



### Product Description

- By using diaphragm seals, the measuring instruments can be used at extreme temperatures up to +300 °C
- The double flange diaphragm can increase the size of the upper body and diaphragm to match the piping connection, requirements, and improve accuracy
- Applicable to special working environments and corrosive fluids, such as high pressure, high vibration, and concrete



### Product Specification

#### Type of process connection

ANSI/ASME B16.5, JIS, DIN 2527

#### Nominal diameter

1/2", 3/4", 1", 1 1/4", 1 1/2", 2"

#### Diaphragm diameter

70 mm, 90mm, 130 mm, 160 mm

#### Instrument connection

1/4", 3/8", 1/2"

PT, G, NPT, M

#### Scale ranges

70 mm

Pressure gauge: 0 ... 4 bar to 0 ... 40 bar

Transmitter: 0 ... 0.4 bar to 0 ... 40 bar

90 mm

Pressure gauge:

-1 ... 0 bar to -1 ... 40 bar

Transmitter:

0 ... 0.01 bar to -1 ... 40 bar

130 mm

Pressure gauge:

0 ... 0.25 bar to -1 ... 40 bar

Transmitter:

0 ... 0.01 bar to -1 ... 40 bar

160 mm

Pressure gauge:

0 ... 0.01 bar to -1 ... 25 bar

Transmitter:

-0.05 ... 0.05 bar to -1 ... 25 bar

or all other equivalent vacuum or

combined pressure and vacuum

ranges

## Product Specification

### Material

Upper body:

304 SS, 316 SS, 316L SS, Dual Phase  
Steel, Hastelloy C276, Tantalum,  
Titanium, Monel 400, Nickel 200

Lower body:

304 SS, 316 SS, 316L SS, Dual Phase  
Steel, Hastelloy C276, Tantalum,  
Titanium, Monel 400, Nickel 200

Diaphragm:

316L SS, Hastelloy C276, Tantalum,  
Titanium, Monel 400, Nickel 200,  
Silicone, Viton, 316L+PTFE<sup>[1]</sup>

### Medium temperature

0°C ... 80°C (standard), 81°C ... 200°C,  
201°C ... 400°C

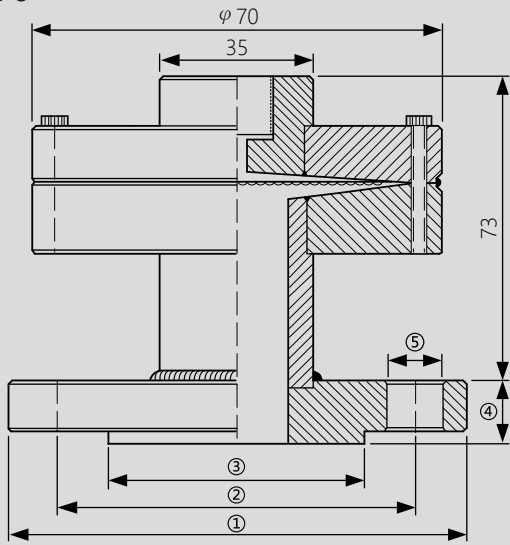
### Others

Welded with instrument, flush port  
coating (PTFE or PFA), lining (metal or  
PTFE)

[1] When the diaphragm material is 316L+PTFE, it cannot be used in a vacuum environment.

