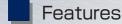
PD13

Bench Type Deadweight Tester







•The PD13 is the smallest and lightest bench type deadweight tester.

It incorporates a preliminary pump and a fine adjustment to make pressure adjustment easily.

- Pressure can also be measured by installing a test gauge instead of deadweight.
- •The pressure gauge can be easily mounted and dismounted from the mounting base with the quick fastening nut.
- ·Cylinder positioning marker, level, and level adjustment bolts are the standard equipment.
- ·JCSS Calibration Certification
- •NKS Inspection Certificate and Pressure standard Inspection available.

Specification

Type Bench type

Operating fluid Hydraulic fluid

Operation Manual

Pressure range 1 to 5MPa (0.1%0.R. is not available for 1MPa and 2 MPa.)

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%0.R.)

Mustard yellow (±0.2%0.R.)

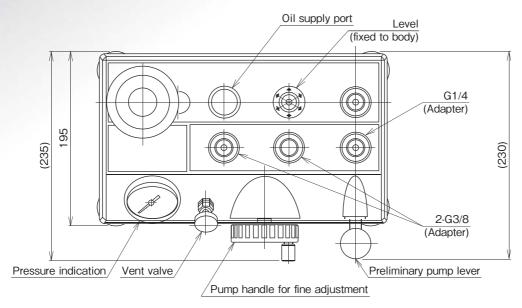
Body weight 9.5kg

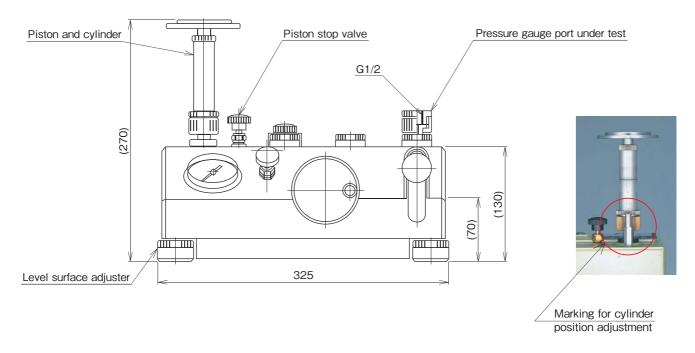


Deadweight composition

Magaurament range MDa		Effective sectional	Deadweight MPa									Net weight	
Measurement range MPa			Piston Number of weights by value							of			
Max.	Min.	Smallest graduation	area cm ²	0.05	0.005	0.01	0.02	0.05	0.1	0.2	0.5	Total	deadweight Approx. kg
1 *		0.005		1	1	1	2	2	8			1.005	5
2 *	0.05	0.01	1/2	1		1	2	2	2	8		2	10
3	0.05			1		1	2	2	2	1	5	3.1	16
5		0.05		1				1	2	1	9	5	26

Dimensions





ACCESSORIES & OPTIONS

	Mountir	ng base	Spare parts, tools, accessories									
Model	Connection	Connecting method	Adapter				O-ring	Piston	Wrench and other	Case (option)		
			G1/4	G3/8	G1/2	G3/4	and gasket	Gasket	tools	Carrying case	Weight box	
PD13	Adapter	Quick fastening nut	1	2	2	_	P7-10	_	_	1	1 to 3MPa 1 5MPa 2	

PD13 Bench Type Deadweight Tester

Model PD 13 - M 1 - L Deadweight type pressure standard ① ② ③ ④ ⑤ ⑥ Model number Product specific		X X 9 0 0 0		×						
Deadweight type pressure standard ① ② ③ ④ ⑤ ⑥		9 10 11		X						
			(12) (12)							
Model number Product specific	cations Additi	ional specification	(2) (3)	(4) (15)						
i i i i i i i i i i i i i i i i i i i	·		ons (Optiona)						
① M MPa Units										
	±0.2% O.R. (Body color: Mustard yellow)									
	±0.1%O.R. (Body color: Pearl light green) (Except 1MPa and 2MPa)									
4	1 1									
and unit of magazina along with (MDa)	2 2									
corresponding ordering code.) 3 3 4 5	3									
⑤ Deadweight finish		⑥Carrying case	⑦Weight box							
	Ni plating (Standard) 0 0									
	plating+Carrying of		1	0						
4 Ni r	plating+Carrying o	case+Weight box	1	1 to 4						
5 Ni r	plating+Weight bo	OX	0	1 to 4						
<u></u>	0 Not required									
Carrying case 1	Required									
· · · · · · · · · · · · · · · · · · ·	0 Not red	quired								
Weight box	1 With case for 1MPa									
	2 With case for 2 MPa									
	3 With case for 3 MPa									
	4 With c	case for 5 MPa	d inconcation							
(8) Pressure stationspection /	re standard (Accuracy: ±0.2%O.R.)									
certification)		CSS certificate of calibration							
	4	Inspection certific Traceability certific	ficate (NCSS)							
9		0 Not requir	ed							
Oth spe	ner additional ec.	Other un	Required (Specify required additional specs below) Other units than "SI" (Export purpose only)							
(5)		0 Not requir	Not required							
[Remarks] JCSS calibration is not available for the range 1 and 2MPa. *Specify code "X" to refer N/A	Documents 1 Required (Documents available upon request) Datasheet (Drawing / Specifical Instruction manual Inspection procedure Attending inspection									

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 PD13 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
1 to 5MPa: Machine oil (VG8)

Documents

Specify "Document name" when required

Document name	Applicable document	Explanation				
	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				
Additionally available traceability certificate	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.				
	jcss 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

