

## Specific&performance

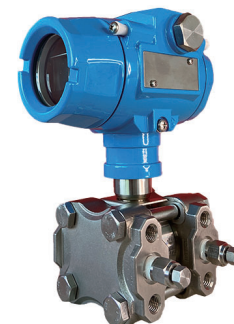
- Monosilicone-based high performing transmitter
- Explosion proof approval include NEPSI, CSA and Intertek
- Accuracy up to 0.04% of URL
- HART protocol and Modbus communication available

## Applications

- Petro-chemical
- Power plant
- Water treatment
- Process control



Intertek



## Specifications

<b>Accuracy</b>	0.075URL or 0.05URL
<b>Display</b>	Option: LC display
<b>Output signal</b>	4/20mA, 2-wire / V=10.5-55Vdc 4/20mA+HART, 2-wire / V=16.5-55Vdc 1/5V, 3-wire / V=10.5-55Vdc Modbus, 4-wire / V=9-30Vdc
<b>Long term stability</b>	≤0.2% per 5 years
<b>Thermal drift</b>	±(0.1+0.1TD)%SPAN/28°C
<b>Static pressure effect</b>	±0.2%SPAN/10MPa
<b>Mounting position effect</b>	Max 400Pa, can be calibrated by zero set on site
<b>Ingress protection</b>	IP66/67 EN60529
<b>Temperature range</b>	Ambient: -40/85°C (without display) , -20/70°C (with display) Storage: -40/110°C (without display) , -40/85°C (with display) Media: -40/120°C (without diaphragm seal)
<b>Working humidity</b>	5-100%RH@40°C
<b>Process connection</b>	1/4"NPT female, others with adapter
<b>Housing</b>	Rugged die-cast aluminum painted blue
<b>Diaphragm material</b>	316L(standard), option: HaC-276, Tantalum or 316L gold-plating
<b>Socket and flange</b>	316
<b>O-ring</b>	PTFE
<b>Sensor fill fluid</b>	Silicone oil(standard) , option: fluorolube , high temperature oil
<b>Anti vibration</b>	20g, 20Hz...5kHz according to IEC 61298-3 tests, < 0.1%URL
<b>Power consumption</b>	≤500mW, (24VDC, 20.8mA)
<b>Explosion proof</b>	- CSA Class I, Division 1, Group A,B,C and D T6  Class II, Division 1 Group E,F and G T80°C   Class III - Intertek Class I, Zone 0 AEx ia IIC T4 Ga  Class I, Division 1, Group A-D, T4  -40/60°C - NEPSI Ex d IIC T6 Gb
<b>Operation life</b>	10 <sup>8</sup> times of cycle

## Range and limitation

Range	Type	Smallest calibration Span	Range limit		Static pressure	High side Overpressure	Low side Overpressure
			LRL	URL			
6kPa	Differential	100Pa	-6kPa	6kPa	25MPa	25MPa	16MPa
	Gauge	100Pa	-6kPa	6kPa	-	25MPa	-
	Absolute	-	-	-	-	-	-
40kPa	Differential	400Pa	-40kPa	40kPa	40MPa	25MPa	16MPa
	Gauge	400Pa	-40kPa	40kPa	-	25MPa	-
	Absolute	20kPa	0	40kPa	-	25MPa	-
250kPa	Differential	12.5kPa	-250kPa	250kPa	40MPa	25MPa	16MPa
	Gauge	12.5kPa	-100kPa	250kPa	-	25MPa	-
	Absolute	50kPa	0	250kPa	-	25MPa	-
1MPa	Differential	10kPa	-1MPa	1MPa	40MPa	25MPa	16MPa
	Gauge	10kPa	-100kPa	1MPa	-	25MPa	-
	Absolute	100kPa	0	1MPa	-	25MPa	-
3MPa	Differential	30kPa	-3MPa	3MPa	40MPa	15MPa	3MPa
	Gauge	30kPa	-100kPa	3MPa	-	15MPa	-
	Absolute	-	-	-	-	15MPa	-
10MPa	Differential	100kPa	-100kPa	10MPa	40MPa	20MPa	3MPa
	Gauge	100kPa	-100kPa	10MPa	-	20MPa	-
	Absolute	-	-	-	-	20MPa	-
40MPa	Differential	-	-	-	-	-	-
	Gauge	400kPa	-100kPa	40MPa	-	60MPa	-
	Absolute	-	-	-	-	-	-

