

Argon Cylinder Regulator Replacement - JSA - C

en-US · Supervision, records, handover · v1.0 · 2026-10-12 · Sources: article section 9

Site: | Item ID: | Work area:

Approval	Work supervisor	Technical reviewer	Release / handover authority

1. Job details and team signatures

Date / time	Location / area			Assessor		Supervisor	
Team signatures							

2. Conditions and hold points

Stage	Time	Location / area	Environment / readings	Item / condition	Controls	Plant / tools	Approval / signature
HP-0 Start							
HP-1 Isolate and bleed							
HP-2 Fit replacement							
HP-3 Leak check							
HP-4 Hand over							

Complete after actual checks. Recheck after changes, defects or shift handover.

3. JSA risk assessment

Job stage	Hazards and effects	Failure factors	Technical and procedural controls	Site verification	P	S	R	A
1. Gas identification	1. Wrong gas service 2. Regulator rupture 3. Unsafe substitution	1. Label evidence absent 2. Rating not matched 3. Supplier advice unrecorded	1. Record gas and regulator 2. Resolve compatibility gaps 3. Reject unapproved adapters	1. Cylinder and regulator IDs 2. Compatibility reviewer 3. Outlet and seal reference				
2. Area responsibility	1. Cylinder tip-over 2. Oxygen displacement 3. Delayed evacuation	1. Restraint owner unclear 2. Ventilation assumed 3. Escape route obstructed	1. Assign cylinder security 2. Review potential release 3. Brief gas alarm response	1. Restraint inspection 2. Ventilation review owner 3. Emergency briefing record				
3. Isolation transfer	1. Trapped gas release 2. Downstream flow 3. Unexpected valve opening	1. Process crew uninformed 2. Bleed state not recorded 3. Handover loses isolation	1. Notify downstream operator 2. Verify controlled bleeding 3. Maintain isolation custody	1. Isolation and bleed log 2. Downstream acknowledgement 3. Responsible person and time				
4. Test authorization	1. Leak exposure 2. Outlet overpressure 3. Gas accumulation	1. Test limits unstated 2. No exclusion owner 3. Leak criteria unclear	1. Define test boundaries 2. Control personnel access 3. Record leak acceptance	1. Approved test method 2. Test leader and limits 3. Observed leak result				
5. Fault disposition	1. Live tightening injury 2. Damaged seal reuse 3. Repeated gas release	1. Defect verbally dismissed 2. Parts change unrecorded 3. Retest result missing	1. Retain stop status 2. Trace replacement parts 3. Release after safe retest	1. Defect and cause record 2. Parts and supplier reference 3. Retest reviewer				
6. Supply handover	1. Incorrect gas setting 2. Unnoticed leakage 3. Unsafe cylinder condition	1. Final setting omitted 2. Receiving user absent 3. Restraint condition lost	1. Record supply setting 2. Transfer leak-test result 3. Keep cylinder protected	1. Final regulator setting 2. Operator acceptance 3. Restrictions and next check				

P/S/R/A: Complete only after actual site assessment using the site risk method.

4. Pre-work checklist

☐ Cylinder and regulator IDs	☐ Restraint inspection	☐ Isolation and bleed log
☐ Approved test method	☐ Defect and cause record	☐ Final regulator setting
☐ Outlet and seal reference	☐ Observed leak result	☐ Restrictions and next check