



## HIGH PRESSURE VALVES AND FITTINGS

*"More than 1 Lakh fittings in Operations across the Globe till 2021"*





## *Manufacturer high pressure valves, fittings and valve parts*

- ❑ PHOENIX INDUSTRIES is engaged and has expertise in the business of manufacturing High-Pressure Valves Fittings, Precision Machined Components, and Sub-Assemblies with a commitment to set up Increasingly Stiff Demands on Performance and Reliability.
- ❑ We accept the challenging task by introducing the latest technologies to ensure the supply of production, final inspection, reliable testing at normal and extreme conditions.
- ❑ We Deliver higher class of Traceability through ERP.
- ❑ We can Cater to general and custom requirements with the enormous range of Industrial Valve Stainless Steel Fittings to any industrial field Petrochemicals, Chemicals, Power, Paper Pulp, Sugar Production, etc.
- ❑ We Believe in total satisfaction of the customers with mutual understanding and lasting trust. We therefore incessantly strive to provide our customers the highest quality standards.
- ❑ An ISO 9001:2015 Certified Company.
- ❑ We are Capable to Meet API & PED certification compliance.
- ❑ EN10204 TYPE 3.1 Certifications.
- ❑ Competitive Base costing.
- ❑ Advance precision manufacturing facility to meet global quality norms.
- ❑ Advance designing software's Solid works, Nx Siemens ,AutoCAD
- ❑ We cater any volume starts from 5 pcs to Bulk.
- ❑ We Provide Customized designed products.

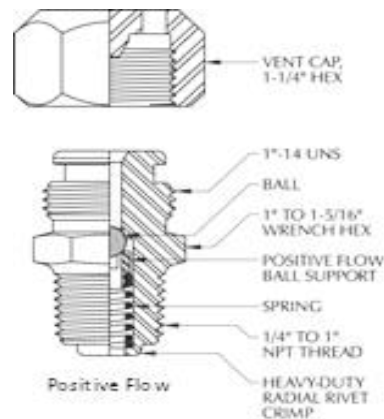
## VENT CAP SEALANT INJECTION /GREASE FITTING



Sr No	Part Description	Material	Bill Of Material				
			Body	Cap	Retainer	Ball	Spring
1	BGF / Sealant Injector	A -105	A -105	A - 105	A - 105	TC	Inconel X 750
2	BGF / Sealant Injector	A -105	A -105	A - 105	A - 105	SS420	SS302
3	BGF / Sealant Injector	AISI 4140	AISI 4140	AISI4140	AISI4140	SS420	SS302
4	BGF / Sealant Injector	AISI 4140	AISI 4140	AISI4140	AISI4140	SS302	SS302
5	BGF / Sealant Injector	SS316	SS316	SS316	SS316	SS420	SS302
6	BGF / Sealant Injector	SS316	SS316	SS316	SS316	TC	Inconel X 750
7	BGF / Sealant Injector	SS316	SS316	SS316	SS316	K-Monel	Inconel X 750
8	BGF / Sealant Injector	Duplex F 51	Duplex F 51	Duplex F 51	Duplex F 51	TC	Inconel X 750
9	BGF / Sealant Injector	Duplex F 55	Duplex F 55	Duplex F 55	Duplex F 55	TC	Inconel X 750
10	BGF / Sealant Injector	Duplex F 53	Duplex F 53	Duplex F 53	Duplex F 53	TC	Inconel X 750
11	BGF / Sealant Injector	Duplex 32205	Duplex 32205	Duplex 32205	Duplex 32205	TC	Inconel X 750
12	BGF / Sealant Injector	Inconel 625	Inconel 625	Inconel 625	Inconel 625	TC	Inconel X 750
13	BGF / Sealant Injector	Inconel 825	Inconel 825	Inconel 825	Inconel 825	TC	Inconel X 750

