	1-1/2"	back	-1-700Bar or Mpa Psi mmHg kg/cm ² Kpa	1/8" 1/4" 3/8" 1/2" NPT BSP PT	2.50%
HP-0802S	1-1/2"	bottom			2.50%
HP-0803S	2"	back			2.50%
HP-0804S	2"	bottom			2.50%
HP-0805S	2-1/2"	back			1.50%
HP-0806S	2-1/2"	bottom			1.50%
HP-0807S	3"	Center back			1.50%
HP-0808S	3"	lower back			1.50%
HP-0809S	3"	bottom			1.50%
HP-0810S	4"	Center back			1.50%
HP-0811S	4"	lower back			1.50%
HP-0812S	4"	bottom			1.50%
HP-0813S	4" with explosion rubber	lower back			1.50%
HP-0814S	4" with explosion rubber	bottom			1.50%





OIL-FILLED PRESSURE GAUGES BIG MODEL

Case:SS304

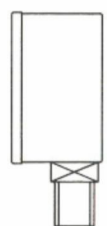
Ring:SS304(detachable)

Window:plexiglass (standard);safety glass(optional)

Internals:brass(standard)

Socket: brass(standard)

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-0901B	4"(big)	bottom	-1-700Bar or Mpa Psi mmHg kg/cm ² Kpa	3/8"1/2" NPT BSP PT	1.00%
HP-0902B	4"(big)	lower back			1.00%
HP-0903B	6"(big)	bottom			1.00%
HP-0904B	6"(big)	lower back			1.00%



Case:SS304

Ring:SS304(detachable)

Window:plexiglass (standard);safety glass(optional)

Internals:SS316(standard)

Socket: SS316(standard)

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-0901S	4"(big)	bottom	-1-700Bar or Mpa Psi mmHg kg/cm ² Kpa	3/8"1/2" NPT BSP PT	1.00%
HP-0902S	4"(big)	lower back			1.00%
HP-0903S	6"(big)	bottom			1.00%
HP-0904S	6"(big)	lower back			1.00%

LIQUID FILLED AGRICULTURE PRESSURE GAUGES

Case/Ring: SS304

Window:plexiglass (pc);

Internals:brass(standard)

Socket: brass(standard)

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-0801A	2-1/2"	back	0-60bar, 0-25bar or as required	1/4"3/8" NPT,BSP,PT	1.50%
HP-0802A	2-1/2"	bottom			1.50%
HP-0803A	4"	Center back			1.50%
HP-0804A	4"	bottom			1.50%



WELDING GAUGES(OXYGEN/ACETYLENE)

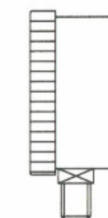
With pressure releasing hole,highly safe.

Standard type welding pressure gauges

Case:color steel (standard); color ABS (optional)

Internals:brass Window: PC window, detachable

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-1001	1-1/2"	bottom	0~6bar,0~10bar,0~30bar,	1/8", 1/4" NPT, BSP,PT	2.50%
HP-1002	2"	bottom	0~150bar,0~315bar or as		2.50%
HP-1003	2-3/4"	bottom	required,Kpa,Psi kg/cm ² is available		1.50%



Economic type welding pressure gagues

Case:color steel with explosion on the back or chromed steel case(optional)

Window: snap-in acrylic

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-1004	1-1/2"	bottom	0~6bar,0~10bar,0~30bar	1/8", 1/4" NPT,BSP,PT	2.50%
HP-1005	2"	bottom	0~150bar,0~315bar		2.50%
HP-1006	2-1/2"	bottom	or as required,		1.50%
HP-1007	2-3/4"	bottom	Kpa, Psi kg/cm ² is available		1.50%



MANOTHERMOMETERS (TEMPERATURE+PRESSURE)

Economic type,with spring adaptors

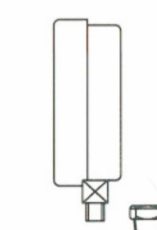
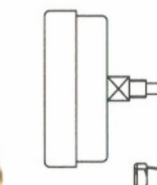
Case: black steel (standard);black ABS(optional)

Ring: chromed steel(standard); N/A(optional)

Window: plastic(standard);snap-in acrylic(optional)

Accuracy:temperature---2%; pressure---3-2-3

MODEL NO	DIAL	CONNECTION	RANGE	THREAD
HP-1101	80mm	back	0~120 c/0~6 bar or as required	3/8" 1/2" BSP
HP-1102	80mm	bottom		
HP-1103	63mm	back		
HP-1104	63mm	bottom		
HP-1105	50mm	back		
HP-1106	50mm	bottom		



Industrial type,with spring pocket

Case:black steel
Ring:chromed steel
Window:glass
Stem:75mm brass or as required

MODEL NO	DIAL	CONNECTION	RANGE	THREAD
HP-1107	80mm	back	0~120 c/0~6 bar	3/8" 1/2"BSP
HP-1108	80mm	Bottom	or as required	

Case: black steel
Window: PC,detachable Socket:brass
Accuracy:temperature---2%; pressure---3-2-3

MODEL NO	DIAL	CONNECTION	RANGE	THREAD
HP-1109	80mm	back	20-160c/f c/0~75psi/kpa or as required	3/8" 1/2" BSP
HP-1110	80mm	bottom		
HP-1111	68mm	back		
HP-1112	68mm	bottom		
HP-1113	63mm	back		
HP-1114	63mm	bottom		
HP-1115	50mm	back		
HP-1116	50mm	bottom		

Case:SS304
Ring: SS304
Window:GLASS
Accuracy:temperature---2%; pressure---3-2-3

MODEL NO	DIAL	CONNECTION	RANGE	THREAD
HP-1117	80mm	back	0~120 c/0~10bar or as required	3/8" 1/2" BSP
HP-1118	80mm	bottom		
HP-1119	63mm	back		
HP-1120	63mm	bottom		
HP-1121	50mm	back		
HP-1122	50mm	bottom		

CAPSULE PRESSURE GAUGE/MINI BAR GAUGES

Case: black steel(standard); yellow color steel; stainless steel(optional)
Window: snap-in acrylic for dial 63mm, glass for dial 75mm and 100mm
Internals: brass(standard); stainless steel(optional)
Socket: brass(standard)

Common dry type

MODEL NO	DIAL	CONNECTION	RANGE	THREAD	ACCURACY
HP-1201	2-1/2"	back	-100~0 , 0~25	1/4"	2.50%
HP-1202	2-1/2"	bottom	0~60 , 0~100	3/8"	2.50%
HP-1203	3"	back	0~200 , 0~250	1/2"	2.50%
HP-1204	3"	bottom	0~300 , 0~400	NPT	2.50%
HP-1205	4"	back	0~500 , 0~600	BSP	2.50%
HP-1206	4"	bottom	0~1000 mbar	BSPT	2.50%

FIRE EXTINGUISH GAUGES

MODEL NO	DIAL	INTERNALS	RANGE	CONNECTION
HP-1301	Φ23	bourdon tube	7, 8.78	1/8"NPT 1/8"BSP M10×1-12.5 Or as required
HP-1302	Φ25		12, 13.5	
HP-1303	Φ34		14, 15, 18	
HP-1304	Φ37		Bar, Kpa,Psi	
HP-1305	Φ27	diaphragm	Or as required	Or as required
HP-1306	Φ30			
HP-1307	Φ35			

MEDICAL PRESSURE GAUGES

Dial:fluorescent Case:white ABS case(standard)
Window: snap-in acrylic Internals: brass(standard)
Socket: brass(standard)

Common dry type

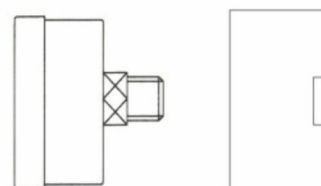
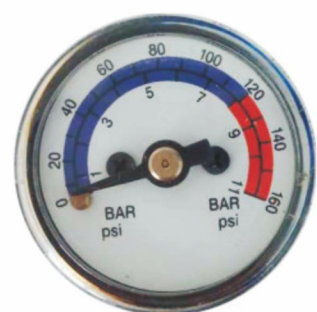
MODEL NO	DIAL	RANGE	CONNECTION
HP-1308	1-1/2"	0-15ATM 0-30ATM,or Psi,Bar,Kpa as required	M10*1,1/8"NPT,1/8"BSP Or as required

TIRE GAUGES

MODEL NO	DIAL	RANGE	SERVICE
HP-1401	2"	0-15Psi	auto or moto cycle or filling compressed
HP-1402	2"	0-30Psi	
HP-1403	2"	0-60Psi	
HP-1404	2-1/2"	0-100Psi	
HP-1405	2-1/2"	0-160Psi or as required	

Case: black ABS plastic
Window: snap in acrylic plastic
Internals: brass
Socket: brass(standard)

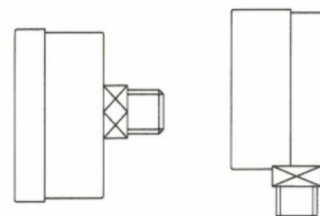
MODEL NO	DLAL	CONNECTION	RANGE	THREAD	ACCURACY
HM-0101	27mmx27mm	back	0-25bar or mpa Psi	φ6.4mm or as required	2.50%
HM-0102	φ25mm	back	0-25bar or mpa Psi	1/8 PT BSP NPT or as required	2.50%



STEEL CASE PRESSURE GAUGES

Case: black steel
Window: acrylic plastic
Internals: brass
Socket: brass(standard); brass with PTFE ring(optional)

MODEL NO	DLAL	CONNECTION	RANGE	THREAD	ACCURACY
HM-0201	φ30mm	back	0-300bar or mpa Psi	1/8 NPT BSP PT or as required	2.50%
HM-0202	φ30mm	bottom	0-300bar or mpa Psi	1/8 NPT BSP PT or as required	2.50%



SAFETY PRESSURE GAUGES(POLYPROPYLENE CASE)

Brief introduction:

The pressure gauges is applied to the food, drink, refrigeration, petrolchemical processing and so on, and the occasions where both environment and medium are strict. The case is solid with knock down back case and burst disk inside.

