

ANNEXURE-B1

Specification for Pressure Gauges

Instruction to the vendor

1. Vendor must mark in purchaser's technical specification sheet (Annexure - B1) point wise whether the point is accepted or not in the relevant positions against each point (by marking 'A' for accepted or 'N/A' for not accepted) and return back the specification sheet duly signed along with the offer . If any part is not acceptable or there is any deviation, complete description shall be given in a separate sheet as 'deviation list', where the deviations shall be necessarily explained point wise.

2. Vendor to quote optional items also along with PG Wherever option requirement is mentioned as YES in the spec sheet .

3. Relevant complete technical literature has to be enclosed for every offered model.

4. All the specifications must be necessarily filled in. Any point left out is deemed as not accepted without any reason thereof.

SL	SPECIFICATION	REQUIREMENT	VENDOR RESPONSE	
			A	NA
	Make	vendor to Specify		
	Model	vendor to Specify		
1	Type	Pressure Gauge		
2	Dial Colour :	White with Black markings		
3	Case Material	SS304 with 1mm Thickness		
4	Bezel Ring	SS304 Bayonet Type		
5	Pointer Material	Aluminium		
6	Colour	Black		
7	Stop Pin	Yes		
8	Window Material	Shatter proof Glass		
9	Enclosure	Weatherproof to IP68		
10	Pressure Element :	Bourdon- seamless tube & capsule		
11	Element Material	SS-316L		
12	Socket Material	SS-316		
13	Accuracy	+/-1% of span or Better		
14	Zero adjustment	Micrometer adjustable pointer with gear arrangement		
15	Movement	SS-304		
16	Liquid Fill	Not Applicable		
17	Diaphragm Seal	Not Applicable		
18	Over Range Protection	125% of FSD		
19	Blow Out Protection :	Required		
20	Options : a) Snubber	Not Required		
	b) Syphon	Not Required		
	c) Gauge saver	Not Required		
	d) Liquid filled capillary	Not Applicable		
	e) Vacuum Protection	Not Applicable		
21	Certificates & Approvals			
	a) Calibration Certificate	Required		
	b) Test Certificate as per EN837-1	Required		

			VENDOR RESPONSE	
S NO.	DESCRIPTION	Material code	A	NA
1	PRESSURE GAUGE, RANGE: (-1)-1.5 KG/CM2, DIAL SIZE:150mm, MOUNTING: PANEL MOUNTED, CONNECTION LOCATION: BACK, CONNECTION SIZE: 1/2"NPTM	8001011993		
2	PRESSURE GAUGE, RANGE: 0-6 KG/CM2, DIAL SIZE:40mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/4"NPTM	8001012003		
3	PRESSURE GAUGE, RANGE: 0-6 KG/CM2, DIAL SIZE:40mm, MOUNTING: PANEL MOUNTED, CONNECTION LOCATION: BACK, CONNECTION SIZE: 1/4"NPTM	8001012013		
4	PRESSURE GAUGE, RANGE: 0-10 KG/CM2, DIAL SIZE:40mm, MOUNTING: PANEL MOUNTED, CONNECTION LOCATION: BACK, CONNECTION SIZE: 1/4"NPTM	8001012133		
5	PRESSURE GAUGE, RANGE: 0-16 KG/CM2, DIAL SIZE:150mm, MOUNTING: PANEL MOUNTED, CONNECTION LOCATION: BACK, CONNECTION SIZE: 1/2"NPTM	8001012023		

S NO.	DESCRIPTION	Material code	A	NA
6	PRESSURE GAUGE, RANGE: 0-25 KG/CM2, DIAL SIZE:40mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/4"NPTM	8001012063		
7	PRESSURE GAUGE, RANGE: 0-160 KG/CM2, DIAL SIZE:150mm, MOUNTING: PANEL MOUNTED, CONNECTION LOCATION: BACK, CONNECTION SIZE: 1/2"NPTM	8001012093		
8	PRESSURE GAUGE, RANGE: 0-300 KG/CM2, DIAL SIZE:150mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2"NPTM	8001012123		

ANNEXURE-B2

Specification for Pressure Gauges

Instruction to the vendor

1. Vendor must mark in purchaser's technical specification sheet (Annexure - B2) point wise whether the point is accepted or not in the relevant positions against each point (by marking 'A' for accepted or 'N/A' for not accepted) and return back the specification sheet duly signed along with the offer . If any part is not acceptable or there is any deviation, complete description shall be given in a separate sheet as 'deviation list', where the deviations shall be necessarily explained point wise.