- **Available in threading Sizes :** ¼"-18 NPT, ½"-14 NPT , 3/8" -18 NPT, ¼"- BSP, ½"-BSP , 3/8" – BSP.
- **Operating Pressure:** 10000 PSI.(703 kg/ sq.cm)
- **Surface Coating :** All Carbon steel Grade Zink plated –Confirms to 100+ Hrs Salts spray
  - Nitriding (QPQ) as per requirements
  - Passivation according ASTM A967,

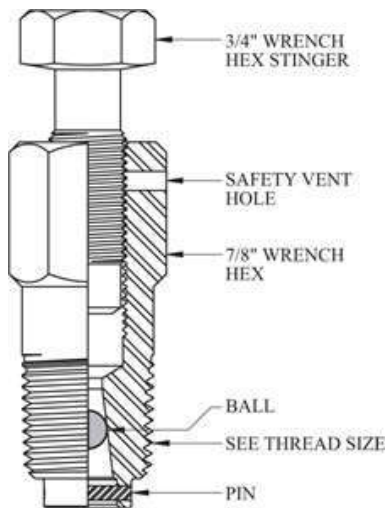
# GAINT BUTTON HEAD SEALANT INJECTION /GREASE FITTING



Sr No	Part Description	Material	Bill Of Material				
			Body	Cap	Retainer	Ball	Spring
1	Button head BGF / Sealant Injector	A - 105	A - 105	A - 105	A - 105	TC	Inconel X 750
2	Button head BGF / Sealant Injector	A - 105	A - 105	A - 105	A - 105	SS420	SS302
3	Button head BGF / Sealant Injector	AISI4140	AISI 4140	AISI4140	AISI4140	SS420	SS302
4	Button head BGF / Sealant Injector	AISI4140	AISI 4140	AISI4140	AISI4140	SS302	SS302
5	Button head BGF / Sealant Injector	SS316	SS316	SS316	SS316	SS420	SS302
6	Button head BGF / Sealant Injector	SS316	SS316	SS316	SS316	TC	Inconel X 750
7	Button head BGF / Sealant Injector	SS316	SS316	SS316	SS316	K-Monel	Inconel X 750
8	Button head BGF / Sealant Injector	Duplex F 51	Duplex F 51	Duplex F 51	Duplex F 51	TC	Inconel X 750
9	Button head BGF / Sealant Injector	Duplex F 55	Duplex F 55	Duplex F 55	Duplex F 55	TC	Inconel X 750
10	Button head BGF / Sealant Injector	Duplex F 53	Duplex F 53	Duplex F 53	Duplex F 53	TC	Inconel X 750
11	Button head BGF / Sealant Injector	Duplex 32205	Duplex 32205	Duplex 32205	Duplex 32205	TC	Inconel X 750
12	Button head BGF / Sealant Injector	Inconel 625	Inconel 625	Inconel 625	Inconel 625	TC	Inconel X 750
13	Button head BGF / Sealant Injector	Inconel 825	Inconel 825	Inconel 825	Inconel 825	TC	Inconel X 750

- **Available in threading Sizes :** ¼"-18 NPT, ½"-14 NPT , 3/8" -18 NPT, ¼"- BSP, ½"-BSP , 3/8" –BSP.
- **Operating Pressure:** 10000 PSI.(703 kg/ sq.cm)
- **Surface Coating :** All Carbon steel Grade Zink plated –Confirms to 100+ Hrs Salts spray
  - Nitriding (QPQ) as per requirements
  - Passivation according ASTM A967,

