Sifab AS — Quote Request to Honeywell

Snorre A Small Volume Prover (SVP)

Field	Value
Date	2026-02-24
From	Sifab AS (Tom Sverre Falch / Sondre Falch)
To	Honeywell Industrial Automation (Sidney Swart)
RFQ Reference	GM-8501-1447 (Guidant Measurement Solutions)
Honeywell Champ	O-1010834
End Client	Equinor — Snorre A platform, Norwegian North Sea
Bid Deadline	4 March 2026

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1. Request Summary

Sifab AS requests a firm quotation from Honeywell for the supply of a Small Volume Prover (SVP) system for Equinor's Snorre A platform. The quotation shall cover all items listed below and comply with the enclosed RFQ specifications.

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2. Scope — Items Required from Honeywell

2.1 Main Equipment

#	Item	Specification
1	Small Volume Prover (SVP)	Sized for 67–750 m^3/h crude oil USM proving, ≤0.020% repeatability per API MPMS 4.2
2	SVP Controller	Complete with interface for flow computer integration
3	Seraphin Can	Certified by Justervesenet, in SS316 protective cabinet for offshore storage
4	Water Draw Kit	Solenoid valve and manual instrument valves

2.2 Modular Split Engineering (CRITICAL)

The SVP must be split into transportable modules for installation on Snorre A. This is the key engineering challenge.

Constraint	Requirement
Max module dimensions	W 1.4m × L 2.56m × H 2.2m
Lifting points	Per Norsok R-002, on each module
Documentation	Drawing showing size and weight of biggest/heaviest module
Disassembly	At onshore fabrication facility in Norway
Re-assembly	On Snorre A platform, North Sea
Warranty	Starts after vendor re-assembly and release on site, min 28 months

Honeywell to provide:

- Modular split concept drawing showing how the SVP will be divided

- Weight and dimensions of each module
- Re-assembly procedure and estimated offshore man-hours
- Confirmation that calibration accuracy is maintained after re-assembly

2.3 Services Required from Honeywell

#	Service
1	Modular split engineering and design
2	Factory Acceptance Test (FAT) — gravimetric calibration, witnessed by Buyer, Contractor, End Client, and Norwegian Authorities
3	Water draw test at factory with Seraphin can
4	Repeatability test ≤0.020% per API MPMS 4.2
5	Disassembly and packing at onshore facility in Norway
6	Re-assembly and commissioning on Snorre A
7	Site Acceptance Test (SAT) — water draw test after re-assembly

2.4 Options (price separately)

#	Option
1	Commissioning and 2-year operation spare parts
2	Extended warranty beyond 28 months

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3. Process Data

Parameter	Value
Fluid	Crude oil (export)
Corrosion agents	H2S and sand particles
Flow rate (per stream, SVP)	67–750 m^3/h
Total flow rate (2 streams)	Up to 1453 m^3/h
Design pressure	49 barg
Operating pressure	35.4–36.0 barg
Design temperature	-8°C to 106°C
Operating temperature	55–57°C
Density at T&P	815 kg/m^3
Viscosity at T&P	2.2 cP
Molecular weight	182.8
Min stroke time	1 second between switches
Repeatability	≤0.020% per API MPMS 4.2
Flowmeter to prove	Krohne Altosonic 5, 8" CL300 (ultrasonic)
Material spec	Equinor TR2000, PCS BD20X (Plant SNA)

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4. Technical Requirements Summary

4.1 Standards & Certifications

- API MPMS Chapter 4.2 (Displacement Provers)
- Måleforskriften (Norwegian fiscal measurement regulations)
- PED 2014/68/EU
- ATEX 2014/34/EU — Zone 1, IIA T3 minimum, IP66
- Machinery Directive 2006/42/EC
- EMC Directive 2014/30/EU

4.2 Equinor Technical Requirements (TRs)

- TR2000 — PCS BD20X (Plant SNA)
- TR0042 — Surface preparation and protective coating
- TR1427 — Positive Materials Identification
- TR1824 — Welding and inspection of piping
- TR3023 — E&I installations offshore
- TR3032 — Field instrumentation

4.3 Norsok Standards

- E-001 (Electrical systems)
- I-001 (Field instrumentation)
- L-004 (Piping fabrication)
- M-101 (Structural steel fabrication)
- M-501 (Surface preparation and protective coating)
- M-601 (Welding and inspection of piping)
- M-630 (Piping Material Data Sheets)
- R-002 (Lifting equipment)

4.4 Materials

Component	Material
Wetted / pressure-containing parts	Per TR2000 BD20X, NACE MR0175 / ISO 15156-3
Flow tube	Min SS316, per Norsok M-630 MDS
Structural frame	SS316L
Controller / interface box	SS316
Tubing and fittings	6Mo per TR2000 MDS ST701 / SF712
Instrument valves	SS316
Cable glands	SS316 or nickel-plated brass
Dissimilar metals	Separated with PTFE
Piston seal	Carbon Fiber Reinforced PTFE (crude oil service)

