

# 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

^	General	Inc	Icat	ione

☐ 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
□ 1	Nameplates attached with screws rather than rivets
□ F	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
	Fresh sand-blasted appearance of valve bodies, eyebolts, fittings
sten	ns
	Loose or missing fasteners
	Different types of hand wheels on valves of the same manufa-
ctur	er
	Some parts (e.g., hand wheels) look newer than rest of the valve
	mproper materials (e.g., bronze nut on a stainless stem)
	Post-manufacturing alteration to identification/rating markings
	ndication of previous joint welding

☐ Excessive standards markings (e.g. UL, FM, CGA, AGA) (check

□ Valves will not open or close, even when wrench applied.□ Substandard valves mixed in with standard valves (substitution)

# Immediate actions: Robust Procurement Controls

manufacturer literature for standards they use)

☐ 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 substa-
ndard items.
$\hfill \Box$ 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.
☐ <b>Trust but verify</b> —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.
$\hfill \square$ Pursue incidents when they are identified; notify the authentic



"India"

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OEM; prosecute if possible

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