2. Vendor to quote optional items also along with PG Whereever option requirement is mentioned as YES in the spec sheet .

3. Relevant complete technical literature has to be enclosed for every offered model.

4. All the specifications must be necessarily filled in. Any point left out is deemed as not accepted without any reason thereof.

SL	SPECIFICATION	REQUIREMENT	VENDOR RESPONSE	
			A	NA
	Make	vendor to Specify		
	Model	vendor to Specify		
1	Type	Pressure Gauge		
2	Color :	White with Black markings		
3	Case Material	SS304 with 1mm Thickness		
4	Bezel Ring	SS304 Bayonet Type		
5	Pointer Material	Aluminium		
6	Colour	Black		
7	Stop Pin	Yes		
8	Window Material	Shatter proof Glass		
9	Enclosure	Weatherproof to IP68		
10	Pressure Element :	Bourdon- seamless tube & capsule		
11	Element Material	SS-316L		
12	Socket Material	SS-316		
13	Accuracy	+/-1% of span or Better		
14	Zero adjustment	Micrometer adjustable pointer with gear arrangement		
15	Movement	SS-304		
16	Liquid Fill	Glycerine 99.7%		
17	Diaphragm Seal	Not Applicable		
18	Over Range Protection	125% OF FSD		
19	Blow Out Protection :	Required		
20	Options : a) Snubber	Not Required		
	b) Syphon	Not Required		
	c) Gauge saver	Not Required		
	d) Liquid filled capillary	Not Applicable		
	e) Vacuum Protection	Not Applicable		
21	Certificates & Approvals			
	a) Calibration Certificate	Required		
	b) Test Certificate as per EN837-1	Required		

SI NO.	DESCRIPTION	Material code	VENDOR RESPONSE	
			A	NA
1	PRESSURE GAUGE, RANGE: 0-1500MMWC, DIAL SIZE: 160mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2"NPTM	8001011893		
2	PRESSURE GAUGE, RANGE: 0-3000MMWC, DIAL SIZE: 160mm, MOUNTING: PANEL MOUNTED, CONNECTION LOCATION: BACK, CONNECTION SIZE: 1/2"NPTM	8001011903		
3	PRESSURE GAUGE, RANGE: 0-3000MMWC, DIAL SIZE: 160mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2"NPTM	8001011913		
4	PRESSURE GAUGE, RANGE: 0-6000MMWC, DIAL SIZE: 160mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2"NPTM	8001011923		