## PACKING INJECTION FITTING

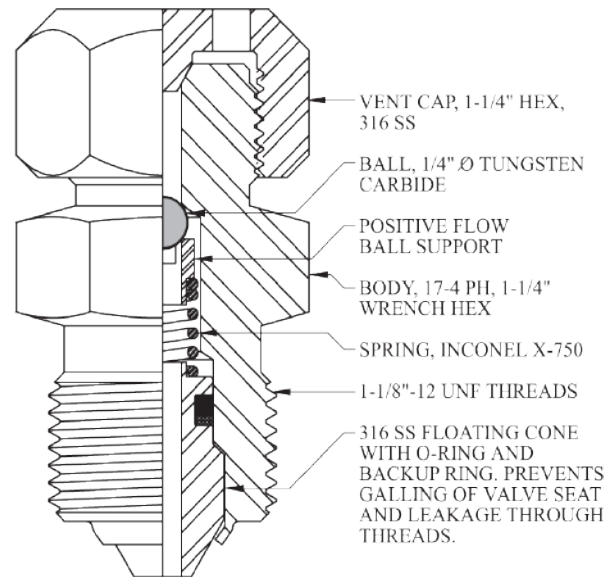


Material	Taper Threads	Non Taper Threads
AISI 4140	3/8" NPT	3/8" BSP
SS 316	3/4" NPT	3/4" BSP
Duplex	1/2" BSP	1/2" BSP
Inconel	1" NPT	1" BSP

- **Operating Pressure:** 10000 PSI.(703 kg/ sq.cm)
- **Surface Coating :** All Carbon steel Grade Zink plated –Confirms to 100+ Hrs Salts spray
  - Nitriding (QPQ) as per requirements
  - Passivation according ASTM A967,

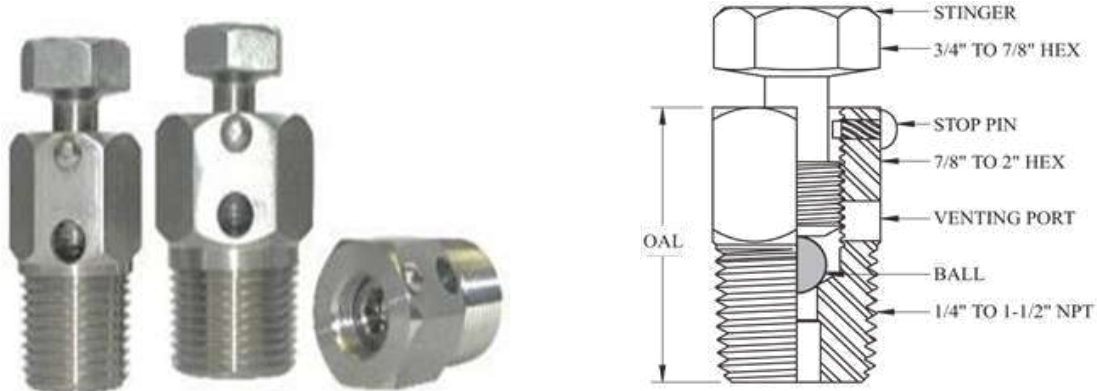


## HIGH PRESSURE AUTO CLAVE TYPE SEALANT INJECTION /GREASE FITTING



- **Available in Materials:** 4140, SS316, Duplex, Inconel .
- **Available in threading Sizes :** 1-1/8" UNF, As per customize requirements
- **Operating Pressure:** 20000PSI.
- **Surface Coating :** All Carbon steel Grade Zink plated –Confirms to 100+ Hrs Salts spray
  - Nitriding (QPQ) as per requirements
  - Passivation according ASTM A967,

## BODY VENT (BLEEDER) FITTING



Sr No	Part Description	Material	Bill Of Material			
			Body	Screw	Ball	Ball Drg No
1	Body Vent(Bleeder) Fitting	A -105	A -105	A - 105	TC	TC - 800
2	Body Vent(Bleeder) Fitting	AISI 4140	AISI 4140	AISI4140	SS420	SS420 - 800
3	Body Vent(Bleeder) Fitting	AISI 4140	AISI 4140	AISI4140	TC	TC - 800
4	Body Vent(Bleeder) Fitting	SS316	SS316	SS316	TC	TC - 800
5	Body Vent(Bleeder) Fitting	Duplex F 51	Duplex F 51	Duplex F 51	TC	TC - 800
6	Body Vent(Bleeder) Fitting	Duplex F 55	Duplex F 55	Duplex F 55	TC	TC - 800
7	Body Vent(Bleeder) Fitting	Duplex F 53	Duplex F 53	Duplex F 53	TC	TC - 800
8	Body Vent(Bleeder) Fitting	Duplex32205	Duplex32205	Duplex 32205	TC	TC - 800
9	Body Vent(Bleeder) Fitting	Inconel 625	Inconel 625	Inconel 625	TC	TC - 800
10	Body Vent(Bleeder) Fitting	Inconel 825	Inconel 825	Inconel 825	TC	TC - 800