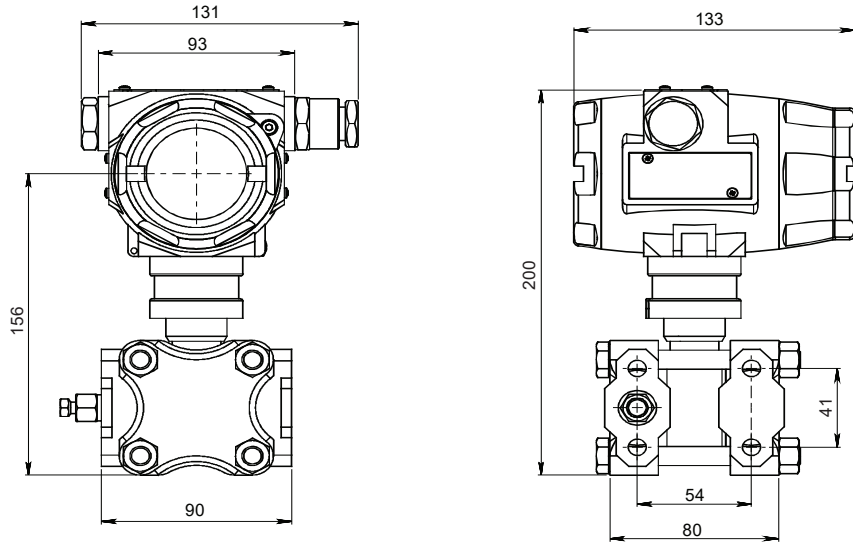
## EMD data(only for current output)

No.	Testing program	Reference standard	Testing data	Result
1	Radiated disturbance	GB/T 9254/CISPR22	30MHz-1GHz	Pass
2	Conducted disturbance	GB/T 9254/CISPR22	0.15MHz-30MHz	Pass
3	Electrostatic discharge	GB/T 17626.2/IEC 61000-4-2	4kV(contact),8kV(air)	B <sup>②</sup>
4	Radio-frequency electro-magnetic filed immunity	GB/T 17626.3/IEC 61000-4-3	10V/m, 80MHz-1GHz	A <sup>①</sup>
5	Power-frequency magnetic fields Immunity	GB/T 17626.8/IEC 61000-4-8	30A/m	A <sup>①</sup>
6	Electrical fast transients	GB/T 17626.4/IEC 61000-4-4	2kV(5/50nS,100kHz)	B <sup>②</sup>
7	Surges	GB/T 17626.5/IEC 61000-4-5	1kV(L1-N),2kV(L1-PE)	B <sup>②</sup>
8	Radio-frequency magnetic fields Immunity	GB/T 17626.6/IEC 61000-4-6	3V(150kHz-80MHz)	A <sup>①</sup>

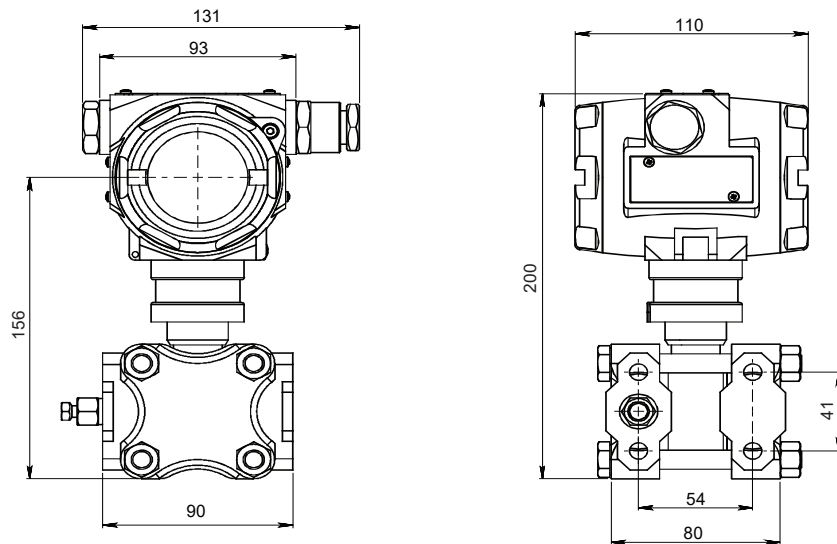
Notes: ①: A: During testing, normal performance within the specification limits

②: B: During testing, temporary degradation, or loss of function or performance which is self-recovering