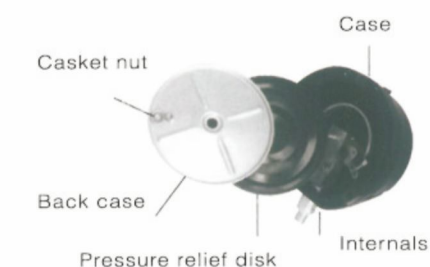
Special features:

- * Polypropylene case with measuring system
- * Dry or liquid filled
- * Standard followed in GENERAL EN 837-1

Standard version:

Case/ring: polypropylene Window: glass
Over pressure:150%
Connection:1/2" male thread and 1/4" limitation:-54-82°

MODEL NO	DIAL	RANGE	ACCURACY
HP-1601	4.5"	0~60, 0~100, 0~200, 0~300 0~600, 0~1000, 0~2000 0~3000, 0~6000 Psi -30"Hg~0~30 Psi, -30"Hg~0~100 Psi or as required	1.6%



Glycerine filled version(optional):

Accuracy of 316L corrugated pipe: 0.5%
Max pressure for 2A grade : 130% full range
Connection: 1/4" NPT male
Application: Applicable to clean and non-corrosive gas or liquid

MODEL NO	DIAL	RANGE	ACCURACY
HP-1602	4.5"	0~15, 0~30, 0~600~100, 0~160 Psi -30"Hg~0 or as required	1.6%



DIAPHRAGM PRESSURE GAUGES



Brief introduction:

Diaphragm pressure gauge is composed of a conventional pressure measuring instruments, a connector and a diaphragm seal. This combination enables a general purpose pressure gauge to measure media of strong corrosion, high temperature, high viscosity, containing suspended matter or crystallizing.

Applications:

Diaphragm gauges are university used in petrochemical, alkali, chemical fiber, pharmaceutical, metallurgical, and food industries

Corrosion-proof properties

Choose various pressure gauges combined with appropriate separator according to enviromental conditions. Choose materials of diaphragm and housing compatible with corrosive media.

Diaphragm material: 0Cr17Ni12Mo2(316); MONEL(Cu30Ni70); Hastelloy (H276c);

TANTALUM(Ta); Fluoroplastic(F4)

Flange material: 0Cr17Ni12Mo2; 316+F4

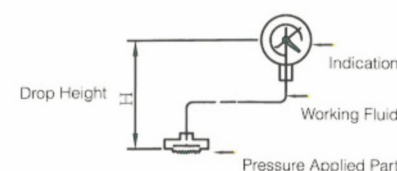
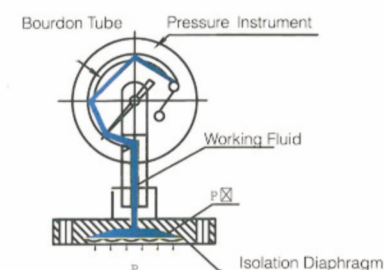
Seals material: Nitrile rubber; Viton; Silicone rubber; Fluoroplastic

Configuration principle:

This illustration shows the operating principle of the diaphragm pressure gauge. The diaphragm is deflected by the pressure of medium P, and an equivalent pressure P' is generated. With transmitting through working fluid, the pressure P' deflects the elastic element of a pressure measuring instrument which thereafter shows the pressure value

Level Difference of diaphragm pressure gauge seals liquid

When a diaphragm pressure gauge is mounted with pressure gauge and diaphragm seal at different position, the effect of level difference should be taken into consideration (especially for a diaphragm gauge with capillary). As the illustration shows, with a S.G. of the working fluid at approx. 1, and a level difference of 1m, the pressure difference is approx. 0.01 MPa/cm².



Level Difference = d.H
d-S.G. of Working Fluid
H-Drop Height

ELECTRIC CONTACT PRESSURE GAUGES

Brief introduction:

Electric contact pressure gauge is widely used for petrochemical, chemical, metallurgical electric power fields and so forth, or applied to measurement pressure of fluid medium in the machine. Usually, electric contact pressure gauges matches with relevant electrical apparatus, for instance, relay and contactor.

The instrument is consisted of measurement system, indicating system, electric contact parts system, case, adjustment system, junction box(socket) and otherwise. The principle is that under the condition of medium pressure, Bourdon tube will show the measured value in the dial by gear wheel equipment. In the meanwhile, the pointer of instrument will make dynamic contact touch or cut with static one (upper limits or lower limits), leading to the cut and turn-on of control system for the purpose of automatic control and alarm

Functional features:

TYPE	MODEL NO	NAME	RANGE(MPA)
Normal	HP-1701	Snap-action Electric contact pressure gauge	0-0.6 to 60 -0.1-0.06 to 2.1
	HP-1702		
	HP-1703		0-0.1 to 60 -0.1-0.06 to 2.4
	HP-1704		
	HP-1705		
Special	HP-1706	Snap-action Ammonia Electric contact pressure gauge	0-0.16 to 60 -0.1-0.5 to 2.4
Vibration-proof	HP-1707	Snap-action Electric contact pressure gauge	0-0.16 to 60 -0.1-0.5 to 2.4
	HP-1708		
	HP-1709		
Corrosion-proof	HP-1710		0-0.16 to 60 -0.1-0.5 to 2.4
	HP-1711		
	HP-1712		
	HP-1713		
	HP-1714		
Vibration-proof and Corrosion-proof	HP-1715		0-0.16 to 60 -0.1-0.5 to 2.4
	HP-1716		
	HP-1717		
	HP-1718		
Isolation normal	HP-1719		0-0.16 to 60 -0.1-0.5 to 2.4
Isolation corrosion-proof	HP-1720		
Isolation vibration-proof	HP-1721		0-0.16 to 60 -0.1-0.5 to 2.4
Isolation vibration-proof and Corrosion-proof	HP-1722		



DIFFERENTIAL PRESSURE GAUGES

Brief introduction:

The micro differential pressure gauge used to measure fan and blower pressure, filter resistance, wind speed, furnace pressure, orifice plate differential pressure, bubbles water level and liquid amplifier or hydraulic system pressure. It using frictionless magnetic components, can rapidly measure the micro-pressure air or non-corrosive gases, including positive, negative (vacuum) or differential. No wear, hysteresis and clearance. Not filling, vaporization and freezing. This design has anti-vibration, anti-shake and high overpressure capability, you can guarantee access to high precision. The design impact, shock and overload protection.

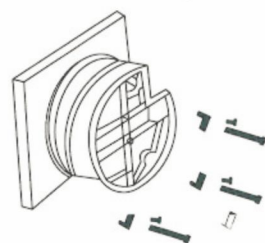
- 1) Medium: air and non-combustible, compatible gases (optional gas)
- 2) Housing: cast aluminum housing or ABS shell, glass beveled panels. Dark gray coating, can withstand 168 hours salt spray test
- 3) Accuracy: 2% FS (mm units, and the range with the corresponding pa)
- 4) Pressure range: -20Hg To 15 psig (-0.677 bar to 1.034 bar)
- 5) Temperature range: 20 to 140 ° F (-6.67 to 60 ° C)
- 6) Hole size: 114mm
- 7) Mounting Orientation: Diaphragm in vertical
- 8) Connections: same 1/8 "NPT high and low pressure fittings, one pair on the side, one pair in the back
- 9) Weight: 500g / only "

Pressure range

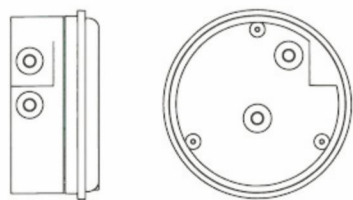
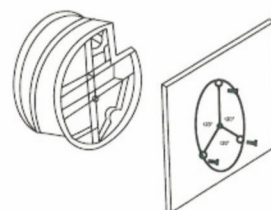
0 - 30Pa	0 - 400Pa	0 - 2.5KPa	0 - 30KPa
0 - 60Pa	0 - 500Pa	0 - 3.0KPa	-15-0~15Pa
0 - 100Pa	0 - 600Pa	0 - 5.0KPa	-30-0~30Pa
0 - 125Pa	0 - 750Pa	0 - 8.0KPa	-60-0~60Pa
0 - 200Pa	0 - 800Pa	0 - 10KPa	-125-0~125Pa
0 - 250Pa	0 - 1KPa	0 - 15KPa	-250-0~250Pa
0 - 300Pa	0 - 2KPa	0 - 25KPa	-500-0~500Pa
customizable	-1-0~1KPa	-3-0~3KPa	-5-0~5KPa

Installation:

Built-in mounting



Surface mounting



STANDARD TYPE FRE-ON PRESSURE GAUGES

Specifications

Suitable for refrigerate media.

Displaying the relations of pressure and vaporize temperature.

The special designed welding joint offers very good quality to avoid the leakage which may cause system damage.

The gauges are available with internal and adjusty pointer or screw for resetting the pointer.

A retard portion in the gauges are also available to protect the gauges under over load accident.

