

PD63

Bench Type Deadweight Tester



Features

- The PD63 is easy-to-use small bench type deadweight tester capable of high pressure measurement.
- Easy pressurization possible with preliminary pump and fine adjustment pump, and continuous discharge operation is also possible.
- The pressure gauge can be easily mounted and dismounted from the mounting base with the quick fastening nut.
- Standard comes with level and horizontal adjustment.
- JCSS Calibration Certification
- NKS Inspection Certificate and Pressure standard Inspection available.

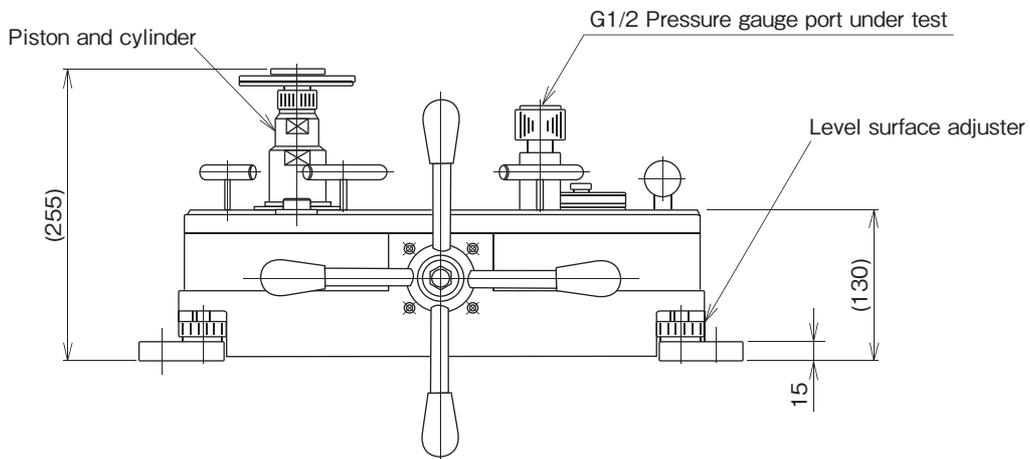
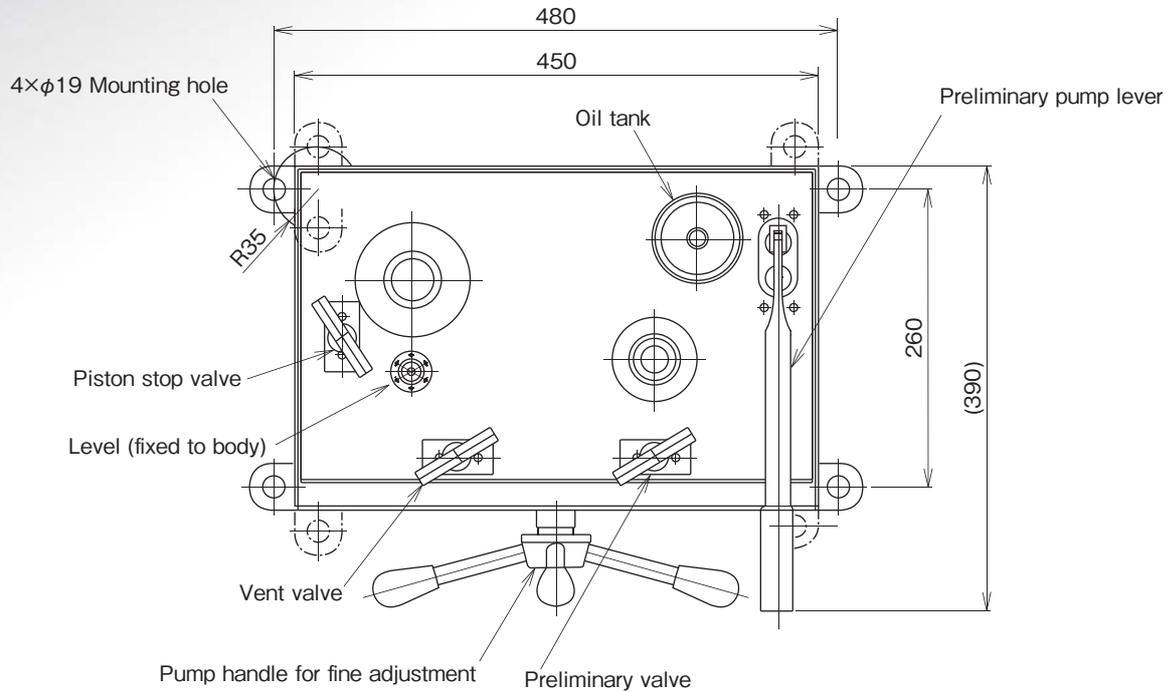
Specifications