4.5 Connections

Connection	Specification
Inlet/outlet nozzles	12" ANSI B16.5 CL600 RTJ, Sch. 40S
Drain/vent nozzles	1" ANSI B16.5 CL600 RTJ, Sch. 160
Nozzle orientation	Upward / Upward

Tubing/fittings	Metric, VTA mm, Hoke Gyrolok
Process thermowells (3×)	½" NPTF, bore 6.5mm
Rod thermowell (1×)	½" NPTF, bore 6.5mm
Pressure take-off (1×)	½" DB&B per VDS-MHBD102R / TR2000 BD20X

4.6 Electrical

Parameter	Requirement
Motor power	230 VAC, 3-phase, 60Hz (**NB: confirm — unusual for Norway**)
Motor enclosure	ATEX Ex de or Ex e
Cables	BFOU type, halogen-free
Cable glands	Per Norsok E-001 and TR3023

4.7 Painting & Insulation

- All surfaces: TR0042 / Norsok M-501
- Process-wetted surfaces: System 6C
- Prepared for min 100mm insulation
- Heat tracing maintain temp: 59°C

4.8 Testing

Test	Requirement
Gravimetric calibration	At factory, witnessed by Buyer, Contractor, End Client, Norwegian Authorities
Water draw (factory)	With Seraphin can
Water draw (site)	After re-assembly on Snorre A
Repeatability	≤0.020% per API MPMS 4.2, demonstrated at FAT
Hydrostatic	1.5× max design pressure of BD20X

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5. SVP Model Selection — Question for Honeywell

Based on the flow rate requirement of 67–750 m^3/h for ultrasonic meter proving:

Model	Max flow (US meters)	Comment
SVP025	248 m^3/h	**Too small** — does not cover 750 m^3/h
SVP035	310 m^3/h	**Too small** — does not cover 750 m^3/h
SVP050	495 m^3/h	**Too small** — does not cover 750 m^3/h
SVP085	929 m^3/h	**Covers 750 m^3/h** — recommended?
SVP120	1487 m^3/h	Covers with margin, but larger/heavier

Please confirm the recommended SVP model considering:

- Max 750 m^3/h for ultrasonic meter
- Modular split constraints (max 1.4 × 2.56 × 2.2m per module)
- 1-second minimum stroke time requirement

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6. Clarifications / Technical Queries (TQs)

TQ#	Question	For
TQ-001	Motor power is specified as 230VAC, 3-phase, **60Hz**. Norwegian standard is 50Hz. Please confirm if this is correct or if it should be 50Hz.	Guidant/Equinor
TQ-002	Which SVP model is recommended for 750 m^3/h USM proving with modular split constraints?	Honeywell
TQ-003	Can the SVP be split and re-assembled while maintaining ≤0.020% repeatability? What is the re-calibration procedure after re-assembly?	Honeywell
TQ-004	What is the estimated lead time for the recommended SVP model? Can we meet or approach the 4 March bid deadline?	Honeywell
TQ-005	Justervesenet certification for Seraphin can — estimated lead time?	Honeywell
TQ-006	What is the estimated offshore man-hours for re-assembly and SAT on Snorre A?	Honeywell
TQ-007	Temperature elements and transmitters are free-issued by Guidant. Confirm Honeywell will install the TE but not supply pressure transmitters.	Honeywell
TQ-008	Thermowell material — TR2000 BD20X. Can Honeywell source thermowells per this MDS, or should Sifab/Guidant free-issue?	Honeywell

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7. Quotation Format Requested

Please provide the quotation with the following breakdown:

1. **SVP unit price** (including controller, factory testing, documentation)
2. **Seraphin can + SS316 cabinet** (including Justervesenet certification)
3. **Water draw kit**
4. **Modular split engineering** (additional to standard SVP)
5. **Disassembly, packing, and shipping** (onshore Norway)
6. **Re-assembly on Snorre A** (offshore labor, travel, accommodation)
7. **Site Acceptance Test** (water draw on Snorre A)
8. **Option: 2-year spare parts**
9. **Delivery time** (weeks from order)
10. **Validity** of quotation

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8. Enclosed Documents

#	Document	Description
1	RFQ Small volume prover, Rev. A.pdf	Guidant RFQ (9 pages)
2	S1-AA-PDE-0219_02S.pdf	Process datasheet
3	PP-PS-13 GTC for Goods and Ancillary Services.pdf	General Terms & Conditions
4	QCF524_Snorre_A_FILLED.docx	Honeywell Specification Worksheet (filled by Sifab)
5	Snorre_A_Punchlist_FILLED.xlsx	Offshore prover punchlist (filled by Sifab)

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9. Contacts

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