**Dimensions in mm**

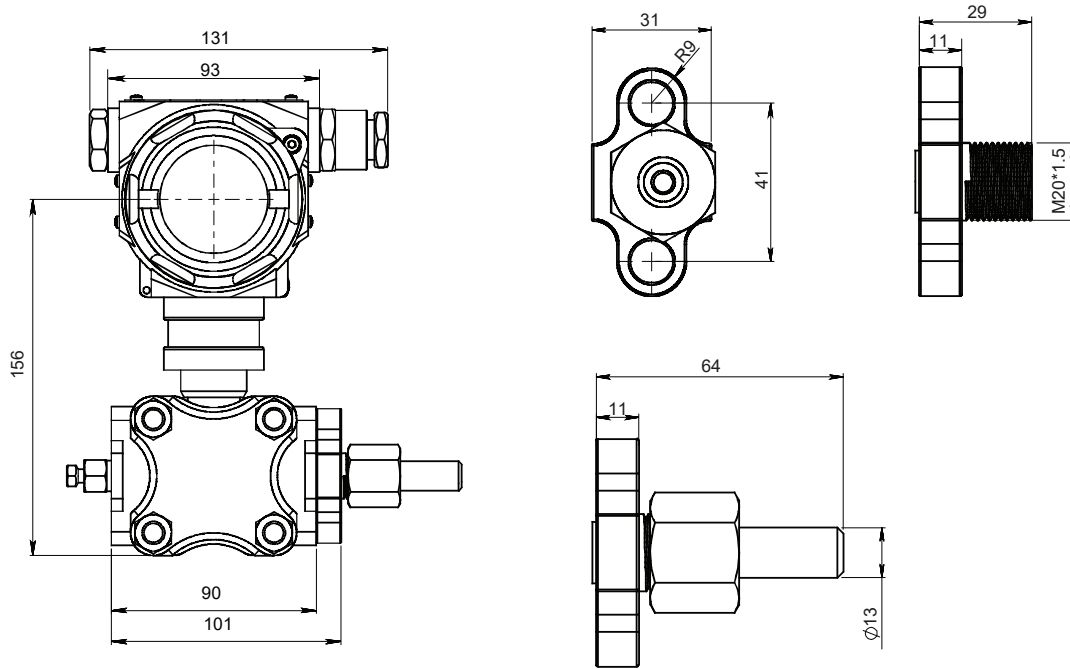


**With LC display and standard process connection**

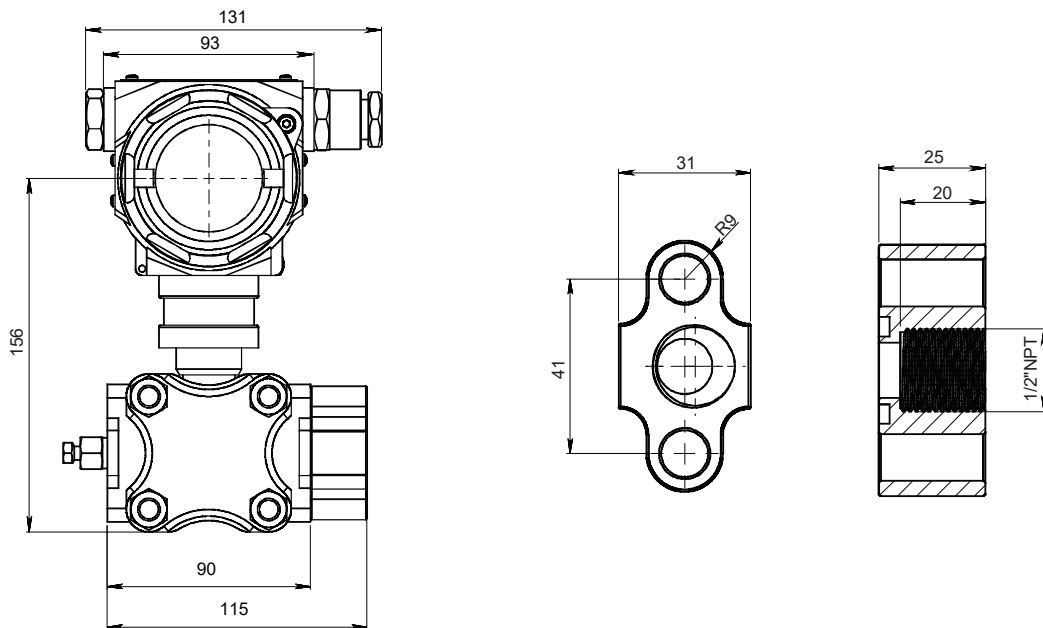


**Without LC display, standard process connection**

## Dimensions in mm



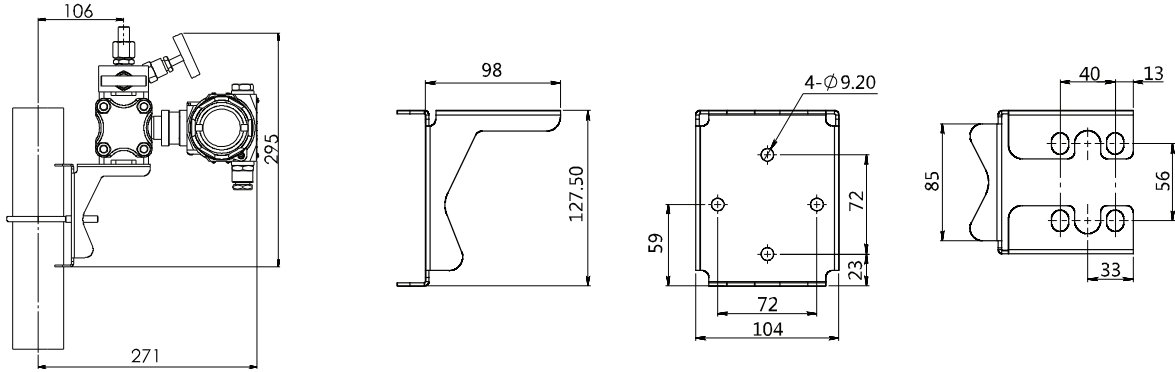
With M20\*1.5 adapter or 13mm diameter tube



