

PD36

Deadweight testers for High Pressure



Features

- The PD36 is electric deadweight tester with easy manipulation by actuation of switch controlling pressurization and depressurization, rotation frequency and preliminary pressurization. The PD36 pressurizing operation is also electrically driven.
- Taking dust proofing and safety into account, the deadweight section is built-in a panel.
- The amount of deadweight is displayed on a panel which can be easily monitored and manipulated.
- The ram position is detected contactless and is displayed by a lamp on a panel so that operation is not affected regardless of its pressure value.
- With the PD36, fine adjustment of the pressure can be easily performed even under very high pressure by means of a fine adjustment valve.
- JCSS Calibration Certification (Measuring range 400, 500MPa)
- NKS Inspection Certificate

Specifications

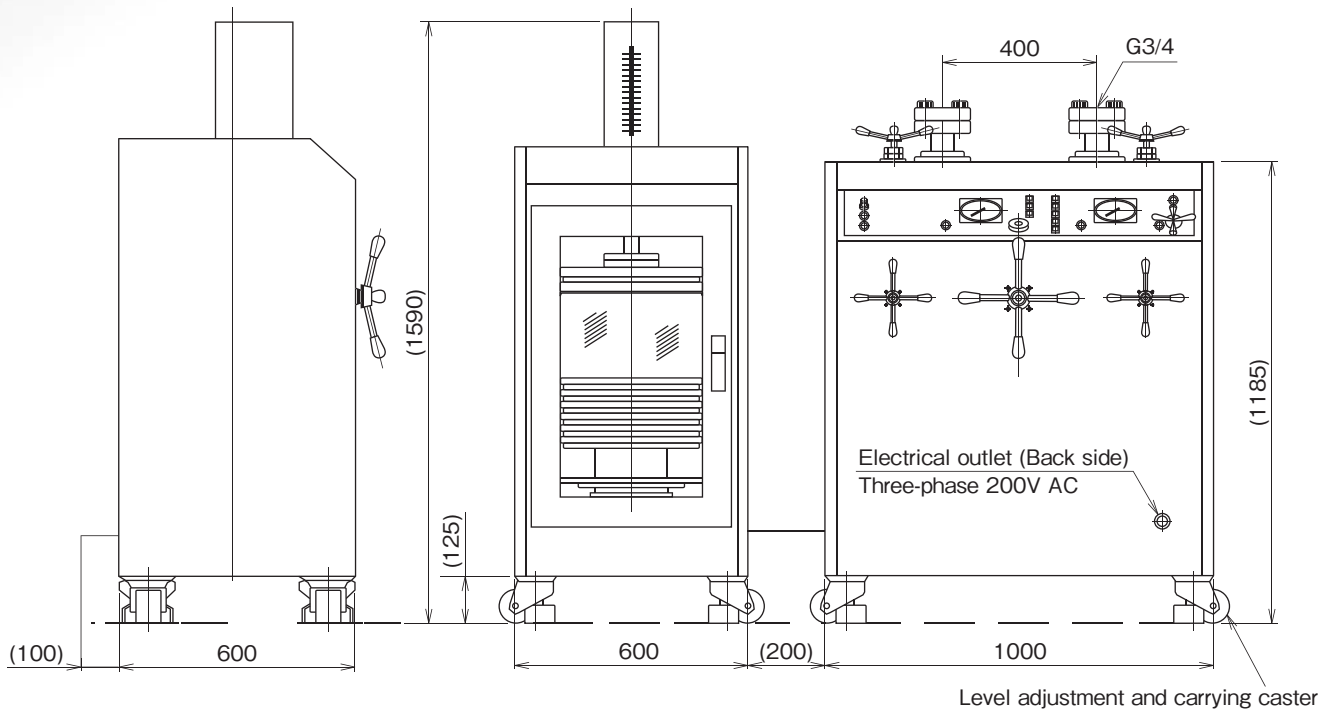
Type	Floor type
Operating fluid	Hydraulic fluid
Operation	Electric
Pressure range	400, 500, 600, 700MPa
Accuracy	±0.2% of reading
	Primary pressure measurement only. Secondary pressure measurement range covers lower outside range of primary pressure measurement range (10% of maximum rated pressure). 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	Light gray
Body weight	320kg

Deadweight composition

Measurement range Mpa			Effective sectional area cm ²	Deadweight Mpa			Net weight of deadweight Approx. kg	Power supply
Max.	Min.	Smallest graduation		Piston + Spindle-shaped	Number of weights by value	Dividable deadweight		
				50	50			
400	50	50	1/20	1	7	400	229	Three-phase 200V AC 50/60Hz
500				1	9	500	280	
600				1	11	600	331	
700				1	13	700	382	

For easy transportation, PD35 deadweight is disassembled when it is shipped. Make sure to assemble by customer when in use in accordance with procedure written in instruction manual. Consult us for 700MPa or higher range.

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
PD36	Adapte	Quick fastening nut	—	—	—	—	Cone gasket 5	Complete set	Complete set	—	—

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Model number configuration

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

Model		Deadweight type pressure standard															
P D 3 6		M	0	1		X	X	X				X	X	X	X	X	
Model number		Product specifications															
Additional specifications (Optional)																	
① Units	M	MPa															
② Accuracy	0	±0.2%O.R.															
(Please specify pressure range and unit of measure along with corresponding ordering code.)	④ Pressure range (MPa)	4	400														
		5	500														
		6	600														
		7	700														
⑧ Certification	3	JCSS certificate of calibration															
	4	Inspection certificate, Traceability certificate (NCSS)															
⑨ Other additional spec.	0	Not required															
	1	Required (Specify required additional specs 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															

[Remarks] JCSS calibration is not available for the range 600 and 700MPa.

* 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 PD36 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

400 to 700MPa: Special oil (Specified by Nagano Keiki)

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

