ISO 9001:2015 Supplier Deviation Request Form - Industry Vetted

20 Aug 2025 / Lewis Soan

Complete

Score	4 / 5 (80%)	Flagged items	0	Actions	1

Document number	07022001
Supplier name	Marvin Puth
Site conducted	Unanswered
Conducted on	20.08.2025 08:59 PST
Prepared by	Lewis Soan
Location	Seattle, WA, USA (47.6061389, -122.3328481)

Actions

1 action

Reason for deviation	Supplier identified a minor inconsistency in raw material hardness that affects seal performance. The pumps still perform within functional limits but slightly exceed the original pressure tolerance band.

To do | Assignee: SafetyCulture Staff | Priority: Low | Due: 28.08.2025 09:29 PST | Created by: SafetyCulture Staff

Investigate and Correct Raw Material Hardness Variation in Hydraulic Pump Assembly

Work with raw material supplier to adjust and tighten heat-treatment process controls.

Implement additional incoming material hardness testing for the next 3 months.

Update material specification acceptance criteria in supplier agreements.

Retrain supplier’s QA staff on hardness verification procedures.

Untitled Page	1 action, 4 / 5 (80%)
Supplier Information	
Contact name	Marvin Puth
Phone number	987 432 2453
Email	marvinputh.manu@gmail.com
Supplier type	Supplier
Product/Service Details	1 action
Part/Service name	Hydraulic Pump Assembly
Part/Service number	HP-4827-B
Purchase order number	PO-2025-1163
Specification/Requirement affected	Operating pressure tolerance (±5%)
Original requirement	Must maintain 3,000 PSI ±5% under continuous operation for 12 hours.
Proposed deviation	Allow tolerance of ±8% for this production lot due to material batch variation.
Reason for deviation	Supplier identified a minor inconsistency in raw material hardness that affects seal performance. The pumps still perform within functional limits but slightly exceed the original pressure tolerance band.

To do | Assignee: SafetyCulture Staff | Priority: Low | Due: 28.08.2025 09:29 PST | Created by: SafetyCulture Staff

Investigate and Correct Raw Material Hardness Variation in Hydraulic Pump Assembly

Work with raw material supplier to adjust and tighten heat-treatment process controls.

Implement additional incoming material hardness testing for the next 3 months.

Update material specification acceptance criteria in supplier agreements.

Retrain supplier’s QA staff on hardness verification procedures.

Impact assessment (safety, quality, performance, compliance, etc.)

No impact; pressure range remains well within system design safety factors.
Does not violate relevant ISO/ASME standards; remains compliant.

Duration of proposed deviation

Single production batch only (Lot #HP-4827-B-25).

Quantity affected

150 units

Supporting Documentation

Attach supporting drawings

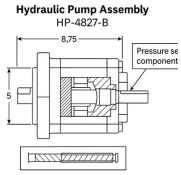


Photo 1

Attach supporting calculations

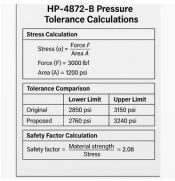


Photo 2

Attach supporting specifications

Original requirement: Rockwell Hardness HRC 58–60.

Affected batch: HRC 56–61 (slightly wider spread).

Referenced industry standard: ASTM A370.

Attach supporting test results

Pressure cycling test results: Passed (variance ±7.8%).

Leak/burst test results: Passed at 1.5× operating pressure.

Run-in performance: Stable.

Attach supporting photos

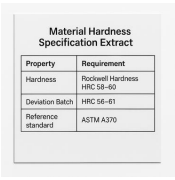


Photo 3

Other attachments

Supplier Acknowledgement

Comments

We acknowledge receipt of the Deviation Request (Ref: HP-4827-B, Lot #25). After review of the provided documentation, including supporting drawings, calculations, specifications, and test results, we confirm our understanding of the proposed deviation.

Supplier Signature

Marvin Puth
21.08.2025 09:35 PST

Internal Review — 4 / 5 (80%)

Engineering Review — 1 / 1 (100%)

Comments

Safety: No compromise identified; safety factors remain intact.

Performance: Minor increase in operating pressure variance under extreme loads; negligible effect in standard operation.

Quality: Slight reduction in dimensional tolerance reliability over long-term wear, but not sufficient to reject batch.

Compliance: No regulatory or standard violations observed.

Reviewed by

Ethan Strong
21.08.2025 09:40 PST

Deviation approval — Accepted

Safety Review — 0 / 1 (0%)

Comments

Reviewed by

Deviation approval

Quality Review — 1 / 1 (100%)

Comments

Personnel Safety: No increased risk of operator injury or equipment failure identified.