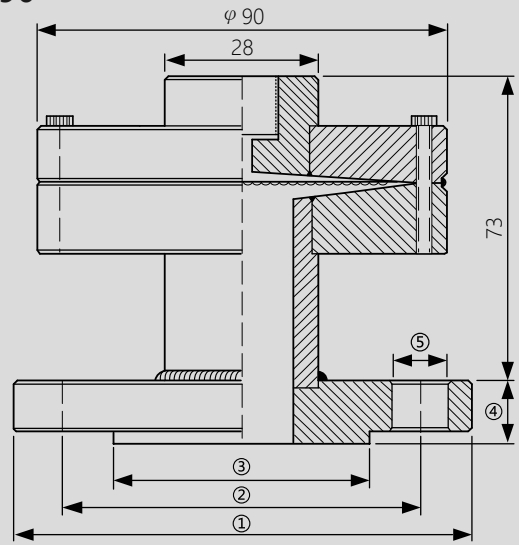
# Dimensions

φ70



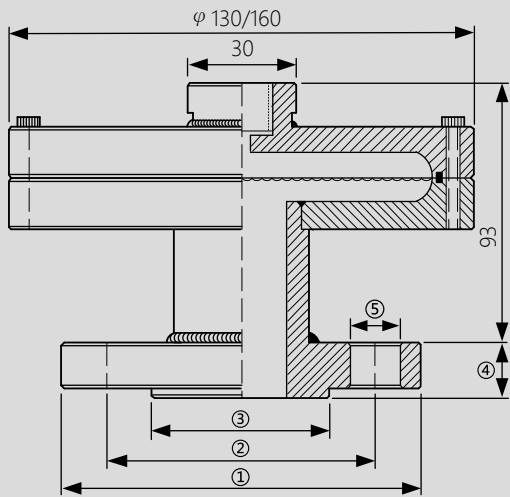
Unit: mm

φ90



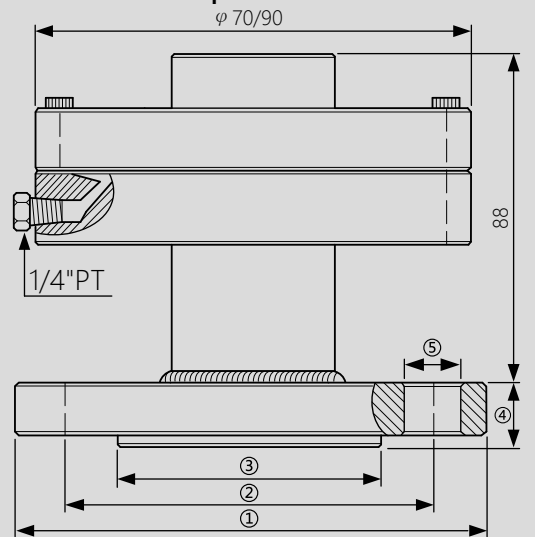
Unit: mm

φ130/160



Unit: mm

φ70/90+ flush port



Unit: mm

# Dimensions

Dimensions (mm)												
ANSI ASME B16.5	150LB	①	②	③	④	⑤	300LB	①	②	③	④	⑤
	1/2"	89	60.3	35	11.2	15x4	1/2"	95	66.7	35	14.3	15x4
	3/4"	98	69.8	43	12.7	15x4	3/4"	118	82.6	43	15.9	19x4
	1"	108	79.4	51	14.3	15x4	1"	124	88.9	51	17.5	19x4
	1 1/4"	117	88.9	64	15.9	15x4	1 1/4"	133	98.4	64	19.1	19x4
	1 1/2"	127	98.4	73	17.5	15x4	1 1/2"	156	114.3	73	20.7	22x4
	2	152	120.6	92	19.1	19x4	2	165	127.0	92	22.3	19x8
	600LB	①	②	③	④	⑤	900LB	①	②	③	④	⑤
	1/2"	95	66.7	35	20.7	15x4	1/2"	121	82.6	35	28.7	22x4
	3/4"	118	82.6	43	22.3	19x4	3/4"	130	88.9	43	31.8	22x4
	1"	124	88.9	51	23.9	19x4	1"	149	101.6	51	35	25x4
	1 1/4"	133	98.4	64	27.1	19x4	1 1/4"	159	111.1	64	35	25x4
	1 1/2"	156	114.3	73	28.7	22x4	1 1/2"	178	123.8	73	38.2	28x4
	2	165	127.0	92	31.8	19x8	2	216	165.1	92	44.5	25x8
	1500LB	①	②	③	④	⑤	2500LB	①	②	③	④	⑤
	1/2"	121	82.5	35	28.7	22x4	1/2"	133	88.9	35	36.6	22x4
	3/4"	130	88.9	43	31.8	22x4	3/4"	140	95.3	43	38.2	22x4
	1"	149	101.6	51	35	25x4	1"	159	108.0	51	41.4	25x4
	1 1/4"	159	111.1	64	35	25x4	1 1/4"	184	130.2	64	44.5	28x4
	1 1/2"	178	123.8	73	38.2	28x4	1 1/2"	203	146.1	73	50.9	31x4
	2	216	165.1	92	44.5	25x8	2	235	171.5	92	57.2	28x8

