

DATA SHEET-PRESSURE GAUGE


UNITS: Flow<-> Liquid- m³/hr Gas- Sm³/hr Steam- kg/hr Pressure-> kg/cm² G Temperature<-> °C Level/Length<-> mm

1 Type:- Direct	15 Diaphragm Seal:- --
2 Mounting:- Local	Type:- --
3 Dial Size:- 150 mm	Wetted Parts Material:- --
Colour:- White with black inscriptions	Others Material:- --
4 Case Material:- SS316	Process Connection: Size & Rating --
5 Bezel Ring:- Beyonet type SS316/Screwed	Facing & Finish:- --
6 Window Material:- Shatterproof glass	Capillary Material:- --
7 Enclosure:- WP to IP 65 as per IEC 60529 / IS 2147	Armour - Flexible Material:- --
8 Pressure Element:- Bourdon	Capillary Length:- --
9 Element Material:- SS316	Flushing/Filling connection with:- --
10 Socket Material SS316	16 Over Range Protection:- 130% of FSD
11 Accuracy:- +/-1% of FSD	17 Blow Out Protection:- Yes
12 Zero adjustment:- Micropointer	18 Options :-
13 Connection:- 1/2" NPT(M)	a) Snubber
Connection Location:- Bottom	b) Syphon c) Gauge Saver
14 Movement:- SS316	d) Liquid Filled casing e) Vacuum Protection
	f) Solid front
	g) Two valve manifold Yes
	19 Quantity :- *

SL. NO.	TAG NO.	RANGE	PRESSURE kg/cm ²			TEMPERATURE °C			SERVICE	OPTIONS
			OP.	MAX.	DES.	MIN	MAX	DES.		
	*	*	0-40	-	49	-	65	-	Natural Gas	e,f,g

NOTES:
 *1 Venodr to furnish
 1 Since the natural gas is saturated with water and has corrosive constituents CO2-2.08%, the wetted parts of the instruments shall be suitable for that accordingly.
 2 Vendor shall furnish Make and Model No. with product catalogues along with the offer.
 3 Above data-sheet is typical for all Pressure Gauges used in the respective P&ID.Vendor shall submit the individual data sheet of each pressure gauge .
 4 Make of the PG shall be Waree / A N Instruments / General Instruments.

DEVIATION NO DEVIATION VENDOR'S SIGNATURE WITH SEAL

DATE	REV	BY	CHK	APP	REMARKS	 <p>INSPIRO QUALITY ENGINEERING</p>	DATA SHEET FOR PRESSURE GAUGE
18.06.2018	0	PK	MD	AD			



**LIST OF RECOMMENDED VENDORS FOR
BOUGHT OUT ITEMS**

TOTAL SHEETS

29

DOCUMENT NO

VCS

VL

001

**LIST OF RECOMMENDED VENDORS FOR
BOUGHT OUT ITEMS**



**LIST OF RECOMMENDED VENDORS FOR
BOUGHT OUT ITEMS**

Document No.

Rev

VCS-VL-001

01

Page 2

INDEX

1.	Mechanical & Fire Fighting Equipment.....	3
2.	Civil & Structure.....	19
3.	Electrical.....	20
4.	Instrumentation.....	23
5.	Shop & Field Painting.....	28



**LIST OF RECOMMENDED VENDORS FOR
BOUGHT OUT ITEMS**

Document No.