Standard type

Case: color steel

Window: PC window, detachable

MODEL NO	DIAL	PRESSURE RANGE	REFRIGERATE MEDIA	THREAD	CONNECTION
HP-1901	70mm	-30inHg -120psi-250psi, -30inHg -200psi-250psi, -30inHg -120psi-350psi,	R12,R22,R502, R134a,R404A, R507C,R410A, R407C	1/4"SAE 1/8"NPT 1/4"BSPT	bottom
HP-1902	80mm	0-800psi, 0-500psi			bottom

Economic type

Case and flange: black steel

Window: snap-in acrylic plastic

MODEL NO	DIAL	PRESSURE RANGE	REFRIGERATE MEDIA	THREAD	CONNECTION
HP-1903	63mm	-30inHg -120psi-250psi, -30inHg -200psi-250psi, -30inHg -120psi-350psi,	R12,R22,R502, R134a,R404A, R507C,R410A, R407C	1/4"SAE 1/8"NPT 1/4"BSPT	back
HP-1904	63mm	0-800psi, 0-500psi			bottom

Oil-filled type

Case: SS304

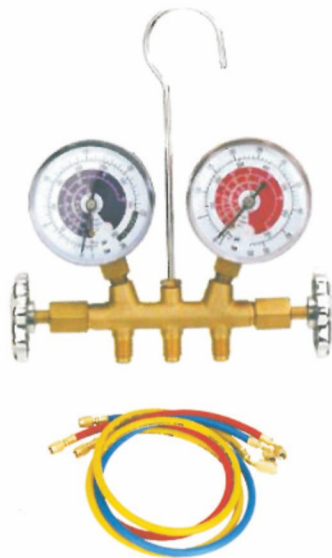
Internal: brass

Filling: glycerin or 1000# silicone oil

MODEL NO	DIAL	PRESSURE RANGE	REFRIGERATE MEDIA	THREAD	CONNECTION
HP-1905	63mm	-30inHg -120psi-250psi,	R12,R22,R502,	1/4"SAE	back
HP-1906	63mm	-30inHg -200psi-250psi,	R134a,R404A,	1/8"NPT	bottom
HP-1907	80mm	-30inHg -120psi-350psi,	R507C,R410A,	1/4"BSPT	back
HP-1908	80mm	0-800psi, 0-500psi	R407C		bottom

Note: 63mm with front flange or back flange are available.
80mm with front flange are available.





SERVICE MANIFOLD SETS

MODEL:NO.P-2001 SERIES

MANIFOLDS WITH 2-1/2" gauges
Forged brass body with metal valve handles
Forged body is solid brass for durability.Full porting maximizes capacity.
Metal valve handles are full size for easy operation.
Hose anchors are forged into back of body at 45
Pretested. Every manifold is individually tested for reliability before shipping.
Limited Lifetime Warranty.
on manifold bar and valves-not gauges. See manifold instructions for details.
Technology. Surge protector and silicone dampened movement helps minimize needle pulsation for easier,more accurate readings.
Sliding double "O"-ring pistons.
Non-rotating design deduces wear.
Only 1-1/2 turn give you full flow.
Long-life nylon seat is also for vacuum and R134A,R404A,R507,R407C,R410A,etc.
Hoses.Most manifolds include color-codes charging hoses.
Easy-to-read 2-1/2" steel case gauges(f) with 3-2-3% accuracy.

Refrigerants	Description	No Hose	1	2	3	4	5
HR-12 HR-22 HR-502	Basic unit manifold,gauges,hook and anchors	3094	-	-	-	-	-
	36"RYB hoses	-	3095	3100	3105	3110	3115
	48"RYB hoses	-	3096	3101	3106	3111	-
	60"RYB hoses	-	3097	3102	3107	3112	3116
	72"RYB hoses	-	3098	3103	3108	3113	3117
HR-134a HR-404A HR-507	36"RYB hoses and case	-	3099	3104	3109	3114	-
	Basic unit manifold,gauges,hook and anchors	3118	-	-	-	-	-
	36"RYB hoses	-	3119	3124	3129	3134	3139
	48"RYB hoses	-	3120	3125	3130	3135	-
	60"RYB hoses	-	3121	3126	3131	3136	3140
HR-410A	72"RYB hoses	-	3122	3127	3132	3137	-
	36"RYB hoses and case	-	3123	3128	3133	3138	-
	Basic unit manifold,gauges,hook and anchors	3141	-	-	-	-	-
	60"RYB hoses	-	-	3142	-	3145	3146
	60"RYB hoses special*	-	-	3143	-	-	-
	HCA 60" hose	-	-	3144	-	-	-

- 1.Manifold with 68MM gauge boots
- 2.Manifold with standard fittings
- 3.Manifold with 68MM oil gauge
- 4.Manifold with 80MM Dry gauge
- 5.Manifold with compact ball valve hoses

NOTE: Manifolds with some other hose combinations available. Y hose is 1/4" x 45 1/4"end.
*Special R410A hose - R&B hose is 1/4: x 45 1/16" end: R-410A manifolds with 5/16" hose holder fittings.



MODEL:NO.P-2002 SERIES

2-VALVE TEST & CHARGING MANIFOLD - F/C
Forged aluminum alloy body and large easy-to-read gauges
The new Test and Charging Manifold is the first forged aluminum manifold in the industry.
The special aluminum alloy construction of the manifold body makes this unit lightweight for handling ease with the durability and reliability required for repeated, rugged use.
Features/ Benefits
Large,easy-to-read 3-1/8"(80mm) steel case red and blue.1% accuracy(class 1) gauges;front access for easy field recalibration;optional protective gauge boots available
Proven,double "O"-ring piston for reliability and long service life
Exclusive 100 mesh filter in -line on all flare fittings helps keep out particulate material and extend the life of the seats.
Contoured easy-grip handles for positive control;color coded for ready identification
Sight glass to easily view refrigerant movement and condition during charging and recovery
Heavy duty hook won't pull out

Refrigerants	New item#	Gauge	Hoses
HR-410A	3066	Red/Bule	No hose
	3067	Red/Bule	60" RYB
	3068	Red/Bule	60" Compact Ball Valve-RYB
HR-22 HR-404A HR-410A	3069	Red/Bule	No hose
	3070	Red/Bule	No hose
	3071	Red/Bule	60" RYB
HR-12 HR-22 HR-502	3072	Red/Bule	60" Compact Ball Valve-RYB
	3073	Red/Bule	No hose
	3074	Red/Bule	No hose
HR-134a HR-404A HR-407C	3075	Red/Bule	60"RYB
	3076	Red/Bule	60" Compact Ball Valve-RYB
	3077	Red/Bule	No hose
HR-22 HR-134a HR-404A	3078	Red/Bule	60" -RYB
	3079	Red/Bule	60" Compact Ball Valve-RYB
	3080	Red/Bule	No hose
HR-134a	3081	Red/Bule	60" -RYB
	3082	Red/Bule	60" Compact Ball Valve-RYB
	3083	Red/Bule	60" Compact Ball Valve-RYB



MODEL:NO.P-2003 SERIES

ALUMINUM MANIFOLDS-Class 1(1% accuracy) gauges

- 1.Unique swivel stem design reduces wear
- 2.Excellent vacuum characteristics
- 3.100% virgin Teflon diaphragms
- 4.Full porting for maximum refrigerant flow

Two Valve Manifolds

- Anodized aluminum block body
- One full turn open/close valve
- Oversized sight glass for easy viewing
- Excellent vacuum characteristics
- No-flutter gauge design,class 1.0,suitable for HCFC,CFC,HFC, 68MM/2-1/2" or 80mm/3-1/2"auge;psi &bar unit;F/C
- High quality stainless steel liquid filled gauge
- Easy-to-grip knobs

2-valve manifold gauges					
Refrigerante	Description	No hose	500-2500psi	600-3000psi	800-4000psi
HR-12	No hose	3052	-	-	-
HR-22	with 36" hose	-	3054	3057	3060
HR-502	with 60" hose	-	3055	3058	3061
HR-22	with 72" hose	3053	3056	3059	3062
HR-134a	with 36" hose	-	-	-	-
HR-404A	with 60" hose	-	-	-	-

Gauge Scales:

Refrigerants:All refrigerants available,max 4 different refrigerants in each gauge

Temperature: F or C

Pressure:Psi,Bar,Kg/cm2,mmHg,max 2,units in each gauge

Gauge Size/Type:68mm/Dry or Oil-filled

MODEL:NO.P-2004 SERIES

2-VALVE DIAPHRAGM MANIFOLDS WITH SIGHTGLASS & 1/4:SAE FITTINGDS

Two Valve Manifolds

- Anodized aluminum block body
- One full turn open/close valve
- Oversized sight glass for easy viewing
- Excellent vacuum characteristics
- No-flutter gauge design,class 1.0,suitable for HCFC,CFC,HFC,68MM/2-1/2" or 80mm/3-1/2"auge;psi &bar unit;F/C
- High quality stainless steel liquid filled gauge
- Easy-to-grip knobs



ITEM DESCRIPTION

KD-4432 2-valve aluminum manifold with 68mm gauge. No hoses.

KD-4433 2-valve aluminum manifold with 80mm gauge. No hoses.

