

Quick-Actuating Closures – BSB 0600-02 R3

Attachment 1

INSPECTION OF PRESSURE VESSELS WITH QUICK-ACTUATING CLOSURES

Due to the many different designs of quick-actuating closures, potential failures of components that are not specifically covered should be considered. The scope of inspection should include areas affected by abuse or lack of maintenance and a check for inoperable or bypassed safety and warning devices.

Location		Date:	
NC Number		National Board #	
Manufacturer		Year Built	
Design temperature		Operating temperature	
MAWP		PRD set pressure	

Inspection item	Acceptable	Not acceptable	Not applicable
Pressure gage visible from work area?			
Pressure gage range- 1 ½ to 4 times working pressure			
Intervening valve between vessel and gage?			
Gage protected by siphon or trap			
Pressure gage accuracy (especially at low pressures, reads zero before vessel is opened)			
Pressure gage calibration program (recommended)			
Pressure relief device (testing and replacement program)			
Sealing surfaces of the closure device			
Gaskets/ O-rings			
Internal surfaces			
External surfaces			
Weld inspection (especially locking rings and holding elements)			
Seating surfaces of locking mechanisms- free of metal burrs and deep scars (may indicate improper alignment or operation)			

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Alignment of door hinge mechanism (adjustment screws and locking nuts are properly secured)			
Alignment of the closure to the seating surface			
Full stroke of locking mechanism is obtained			
Wedges or striking surfaces +/- ½" from end of each other			
Closure and holding elements fully engaged in intended operating positions before pressure can be applied			
All locking elements engage prior to, and remain engaged during pressurization			
Audible/visual warning devices for manually operated safety devices			
Leakage			
Verify closure/door markings match data report or vessel markings			
Previous inspection results			
Repairs or alterations			