## Dimensions

Dimensions (mm)												
JIS	5K	①	②	③	④	⑤	10K	①	②	③	④	⑤
	15A	80	60	48	9	12x4	15A	95	70	52	12	15x4
	20A	85	65	52	10	12x4	20A	100	75	58	14	15x4
	25A	95	75	62	10	12x4	25A	125	90	70	14	19x4
	32A	115	90	72	12	15x4	32A	135	100	80	16	19x4
	40A	120	95	78	12	15x4	40A	140	105	85	16	19x4
	50A	130	105	88	14	15x4	50A	155	120	100	16	19x4
	16K	①	②	③	④	⑤	20K	①	②	③	④	⑤
	15A	95	70	52	12	15x4	15A	95	70	52	14	15x4
	20A	100	75	58	14	15x4	20A	100	75	58	16	15x4
	25A	125	90	70	14	19x4	25A	125	90	70	16	19x4
	32A	135	100	80	16	19x4	32A	135	100	80	18	19x4
	40A	140	105	85	16	19x4	40A	140	105	85	18	19x4
	50A	155	120	100	16	19x8	50A	155	120	100	18	19x8
	40K	①	②	③	④	⑤	63K	①	②	③	④	⑤
	15A	115	80	55	20	19x4	15A	120	85	55	23	19x4
	20A	120	85	60	20	19x4	20A	135	95	60	25	23x4
	25A	130	95	70	22	19x4	25A	140	100	70	27	23x4
	32A	140	105	80	24	19x4	32A	150	110	80	30	23x4
	40A	160	120	90	24	23x4	40A	175	130	90	32	25x4
	50A	165	130	105	26	19x8	50A	185	145	105	34	25x8

JIS reference table								
JIS	15A	20A	25A	32A	40A	50A	80A	100A
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"

Screw reference table (mm)									
⑤	12	15	19	22/23	25	28	31	34	41
Screw	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 1/2"

## Dimensions

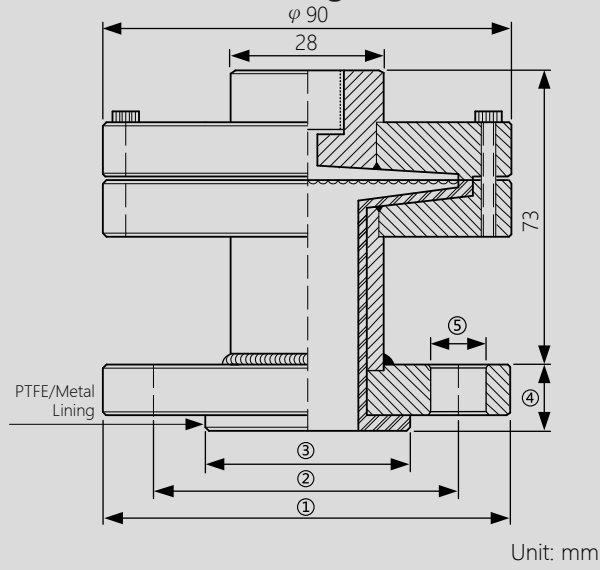
Dimensions (mm)												
DIN 2527	PN6	①	②	③	④	⑤	PN10	①	②	③	④	⑤
	DN15	80	55	40	12	11x4	DN15	95	65	45	14	14x4
	DN20	90	65	50	14	11x4	DN20	105	75	58	16	14x4
	DN25	100	75	60	14	11x4	DN25	115	85	68	16	14x4
	DN32	120	90	70	14	14x4	DN32	140	100	78	16	18x4
	DN40	130	100	80	14	14x4	DN40	150	110	88	16	18x4
	DN50	140	110	90	14	14x4	DN50	165	125	102	18	18x4
	PN16	①	②	③	④	⑤	PN25	①	②	③	④	⑤
	DN15	95	65	45	14	14x4	DN15	95	65	45	16	14x4
	DN20	105	75	58	16	14x4	DN20	105	75	58	18	14x4
	DN25	115	85	68	16	14x4	DN25	115	85	68	18	14x4
	DN32	140	100	78	16	18x4	DN32	140	100	78	18	18x4
	DN40	150	110	88	16	18x4	DN40	150	110	88	18	18x4
	DN50	165	125	102	18	18x4	DN50	165	125	102	20	18x4
	PN40	①	②	③	④	⑤	PN64	①	②	③	④	⑤
	DN15	95	65	45	16	14x4	DN15	105	75	45	20	14x4
	DN20	105	75	58	18	14x4	DN20	-	-	-	-	-
	DN25	115	85	68	18	14x4	DN25	140	100	68	24	18x4
	DN32	140	100	78	18	18x4	DN32	155	110	78	24	22x4
	DN40	150	110	88	18	18x4	DN40	170	125	88	26	22x4
DN50	165	125	102	20	18x4	DN50	180	135	102	26	22x4	