- 1.Unique swivel stem design reduces wear
- 2.Excellent vacuum characteristics
- 3.100% virgin Teflon diaphragms
- 4.Full porting for maximum refrigerant flow

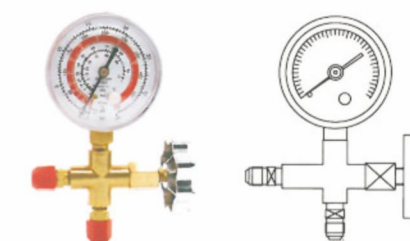
Gauge Scales:

Refrigerants:All refrigerants available,max 4 different refrigerants in each gauge

Temperature: F or C

Pressure:Psi,Bar,Kg/cm2,mmHg,max 2,units in each gauge

Gauge Size/Type:68mm or 80mm/Dry or Oil-filled



MODEL NO.P-2005

Single manifold set

MODEL NO.P-2006

R134a SNAP COUPLERS

Straight type external thread 1/4"SAE Male

1/4" SAE Male



MODEL NO.P-2007

R134a MANUAL COUPLERS

Straight type internal thread

14 x 1.5mm Female



1/4"SAE ACCESS VALVE WITH 2"COPPER EXTENSION TUBE

MODEL NO	SIZE
HP-2101	1/8"O.D.x1/16"I.D.
HP-2102	3/16"O.D.x1/8"I.D.
HP-2103	1/4"O.D.x3/16"I.D.
HP-2104	5/16"O.D.x1/4"I.D.
HP-2105	3/8"O.D.x5/16"I.D.
HP-2106	6mmO.D.x5mmI.D.



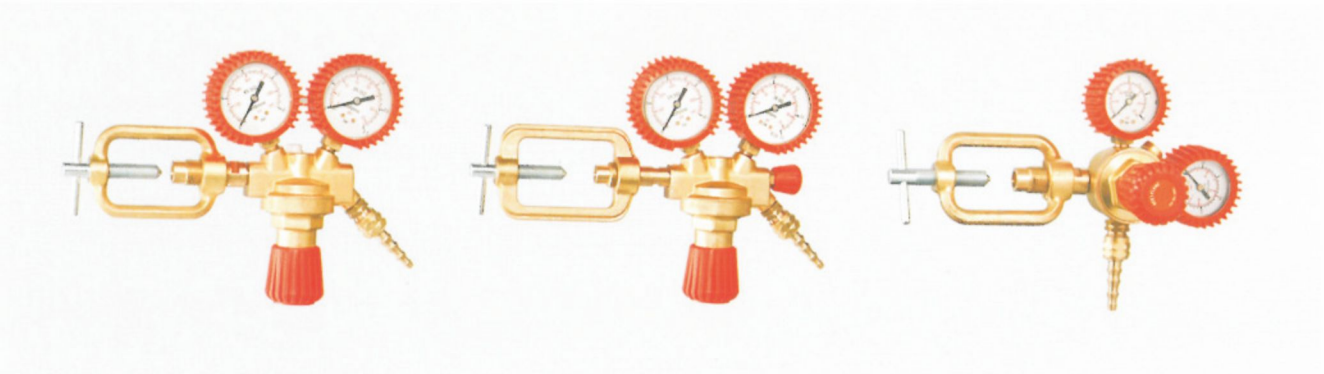


HV-0001A

HV-0001B

HV-0001C

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max. Inlet pressure	最大出气压力 (bar) Max. Outlet pressure	流量 Rate of flow
HV-0001	氧气 Oxygen	220bar	10bar	30m³/h



HV-0002A

HV-0002B

HV-0002C

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max. Inlet pressure	最大出气压力 (bar) Max. Outlet pressure	流量 Rate of flow
HV-0002	乙炔 Acetylene	25bar	1.5bar	5m³/h



HV-0003A

HV-0003B

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max. Inlet pressure	最大出气压力 (bar) Max. Outlet pressure	流量 Rate of flow
HV-0003	氮气 Nitrogen	220	10	30m³/h



HV-0004A

HV-0004B

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max. Inlet pressure	最大出气压力 (bar) Max. Outlet pressure	流量 Rate of flow
HV-0004	丙烷 Propane	25	4	5m³/h



HV-0005A

HV-0005B

HV-0005C

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max. Inlet pressure	最大出气压力 (bar) Max. Outlet pressure	流量 Rate of flow
HV-0005	氩气 / 二氧化碳 Argon/CO₂	220	4	30L/min



HV-0006A

HV-0006B

HV-0006C

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max.Inlet pressure	最大出气压力 (bar) Max.Outlet pressure	流量 Rate of flow
HV-0006A	乙炔 Acetylene	20bar	1.5bar	5m³/h
HV-0006B	氧气 Oxygen	200bar	10bar	30m³/h
HV-0006C	氩气/二氧化碳 Argon/CO₂	200bar	8bar	30m³/h



HV-0007A

HV-0007B

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max.Inlet pressure	最大出气压力 (bar) Max.Outlet pressure	流量 Rate of flow
HV-0007A	氩气 / 二氧化碳 Argon/CO₂	230bar	4bar	30L/min
HV-0007B	氩气 / 二氧化碳 Argon/CO₂	230bar	7.5bar	21.5L/min



HV-0008

HV-0009

HV-0010



HV-0011

HV-0012

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max.Inlet pressure	最大出气压力 (bar) Max.Outlet pressure	流量 Rate of flow
HV-0008	氧气 Oxygen	220	10	30m³/h
HV-0009	乙炔 Acetylene	25	1.5	5m³/h
HV-0010	二氧化碳CO₂	90	4	32L/min
HV-0011	氩气Argon	220	6	40L/min
HV-0012	氮气Nitrogen	220	10	30m³/h



HV-0013

HV-0014

HV-0015

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max.Inlet pressure	最大出气压力 (bar) Max.Outlet pressure	流量 Rate of flow
HV-0013	氧气 Oxygen	150	12.5	40m³/h
HV-0014	氧气 Oxygen	200	12.5	30m³/h
HV-0015	氩气/二氧化碳 Argon/CO₂	200	10	30L/min



HV-0016

HV-0017

HV-0018

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max. Inlet pressure	最大出气压力 (bar) Max. Outlet pressure	流量 Rate of flow
HV-0016	氧气 Oxygen	150	12.5	40m³/h
HV-0017	二氧化碳CO2	150	8	25m³/h
HV-0018	丙烷 LPG	25	4	6m³/h



HV-0019

HV-0020

HV-0021

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max. Inlet pressure	最大出气压力 (bar) Max. Outlet pressure	流量 Rate of flow
HV-0019	乙炔 Acetylene	30	1.5	5m³/h
HV-0020	二氧化碳CO2	150	10	30m³/h
HV-0021	丙烷 Propane	25	3	6m³/h



HV-0022A

HV-0022B

HV-0022C

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max. Inlet pressure	最大出气压力 (bar) Max. Outlet pressure	流量 Rate of flow
HV-0022A	二氧化碳/氩气 CO ₂ /Argon	220	4	12L/min
HV-0022B	二氧化碳/氩气 CO ₂ /Argon	220	4	12L/min
HV-0022C	二氧化碳/氩气 CO ₂ /Argon	220	4	12L/min



HV-0023

HV-0024

HV-0025

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max. Inlet pressure	最大出气压力 (bar) Max. Outlet pressure	流量 Rate of flow
HV-0023	二氧化碳CO ₂	130	4	6L/min
HV-0024	二氧化碳CO ₂	130	4	6L/min
HV-0025	二氧化碳CO ₂	130	4	6L/min



HV-0026

HV-0027

HV-0028

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max. Inlet pressure	最大出气压力 (bar) Max. Outlet pressure	流量 Rate of flow
HV-0026	二氧化碳/氩气 CO ₂ /Argon	150	4	15LPM
HV-0027	二氧化碳/氩气 CO ₂ /Argon	250	3.5	60SCFH
HV-0028	二氧化碳/氩气 CO ₂ /Argon	150	4	25LPM



HV-0029

HV-0030

HV-0031

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max. Inlet pressure	最大出气压力 (bar) Max. Outlet pressure	流量 Rate of flow
HV-0029	乙炔 Acetylene	20	1.0	5m³/h
HV-0030	氧气 Oxygen	200	10	30m³/h
HV-0031	氧气 Oxygen	200	10	30m³/h



HV-0032

HV-0033

HV-0034

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max. Inlet pressure	最大出气压力 (bar) Max. Outlet pressure	流量 Rate of flow
HV-0032	氧气 Oxygen	200	10	30m³/h
HV-0033	乙炔 Acetylene	20	1.0	5m³/h
HV-0034	氧气 Oxygen	200	10	30m³/h



HV-0035

HV-0036

HV-0037

型号 Model NO.	适用气体 Applicable gas	最大进气压力 (bar) Max. Inlet pressure	最大出气压力 (bar) Max. Outlet pressure	流量 Rate of flow
HV-0035	氧气 Oxygen	200	10	30m³/h
HV-0036	氧气 Oxygen	200	10	30m³/h
HV-0037	氧气 Oxygen	200	10	30m³/h

LXSG-15 ~ 50 MULTI-JET ,DRY DIAL WATER METER

Measurement Requirements

Temperature class;for cold water:T30,for hot water:T30/90;

Water pressure class:MAP10,MAP16 on request

Pressure-loss class:Δp63

Sensitivity to the irregularity in the upstream velocity fields class;U0

Sensitivity to the irregularity in the downstream velocity fields class;D0

Maximum Permissible Error

a)In the lower zone ($Q_1 \leq Q < Q_2$)±5%

b)In the upper zone ($Q_2 \leq Q \leq Q_4$) for water temperature
up to 30°C±2% from 30°C up to 90°C±3%

Dimension

SIZE DN	L1	L	B mm	H	Threaded connection	
					D	d
15	165	259	99	109	G3/4B	R1/2
20	190	294	99	109	G1B	R3/4
25	260	380	104	119	G1 1/4B	R1
32	260	384	104	119	G1 1/2B	R1 1/4
40	300	428	125	156	G2B	R1 1/2
50	300	446	125	156	G2 1/2B	R2
50(steel case)	280	360	165(flange outer size)	181	flange connection:8-M16	

Specifications

SIZE DN	Q3/Q1	Q4	Q3	Q2	Q1	Min.reading	Max.reading
						m³	
15	80	3.1	2.5	0.05	0.031	0.00005	99.999
20	80	5	4	0.08	0.05	0.00005	99.999
25	80	7.9	6.3	0.126	0.079	0.00005	99.999
32	80	12.5	10	0.2	0.125	0.00005	99.999
40	80	20	16	0.32	0.2	0.00005	99.999
50	80	31	25	0.5	0.313	0.00005	99.999

Applications: to record the total volume of water passed through the pipelines.

