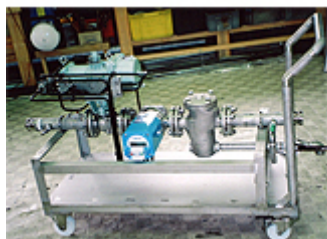




By utilizing sophisticated technologies of gas flow JCSS-registered company, we offer highly accurate gas testing system such as admission decision equipment for flowmeter calibration system combined with critical nozzle (SV meter) and gas control instruments. When you make a study of using a critical nozzle that complies with the national flow standard in worldwide countries including Japan, please contact OVAL Corporation, a specialist of critical nozzle.



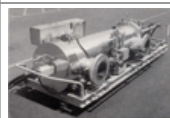
We manufacture various kinds of instruments related to fluids as in mixing, coating, adding, spraying, and filling by made-to-order system. When you study introduction of such instrument for the purpose of automation or power saving, please contact OVAL. We have abundant experiences from small-sized to supersized products and can propose the equipment meeting customer needs.

Flow Calibration Systems Lineup

▶ STANDARD VOLUME PIPE (PIPE PROVER)



▶ SMALL VOLUME COMPACT PROVER (PISTON PROVER)



▶ PROVER TANK



▶ STANDARD FLOWMETER



▶ SV METER (CRITICAL NOZZLE)



▶ GAS METER CALIBRATION SYSTEM



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Волгоград (844)278-03-48
Вологда (8172)26-41-59
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Иваново (4932)77-34-06
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Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
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Набережные Челны (8552)20-53-41

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Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78

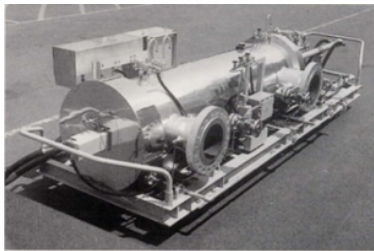
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
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STANDARD VOLUME PIPE (PIPE PROVER)



These are standard volumetric pipes to calibrate flowmeters (PD flowmeters such as oval-gear and UF-II meters and turbine meters) for accuracy on-line. Six models of bi-directional prover (reference volume: 0.2 to 10m³; reference max. flowrate: 40 to 2,200m³/h), and seven models of 3-sphere type prover (reference volume: 0.5 to 20m³; reference max. flowrate: 5 to 4,000m³/h) are available.

SMALL VOLUME COMPACT PROVER (PISTON PROVER)

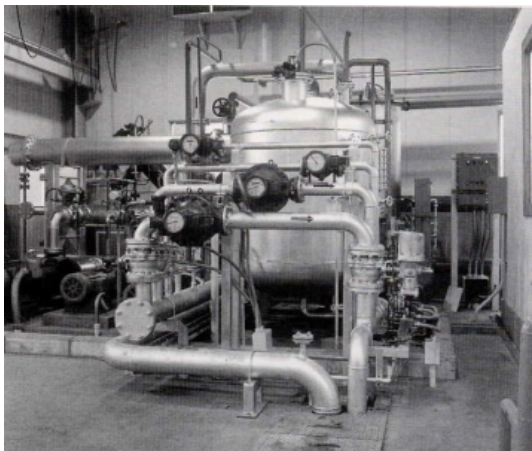


Thanks to our pulse interpolation approach, the reference volume of this prover has drastically been minimized. The result is a substantial reduction in testing time.
By volume, four models (reference volume: 10 to 240L, reference flow rate: 0.08 to 80.....2 to 2,000m³/h) are available.

Specifications

Flow range	0.08 to 80kL/h Nominal size 3B 0.27 to 270kL/h Nominal size 6B 0.7 to 700kL/h Nominal size 8B 2 to 2000kL/h Nominal size 10B
Operating pressure	5.11MPa Max.
Operating temp.	−45 to +120°C
Working principle	Detection by a magnetic sensor (pulse interpolation method)
Test time	0.4s to 9min.
Compliance	API Chapter 4, 12 ISO7278/3, 4
Applicable flowmeters	Oval gear flowmeters, turbine flowmeters, OVAL Coriolis flowmeters (for liquid)

STANDARD FLOWMETER



We can supply flowmeters tuned to a high degree of accuracy, yet easy to use. An oval gear flowmeter serves as the standard for liquid service whereas a servo flowmeter or SV meter serves as the standard for gas service.

PROVER TANK



OVAL has delivery records of vehicular portable to large size prover tanks, capacities from 50L to 30kL in nine models.

SV METER (CRITICAL NOZZLE)



The inherent characteristics demonstrated by gas flows in the sonic region (critical flows) are used in this type of flowmeter. Because of their high degree of accuracy and reproducibility, they find uses, as the standard meter, in calibrating other flowmeters for gas service. And the property of producing a constant flow is used in running a performance test of various gas-service flow control equipments.

Specifications

Applicable fluid	Air
Applicable flow range	Any 1 flow point in range of 0.05 to 100L/s
Operating temp. range	10 to 35°C
Operating pressure range	Min. 34KPa
Accuracy	Within $\pm 0.3\%$ (2σ)

GAS METER CALIBRATION SYSTEM



This system can verify home use gas meters, small to medium in size from 1 to 16, up to 10 units at the same time. A personal computer does the final data processing and test slips are printed out from the printer concentrated to it.

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