Perar design is leaded by Cad design process

Computerisation has been applied to all sector of activity: quotation and sales, designing and engineering, technology research and development, materials and production control, finished product inspection and testing.

Documentation, certificate, SPIR and procedures can be issued in electronic format. Perar’s technical Department has a full CAD design and engineering system, consisting of workstations equipped with AutoCad lastest release design software, Math Cad Proffesional for calculation notes and Finite Element Analysis (F.E.A) capability with different FE softwares (ADINA, ANSYS)

The right material for the right job

Most usual material are:
Carbon steel; Stainless steel; Duplex, super Duplex, Titanium, Incoloy, 6MO, Inconel, & Special Alloy on custom’s requirements. Perar in-house process is able to guarantee the fastest time-to-market available for such kind of special materials obtained by a proprietary process tuned by 10 years and more of R&D

Quality is assured by a global Cad-Cam System

The machining and manufacturing are is divided into two lines, one for small sizes, mainly floating valves and trunnion valves up to 16”, the second line for medium / large sizes up to 60”

Assembly phase is not the end of process but...

…but the beginning of the most important part of PERAR production process: Assembly, Welding and Testing.

Assembly area is divided into 3 lines, for small middle and large sizes. The quality is assured by the process itself that included for every group of operations a specific final functionality test.
Fully Welded ball valves

API spec 6D Ball Valves, Trunnion supported ball, forged steel, welded body construction, double piston seats sealing system, anti-static device, anti-blow out proof stem, block and bleed, vent and drain fittings, self lubricating stem and trunnion bearings to assure low operating torque throughout entire valve life, fire safe design to BS 6755 parts 2 or API 6FA or API 607. Emergency sealing system at stem and seats area, if required. Safety relieve valve in case of cavity over pressure (suggested only with Liquid Hydrocarbon).

Sub Sea ball valves

Our engineers have developed a comprehensive range of subsea valves, operators and hydraulic actuators to deliver complete tailor made packages meeting the highest subsea specifications. With a dedicated Subsea Division, internal machining, cladding, structural welding or hyperbaric testing capabilities, we are uniquely prepared to execute projects efficiently and safely, bringing you decades of subsea experience and the expertise you need to develop the most challenging fields.

Cryogenic Ball Valve

Perar has specialised in Low Temperature and Cryogenic service to the extreme temperature of minus 196 Deg C, in accordance to the most stringent specifications. Perar Ball Valves in cryogenic service are supplied with extended bonnet with a sufficient gas column length (vapour space) to keep the stem seals exposed only to vapour and not the cold liquid to ensure functional integrity. Suitable seals are selected considering the customer’s process indication. PTFE lip seal spring energised or KEL-F are commonly used.
Floating ball valves

Perar API Spec. 6D/BS 5351 Floating Ball Valves, ANSI B16.5 RF flanges ends, 2/3 pieces split body, forged steel body, side entry, anti-static device to BS 5351 anti-blow out proof stem, fire safe design to BS 6755 part 2, full or reduce bore, lever or gear operated. Perar Bare stock Floating Ball Valves, ANSI B.2.1 two pieces screwed body construction, side entry, class 600/800, 3000, 6000, anti-blow out stem, anti-static device, seat supported ball, NPT ends or socket weld ends according to ANSI B16.11, fire safe design, zinc plated body.

Split body ball valves

API spec 6D Ball Valves Trunnion supported ball, forged steel, 3 pieces split body side entry, metal to metal or soft seated sealing design self relieving spring loaded seats or double piston effect sealing system, anti-static device, anti-blow-out proof stem double block and bleed or block and bleed, venting and drain fittings, self lubricating stem and trunnion bearings to assure low operating torque throughout entire valve life, fire safe design to BS 6755 parts 2.

Top Entry Ball Valve

API spec 6D Ball Valves Trunnion supported ball, Top Entry design, cast body, bolted bonnet, metal to metal or soft seated sealing design, self relieving spring loaded seats or double piston effect sealing system, anti-static device, anti blow-out proof stem, double block and bleed or block and bleed, vent and drain fittings, self lubricating stem and trunnion bearings to assure low operating torque throughout entire valve life, fire safe design to BS 6755 parts 2. Some of these Top Entry valves are installed in vertical position, have been supplied with internal sleeves to allow the line to be flushed without damaging the valve seals while some of them are metal seated.