Characteristics:

A.Magnetic coupling transmission register for its long life of clear rading.

B.Anti-magnetic field construction, excellent accuracy, and long life of service.

Note:1. The water meter comply with the standard of << GB/T 778.1-3-2007 >>
(ISO 4064-1-3:2005,IDT) .

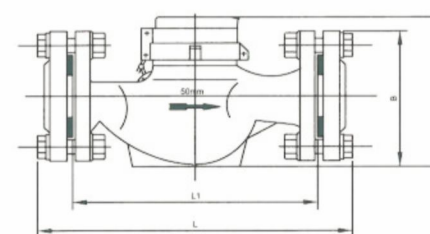
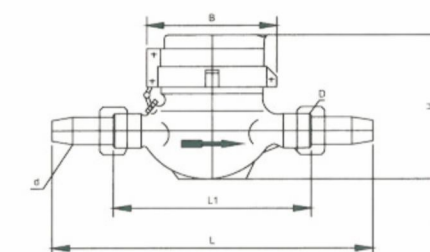
2.The following types of this series meter are available on request:

For hot water up to 90°C: LXSGR-15~50

For M type measuring insert (8 digital reading) :

LXSG-15M~20M, for hot water:LXSGR-15M~20M.

3. Different materials of the meter body are available on request,
such as : brass and plastic.



LXSG-15S ~ 50S MULTI-JET ,SUPER-DRY DIAL WATER METER



Measurement Requirements Temperature class;T30
Water pressure class:MAP10 Pressure-loss class:Δp63
Sensitivity to the irregularity in the upstream velocity fields class;U0
Sensitivity to the irregularity in the downstream velocity fields class;D0
Maximum Permissible Error
a)In the lower zone ($Q_1 \leq Q < Q_2$) ±5%
b)In the upper zone ($Q_2 \leq Q \leq Q_4$) ±2%

Dimension

For horizontal installation:LXSG-15S-40S

SIZE	L1	L	B	H	Threaded connection	
DN	mm				D	d
15	165	258	89	102	G3/4B	R1/2
20	195	298	89	102	G1B	R3/4
25	225	345	98	124	G1 1/4B	R1
32	230	354	104	124	G1 1/2B	R1 1/4
40	200	328	112	130	G2B	R1 1/2
50	245	389	124	152	G2 1/2B	R2

For vertical installation:LXSG-15S-40S

SIZE	H1	H2	H3	B	Threaded connection	
DN	mm				D	d
15	194	100	99.5	133	G3/4B	R1/2
20	204	100	99.5	137	G1B	R3/4
25	228	108	122.6	166	G1 1/4B	R1
32	274	150	133.6	220	G1 1/2B	R1 1/4
40	278	150	133.6	228	G2B	R1 1/2

Specifications

SIZE	Q3/Q1	Q4	Q3	Q2	Q1	Min.reading	Max.reading
DN	m³/h					m³	
15	80	3.1	2.5	0.05	0.031	0.00005	99.999
20	80	5	4	0.08	0.05	0.00005	99.999
25	80	7.9	6.3	0.126	0.079	0.00005	99.999
32	80	12.5	10	0.2	0.125	0.00005	99.999
40	80	20	16	0.32	0.2	0.00005	99.999
50	80	31	25	0.5	0.313	0.00005	99.999

Applications: to record the total volume of water passed through the pipelines.

Characteristics:

A.Magnetic coupling transmission register for its long life of clear rading.

B.Anti-magnetic field construction, excellent accuracy, and long life of service.

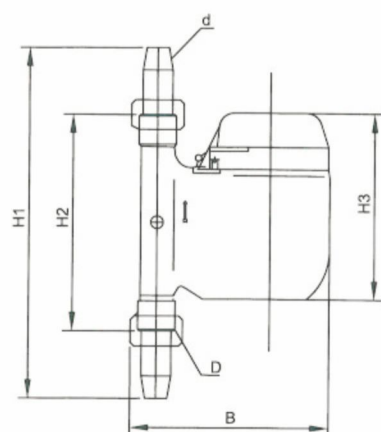
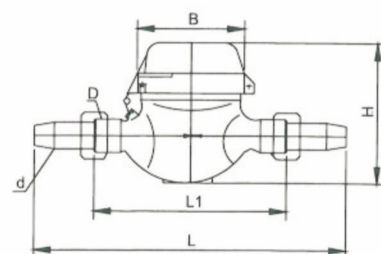
Note:1. The water meter comply with the standard of << GB/T 778.1-3-2007 >> (ISO 4064-1-3:2005,IDT) .

2.The following types of this series meter are available on request:

For hot water up to 90°C: LXSGR-15S~50S

For vertical installation : LXSG-15S~40S, for hot water:LXSG-15S~40S.

With plane glass register: LXSG-15SG-50SG.



LXDG-15 ~ 25 SINGLE-JET WATER METER

Metrological Requirements

Temperature class: for cold water T30,for hot water T30/90

Water pressure class:MAP10 or MAP 16 on request.

Pressure-loss class:Δp63

Sensitivity to the irregularity in the upstream velocity fields class;U10

Sensitivity to the irregularity in the downstream velocity fields class;D5

Maximum Permissible Error

a)In the lower zone ($Q_1 \leq Q < Q_2$) ±5%

b)In the upper zone ($Q_2 \leq Q \leq Q_4$) ; for water temperature

up to 30°C±2% from 30°C up to 90°C ±3%

Dimension

SIZE	L1	L	B	H	Threaded connection	
DN	mm				D	d
15	110	203	82	88	G3/4B	R1/2
20	130	233	82	89.5	G1B	R3/4
25	130	250	82	93.5	G1 1/4B	R1

Specifications

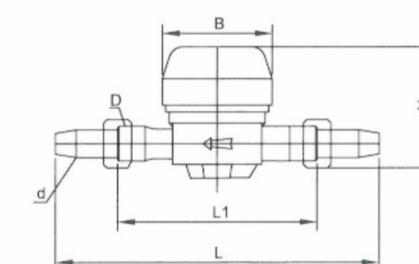
SIZE	Q3/Q1	Q4	Q3	Q2	Q1	Min.reading	Max.reading
DN	m³/h					m³	
15	80	3.1	2.5	0.05	0.031	0.00005	99.999
20	80	5	4	0.08	0.05	0.00005	99.999
25	80	7.9	6.3	0.126	0.079	0.00005	99.999

Applications: to record the total volume of water passed through the pipelines.

Characteristics: compact design,light weight,magnet transmission register which could be rotation in 360 for convenient reading.

Note:1. The water meter complies with the standard of<<GB/T 778.1-3-2007>> (ISO 4064-1-3:2005,IDT) .

2. For hot water up to 90C is available on request.





LXDG-15M ~ 20M SINGLE-JET WATER METER(MINI)

Metrological Requirements

Temperature class: for cold water T30, for hot water T30/90

Water pressure class: MAP10 or MAP 16 on request.

Pressure-loss class: Δp_{63}

Sensitivity to the irregularity in the upstream velocity fields class: U10

Sensitivity to the irregularity in the downstream velocity fields class: D5

Maximum Permissible Error

a) In the lower zone ($Q_1 \leq Q < Q_2$) $\pm 5\%$

b) In the upper zone ($Q_2 \leq Q \leq Q_4$) ; for water temperature

up to $30^\circ\text{C} \pm 2\%$ from 30°C up to $90^\circ\text{C} \pm 3\%$

Dimension

SIZE	L1	L	B	H	Threaded connection	
DN	mm				D	d
15	110	203	67.5	72	G3/4B	R1/2
20	130	233	67.5	73.5	G1B	R3/4

Specifications

SIZE	Q3/Q1	Q4	Q3	Q2	Q1	Min.reading	Max.reading
DN	m³/h					m³	
15	80	3.1	2.5	0.05	0.031	0.00005	99.999
20	80	5	4	0.08	0.05	0.00005	99.999

Applications: to record the total volume of water passed through the pipelines.

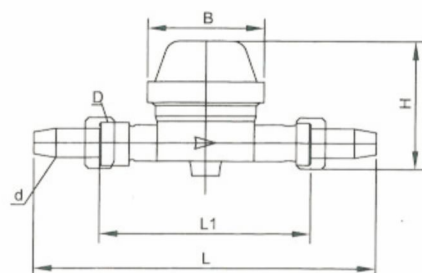
Characteristics: compact design, light weight, magnet transmission register which could be rotation in 360 for convenient reading.

Note: 1. The water meter complies with the standard of <<GB/T 778.1-3-2007>> (ISO 4064-1-3:2005, IDT) .

2. For hot water up to 90°C is available on request.

3. The water meter has two types of register: 8 digital reading with 1 pointer (M) and 5 digital reading with 4 pointers (N)

NOTE: If with male thread connection, the total length will be longer.