Type	Bench type
Operating fluid	Hydraulic fluid
Operation	Manual
Pressure range	100, 200MPa
Accuracy	±0.1% of reading ±0.2% of reading
	Primary pressure measurement only. Secondary pressure measurement range covers lower outside range of primary pressure measurement range (10% of maximum rated pressure). Primary pressure measurement range: Range between 10% to maximum range of rated pressure Secondary pressure measurement range: Range between minimum to 10% of rated pressure
Body color	Pearl light green (±0.1%O.R.) Mustard yellow (±0.2%O.R.)
Body weight	25.5kg

Deadweight composition

Measurement range MPa			Effective sectional area cm ²	Deadweight MPa									Net weight of deadweight Approx. kg
Max.	Min.	Smallest graduation		Piston		Number of weights by value						Total	
				1	2	0.5	1	2	5	10	20		
100	1	0.5	1/16	1		1	2	1	1	9		100.5	64
200	2	1	1/32		1		1	2	1	1	9	202	64

Dimensions



ACCESSORIES & OPTIONS

Model	Mounting base		Spare parts, tools, accessories								
	Connection	Connecting method	Adapter				O-ring and gasket	Piston Gasket	Wrench and other tools	Case (option)	
			G1/4	G3/8	G1/2	G3/4				Carrying case	Weight box
PD63	Adapter	Quick fastening nut	1	1	1	—	P7-10	φ8-2	Complete set	—	3

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Model number configuration

Please specify the model number, each specs and the range for ordering.

Model

P D 6 3 — **M** **1** — **0** **0** **0** **0** **0** **0** **0** **0** **0** **0** **0** **0** **0** **0**

Deadweight type pressure standard ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮

Model number		Product specifications		Additional specifications (Optional)	
① Units	M	MPa			
② Accuracy	0	±0.2% O.R. (Body color: Mustard yellow)			
	1	±0.1% O.R. (Body color: Pearl light green)			
(Please specify pressure range and unit of measure along with corresponding ordering code.)	④ Pressure range (MPa)	1	100		
		2	200		
⑤ Deadweight finish					⑦ Weight box
	2	Ni plating (Standard)			0
	5	Ni plating+Carrying case			1
⑥ Carrying case	0	Not required			
⑦ Weight box	0	Not required			
	1	With case			
⑧ Pressure standard inspection / certification	1	Pressure standard inspection (Accuracy: ±0.2% O.R.)			
	3	JCSS certificate of calibration			
	4	Inspection certificate, Traceability certificate (NCSS)			
⑨ Other additional spec.	0	Not required			
	1	Required (Specify required additional spec. below.) Other units than "SI" (Export purpose only)			
⑮ Documents	0	Not required			
	1	Required (Documents available upon request) Datasheet (Drawing / Specifications) Instruction manual Inspection procedure Attending inspection			

* Specify code "X" to refer N/A

OPERATING INSTRUCTIONS

- Avoid installation in places exposed to places that excessive vibration, dirt, dust, corrosive atmosphere, and direct sunlight are present.
- Ensure to install the deadweight tester horizontally. If not installed horizontally, the test result may not be accurate.
- Do not try to increase or decrease the pressure suddenly. (Ensure to open and close the valves slowly.)
- Applying a pressure over the maximum allowable pressure on PD63 is not only dangerous but possibly damage the tester.
- The deadweights are precisely manufactured. Do not fabricate with sandpaper or drop them.
- Use a tank siphon to calibrate "Use no oil" pressure gauges and be sure that oil does not ingress into pressure gauge under test.
- Use clean hydraulic oil. Refer to the following operating oil below.

Max. pressure Operating oil

100 to 200MPa: Turbine oil (ISO VG32)

Documents

Specify "Document name" when required

Document name	Applicable document	Explanation
Additionally available traceability certificate	Certificate of calibration and inspection for pressure standard used for inspection (Copy)	Copy of certificate that pressure gauge or pressure standard used for the inspection is traceable to National Secondary Standard owned by qualified company.
	JCSS certificate of calibration (Copy)	Copy of certificate of working standard that the working standard is traceable to National Secondary Standard owned by qualified company.
	jcoss test report (Copy)	Copy of certificate of National Secondary Standard that the National Secondary Standard owned by qualified company is traceable to National Standard.

Traceability Chart of Measurement Standard