Rev

VCS-VL-001

01

Page 3

MECHANICAL & FIRE FIGHTING EQUIPMENT

i) Pipe Carbon Steel To Indian Standards

1. A.S.T. Pipes Pvt. Ltd. (AST Group)
2. Advance Steel Tube Ltd.
3. Apl Apollo Tubes Ltd. (Er. Bihar Tubes Ltd.)
4. Asian Mills Pvt. Ltd.
5. Asrani Tubes Limited
6. Dadu Pipes (P) Ltd.
7. Essar Steel Limited (Er Hazira Pipes Mill)
8. Gaurang Products Pvt Ltd. (Ast Group)
9. Goodluck Steel Tubes Ltd.
10. Hi-Tech Pipes Limited
11. Indus Tube Limited
12. Jindal Industries Ltd
13. Jindal Pipes Ltd.
14. Jindal Saw Ltd (Kosi Works)
15. Jotindra Steel & Tube Ltd
16. Lalit Pipes And Pipes Ltd.
17. Maharashtra Seamless Ltd.
18. Man Industries (India) Ltd. – Pithampur
19. Man Industries (India) Ltd. Anjar
20. Mukat Tanks & Vessels Ltd.
21. Nezone Tubes Limited
22. North Eastern Tubes Limited
23. Pratibha Industries Limited
24. Pratibha Pipes & Structural Ltd.
25. Psl Ltd (Chennai)
26. Psl Ltd (V1, V2 & Nc)
27. Rama Steel Tubes Ltd.
28. Ratnamani Metals And Tubes Ltd.
29. Ravindra Tubes Limited
30. Samshi Pipe Industries Limited
31. Surya Roshni Ltd.
32. Swastik Pipes Ltd.



**LIST OF RECOMMENDED VENDORS FOR
BOUGHT OUT ITEMS**

Document No.

Rev

VCS-VL-001

01

Page 4

33. Utkarsh Tubes & Pipes Ltd. (Formly Bmw)
34. Welspun Corp. Limited (Dahej)
35. Zenith Birla (India) Limited

ii) Pipe & Tubulars To A.P.I. Standards

1. Arcelormittal Tubular Products Roman Sa, Romania
2. Bhel (Trichy), India
3. Dalmine Spa (Enquiry To Tenaris), UAE
4. Eewkorea Co. Ltd (Germany), Korea
5. Eew Korea Co. Ltd. (Korea), Korea
6. Eisenbau Kramer GmbH, Germany
7. Hyundai Rb Co. Ltd. South Korea
8. Ilva Lamiere E Tubi Srl (Enq To Ilva Spa, Italy)
9. Inox Tech. Spa, Italy
10. Ismt Ltd. Ahmedngr, India
11. Ismt Ltd. Baramati, India
12. Jindal Pipes Ltd., India
13. Jindal Saw Ltd. (Kosi Works), India
14. Jindal Saw Ltd. (Nashik Works), India
15. Lalit Pipes And Pipes Ltd. India
16. Maharashtra Seamless Ltd., India
17. Man Industries (I) Ltd. (Pithampur), India
18. Mukat Tanks & Vessels Ltd., India
19. Pratibha Industries Limited, India
20. Ratnamani Metals And Tubes Ltd., India
21. Siderca S.A.I.C (Enquiry Totenaris), UAE
22. Sumitomo Metal Ind. Ltd., India
23. Surya Roshni Ltd., India
24. Swastik Pipes Ltd, India
25. Tata Steel UK Limited (Formerly C702)
26. Tubos De Acero De Mexico Sa (Enq. Tenaris), UAE
27. Tubos Reunidos Sa Spain
28. Umran Steel Pipe Inc (Turkey), Turkey
29. Valcovny Trub Chomutov, Czech Republic
30. Vallourec And Mannesmann Tubes, France



**LIST OF RECOMMENDED VENDORS FOR
BOUGHT OUT ITEMS**

Document No.

Rev

VCS-VL-001

01

Page 5

31. Welspun Corp Limited (Dahej), India

iii) Pipe/Tube CS (Seamless) To ASTM Stds

1. Arcelormittal Tubular Products Roman Sa, Romania
2. Bhel (Trichy), India
3. Changshu Seamless Steel Tube Co. Ltd., China
4. Dalmine Spa (Enquiry To Tenaris), UAE
5. Heavy Metals & Tubes Limited (Mehsana), India
6. Ismt Ltd. Ahmedngr, India
7. Ismt Ltd. Baramati India
8. Jfe Steel Corporation, UAE
9. Jindal Sdaw Ltd (Nashik Works) India
10. Klt Automotive And Tubular Products Ltd., India
11. Mahalaxmi Seamless Limited, India
12. Maharashtra Seamless Ltd, India
13. Products Tubulares S.A.U, Spain
14. Ratnadeep Metal Tubes Ltd., India
15. Staineest Tubes Pvt Ltd., India
16. Sumitomo Metal Ind. Ltd., India
17. Tubos Reunidos Sa Spain
18. Valcovny Trub Chomutov, Czech Republic
19. Vallourec Andmannesmann Tubes France
20. Yangzhou Chengde Steel Pipe Co. Ltd Dubai (UAE)