SI NO.	DESCRIPTION	Material code	A	NA
5	PRESSURE GAUGE, RANGE: (-1)-1.5 KG/CM2, DIAL SIZE:150mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2"NPTM	8001011933		
6	PRESSURE GAUGE, RANGE: 0-6 KG/CM2, DIAL SIZE:100mm, MOUNTING: PANEL MOUNTED, CONNECTION LOCATION: BACK, CONNECTION SIZE: 1/2"NPTM	8001011943		
7	PRESSURE GAUGE, RANGE: 0-6 KG/CM2, DIAL SIZE:150mm, MOUNTING: PANEL MOUNTED, CONNECTION LOCATION: BACK, CONNECTION SIZE: 1/2"NPTM	8001011953		
8	PRESSURE GAUGE, RANGE: 0-6 KG/CM2, DIAL SIZE: 160mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2"NPTM	8001011963		
9	PRESSURE GAUGE, RANGE: (-1)-6 KG/CM2, DIAL SIZE: 150mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2"NPTM	8001011973		
10	PRESSURE GAUGE, RANGE: 0-10 KG/CM2, DIAL SIZE: 150mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2"NPTM	8001011983		
11	PRESSURE GAUGE, RANGE: (-1)-16 KG/CM2, DIAL SIZE:150mm, MOUNTING: PANEL MOUNTED, CONNECTION LOCATION: BACK, CONNECTION SIZE: 1/2"NPTM	8001012033		
12	PRESSURE GAUGE, RANGE: 0-25 KG/CM2, DIAL SIZE:100mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2"NPTM	8001012043		
13	PRESSURE GAUGE, RANGE: 0-60 KG/CM2, DIAL SIZE: 160mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2"NPTM	8001012053		
14	PRESSURE GAUGE, RANGE: 0-60 KG/CM2, DIAL SIZE: 150mm, MOUNTING: PANEL MOUNTED, CONNECTION LOCATION: BACK, CONNECTION SIZE: 1/2"NPTM	8001012073		
15	PRESSURE GAUGE, RANGE: 0-100 KG/CM2, DIAL SIZE: 150mm, MOUNTING: PANEL MOUNTED, CONNECTION LOCATION: BACK, CONNECTION SIZE: 1/2"NPTM	8001012083		
16	PRESSURE GAUGE, RANGE: 0-200 KG/CM2, DIAL SIZE: 150mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2"NPTM	8001012103		
17	PRESSURE GAUGE, RANGE: 0-250 KG/CM2,,150mm, MOUNTING:PANEL MOUNTED, CONNECTION LOCATION: BACK, CONNECTION SIZE: 1/2"NPTM	8001012113		
18	DIFFERENTIAL PRESSURE GAUGE, RANGE: 0-10 KG/CM2, DIAL SIZE: 150mm, MOUNTING: PANEL MOUNTED, CONNECTION LOCATION: BACK, CONNECTION SIZE: 1/2"NPTM	8008030123		

ANNEXURE-B3

Specification for Differential Pressure Gauges

Instruction to the vendor

1. Vendor must mark in purchaser's technical specification sheet (Annexure - B3) point wise whether the point is accepted or not in the relevant positions against each point (by marking 'A' for accepted or 'N/A' for not accepted) and return back the specification sheet duly signed along with the offer . If any part is not acceptable or there is any deviation, complete description shall be given in a separate sheet as 'deviation list', where the deviations shall be necessarily explained point wise.

2. Vendor to quote optional items also along with DPG Whereever option requirement is mentioned as YES in the spec sheet .

3. Relevant complete technical literature has to be enclosed for every offered model.

4. All the specifications must be necessarily filled in. Any point left out is deemed as not accepted without any reason thereof.

SL	SPECIFICATION	REQUIREMENT	VENDOR RESPONSE	
			A	NA
	Make	vendor to Specify		
	Model	vendor to Specify		
1	Type	Differential Pressure Gauge		
2	Color :	White with Black markings		
3	Case Material	SS304 with 1mm Thickness		
4	Bezel Ring	SS304 Bayonet Type		
5	Pointer Material	Aluminium		
6	Colour	Black		
7	Stop Pin	Yes		
8	Window Material	Shatter proof Glass		
9	Enclosure	Weatherproof to IP68		
10	Pressure Element :	Bourdon- seamless tube & capsule		
11	Element Material	SS-316L		
12	Socket Material	SS-316		
13	Accuracy	+/-1% of span or Better		
14	Zero adjustment	Micrometer adjustable pointer with gear arrangement		
15	Movement	SS-304		
16	Liquid Fill	Glycerine 99.7%		
17	Diaphragm Seal	Not Applicable		
18	Over Range Protection	125% OF FSD		
19	Blow Out Protection :	Required		
20	Options : a) Snubber	Not Required		
	b) Syphon	Not Required		
	c) Gauge saver	Not Required		
	d) Liquid filled capillary	Not Applicable		
	e) Vacuum Protection	Not Applicable		
21	Max. static pressure	40kg/cm ²		
22	Element chamber filling	Silicon oil		
23	Case gasket	Neoprene		
24	Diaphragm sealing gasket	Viton		
25	Gauge feature	Single side static pressure (mwp) sustainable		
26	Certificates & Approvals			
	a) Calibration Certificate	Required		
	b) Test Certificate as per EN837-1	Required		