LXLC-50 ~ 300 WOLTMAN WATER METER WITH REMOVABLE MEASURING UNIT

Measurement Requirements

Temperature class: for cold water T30, for hot water T30/90

Water pressure class: MAP10 or MAP 16 on request.

Pressure-loss class: Δp_{25}

Sensitivity to the irregularity in the upstream velocity fields class: U10

Sensitivity to the irregularity in the downstream velocity fields class: D5

Maximum Permissible Error

a) In the lower zone ($Q_1 \leq Q < Q_2$) $\pm 5\%$

b) In the upper zone ($Q_2 \leq Q \leq Q_4$) ; for water temperature

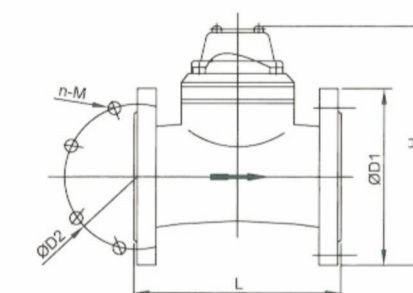
up to $30^\circ\text{C} \pm 2\%$ from 30°C up to $90^\circ\text{C} \pm 3\%$

Dimension

SIZE	L	H	FLANGE, GB/T17241.6-1998		
DN	mm	D1	D2	n-M	
50	200	215	165	125	4-M16
65	200	215	185	145	4-M16
80	225	279	200	160	8-M16
100	250	289	220	180	8-M16
125	250	299	250	210	8-M16
150	300	319	285	240	8-M20
150 (D)		360	285		
200	350	346	340	295	8-M20
200 (D)		355			12-M20(MAP16)
250 (D)	450	433	395	350	12-M20
		450	405	355	12-M24(MAP16)
300 (D)	500	480	445	400	12-M20
		478	460	410	12-M24(MAP16)

Flow technique Specifications

SIZE	Q4	Q3	Q3/Q1	Q2	Q1	Min.reading		Max.reading	
						P	M	P	M
DN	m3/h		m3						
50	31.3	25	50	0.8	0.5	0.0005	0.0002	999.999	999.999
	50	40	80	0.5	0.32				
65	50	40	50	1.28	0.8	0.0005	0.0002	999.999	999.999
			80	0.8	0.5				
80	78.8	63	50	2	1.26	0.002	0.0002	999.999	999.999
			80	1.3	0.79				
100	125	100	50	3.2	2	0.002	0.0002	999.999	999.999
			80	2	1.25				
125	200	160	50	5.12	3.2	0.002	0.0002	999.999	999.999
			80	3.2	2				
150	312.5	250	50	8	5	0.002	0.0002	999.999	999.999
			80	5	3.1				
200	500	400	50	12.8	8	0.002	0.0002	999.999	999.999
			80	8	5				
250	787.5	630	25	40.32	25.2	0.02	0.02	9999.999	9999.999
			50	20.16	12.6				
300	1250	1000	25	64	40	0.02	0.02	9999.999	9999.999
			50	32	20				





LXXG-50 ~ 300 THE WATERWHEEL TYPE WATER METER

Measurement Requirements

Temperature class: for cold water T30, for hot water T30/90

Water pressure class: MAP10 or MAP 16 on request.

Pressure-loss class: Δp_{25}

Sensitivity to the irregularity in the upstream velocity fields class: U10

Sensitivity to the irregularity in the downstream velocity fields class: D5

Maximum Permissible Error

a) In the lower zone ($Q_1 \leq Q < Q_2$) $\pm 5\%$

b) In the upper zone ($Q_2 \leq Q \leq Q_4$) ; for water temperature

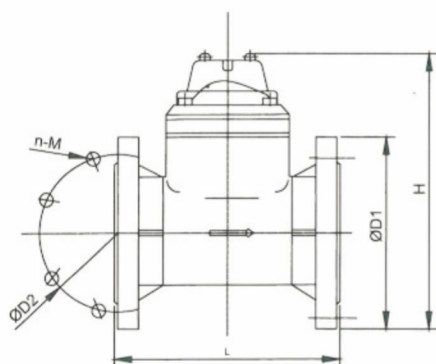
up to $30^\circ\text{C} \pm 2\%$ from 30°C up to $90^\circ\text{C} \pm 3\%$

Dimension

SIZE	L	H	FLANGE, GB/T17241.6-1998		
DN	mm		D1	D2	n-M
50	200	256	165	125	4-M16
65	200	270	185	145	4-M16
80	225	284	200	160	8-M16
100	250	295	220	180	8-M16
125	250	317	250	210	8-M16
150	300	339	285	240	8-M20
200	350	384	340	295	8-M20/12-M20(MAP16)
250	400	430	395	350	12-M20
	450	435	405	355	12-M24(MAP16)
300	450	480	445	400	12-M20
	500	488	460	410	12-M24(MAP16)

Flow technique Specifications

SIZE	Q4	Q3	Q3/Q1	Q2/Q1	Q2	Q1	Min. reading		Max. reading	
DN	m ³ /h				m ³ /h		P	M	P	M
50	31.25	25	25	1.6	1.6	1	0.0005	0.0002	999.999	999.999
65	50	40	25	1.6	2.6	1.6	0.002	0.002	999.999	999.999
				4	6.4					
80	78.8	63	25	1.6	4	1.6	0.002	0.002	999.999	999.999
				4	10					
100	125	100	25	1.6	6.4	1.6	0.002	0.002	999.999	999.999
				4	16					
125	200	160	25	1.6	10.2	1.6	0.002	0.002	999.999	999.999
				4	25.6					
150	312.5	250	25	1.6	16	1.6	0.002	0.002	999.999	999.999
				4	40					
200	500	400	25	1.6	25.6	1.6	0.002	0.002	999.999	999.999
				4	64					
250	787.5	630	25	1.6	40.3	1.6	0.002	0.02	9999.999	9999.999
				4	100.8					
300	1250	1000	25	1.6	64	1.6	0.002	0.02	9999.999	9999.999
				4	160					



Applications: to record the total volume of water passed through the water pipelines.

Characteristics:

A. Magnetic coupling register insulated from water for its long life of service and clear reading.

B. Standard removable measuring unit for its lower cost and easy maintenance.

C. Negligent pressure-loss, big flow capacity and water hammer resistance etc.

D. For its above mentioned advantages, the water meter is very suitable to use for raw water, such as the irrigation water etc.

Note:

1. The water meter complies with the standard of <<GB/T 778.1-3-2007>> (ISO 4064-1-3:2005, IDT) .

2. For hot water up to 90°C is available on request.

3. Two types of the registers for option: the plastic cover register. Type: P and glass cover register. Type: M

LXRG-40 ~ 200 THE VERTICAL HELIX TYPE WATER METER

Measurement Requirements

Temperature class: for cold water T30, for hot water T30/90

Water pressure class: MAP10 or MAP16 on request.

Pressure-loss class: Δp_{63}

Sensitivity to the irregularity in the upstream velocity fields class: U5

Sensitivity to the irregularity in the downstream velocity fields class: D5

Maximum Permissible Error

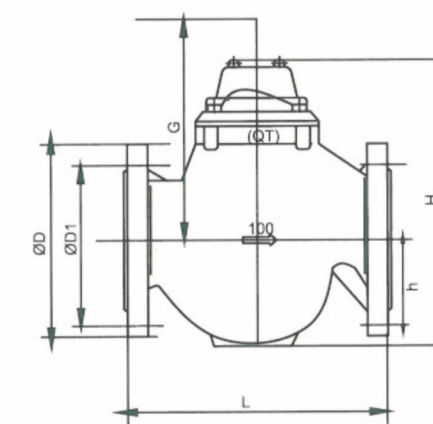
a) In the lower zone ($Q_1 \leq Q < Q_2$) $\pm 5\%$

b) In the upper zone ($Q_2 \leq Q \leq Q_4$) ; for water temperature up

to $30^\circ\text{C} \pm 2\%$ from 30°C up to $90^\circ\text{C} \pm 3\%$

Dimension

SIZE	L	H	h	G	FLANGE, GB/T17241.6-1998		
DN	mm				D1	D2	n-M
40	280	228	85	268	150	110	4-M16
50	245	218	75	260	THREAD CONNECTION G2B		
					165	125	4-M16
80S	225	228	85	268	200	160	8-M16
80	370	282	103	344	200	160	8-M16
100S	250	303	116	350	220	180	8-M16
100	370	303	116	350	220	180	8-M16
150	500	430	155	565	285	240	8-M20
200	500	505	190	384	340	295	8-M20
							12-M24(MAP16)



Flow technique Specifications

SIZE DN	Q4 m3/h	Q3 m3/h	Q3/Q1	Q2/Q1	Q2 m3/h	Q1 m3/h	Min.reading		Max.reading	
							P	M	P	M
40	50	40	160	1.6	0.4	0.25	999.999	0.0005	0.0002	
			200	6.3	1.6	0.2				
50	50	40	160	1.6	0.32	0.25	999.999	0.0005	0.0002	
			200	6.3	1.3	0.2				
80	78.8	63	160	1.6	0.64	0.4	999.999	0.0005	0.0002	
			200	6.3	2.5	0.32				
100	125	100	160	1.6	0.5	0.63	999.999	0.0005	0.0002	
			200	6.3	2	0.5				
150	313	250	160	1.6	1	1.6	999.999	0.0005	0.0002	
			200	6.3	4	1.25				
200	500	400	160	1.6	2.6	2.5	999.999	0.0005	0.0002	
			200	6.3	10	2				

Applications: to record the total volume of water passed through the water pipelines.

Characteristics:

High accuracy, wide flow range.

