

# DOE HSS Guidelines for Counterfeit Valves Cheat Sheet

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#### Introduction

In 2007 the Department of Energy's Health, Safety and Security Office of Corporate Safety Analysis issued Rev 6 of Suspect/ Counterfeit Items Awareness Training, available at www.hss.energy.gov/CSA/CSP/sci/SCIAwarenessTrainingManual062007.pdf. Appendix B of that document lists indications that render items suspect. They include:

Source: http://www.valvemagazine.com/magazine/sections/feature-s/4422-suspicious-and-counterfeit-valves-an-avoidable-danger.html

| A. General Indications   |
|--|
| ☐ Used component appearance  |
| ☐ Unusual or inadequate packaging                                    |
| ☐ Foreign newspapers used as packaging                               |
| ☐ Scratches on component outer surface                               |
| ☐ Evidence of tampering  |
| ☐ Components with no markings  |
| ☐ Pitting or corrosion   |
| ☐ External weld or heat indications                                  |
| ☐ Questionable or meaningless numbers                                |
| ☐ Typed labels   |
| ☐ Evidence of hand-made parts  |
| ☐ Painted stainless steel  |
| ☐ Ferrous metals that are clean and bright                           |
| ☐ Excess wire brushing or painting                                   |
| ☐ Ground off casting marks with stamped marks in the vicinity        |
| ☐ Ground off logo mark   |
| ☐ Signs of weld repairs  |
| ☐ Threads showing evidence of wear or dressing                       |
| ☐ Inconsistency between labels                                       |
| ☐ Old or worn nameplates   |
| ☐ Nameplates that look newer than the component                      |
| ☐ Missing manufacturer's standard markings and logos                 |
| ☐ Overlapping stamps   |
| ☐ Different colors of the same part                                  |
| ☐ Traces of Prussian Blue  |
| ☐ No specification number  |
| ☐ No size designation  |
| ☐ Missing pressure class rating                                      |
| ☐ Other missing designations per the specification                   |
| ☐ Evidence of re-stamping  |
| ☐ Deficient welds on chemical/nuclear shipping casks                 |
| ☐ Thinner than expected  |
| ☐ Parts identified as "China" only or "Korea " "Mexico " "Thailand " |

### A. General Indications (cont)

☐ Excess certification logos (i.e. "UL," "FM," "CGA," "AGA") all on one valve body – not normal, usually will have one or two logos plus ANSI or ASME

### **B. General Valve Indications**

- □ Wrench marks on valve packing glands, nuts, and bolts
  □ Nameplates attached with screws rather than rivets
  □ Poor fit between assembled valve parts
  □ Dirty internals
  □ Scratched or marred fasteners or packing glands
  □ Gate valve: gate off-center when viewed through open end
- ☐ Loose or missing fasteners
- $\hfill \square$  Different types of hand wheels on valves of the same manufacturer
- ☐ Some parts (e.g., hand wheels) look newer than rest of the valve

 $\hfill \square$  Fresh sand-blasted appearance of valve bodies, eyebolts, fittings,

- ☐ Improper materials (e.g., bronze nut on a stainless stem)
- ☐ Post-manufacturing alteration to identification/rating markings
- ☐ Indication of previous joint welding
- ☐ Excessive standards markings (e.g. UL, FM, CGA, AGA) (check manufacturer literature for standards they use)
- ☐ Valves will not open or close, even when wrench applied.
- ☐ Substandard valves mixed in with standard valves (substitution)

## **Immediate actions: Robust Procurement Controls**

- ☐ Use approved distribution networks.
- ☐ **Safeguard design information**, prevent it from becoming available to counterfeiters.
- ☐ Question suppliers' return policies and design control measures—how do they control parts and subassemblies purchased from sub-tier suppliers?
- ☐ Incorporate terms and conditions that address expectations (and consequences) relative to counterfeit, fraudulent and substandard items.
- ☐ Open lines of communication with suppliers, ask them to provide instructions for how to recognize and avoid any counterfeits if they know of instances where the items you purchase have been counterfeited.
- ☐ **Trust but verify**—perform diligent inspection in receiving items procured, particularly when they are provided by a new supplier or must be procured outside of approved distribution networks.
- ☐ **Pursue incidents when they are identified;** notify the authentic OEM; prosecute if possible



"India"

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