iv) Pipe Carbon Steel (Welded) To ASTM Stds

1. Eew Korea Co. Ltd. (Germany), Korea
2. Eew Korea Co. Ltd. (Korea), Korea
3. Eisenbau Kramer Gmbh, Germany
4. Hyundai Rb Co. Ltd., South Korea
5. Inox Tech. Spa, Italy
6. Jindal Saw Ltd (Kosi Works), India
7. Lalit Pipes and Pipes Ltd., India
8. Man Industries (I) Ltd. (Pithampur), India
9. Man Industries (India) Ltd. Anjar, India
10. Mukat Tanks & Vessels Ltd., India



**LIST OF RECOMMENDED VENDORS FOR
BOUGHT OUT ITEMS**

Document No.

Rev

VCS-VL-001

01

Page 6

11. Ratnamani Metals And Tubes Ltd., India
12. Sumitomo Metal India Ltd., India
13. Tata Steel Uk Limited

v) Valve

a) Globe Valves

1. Datre Corpn (Calcutta)
2. BDK (New Delhi)
3. KSB Pumps (New Delhi)
4. L&T (New Delhi)
5. Neco Schuber & Salzer Ltd. (New Delhi)
6. Niton Valve (Mumbai)
7. Ornate Valves (Mumbai)
8. Panchavati Valves (Mumbai)
9. AV Valves Ltd.
10. BHEL (Trichy), India
11. Econo Valves Pvt Ltd, India
12. Fouress Engg (I) Ltd (Aurangabad)
13. Guru Industrial Valves Pvt Ltd
14. Leader Valves Ltd, India
15. NSSL Ltd. (Neco Schubert & Salzerltd)
16. Oswal Industries Ltd, India
17. Petrochemical Engineering Enterprises, India
18. Sakhi Engineers Pvt Ltd
19. Shalimar Valves Pvt Ltd
20. Steel Strong Valves India Pvt Ltd, India
21. Petro Valves Pvt. Limited, Ahmedabad
22. Hawa Engineers Limited, Ahmedabad
23. JC Valvulas India Pvt Ltd (JCVIPL)

b) Check Valves

1. Advance Valves Pvt. Ltd., Noida
2. Aksons & Mechanical Enterprises, Mumbai
3. Larsen & Toubro Limited (M/s Audco India Limited, Chennai)



**LIST OF RECOMMENDED VENDORS FOR
BOUGHT OUT ITEMS**

Document No.

Rev

VCS-VL-001

01

Page 7

4. AV valves Ltd., Agra
5. BDK engineering India Ltd., Hubli
6. BHEL, OFE&OE Group, New Delhi
7. Datre Coroportion Limited, Calcutta
8. Leader Valves Ltd., Jalandhar
9. Neco schubert &Salzer Ltd., New Delhi
10. Niton Valves Industries (P) Ltd., Mumbai
11. Precision Engg.Co., Mumbai
12. Econo Valves Pvt Ltd, India
13. Fouress Engg (I) Ltd (Aurangabad)
14. KSB Pumps Ltd (Coimbatore), India
15. NSSL Ltd. (Neco Schubert & SalzerLtd)
16. Oswal Industries Ltd, India
17. Panchvati Valves & Flanges Pvt Ltd, India
18. Petrochemical Engineering Enterprises, India
19. Sakhi Engineers Pvt Ltd
20. Shalimar Valves Pvt Ltd
21. Steel Strong Valves India Pvt Ltd, India
22. Hawa Engineers Limited, Ahmedabad