DIN reference table								
DIN 2527	DN15	DN20	DN25	DN32	DN40	DN50	DN80	DN100
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"

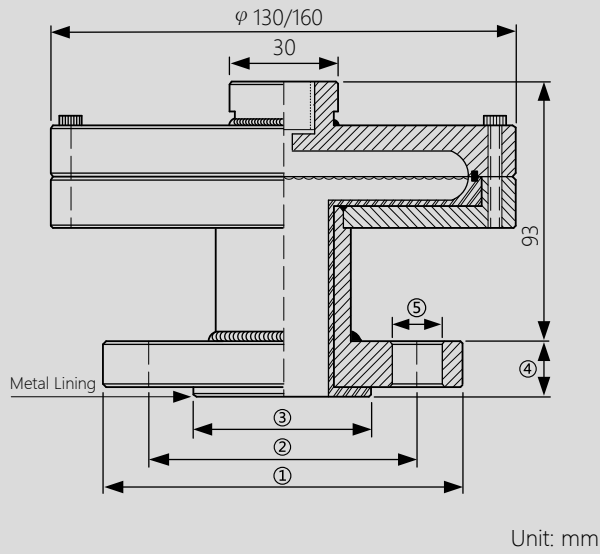
Screw reference table (mm)					
⑤	11	14	18	22/23	26
Screw	M10	M12	M16	M20	M27

# Dimensions

## φ90+PTFE/Metal Lining



## φ130/160+Metal Lining



# Dimensions

Dimensions (mm)												
ANSI ASME B16.5	150LB	①	②	③	④	⑤	300LB	①	②	③	④	⑤
	1/2"	89	60.3	35	14.2	15x4	1/2"	95	66.7	35	17.3	15x4
	3/4"	98	69.8	43	15.7	15x4	3/4"	118	82.6	43	18.9	19x4
	1"	108	79.4	51	17.3	15x4	1"	124	88.9	51	20.5	19x4
	1 1/4"	117	88.9	64	18.9	15x4	1 1/4"	133	98.4	64	22.1	19x4
	1 1/2"	127	98.4	73	20.5	15x4	1 1/2"	156	114.3	73	23.7	22x4
	2	152	120.6	92	22.1	19x4	2	165	127.0	92	25.3	19x8
	600LB	①	②	③	④	⑤	900LB	①	②	③	④	⑤
	1/2"	95	66.7	35	23.7	15x4	1/2"	121	82.6	35	31.7	22x4
	3/4"	118	82.6	43	25.3	19x4	3/4"	130	88.9	43	34.8	22x4
	1"	124	88.9	51	26.9	19x4	1"	149	101.6	51	38	25x4
	1 1/4"	133	98.4	64	30.1	19x4	1 1/4"	159	111.1	64	38	25x4
	1 1/2"	156	114.3	73	31.7	22x4	1 1/2"	178	123.8	73	41.2	28x4
	2	165	127.0	92	34.8	19x8	2	216	165.1	92	47.5	25x8
	1500LB	①	②	③	④	⑤	2500LB	①	②	③	④	⑤
	1/2"	121	82.6	35	31.7	22x4	1/2"	133	88.9	35	36.9	22x4
	3/4"	130	88.9	43	34.8	22x4	3/4"	140	95.3	43	41.2	22x4
	1"	149	101.6	51	38	25x4	1"	159	108.0	51	44.4	25x4
	1 1/4"	159	111.1	64	38	25x4	1 1/4"	184	130.2	64	47.5	28x4
	1 1/2"	178	123.8	73	41.2	28x4	1 1/2"	203	146.1	73	53.9	31x4
	2	216	165.1	92	47.5	25x8	2	235	171.5	92	60.2	28x8