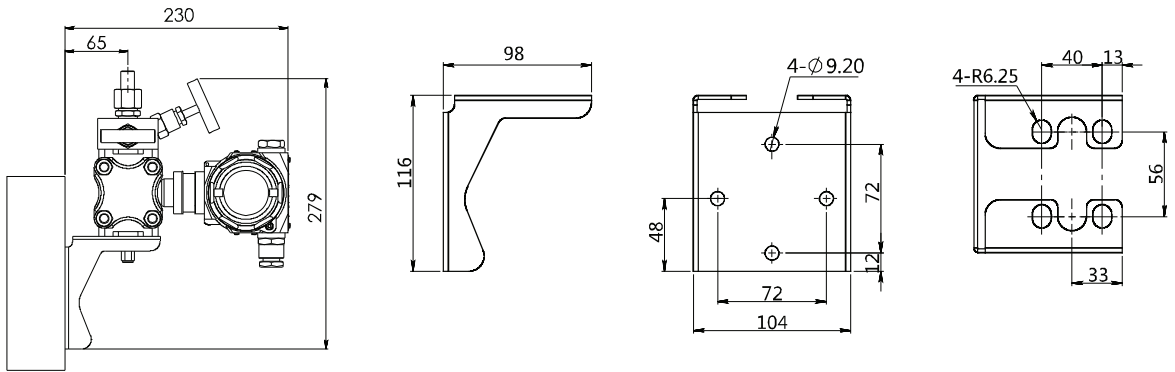
With 1/2"NPT female adapter

## Mounting bracket dimensions in mm

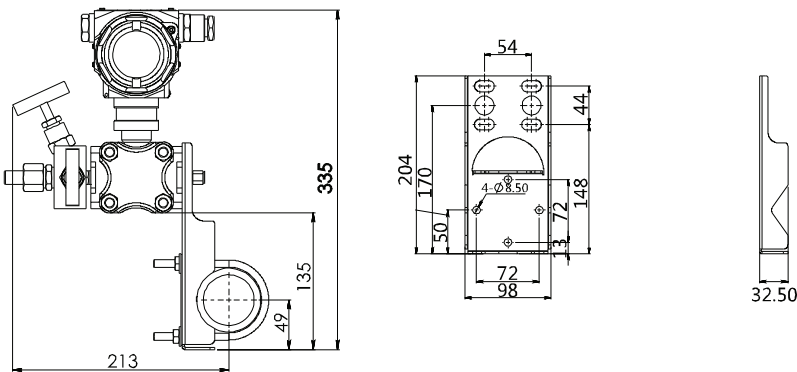
### Vertical pipe mounting B1,C1



### Vertical plate mounting B2,C2



### Horizontal pipe mounting B3,C3



### LY36 ordering code

	Code	Specifications
1.	LY36	Series
2.	G	Pressure type Gauge
	D	Differential
	A	Absolute
3.	...	Calibrated range Please input range with unit
4.	S	Static pressure Standard
5.	S	Sensor type Standard
	H	Micro pressure range (Range≤200Pa)
6.	1	Output signal 4-20mA 2-wire
	2	4-20mA with HART protocol
	3	1-5V 3-wire
	4	Modbus communication
7.	2	Accuracy 0.1%URL
	5	0.075%URL
	7	0.05%URL
8.	B1	Sensor fill fluid Standard (media -40/120°C), with diaphragm seal -40/205°C
	B2	fluorolube (media -45/120°C), with diaphragm seal -45/160°C. For oxygen application,
	B3	High temperature (media 0/120°C), with diaphragm seal 0/315°C
9.	S	Explosion proof Standard, non explosion proof, IP66
	X	Ex d IIC T6 Gb, IP67
	I	Ex ia IIC T4 Ga, IP66
10.	0	Display Without
	C	With LC display
11.	4N	Process connection 1/4"NPT female (standard)
	2M	M20*1.5 male and with tube Φ14*2*30
	2N	1/2"NPT female
	ZZ	Others
12.	00	Mounting accessories Without
	B1	2" pipe mounting, vertical, carbon steel
	C1	2" pipe mounting, vertical, stainless steel
	B2	plate mounting, vertical, carbon steel
	B3	2" pipe mounting, horizontal, carbon steel
	C3	2" pipe mounting, horizontal, stainless steel

### LY36 ordering code

Code Specifications

		Option	
13.	<input type="text"/>		Without
		HC	HaC diaphragm
		TA	Tantalum diaphragm
		GD	316L gold-plating diaphragm
		OX	Oxygen clean
		04	accuracy 0.4%URL, please contact us to confirm available range
		H2	Drain in upper
		H3	Drain in lower

### Specific&performance

- Various flange standard available
- Various diaphragm material available: 316L, HaC, Tantalum
- Media temperature up to 315°C