Product Reliability: Units remain safe for end-use applications, with negligible increase in variance of

long-term wear.

System Safety: Pumps continue to meet safety-critical performance criteria under all tested conditions.

Reviewed by

Rachel Lawrence
21.08.2025 09:41 PST

Deviation approval	Accepted
Procurement Review	1 / 1 (100%)

Comments

Supply Risk: Low. Supplier is cooperative and deviation does not compromise critical supply timelines significantly.

Commercial Impact: Minimal, provided deviation approval is granted promptly.

Strategic Considerations: Supplier remains a reliable partner. Procurement will monitor recurrence trends to ensure ongoing quality compliance.

Reviewed by

Zach Brian
21.08.2025 09:41 PST

Deviation approval	Accepted
Final Determination	1 / 1 (100%)

Comments

After review of all supporting documentation and assessments, the deviation for Lot #25 (150 units) is APPROVED.

Reviewed by

Lewis Soan
21.08.2025 09:41 PST

Authorized representative approval	Accepted

Media summary

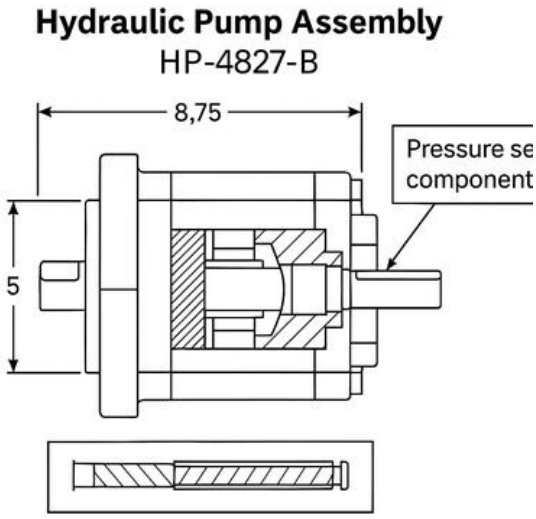
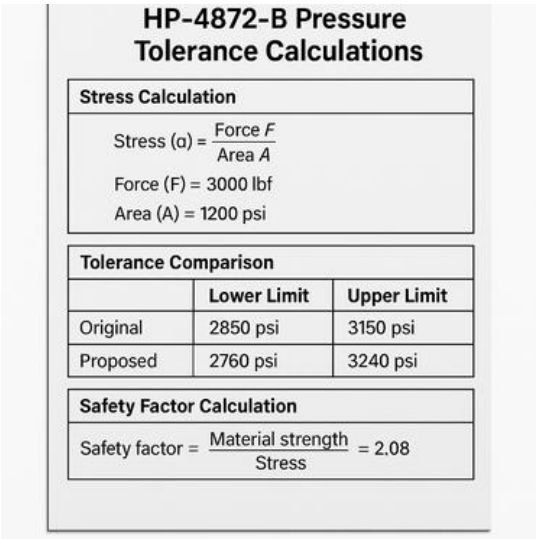


Photo 1



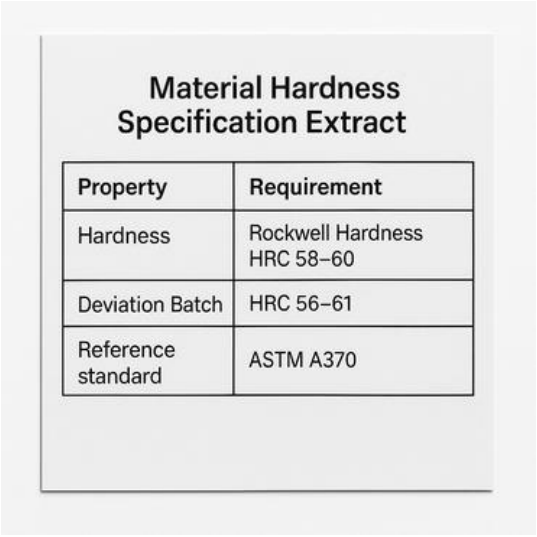
HP-4872-B Pressure Tolerance Calculations

Stress Calculation
Stress (α) = Force F / Area A Force (F) = 3000 lbf Area (A) = 1200 psi

Tolerance Comparison		
	Lower Limit	**Upper Limit**
Original	2850 psi	3150 psi
Proposed	2760 psi	3240 psi

Safety Factor Calculation
Safety factor = Material strength / Stress = 2.08

Photo 2



Material Hardness Specification Extract

Property	Requirement
Hardness	Rockwell Hardness HRC 58–60
Deviation Batch	HRC 56–61
Reference standard	ASTM A370

Photo 3