## Dimensions

Dimensions (mm)												
JIS	5K	①	②	③	④	⑤	10K	①	②	③	④	⑤
	15A	80	60	48	12	12x4	15A	95	70	52	15	15x4
	20A	85	65	52	13	12x4	20A	100	75	58	17	15x4
	25A	95	75	62	13	12x4	25A	125	90	70	17	19x4
	32A	115	90	72	15	15x4	32A	135	100	80	19	19x4
	40A	120	95	78	15	15x4	40A	140	105	85	19	19x4
	50A	130	105	88	17	15x4	50A	155	120	100	19	19x4
	16K	①	②	③	④	⑤	20K	①	②	③	④	⑤
	15A	95	70	52	15	15x4	15A	95	70	52	17	15x4
	20A	100	75	58	17	15x4	20A	100	75	58	19	15x4
	25A	125	90	70	17	19x4	25A	125	90	70	19	19x4
	32A	135	100	80	19	19x4	32A	135	100	80	21	19x4
	40A	140	105	85	19	19x4	40A	140	105	85	21	19x4
	50A	155	120	100	19	19x8	50A	155	120	100	21	19x8
	40K	①	②	③	④	⑤	63K	①	②	③	④	⑤
	15A	115	80	55	23	19x4	15A	120	85	55	26	19x4
	20A	120	85	60	23	19x4	20A	135	95	60	28	23x4
	25A	130	95	70	25	19x4	25A	140	100	70	30	23x4
	32A	140	105	80	27	19x4	32A	150	110	80	33	23x4
	40A	160	120	90	27	23x4	40A	175	130	90	35	25x4
	50A	165	130	105	29	19x8	50A	185	145	105	37	25x8

JIS reference table								
JIS	15A	20A	25A	32A	40A	50A	80A	100A
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"

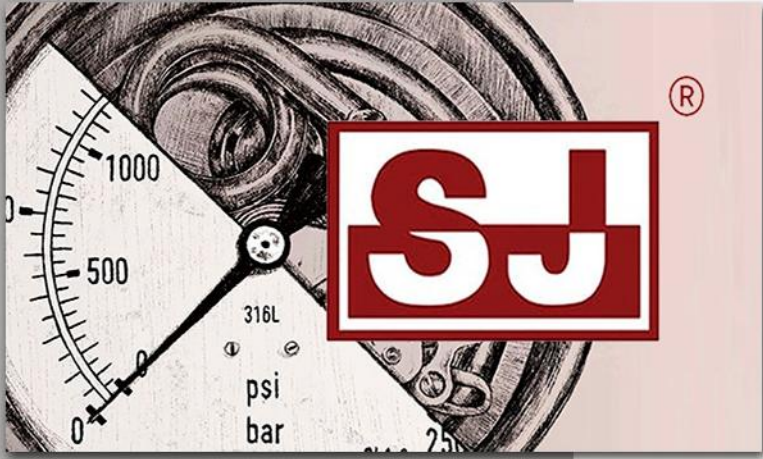
Screw reference table (mm)									
⑤	12	15	19	22/23	25	28	31	34	41
Screw	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 1/2"

## Dimensions

Dimensions (mm)												
DIN 2527	PN6	①	②	③	④	⑤	PN10	①	②	③	④	⑤
	DN15	80	55	40	15	11x4	DN15	95	65	45	17	14x4
	DN20	90	65	50	17	11x4	DN20	105	75	58	19	14x4
	DN25	100	75	60	17	11x4	DN25	115	85	68	19	14x4
	DN32	120	90	70	17	14x4	DN32	140	100	78	19	18x4
	DN40	130	100	80	17	14x4	DN40	150	110	88	19	18x4
	DN50	140	110	90	17	14x4	DN50	165	125	102	21	18x4
	PN16	①	②	③	④	⑤	PN25	①	②	③	④	⑤
	DN15	95	65	45	17	14x4	DN15	95	65	45	19	14x4
	DN20	105	75	58	19	14x4	DN20	105	75	58	21	14x4
	DN25	115	85	68	19	14x4	DN25	115	85	68	21	14x4
	DN32	140	100	78	19	18x4	DN32	140	100	78	21	18x4
	DN40	150	110	88	19	18x4	DN40	150	110	88	21	18x4
	DN50	165	125	102	21	18x4	DN50	165	125	102	23	18x4
	PN40	①	②	③	④	⑤	PN64	①	②	③	④	⑤
	DN15	95	65	45	19	14x4	DN15	105	75	45	23	14x4
	DN20	105	75	58	21	14x4	DN20	-	-	-	-	-
	DN25	115	85	68	21	14x4	DN25	140	100	68	27	18x4
	DN32	140	100	78	21	18x4	DN32	155	110	78	27	22x4
	DN40	150	110	88	21	18x4	DN40	170	125	88	29	22x4
DN50	165	125	102	23	18x4	DN50	180	135	102	29	22x4	

DIN reference table								
DIN 2527	DN15	DN20	DN25	DN32	DN40	DN50	DN80	DN100
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"

Screw reference table (mm)					
⑤	11	14	18	22/23	26
Screw	M10	M12	M16	M20	M27



# rsIMAC

*Elementos For Manufacturing Processes*



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