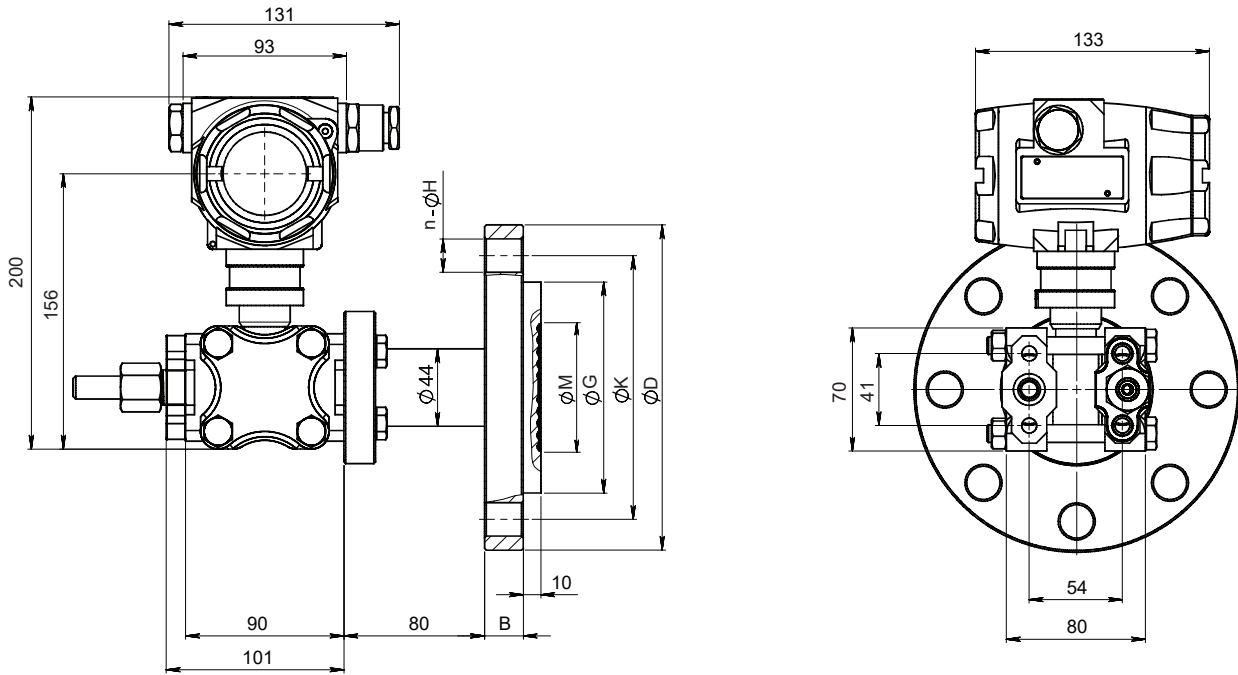


### Specifications

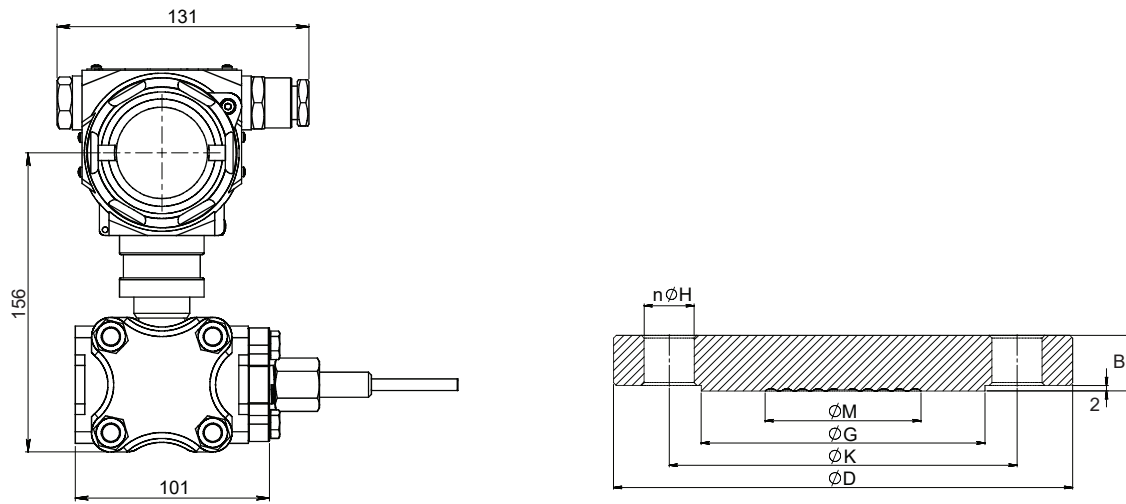
Flange material	304SS(standard), option:316SS 316LSS	
Diaphragm material	316LSS(standard), option:HaC and Tantalum	
Flange size	EN1092-1 or HG/T 20592	DN50, DN80 or DN100
	ASME B16.5 or HG/T 20615	2", 3" or 4"
Capillary	304SS, OD: 3.5mm	
Diaphragm fill fluid	Silicone oil (-45-205°C)	
	High temperature oil (0-315°C)	



Dimensions in mm



Direct connection with swivel flange



Remote connection with fixed flange

Flange standard	Flange size	D	K	G	M	B	n	H
EN 1092-1 or HG/T 20592	DN50 PN10	165	125	102	56	20	4	18
	DN80 PN10	200	160	138	71	20	8	18
	DN100 PN10	220	180	158	71	22	8	18
ASME B16.5 or HG/T 20615	2" 150#	150	120.7	92	56	17.5	4	18
	3" 150#	190	152.4	127	71	22.3	4	18
	4" 150#	230	190.5	157	71	22.3	8	18

### S39 Ordering code

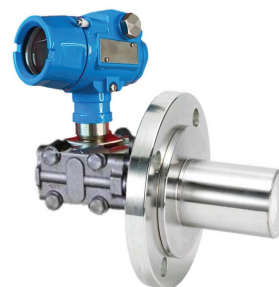
Code		Specifications	
1.	<input type="text"/>	S39	Series
			<b>Flange standard</b>
2.	<input type="text"/>	1	EN 1092-1 or HG/T 20592
		2	ASME B16.5 or HG/T 20615
			<b>High pressure side flange size</b>
