

13.1 Protection

- 13.1.1 The standard packing shall be suitable to protect the equipment from damage during transit and shall be suitable for storage on site in an unheated covered warehouse for 6 months or for a period not exceeding 3 months in the open providing the temperature remains within the range 4 deg to 40 deg. Centigrade.
- 13.1.2 Sufficient protection to safeguard material against handling and environmental damage that may result during transit and storage from the time it leaves the supplier's shop to receipt on site.
- 13.1.3 After inspection and test, valves shall be completely freed of test liquid, dried, and prepared for shipment.
- 13.1.4 Valves must be securely mounted and/or supported to eliminate damage during shipment, storage, maintenance and preparation for operation.
- 13.1.5 The material or equipment shall be weatherproofed to safeguard against the effects of humidity, moisture, ice, rain dust, dirt, sand, mud, salt, air, seawater, temperature extremes, and any other environmental condition that may reasonably be expected.
- 13.1.6 Austenitic stainless steels and high nickel alloy materials shall not be in contact with any substance, which contains halides.
- 13.1.7 All machined and threaded surfaces of carbon steel and ferritic alloy steel materials, except weld bevels, shall be coated with an easily removable corrosion inhibitor.
- 13.1.8 Weld bevels shall be free of dirt, oil, grease, scale, rust and other foreign materials. All weld bevels of carbon steel and ferritic alloy steel materials shall be coated, after cleaning, on the inside and outside for a distance of approximately 75mm(3 in) from the end of the weld bevel with a weldable corrosion inhibitor.
- 13.1.9 All weld bevels shall be closed with metal or plastic caps to prevent damage and entrance of foreign materials. All socket-weld ends and threaded ends shall be closed with metal or plastic protectors that fit either inside or outside or prevent damage and entrance of foreign materials.
- 13.1.10 Valve flanges shall be protected with either Plastic Purpose made covers or bolted full size flange covers. A 6 mm (1/4in) minimum thickness sponge rubber cord gasket shall be placed between the flange face and flange cover.
- 13.1.11 Acceptable flange covers shall be secured with appropriately sized machine bolts as below:
- For flanges having 4 to 28 bolt- holes, a bolt shall be placed in at least every other bolt-hole, with a minimum of 4 bolts used.
 - For flanges having more than 28 bolt-holes, bolts shall be placed in at least Every fourth bolt hole.
- 13.1.12 The inside of valves and components shall be dry and free of debris before the covers or caps are attached.
- 13.1.13 Notification of all in transit and/or storage maintenance requirements shall be made

before shipment and shall be prominently written with waterproof paint on the exterior of the packaging.

13.2 Packaging and Shipping

- 13.2.1 If Clients incorporate their own procedures for preparation, packing and shipment, this must be followed.
- 13.2.2 If Client requested the project documents to be included in the case with the goods, this must be adhered to with the docs in an envelope and placed in the case, for any PED order an IOM must be sent with the goods, even if the customer does not specifically ask for them to be included.
- 13.2.3 If purchased from a Third Party the supplier shall be responsible for suitably packaging the valve to protect it from damage or loss during handling and shipment and any special requirements or storage conditions specified in the inquiry and subsequent order.
- 13.2.4 Valves shall be prepared for shipment in such a manner so as to minimise damage or atmospheric corrosion to inside or outside surfaces, or parts, during storage or while in transit. Particular attention shall be given to the protection of austenitic stainless steel form exposure to salt water or salt spray during shipment and storage.
- 13.2.5 The Supplier shall optimise the size, weight and complexity of the packaging and packaging materials to minimise the cost of transport, handling, storage, and field removal of packing material. Containerised and unitised packing procedures shall be utilised to the greatest extent possible. The valve shall be packed to ensure an even distribution of weight within the package, and the package shall include designated lifting points.
- 13.2.6 Threaded and socket welded valves shall be packed in wooden boxes or kegs. Net contents per container shall not exceed 500Kg.
- 13.2.7 All packaging and protective material shall maintain its integrity and perform its intended function through all phases of handling, transport, and storage.
- 13.2.8 Each shipping package shall be durably marked as per the clients order requirements or if nothing received marked with the receiving address, Purchaser's Order Number and / or Project Number.
- 13.2.9 Valves shall not be transported as open above deck cargo.
- 13.2.10 In event client does not collect the goods utilising his own freight Company all Goods must be despatched using Approved Freight Forwarder.
- 13.2.11 An Advise Note or Collection note must be signed by any driver upon collection with Trailer number / registration number also recorded.

13.3 Storage

13.3.1 Valves must be stored indoors in a dry environment.

13.3.2 End caps should not be removed until just before installation.

13.3.3 For extended storage the storage area should be free from temperature extremes and the humidity should be controlled.