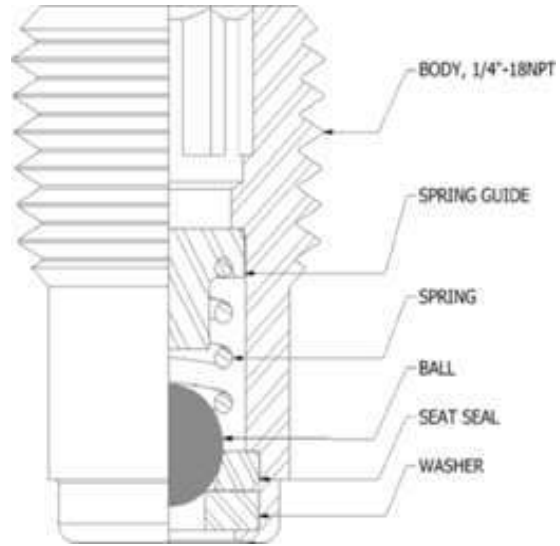
**Available in threading Sizes :** 1/4"-18 NPT, 1/2"-14 NPT , 3/8" -18 NPT, 1/4"- BSP, 1/2"-BSP , 3/8" –BSP.

**Operating Pressure:** 10000 PSI.(703 kg/ sq.cm)

**Surface Coating :** All Carbon steel Grade Zink plated –Confirms to 100+ Hrs Salts spray

- Nitriding (QPQ) as per requirements
- Passivation according ASTM A967,

# INTERNAL CHECK VALVE

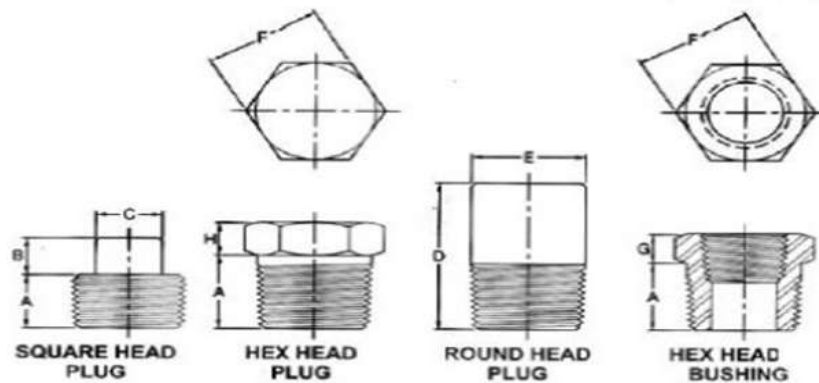


Sr No	Part Description	Material	Bill Of Material			
			Body	Retainer	Ball	Spring
1	Internal Check Valve	A -105	A -105	A - 105	420	Inconel X 750
2	Internal Check Valve	AISI 4140	AISI 4140	AISI4140	420	Inconel X 750
3	Internal Check Valve	SS316	SS316	SS316	420/TC	Inconel X 750
4	Internal Check Valve	Duplex F 51	Duplex F 51	Duplex F 51	TC	Inconel X 750
5	Internal Check Valve	Duplex F 55	Duplex F 55	Duplex F 55	TC	Inconel X 750
6	Internal Check Valve	Duplex F 53	Duplex F 53	Duplex F 53	TC	Inconel X 750
7	Internal Check Valve	Duplex32205	Duplex32205	Duplex 32205	TC	Inconel X 750
8	Internal Check Valve	Inconel 625	Inconel 625	Inconel 625	TC	Inconel X 750
9	Internal Check Valve	Inconel 825	Inconel 825	Inconel 825	TC	Inconel X 750