3.	<input type="text"/>		EN 1092-1 or HG/T 20592 ASME B16.5 or HG/T 20615
		A	DN50 2"
		B	DN80 3"
		C	DN100 4"
			<b>High pressure side flange rating</b>
4.	<input type="text"/>		EN 1092-1 or HG/T 20592 ASME B16.5 or HG/T 20615
		A	PN10 150#
		B	PN16 300#
		C	PN25 600#
		D	PN40 900#
		E	PN63 1500#
		F	PN100 2500#
		G	PN160
			<b>High pressure side capillary length</b>
5.	<input type="text"/>	AA	Direct connection, without capillary
		2m	2m(standard), others please input length with unit m
			<b>Low pressure side flange size</b>
6.	<input type="text"/>		EN 1092-1 or HG/T 20592 ASME B16.5 or HG/T 20615
		0	Without diaphragm Without diaphragm
		A	DN50 2"
		B	DN80 3"
		C	DN100 4"
			<b>Low pressure side flange rating</b>
7.	<input type="text"/>		EN 1092-1 or HG/T 20592 ASME B16.5 or HG/T 20615
		0	Without diaphragm Without diaphragm
		A	PN10 150#
		B	PN16 300#
		C	PN25 600#
		D	PN40 900#
		E	PN63 1500#
		F	PN100 2500#
		G	PN160
			<b>Low pressure side capillary length</b>
8.	<input type="text"/>	00	Without diaphragm
		AA	Direct connection, without capillary
		02	2m(standard), others please input length with unit m

