

II -2.2. QUALITY CONTROL & INSPECTION FACILITIES

TOTAL QUALITY PROCEDURES - TQP

VHPL has inbuilt quality control system which ensures all quality control / inspection, right from the receipt of material to the dispatch of the finished products. Salient features of the QAC are listed briefly as under:

1. At Design Stage:

- We designed our products as per DIN, SAE & IS standards that ensure high quality and ease of interchangeability.
- All products are manufactured from Bar Stock/Forged material having sufficient wall thickness to withstand recommended working pressure.
- Due to Higher factor of Safety, our products can withstand higher impulse pressure and can work under any critical condition.
- Tolerance of mating components selected in such a way to facilitate ease of assembly, interchangeability and to maintain proper alignment.

2. Selection of Raw material:

- First considering media, working pressure & temperature & other condition, suitable Raw material is selected.
- Samples of raw material are sent to TCR or Govt. approved lab for ensuring Raw material specifications.

3. Production Stage:

- Once the specification of Raw material is confirmed, sizing & machining of the material is carried out.
- During machining stage dimensional tolerance are maintained with the help of various gauges and measuring instruments.
- After machining, the components are polished and cleaned thoroughly.
- Plating process like phosphating, Electro- polishing, Silver polish etc are carried out.
- Before assembly all the finished components are once again checked dimensionally and for surface finish.

4. Assembly & Testing stage :

- After a final dimensional check, all the components are assembled.
- Pneumatic and Hydraulic testing are carried out by us for ensuring leak-proof performance of the assembled components.

5. Packing and Dispatch Stage:

- Once products are passed all the above stages, the stamping is carried out and than products are properly packed. All the threads are secured with plastic caps to restrict any foreign particles. All the products are packed in plastic bags mentioning all the required specifications and details for ease of identifications. Finally required packing is carried out and dispatched.

6 Final Inspection:

- Inspection as per Packing slip Prepared by us ,checks for all sizes are as per order & packed as per given instruction in the packing slip prepared by quality department

INSPECTION & MEASURING TOOLS AT Q/C DEPARTMENT

- Dimensional Check: Dial Vernier/Micro meter, Depth Gauge, Thread gauge, Plug & Ring gauge, Bore & Taper gauge.
- Hydraulic Test : LEAKAGE TEST & W.P TEST
With Hydraulic Hand Pump maximum Pressure 10000 PSI.
- Chemical Test: By govt. approved laboratories.
- Physical: By govt. approved laboratories
- Helium Test: Carried out by regional test center Andheri/ BARC

<u>N.T.</u>	WE ALSO PARTICIPATE FOR THIRD PARTY INSPECTION CARRIED OUT EITHER BY OUR CUSTOMERS OR BY US
--------------------	--

www.nexusengg.com