- **Available in threading Sizes :** 1/8" NPT, 1/4"-18 NPT,
- **Operating Pressure:** Varied pressure Range 500 to 10000 PSI. (Soft seated Hard seated )
- **Surface Coating :** All Carbon steel Grade Zink plated –Confirms to 100+ Hrs Salts spray
  - Nitriding (QPQ) as per requirements
  - Passivation according ASTM A967,



## HEX PLUGS / DRAIN PLUGS



DN	Nom. Pipe Size	Length (Min.) A	Square Head Plug		Round Head Plug		Hex. Head Plug & Bushing		
			Height of Square (Min.) B	Width Flat (Min.) C	Nominal Diameter of Head (Nom) E	Length (Min.) D	Width Flat (Nom.) F	Bushing G	Plug H
6	1/8"	10	6	7	10	35			6
8	1/4"	11	6	10	14	41	16	3	6
10	3/8"	13	8	11	18	41	18	4	8
15	1/2"	14	10	14	21	44	22	5	8
20	3/4"	16	11	16	27	44	27	6	10
25	1"	19	13	21	33	51	36	6	10
32	1-1/4"	21	14	24	43	51	46	7	14
40	1-1/2"	21	16	28	48	51	50	8	16
50	2"	22	18	32	60	64	65	9	18
65	2-1/2"	27	19	36	73	70	75	10	19
80	3"	28	21	41	89	70	90	10	21
100	4"	32	25	65	114	76	115	13	25

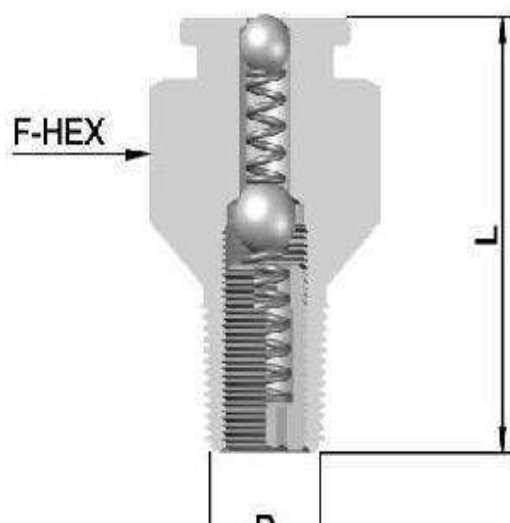
(1) Dimensions in Millimeters.

(2) CAUTIONARY NOTE REGARDING HEX BUSHINGS.

Hex head bushing of one-size reduction should not be used in services where they might be subject to harmful loads and forces other than internal pressure.

- **Available in Materials :** A -105, AISI 4140, SS316, SS304, Duplex, Inconel
- **Pressure Rating :** 15000 PSI (1054kg/sq. cm)
- **Surface Coating :** All Carbon steel Grade Zink plated –Confirms to 100+ Hrs Salts spray

## GIANT BUTTON HEAD FITTINGS



Sr No	Part Description	Material	Bill Of Material			
			Body	Retainer	Ball	Spring
1	Giant Button Head Fitting	A -105	A -105	A - 105	420/K-Monel	Inc X 750
2	Giant Button Head Fitting	AISI 4140	AISI 4140	AISI4140	420/TC/K-Monel	Inc X 750
3	Giant Button Head Fitting	SS316	SS316	SS316	TC /K-Monel	Inc X 750
4	Giant Button Head Fitting	Duplex F 51	Duplex F 51	Duplex F 51	TC /K-Monel	Inc X 750
5	Giant Button Head Fitting	Duplex F 55	Duplex F 55	Duplex F 55	TC /K-Monel	Inc X 750
6	Giant Button Head Fitting	Duplex F 53	Duplex F 53	Duplex F 53	TC /K-Monel	Inc X 750
7	Giant Button Head Fitting	Duplex32205	Duplex32205	Duplex 32205	TC /K-Monel	Inc X 750
8	Giant Button Head Fitting	Inconel 625	Inconel 625	Inconel 625	TC /K-Monel	Inc X 750
9	Giant Button Head Fitting	Inconel 825	Inconel 825	Inconel 825	TC /K-Monel	Inc X 750

**Available in threading Sizes :** ¼"-18 NPT, ½"-14

NPT , 3/8" -18 NPT, ¼"- BSP, ½"-BSP , 3/8" – BSP.