### S39 Ordering code

		Code	Specifications
9.	<input type="text"/>	1	Diaphragm fill fluid Silicone oil
		2	High temperature oil
10.	<input type="text"/>	T	Flange material 304SS
		S	316SS
		L	316LSS
11.	<input type="text"/>	L	Diaphragm material 316LSS
		H	HaC
		A	Tantalum

### Specific&performance

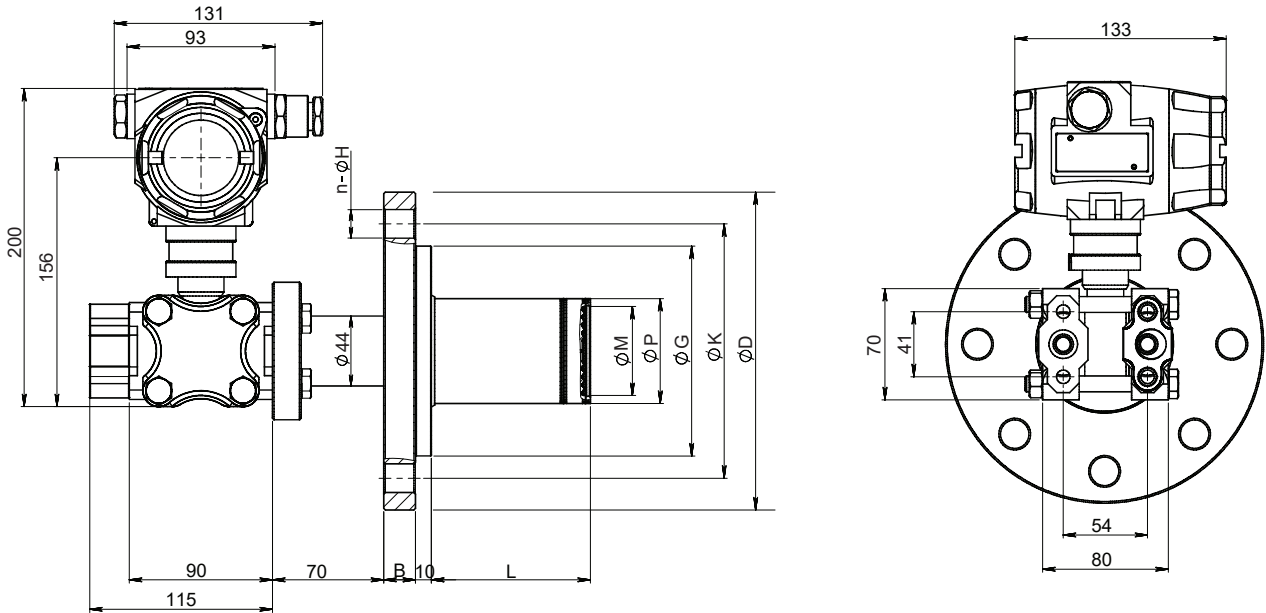
- Various flange standard available
- Various diaphragm material available: 316L, HaC, Tantalum
- Media temperature up to 315°C



