

# PSV requirements

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All PSV's need to be code stamped

**7.3 Code Stamping & Capacity Certification of PRDs**

7.3.1 In general, PRDs shall be ASME code stamped as per the requirements mentioned in API 520-1, ASME BPVC.XIII. Following ASME code stamping and the applicable certification mark designator shall be applied (refer ASME BPVC.XIII for details):

Table 3: PRDs ASME Code Certification Mark Designators (refer ASME BPVC.XIII)

Pressure Relief Device	ASME Code Certification Mark Designator	Applicable ASME BPVC Code	Remarks/ Protected Equipment
Pressure Relief Valves	V	ASME BPVC SECTION-I: Rules for Construction of Power Boilers	Power Boilers
	HV	ASME BPVC SECTION-IV: Rules for Construction of Heating Boilers	Heating Boilers
	TV	ASME BPVC SECTION-XII: Rules for Construction and Continued Service of Transport Tanks	Transport Tanks
	UV	ASME BPVC SECTION-VIII DIV-1: Rules for Construction of Pressure Vessels	Pressure Vessels & Piping/ Pipeline
	UV3	ASME BPVC SECTION-VIII DIV-3: Rules for Construction of Pressure Vessels	Pressure Vessels as per ASME BPVC.VIII DIV-3
Rupture Disk, Pin Devices	TD	ASME BPVC SECTION-XII: Rules for Construction and Continued Service of Transport Tanks	Transport Tanks
	UD	ASME BPVC SECTION-VIII DIV-1: Rules for Construction of Pressure Vessels	Pressure Vessels & Piping/ Pipeline
	UD3	ASME BPVC SECTION-VIII DIV-3: Rules for Construction of Pressure Vessels	Pressure Vessels as per ASME BPVC.VIII DIV-3

7.3.2 PRDs shall bear appropriate ASME certification mark stamp as per the above table and as described in ASME BPVC.XIII. Further, PRDs shall be liquid or vapour and/ or dual (liquid and vapour) capacity certified (along with certified coefficient of discharge) as per the requirements of API-520-I and ASME Codes. For the gas/ vapour service the PRVs are capacity certified (along with certified coefficient of discharge) on the nameplate in SCFM of air and the liquid service the PRVs are capacity certified on the nameplate in gallons per minute of water. CONTRACTOR/ SUPPLIER shall provide all the supporting documents inclusive of certification related documents for the PRDs.

**7.4 Set Pressure/ Burst Pressure Tolerances of PRDs**

The PRDs set/ burst pressure tolerances shall meet the requirements of ASME BPVC.XIII and as summarized in the table:

## 12.2 Materials

PRDs material test certifications shall meet the requirements of AGES-SP-13-002 and related AGES's together standards inclusive of EN 10204 as per the following:

*Table 6: PRDs Material Certification*

Components	Certificate Type
Body/ Disk Holder, Bonnet, Trim/ Disks, Pilots & other wetted parts inclusive of pressure containing	3.1
Other parts	2.2

We don't need EN 10204  
3.2 certification



### 12.1 General

SUPPLIER shall be responsible for inspection and quality assurance of the materials and standard of workmanship.

For the PRDs the Criticality Rating shall be 1 and Inspection Class shall be 1 as per AGES-SP-13-002. The quality plan/ inspection & test plan (ITP) shall be developed meeting the mention criticality rating and inspection class requirements as per AGES-SP-13-002.

Prior to the start of manufacture, an Inspection and Test Plan) ITP shall be submitted for approval by CONTRACTOR & COMPANY. The ITP shall be developed in a tabulated form by the SUPPLIER shall include all inspection and test activities to be performed, including those at SUB-CONTRACTORS/ SUB-SUPPLIERS works with details inclusive of the references (applicable project specifications/ drawings/ datasheets, etc.), characteristics to be verified, **material certification** level, acceptance criteria, QC verified record, responsible person(s) and intervention for concerned parties. All inspection and test related activities shall be covered in a sequential order from review of documents, drawings through manufacturing, process controls, examination, testing, Quality documentation review, certification, pre-dispatch inspection and up to final release performed by or for the SUPPLIER.

Shop inspection and testing shall be progressively carried out by the SUPPLIER and related documentation shall be submitted to CONTRACTOR & COMPANY for review & approval. Further, FAT shall be conducted at SUPPLIER location and witnessed by the CONTRACTOR and COMPANY representatives.

Inspection and testing shall meet the requirements of the following, as a minimum:

- AGES-SP-13-001, AGES-SP-13-002, AGES-GL-13-001, AGES-GL-13-002, etc.
- ASME Codes
- API 526, API 527
- IOGP S-730, IOGP S-730Q
- Applicable material standards

All welding procedures shall be submitted to CONTRACTOR & COMPANY for review & approval prior to the start of manufacture. The welding procedure shall include the Welding Procedure Specifications (WPS) and Procedure Qualification Records (PQR).

### 26.3 TYPES OF CERTIFICATE

26.3.1 Inspection is commonly related to be one of two types: non-specific or specific.

#### **DEFINITIONS ACCORDING TO BS EN 10204:**

a) **NON-SPECIFIC INSPECTION:** Defined as an inspection carried out by the MANUFACTURER in accordance with their own procedures to assess whether products defined by the same product specification and made by the same manufacturing process, are in compliance with the requirements of the order or not.

Under the basis of non-specific inspection, there are two differing inspection document options:

- **Type 2.1.** Declaration of compliance with the order without test results
- **Type 2.2.** Statement of compliance with the order and indicate of test results of non-specific inspection.

Note that under non-specific inspection, the products inspected are not necessarily the products actually being supplied. This is not batch specific and only gives average values for that material produced by MANUFACTURER (Mill) over a manufacturing period.

b) **SPECIFIC INSPECTION:** Defined as an inspection carried out, before delivery, according to the product specification, on the products to be supplied or on test, units of which the products supplied are part, in order to verify that these products comply with the requirements of the order.

26.3.2 When considering specific product inspection (on a batch specific basis), the inspection document options are:

- **Type 3.1.** Statement of compliance with the order with indication of results of specific inspection including test results. Validated by a MANUFACTURERs authorized inspection representative, independent of manufacturing and based on inspections before delivery.
- **Type 3.2.** Statement of compliance with the order with indication of results of specific inspection including test results. Validated by a MANUFACTURERs authorized inspection representative independent of manufacturing and a third party such as the PURCHASER's authorized inspection representative or an inspector designated by official regulations.