			VENDOR RESPONSE	
S NO.	DESCRIPTION	Material code	A	NA
1	DIFFERENTIAL PRESSURE GAUGE, RANGE: 0-10 KG/CM ² , DIAL SIZE: 160mm, MOUNTING: DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2" NPTM	8008030133		
2	DIFFERENTIAL PRESSURE GAUGE, RANGE: 0-3 KG/CM ² , DIAL SIZE: 150mm, MOUNTING: PANEL MOUNTED, CONNECTION LOCATION: BACK, CONNECTION SIZE: 1/2" NPTM	8008030153		

S NO.	DESCRIPTION	Material code	A	NA
3	DIFFERENTIAL PRESSURE GAUGE, RANGE: 0-3 KG/CM2, DIAL SIZE:160mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2"NPTM	8008030163		

ANNEXURE-B4

Specification for Differential Pressure Gauges

Instruction to the vendor

1. Vendor must mark in purchaser's technical specification sheet (Annexure - B4) point wise whether the point is accepted or not in the relevant positions against each point (by marking 'A' for accepted or 'N/A' for not accepted) and return back the specification sheet duly signed along with the offer . If any part is not acceptable or there is any deviation, complete description shall be given in a separate sheet as 'deviation list', where the deviations shall be necessarily explained point wise.

2. Vendor to quote optional items also along with DPG Whereever option requirement is mentioned as YES in the spec sheet .

3. Relevant complete technical literature has to be enclosed for every offered model.

4. All the specifications must be necessarily filled in. Any point left out is deemed as not accepted without any reason thereof.

SL	SPECIFICATION	REQUIREMENT	VENDOR RESPONSE	
			A	NA
	Make	vendor to Specify		
	Model	vendor to Specify		
1	Type	Differential Pressure Gauge		
2	Color :	White with Black markings		
3	Case Material	SS304 with 1mm Thickness		
4	Bezel Ring	SS304 Bayonet Type		
5	Pointer Material	Aluminium		
6	Colour	Black		
7	Stop Pin	Yes		
8	Window Material	Shatter proof Glass		
9	Enclosure	Weatherproof to IP68		
10	Pressure Element :	Diaphragm		
11	Element Material	SS-316L		
12	Socket Material	SS-316		
13	Accuracy	+/-1% of span or Better		
14	Zero adjustment	Micrometer adjustable pointer with gear arrangement		
15	Movement	SS-304		
16	Liquid Fill	Glycerine 99.7%		
17	Diaphragm Seal	Not Applicable		
18	Over Range Protection	125% OF FSD		
19	Blow Out Protection :	Required		
20	Options : a) Snubber	Not Required		
	b) Syphon	Not Required		
	c) Gauge saver	Not Required		
	d) Liquid filled capillary	Not Applicable		
	e) Vacuum Protection	Not Applicable		
21	Max. static pressure	40kg/cm ²		
22	Element chamber filling	Silicon oil		
23	Case gasket	Neoprene		
24	Diaphragm sealing gasket	Viton		
25	Gauge feature	Single side static pressure (mwp) sustainable		
26	Certificates & Approvals			
	a) Calibration Certificate	Required		
	b) Test Certificate as per EN837-3	Required		

			VENDOR RESPONSE	
S NO.	DESCRIPTION	Material code	A	NA
1	DIFFERENTIAL PRESSURE GAUGE, RANGE: 0-2500MMWC, DIAL SIZE:150mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2"NPTM	8008030143		
2	DIFFERENTIAL PRESSURE GAUGE, RANGE: 0-1200mmWC, DIAL SIZE:150mm, MOUNTING:DIRECT MOUNTED, CONNECTION LOCATION: BOTTOM, CONNECTION SIZE: 1/2"NPTM	8008030173		