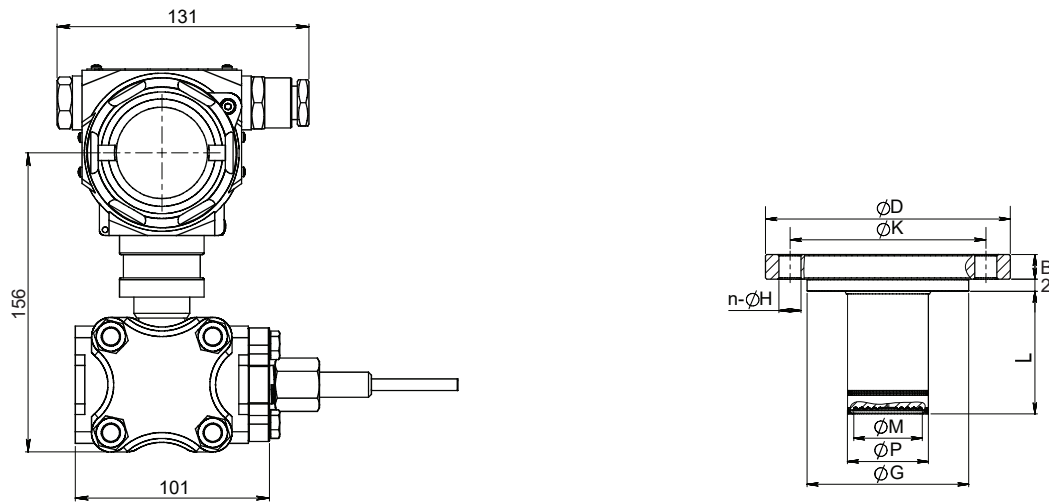
### Specifications

Flange material	304SS(standard), option 316SS or 316LSS
Diaphragm material	316LSS(standard), option HaC or tantalum
Flange size	EN1092-1 or HG/T 20592      DN50, DN80 or DN100 ASME B16.5 or HG/T 20615      2", 3" or 4"
Capillary	material 304SS    OD=3.5mm
Diaphragm fill fluid	Silicone oil (-45-205°C) High temperature oil (0-315°C)

### Dimensions in mm



Direct connection with swivel flange



Remote connection with fixed flange

Flange standard	Flange size	D	K	G	M	B	P	L	n	H
EN 1092-1 or HG/T 20592	DN50 PN10	165	125	102	56	20	66	50/100/150	4	18
	DN80 PN10	200	160	138	71	20	66	50/100/150	8	18
	DN100 PN10	220	180	158	71	22	66	50/100/150	8	18
ASME B16.5 or HG/T 20615	2" 150#	150	120.7	92	56	17.5	66	50/100/150	4	18
	3" 150#	190	152.4	127	71	22.3	66	50/100/150	4	18
	4" 150#	230	190.5	157	71	22.3	66	50/100/150	8	18

### S41 Ordering code

Code		Specifications	
1.	<input type="text"/>	S41	Series
<b>Flange standard</b>			
2.	<input type="text"/>	1	EN 1092-1 or HG/T 20592
		2	ASME B16.5 or HG/T 20615
<b>High pressure side flange size</b>			
3.	<input type="text"/>		EN 1092-1 or HG/T 20592 ASME B16.5 or HG/T 20615
		A	DN50 2"
		B	DN80 3"
		C	DN100 4"
<b>High pressure side flange rating</b>			
4.	<input type="text"/>		EN 1092-1 or HG/T 20592 ASME B16.5 or HG/T 20615
		A	PN10 150#
		B	PN16 300#
		C	PN25 600#
		D	PN40 900#
		E	PN63 1500#
		F	PN100 2500#
		G	PN160
<b>High pressure side capillary length</b>			
5.	<input type="text"/>	AA	Direct connection, without capillary
		02	2m(standard), others please input length with unit m
<b>Low pressure side flange size</b>			
6.	<input type="text"/>		EN 1092-1 or HG/T 20592 ASME B16.5 or HG/T 20615
		0	Without diaphragm Without diaphragm
		A	DN50 2"
		B	DN80 3"
		C	DN100 4"
<b>Low pressure side flange rating</b>			
7.	<input type="text"/>		EN 1092-1 or HG/T 20592 ASME B16.5 or HG/T 20615
		0	Without diaphragm Without diaphragm
		A	PN10 150#
		B	PN16 300#
		C	PN25 600#
		D	PN40 900#
		E	PN63 1500#
		F	PN100 2500#
		G	PN160
<b>Low pressure side capillary length</b>			
8.	<input type="text"/>	00	Without diaphragm
		AA	Direct connection, without capillary
		2m	2m(standard), others please input length with unit m

### S41 Ordering code

		Code	Specifications
9.	<input type="text"/>	1	Diaphragm fill fluid Silicone oil
		2	High temperature oil
10.	<input type="text"/>		Flange material
		T	304SS
		S	316SS
		L	316LSS
11.	<input type="text"/>		Diaphragm material
		L	316LSS
		H	HaC
		A	Tantalum
12.	<input type="text"/>		Extended diaphragm size
		1	OD=66mm * L=50mm
		2	OD=66mm * L=100mm
		3	OD=66mm * L=150mm