High sensitivity due to the vertical helix turbine directly magnetic coupling with the register.

Special straight pipes are not needed for installation, as the internal measuring unit with stainless steel filter for easy fitting and maintenance.

Removable measuring unit.

Temper-proof internal adjusting device.

High wear-resisting bearing for its stable operation and long life of measurement.

Hermetic sealed register.

Note:

1. The water meter complies with the standard of <<GB/T 778.1-3-2007>> (ISO 4064-1-3:2005,IDT) .

Note:

1. The water meter complies with the standard of <<GB/T 778.1-3-2007>> (ISO 4064-1-3:2005,IDT) .

3. Two types of registers for option, the plastic cover register. Type:P and glass cover register. Type:M

LXF-50 ~ 150 COMBINATION WATER METER

Measurement Requirements

Temperature class: T30

Water pressure class: MAP10 or MAP 16 on request.

Pressure-loss class: Δp_{63}

Sensitivity to the irregularity in the upstream velocity fields class: U10

Sensitivity to the irregularity in the downstream velocity fields class: D5

Maximum Permissible Error

a) In the lower zone ($Q_1 \leq Q < Q_2$) $\pm 5\%$ b) In the upper zone ($Q_2 \leq Q \leq Q_4$) $\pm 2\%$

Dimension

SIZE DN	L	H	h	FLANGE, GB/T17241.6-1998		
	mm			D1	D2	n-M
50	300	NO	213	165	125	4-M16
80	370	310	279	200	160	8-M16
100	370	330	289	220	180	8-M16
150	500	445	319	285	240	8-M20

Flow technique Specifications

SIZE DN	Q4 m3/h	Q3 m3/h	Q3/Q1	Q2/Q1	Q2 m3/h	Q1 m3/h	Min.reading		Max.reading	
							P	M	P	M
50	31.3	25	800	1.6	0.05	0.03	0.00005	99.999+	99.999+	99.999+
80	78.8	63	1250	1.6	0.08	0.05	0.00005	99.999+	99.999+	99.999+
100	125	100	1250	4	0.2	0.08	0.00005	99.999+	99.999+	99.999+
150	312.5	250	1250	1.6	0.13	0.08	0.00005	99.999+	99.999+	99.999+

Applications: to record the total volume of water passed through the water pipelines.

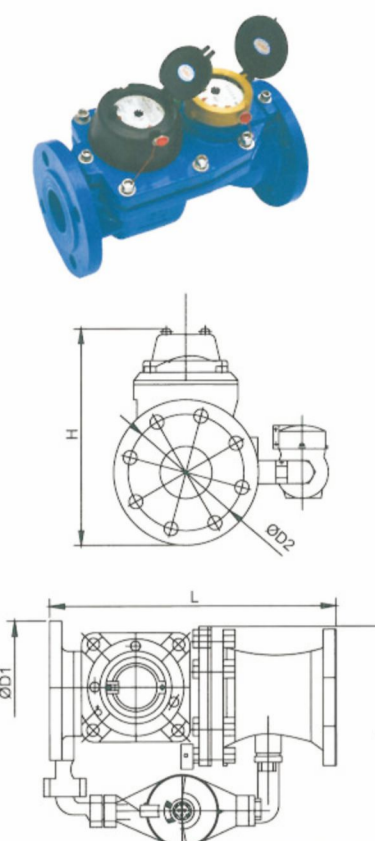
Characteristics:

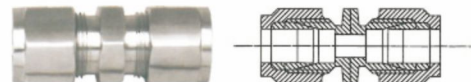
In-line type of water meter comprising one large flow rate meter, one small flow rate meter and a change over device that, depending on the magnitude of the flow rate passing through the meter, automatically directs the flow through either the small or large meter or both. So the flow rate range of the meter compared with other types of meter is more widely. It is easy for maintenance for its removable measuring unit and directly magnetic coupling transmission. For the small meter, the wet dial register type and the liquid-sealed register type are on option.

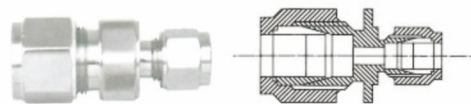
Note:

1. The water meter complies with the standard of <<GB/T 778.1-3-2007>> (ISO 4064-1-3:2005,IDT) .

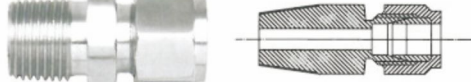
2. Two types of registers for the large meter for option, the plastic cover register. Type:P and glass cover register. Type:M

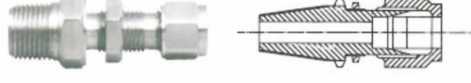


 UNION
TUBE OD: 1/8, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1 (in)
OR TUBE OD: 6, 8, 10, 12, 16, 18, 20, 25 (mm)

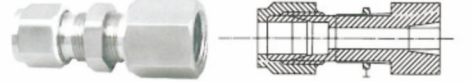
 REDUCING UNION
TUBE OD(A): 1/4, 3/8, 1/2, 3/4, 1 (in)
TUBE OD(B): 1/8, 1/4, 3/8, 3/4, 1 (in)
OR TUBE OD(A): 8, 10, 12, 16, 18, 20, 25 (mm)
TUBE OD(B): 6, 8, 10, 12, 18, 20 (mm)

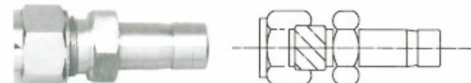
 BULKHEAD UNION
TUBE OD: 1/8, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1 (in)
OR TUBE OD: 6, 8, 10, 12, 18, 20 (mm)

 MALE CONNECTOR
TUBE OD: 1/8, 1/4, 3/8, 1/2, 3/4, 1 (in)
OR TUBE OD: 6, 8, 10, 12, 18, 20, 22, 25 (mm)

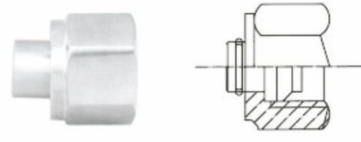
 BULKHEAD MALE CONNECTOR
TUBE OD: 1/8, 1/4, 3/8, 1/2, 3/4, 1 (in)
OR TUBE OD: 6, 12 (mm)

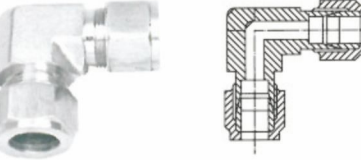
 FEMALE CONNECTOR
TUBE OD: 1/8, 1/4, 3/8, 1/2, 3/4, 1 (in)
OR TUBE OD: 6, 8, 10, 12, 16, 20, 22, 25 (mm)

 BULKHEAD FEMALE CONNECTOR
TUBE OD: 1/8, 1/4, 3/8, 1/2 (in)
OR TUBE OD: 6, 12 (mm)

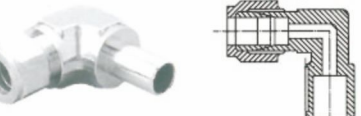
 TUBE END REDUCER
TUBE OD(A): 1/8, 1/4, 3/8, 1/2, 3/4 (in)
TUBE OD(B): 1/8, 1/4, 3/8, 1/2, 3/4, 1 (in)
OR TUBE OD(A): 6, 10, 12 (mm)
TUBE OD(B): 6, 10, 12 (mm)

 CAP-CP
TUBE OD: 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1 (in)
OR TUBE OD: 6, 10, 12, 16, 18, 20, 25 (mm)

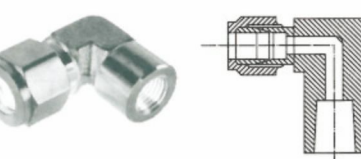
 PLUG
TUBE OD: 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1 (in)
OR TUBE OD: 6, 8, 10, 12, 16, 18, 20, 25 (mm)

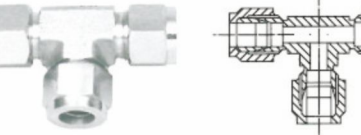
 UNION ELBOW
TUBE OD: 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1 (in)
OR TUBE OD: 6, 8, 10, 12, 16, 18 (mm)

