PD51

Portable Type Deadweight Tester

Features

•Standard comes with level and horizontal adjustment.

- •Considering portable operation, improved with larger amount of operating oil than conventional model and easy recognition of remaining oil.
- •The pressure gauge can be easily mounted and dismounted from the mounting base with the quick fastening nut.
- •Efficient pressure measurement featured with two pressure ports.
- JCSS Calibration Certification
- •NKS Inspection Certificate and Pressure standard Inspection available.

Specifications

Туре	Portable (Bench) type
Operating fluid	Hydraulic fluid
Operation	Manual
Pressure range	e 1→50MPa
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.)

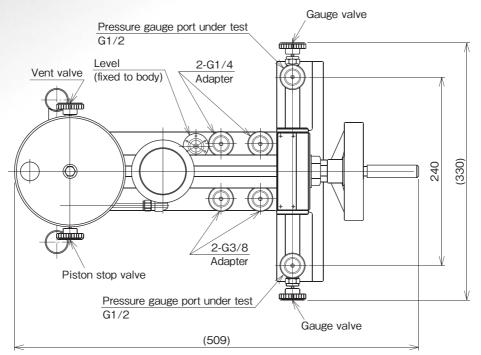
Body weight Approx. 15kg

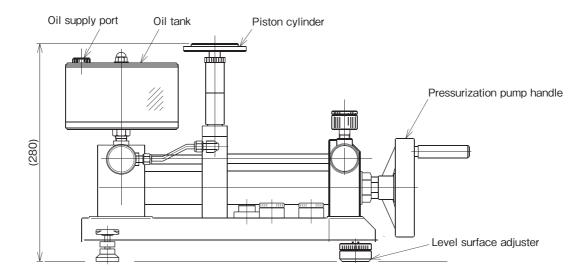
Measurement range MPa					Deadweight MPa											Net weight			
weasu	lrennenn	range mPa	sectional area				Number of weights by value										Total	of deadweight	
Max.	Min.	Smallest graduation	cm ²	0.05	0.1	0.2	0.005	0.01	0.02	0.05	0.1	0.2	0.3	0.5	1	2	5	Total	Approx. kg
1 *		0.005		1			1	1	2	2	8							1.005	5
2 *	0.05	0.5	1/2	1				1	2	2	2	8						2	10
3	0.05	0.01		1				1	2	2	2	1		5				3.1	16
5				1						1	2	1		9				5	26
10	0.1	0.05	1/4		1					1	2	1		1	9			10.05	26
20	0.2		1/4		1					1	2	1		1	3	8		20.05	51
30	0.5 0.1	0.1 1/8			1					1	2	1	1	1	2	5	31.5	40	
50			1/8			1					1	2	1	1	1	2	9	51.5	66

Deadweight composition

*0.1%0.R. is not available.

Dimensions

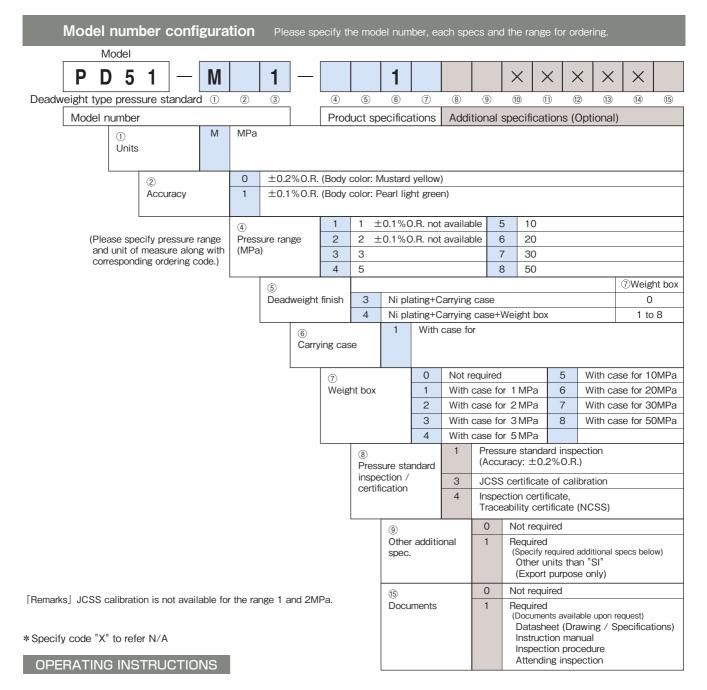




ACCESSORIES & OPTIONS

	Mountii	Mounting base		Spare parts, tools, accessories									
Model	Model Connection	Connecting method		Ada	pter		O-ring	Piston	Case (option)				
			G1/4	G3/8	G1/2	G3/4	and gasket	Gasket	Carrying case	Weight box			
PD51	Adapter	Quick fastening	2	2	2	_	P7-10	_	1 (Standard)	1 to 3MPa 1 5, 10, 30MPa 2			
		nut								20, 50MPa 3			

PD51 Portable Type Deadweight Tester



•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 PD51 is not only dangerous but possibly damage the tester.

The deadweights are precisely manufactured. Do not fabricate with sandpaper or drop them.

Ouse 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. pressureOperating oil1 to 5MPa:Machine oil (VG8)10MPa:Machine oil (VG22)20 to 50MPa:Machine oil (VG46)

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