**Operating Pressure:** 10000 PSI.(703 kg/ sq.cm)

**Surface Coating :** All Carbon steel Grade Zink plated –Confirms to 100+ Hrs Salts spray

# INSTRUMENTATION VALVES

- Needle Valves
- 2 Way Block and Bleed Manifolds
- 2 Way Manifold Valves
- 3 Way Manifold Valves
- 5 Way Manifold Valves

## FEATURES:

- ✓ OPERATING PRESSURE 6000 PSI
- ✓ OPERATION TEMP. -53°C TO 93°C WITH PTFE PACKING
- ✓ CONNECTIONS: ¼"NPT, 3/8"NPT, & ½" NPT .
- ✓ STRAIGHT PATTERN IS STANDERDS
- ✓ EVERY VALVE IS TESTED FOR LEAKAGE WITH HYDRAULIC TESTING AT 6000 PSI



# HIGH PRESSURE VALVE TRIM PARTS

## VALVE SEAT:

Manufacturers Valves seats in precision formats inserted by PTFE /PEEK seals in grooved Face.

Base steel in Different materials

**Material:** AISI4140, SS 410 & SS 316

**Sealing Material:** PTFE.

**Made for Various sizes of Valves.:** 2 1/16" to 4 1/16"

'in various forms

**Working Pressure :** 6000 to 12000 PSI.



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## STEMS:



- Manufacturers Valves stems in precision Formats for Gate valves and Butterfly Valves, Ball valves

**Material :**

- SS 304, SS 316, SS410
- 17-4 pH, Inconel, Duplex

**Dimensions:** As per customer specifications. / Drawings.

## STEM RETAINER NUT

**Manufacturers Stem Retainer Nut for Gate valves in precision Base steel in Different materials**

**Material:** AISI4140, SS410 & SS316

**Made for Various sizes of Valves.** 2 1/16" to 4- 1/16" in various forms

**Surface Treatment:** Zn plating yellow passivation.  
Phosphate coating



## UPPER SHAFT

**Manufacturers Top shaft for Actuated Valves in precision**

**Base steel in Different materials**

**Material:** SS410, SS316, 17-4 PH

**Made for Various sizes of Valves. : DX-10, DX-12 DX-15** in various forms





# PRECISION MACHINED PARTS

***Valve Guide***



***Pistons for Control Valves***



***Spools for Control Valve***



***Piston for control Valves***



***Bearing Inserts***



***Bearer Ring***



***Hub Plates***



***Retainer Nut***



***Thrust Bearing Race***



## TEAM COMES FIRST



# MANUFACTURING FACILITIES



## ❖ *CNC TURNING*

- ✓ *Best in class CNC turning centers*
- ✓ *To meet high quality standards of mfg. products*
- ✓ *In various sizes to meet wide range of products.*
- ✓ *Varying Dia 160 to Dia 350 chuck size*
- ✓ *Turning Length 200 to 800mm*

## ❖ *Vertical Machining centers*

- ✓ *High performance cnc vertical machine.*
- ✓ *Having 300 to 600mm stroke*
- ✓ *Maintained positional accuracy 0.010mm*



# MANUFACTURING FACILITIES



- ❖ *Automatic Band saws*
- ❖ *Best in class Automatic Bandsaw Machines*
- ❖ *To meet high quality standards of mfg. product*
- ❖ *Varying Dia 10 to Dia 250 mm*
- ❖ *Surface Grinding machine*
- ❖ *Conventional lathes to perform special operations*
- ❖ *Drilling machines*
- ❖ *Tapping Machines M3 to Size M20*
- ❖ *Digital Imported Marking Machine for product identification*
- ❖ *Hydraulic power press 15 ton capacity*