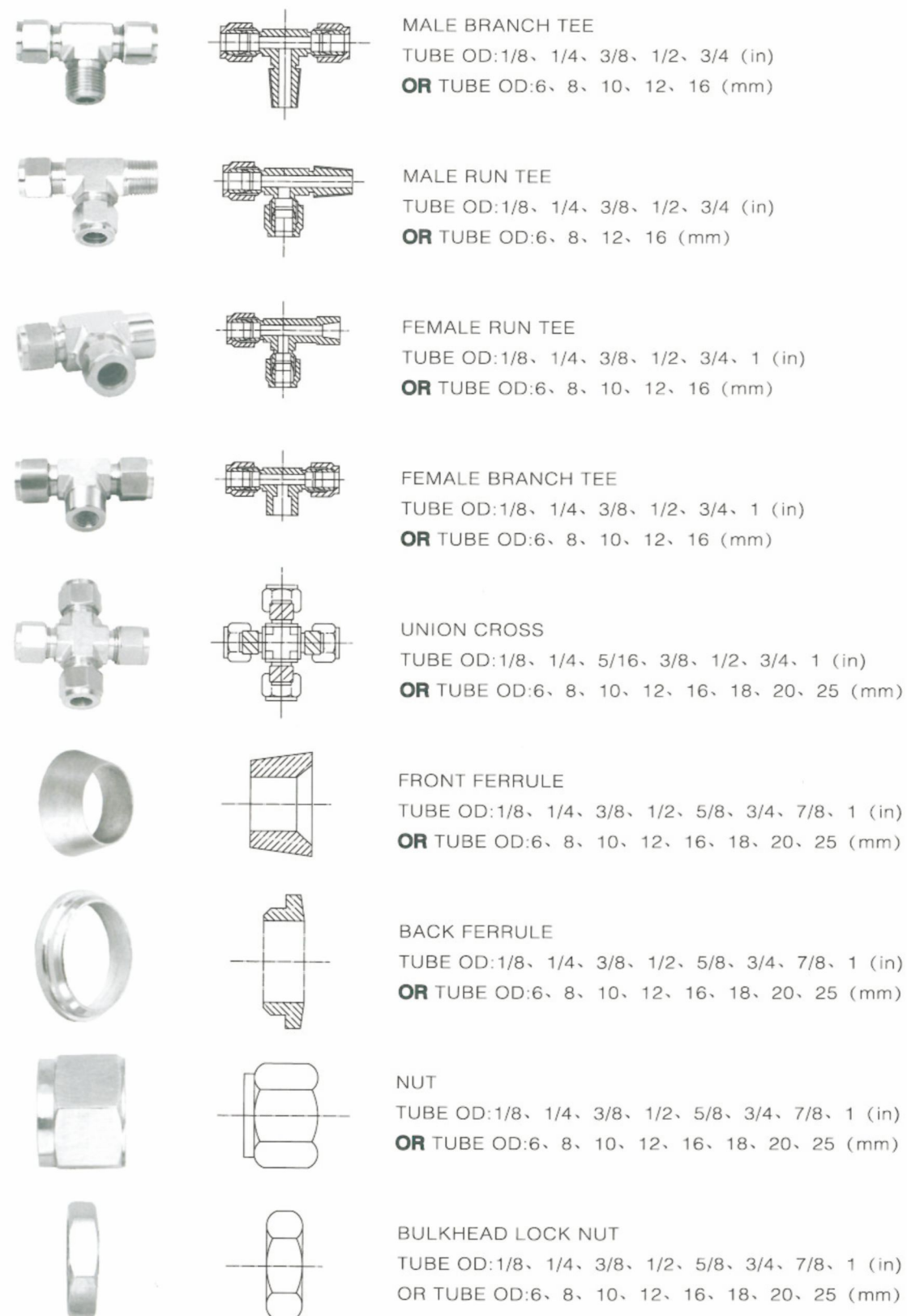
 MALE ELBOW
TUBE OD: 1/8, 1/4, 3/8, 1/2, 3/4, 1 (in)
OR TUBE OD: 6, 8, 10, 12, 16, 20, 25 (mm)

 SOCKET WELD ELBOW
TUBE OD: 1/4, 3/8, 1/2, 3/4, 1 (in)

 SOCKET WELD CONNECTOR
TUBE OD: 1/4, 3/8, 1/2, 3/4, 1 (in)
OR TUBE OD: 6, 8, 10, 12, 16 (mm)

 FEMALE ELBOW
TUBE OD: 1/8, 1/4, 3/8, 1/2, 3/4, 1 (in)
OR TUBE OD: 6, 8, 10, 12, 16 (mm)

 UNION TEE
TUBE OD: 1/8, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1 (in)
OR TUBE OD: 6, 8, 10, 12, 16, 18, 20, 22, 25 (mm)



SYPHONS

Material: black steel(standard); SS304 or brass (optional)

Thread: BSP, NPT, PT

MODEL NO	DESCRIPTIONS	MODEL NO	DESCRIPTIONS
HP-2201	1/4" MXM,"ring"	P-2204	1/4" MXM,"u"
HP-2202	3/8" MXM,"ring"	P-2205	3/8" MXM,"u"
HP-2203	3/8" MXM,"ring"	P-2206	1/2" MXM,"u"

Special made are required

Thread: BSP, NPT, BSPT

MODEL NO	DESCRIPTIONS	SIZE
HP-2207	"ring"180°	1/4"
HP-2208	"ring"90°	
HP-2209	"ring"270°	
HP-2210	"u"90°	3/8"
HP-2211	FXM "O"	1/2"

GAUGE COCKS

Body:brass

Handle:black plastic

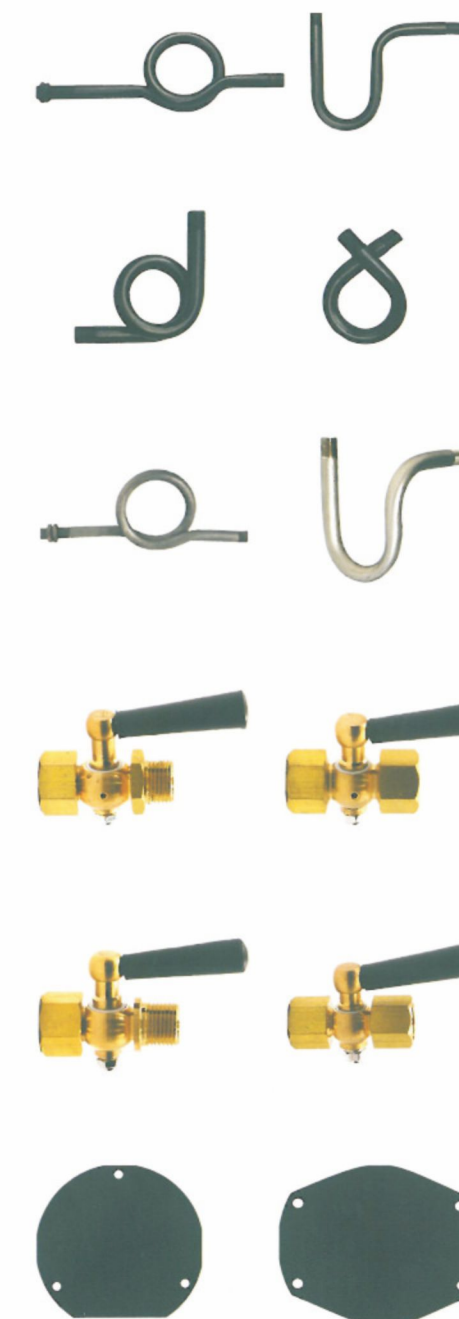
Thread: BSP, NPT, PT

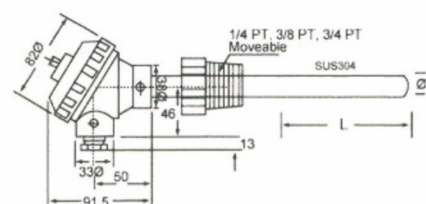
MODEL NO	DESCRIPTIONS	MODEL NO	DESCRIPTIONS
HP-2301	1/4" FXF	P-2304	1/4" FXM
HP-2302	3/8" FXF	P-2305	3/8" FXM
HP-2303	1/2" FXF	P-2306	1/2" FXM

SEPARATE BLACK FLANGES FOR PRESSURE GAUGES

Oral model,black steel

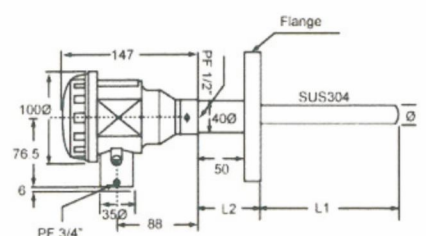
Half moon model,black steel





MODEL NO:P-2804

- K / J Type
- With round anti-explosion T/C head and flange
- 9.5 Φ ~under 600°C
- 12.7 Φ ~under 700°C
- 15.9 Φ ~under 800°C
- 17.3 Φ ~under 900°C
- 21.7 Φ ~under 1,000°C



MODEL NO:P-2805

- R / S Type
- With round T/C head but without thread connection
- 6, 8, 10, 12, 13, 15, 17 Φ
- ceramic tube, up to 1,600°C

SEPARATER



MODEL NO:P-2901

- Description:
- Process connection: Block flange
- Pressure rating Maximum (bar): PN 600
- Body material: Stainless steel
- Wetted material: Stainless steel
- Diaphragm construction: Flush with body



MODEL NO:P-2902

- Description:
- Process connection: 1 /2", 1", Male/Female
- Pressure rating Maximum (bar): PN 40
- Body material: Stainless steel
- Wetted material: Stainless steel, viton seal ring
- Diaphragm construction: Inside body



MODEL NO:P-2903

- Description:
- Process connection: DIN DN 50 to 125ANSI 2" to 5"
- Pressure rating Maximum (bar): PN 40
- Body material: Stainless steel
- Wetted material: Stainless steel

MODEL NO:P-2904

- Description:
- Process connection: Special flange, dia 85mm
- Pressure rating Maximum (bar): PN 40
- Body material: Stainless steel
- Wetted material: Stainless steel
- Diaphragm construction: Flush with body



- Application:
- Combine with bourdon tube pressure gauges in heavily insulated systems

MODEL NO:P-2905

- Description:
- Process connection: 1 /2", 1", Male
- Pressure rating Maximum (bar): PN 60
- Body material: Stainless steel, welded body
- Wetted material: Stainless steel
- Diaphragm construction: Inside body



MODEL NO:P-2906

- Quick Connect and Disconnect
- For Hygiene Applications
- Easy to Clean
- Process industry diaphragm seal to combine with bourdon tube pressure gauge.
- Intended for corrosive contaminated hot or viscous pressure Media.
- Size: DIN11851(DN25-DN80)
- Pressure Range:-1-70bar,100-400bar



THERMOWELL

- Materials: brass, chromed stainless steel, stainless steel

LENGTH	FXM
30,40,50,63,75,100,160,200mm	G3/8"X3/4"NPT
	G3/8"X1/2"NPT
	G3/8"X1/2"NPT
	G1/2"X3/4"NPT

