



10-6, Expo-ro, 339 Beon-gil, Yusung-gu, Daejeon, Korea
www.pdk.co.kr / pdk@pdk.co.kr / T. +82-42-862-6880
F. +82-42-862-6881 / Revision date : 2024.09.12
Copyright © PDK CO., LTD.



OWS-100

Liquid-Liquid Separator

OWS-100 is liquid-to-liquid separators connect directly to the test port of a hydraulic deadweight tester or comparison test pump. A flexible rubber diaphragm separates the fluids, protecting the calibrator from contamination and allows calibration of the device in its specific working fluid.

01 Features

- Using up to 1000 bar separating each liquid
- Simply remove bubbles in the system when pressure is generated while pressing the button of the bubble removal device built into the separator device
- No pressure calibration and test system required for water only
- Simply replace the rubber diaphragm and available to purchase it separately
- Compact size for easy installation and removal of pressure generation system
- Easy to move and store

02 Use

- Pressure calibration and testing of DUTs using specific liquids
- Calibration of the water-only pressure gauge at the field or lab
- Separate the DUT fluid from working fluid of the deadweight tester

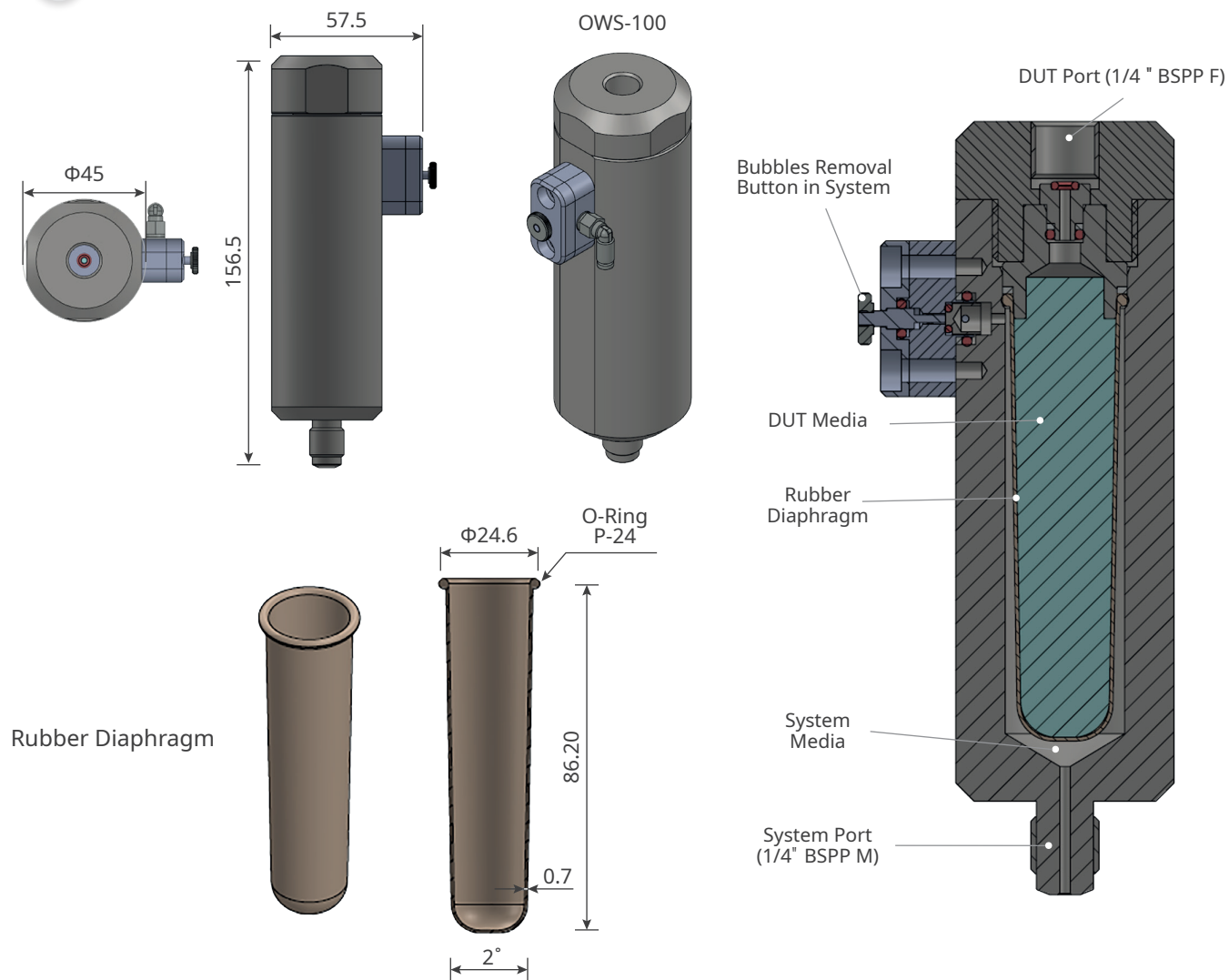
03 Specifications

OWS-100	Working Pressure	0 ~ 1000 bar
	Pressure Difference	-2 kPa (Measurement Uncertainty 0.2 kPa, level of confidence of approximately 95%, $\kappa=2$, @0.2 bar ~ 1000 bar)
	Correction Pressure	Applied +2 kPa to DUT or -2 kPa to Reference
	Pressure Ports	System port 1/4 " BSPP Female, DUT port 1/4 " BSPP Male
	Size	156.5 x 57.5 mm, $\Phi 45$
	Weight	1.4 kg
	Material	SUS 304, Viton
Rubber Diaphragm	Burst Pressure	300 kPa (Burst pressure when using the rubber diaphragm alone, always fill the separator with liquid and use it.)
	Material	Viton
	Media	Media available for Viton (Sebacate, Mineral oil, water, etc.)
	Volume	22 cc



OWS-100

04 Dimensions [mm]



05 Ordering Information

Model	Description	 Liquid Injector (Standard Accessory)
OWS-100G	Oil-Water Separator 1/4" BSPP	
	Rubber Diaphragm (Viton)	

06 Optional Items



PTP-H100
Hydraulic High Pressure
Calibration Test Pump
Max 1000 bar



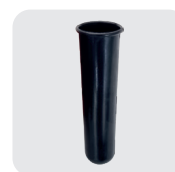
PDPG-HI
Dead-Weight Tester
Max 1400 bar



OPS-J
Hydraulic Manual Pressure
Generator / Controller
Max 2000 bar



**Quick-Connection
Body**
(For DUT port)



Rubber Diaphragm