# INSPECTION FACILITIES

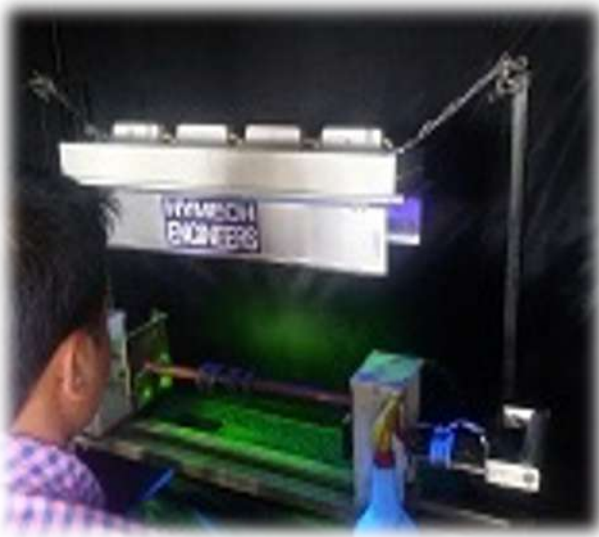


## ❖ *Measuring and Test Equipment's*

- ✓ Covered all standard instruments and Gauges
- ✓ Air Gauges to meet precise quality standards of products.
- ✓ 2 D height Masters.
- ✓ Surface Roughness tester.
- ✓ Hardness Tester

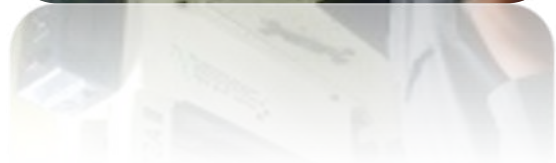


# PRODUCT TESTING FACILITIES



## ❖ *Product Testing*

- ✓ Magnetic Particle testing facility
- ✓ Facility of crack detection
- ✓ Hydro testing of Fittings
- ✓ Pneumatic Testing ranging 6kg/sq.cm
- ✓ Hydro-testing ranging 12000 psi

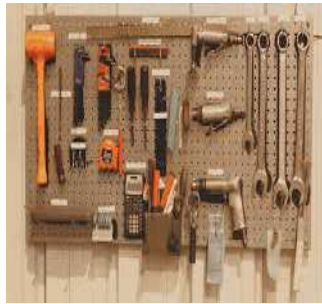


# WORK STATION

***Storage System***



***Tools Station***



***Sub Assembly station***



***Jig-Fixtures Storage***



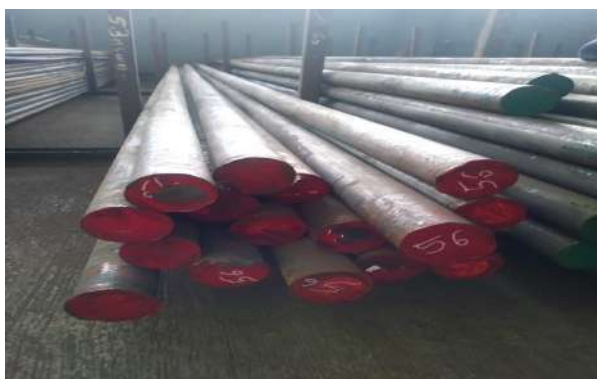
***Final Inspection***



***Dispatch Station***



***Steel Bar storage***



***Admin Office***



# ACHIEVEMENTS





## OUR VALUED CUSTOMERS



## WE WELCOME YOU ...

### Office and Work:

Plot No. D-97, Kagal-Five Star M.I.D.C.  
Kolhapur– 416 236, Maharashtra (INDIA)

### Email:

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### Website:

[www.phoenix.ind.in](http://www.phoenix.ind.in)

### Trade India:

[www.phoenixcomponent.in](http://www.phoenixcomponent.in)

### Talk to Us

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## Thank you