c) Plug Valves

1. Breda Energia Sesto Industria Spa, Italy
2. Fisher Sanmar Ltd., Chennai
3. Larsen & Toubro Ltd., New Delhi
4. Nordstrom Valves, USA
5. Serck Audco Valves, UK
6. Sumitomo Corporation India Pvt. Ltd., New Delhi
7. Z Corporation, Korea
8. Hawa Valves (India) Pvt. Ltd., Mumbai
9. Steel Strong Valves India Pvt. Ltd., Navi Mumbai
10. Econo Valves
11. Flow-Serve PTE (Mfr. SERCK), India

d) Ball Valves

1. Hawa Valves (India) Pvt. Ltd, Navi Mumbai



LIST OF RECOMMENDED VENDORS FOR BOUGHT OUT ITEMS

Document No.

Rev

VCS-VL-001

01

Page 8

2. Larsen & Toubro, Delhi
3. Microfinish Valves Pvt. Ltd., Noida
4. Oswal Industries Ltd., Gandhi nagar
5. Virgo Engineers Ltd., Delhi
6. Boteli Valve Group Co. Ltd., China
7. Cameron (Malaysia) SDN BHD, Malaysia
8. Dafram S.P.A., Italy
9. Fangyuan Valve Group Co. Ltd., China
10. Franz Schuck GmbH, Germany
11. O.M.S. Saleri (Italy)
12. Pibi Viesse S.P.A (Italy)
13. Nuovo Pignone (Italy)
14. Perar S.P.A (Italy)
15. Pietro Fiorentini (Italy)
16. Cooper Cameron Valv Italy SRL-FRM, Italy
17. Petrol Valves SRL
18. Tormene Gas Technology S.P.A (VALVITALIA)
19. Petro Valves Pvt. Limited, Ahmedabad
20. Hawa Engineers Limited, Ahmedabad
21. JC VALVULAS INDIA PVT LTD

vi) Flow Tee

1. Coprosider SPA, Italy
2. GEA Energy System India Limited, Chennai
3. Multitex Filtration
4. Pipeline Engineering, UK
5. Scomark Engg. Limited (U.K.)
6. Skeltonhall Limited, England (U.K.)
7. Technospecial SPA, Italy
8. Tectubi SPA, Italy
9. RMA Germany
10. Pipefit Engineers Pvt. Ltd.

vii) Split Tee

- 1) Ipsco, Canada
- 2) TD Willamsons, USA



**LIST OF RECOMMENDED VENDORS FOR
BOUGHT OUT ITEMS**

Document No.

Rev

VCS-VL-001

01

Page 9

viii) Flanges

1. Aditya Forge Ltd., Vadodara
2. Amforge Industries Ltd., Mumbai
3. CD Engineering Co., Ghaziabad
4. Echjay Forgings Pvt. Ltd. (Bombay), Mumbai
5. Echjay Industries Ltd., Rajkot
6. Forge & Forge Pvt. Ltd., Rajkot
7. Golden Iron & Steel Works, New Delhi
8. JK Forgings, New Delhi
9. Metal Forgings Pvt. Ltd., Mumbai
10. Perfect Marketings Pvt. Ltd., New Delhi
11. Sky Forge, Faridabad
12. S&G, Faridabad
13. Chaudhry Hammer Works Ltd, India
14. JAV Forgings (P) Ltd, India
15. Kunj Forgings Pvt Ltd, India
16. MS Fittings
17. R.N. Gupta & Co. Ltd, India
18. R.P. Engineering Pvt Ltd, India
19. Sanghvi Forgings & Engineering Ltd
20. Shri Ganesh Forgings Ltd., India
21. Uma Shankar Khandelwal & Co., India
22. Sawan Engineers, Baroda
23. Stewarts & Lloyds of India Ltd., Kolkata
24. Engineering Services Enterprises
25. Pipefit Engineers Pvt. Ltd.
26. Vivial Forge Pvt. Ltd.
27. Anandmayee Forgings Pvt. Ltd, Sahibabad (UP to 10"-300#)
28. United Forge Private Limited
29. Lal Metal
30. Jai Auto Pvt.Ltd, Ghaziabad