

PD35 Floor Installation type Dead-weight Testers

OUTLINE

The PD35 dead-weight testers are used as the standard pressure gauge for inspection and calibration of other pressure gauges. They can be used as an on-site pressure standard over a wide high pressure range (100 to 300MPa).

FEATURES

- Extremely convenient electrically driven dead-weight testers which let you easily measure high pressures by performing dead-weight loading/unloading, ram rotation and preliminary pressurization by switch.
- Taking dust proofing and safety into account, the dead-weight section is housed in a panel.
- The amount of dead-weight is displayed on a panel and can be easily monitored and manipulated.
- Re-entrant type pressure sensing ram cylinder assembly allows stable pressure measurement even under high pressure.
- The ram position is detected contactlessly and is displayed by a lamp on a panel so operation unaffected by the pressure value is easy.
- Jcss Calibration Certificate : (Measurement ranges 100, 200MPa)
- NKS Inspection Certificate and standard inspection : (Measurement ranges 100, 200 and 300MPa)

SPECIFICATION

Type:
Floor installation type

Fluid:
Hydraulic fluid

Operation:
Electrical drive system

Pressure range:
100, 200, 300MPa
(0.1%O.R. is not available for 300MPa.)

Accuracy:
±0.1% of reading (100, 200MPa)
±0.2% of reading

Color of finish:
Light gray

Body weight:
320kg

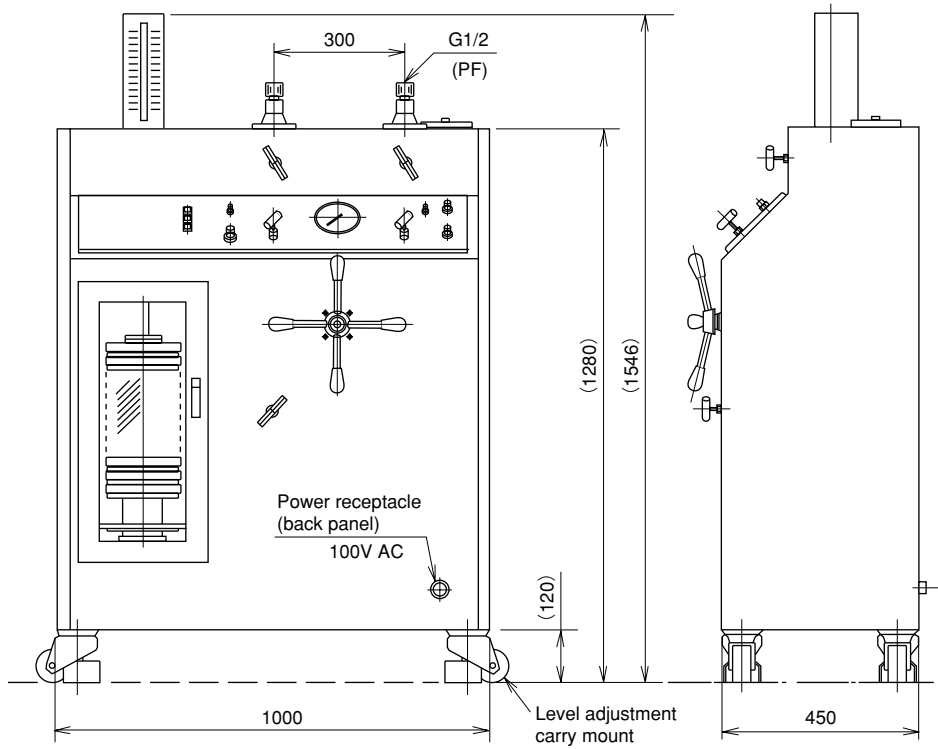
Dead-weight composition

Measurement range MPa			Effective sectional area cm ²	Dead-weight correspondence MPa									Net weight of entire dead-weight Approx. kg	Power source
Max.	Min.	Smallest graduation		Piston+Bell			Dead-weight			Separate dead weight		Total		
				5	10	20	5	10	20	5	10			
100	5	5	1/10	1			9	5		1		105	100V AC 50/60Hz	
200	10	10	1/20		1		9	5		1		210		
300*	20		1/32			1			14		1			310

The PD35 dead-weight testers are shipped by disassembling and storing the dead weights. Assemble and install the tester based on the instruction manual.
*0.1%O.R. is not available.

PD35 Floor Installation type Dead-weight Testers

DIMENSIONS



ACCESSORIES & OPTIONS

Model	Gauge mount		Spare parts, tools, accessories										
	Adjusting bolt	Connection system	Intermediate joint				O-ring and packing	Piston Packing	Wrenches and other tools	Pointer remover	Pointer hammer	Case (option)	
			G1/4	G3/8	G1/2	G3/4						Body	Dead-weight
PD35	Intermediate joint use	Quick fastening joint	2	2	2	—	P7-40	8DIA.-3	1 set	1	1	—	—

PD35 Floor Installation type Dead-weight Testers

OPERATING INSTRUCTIONS

- Avoid installation in places exposed to such conditions as excessive vibration, dirt and dust, corrosive atmosphere, and direct sunlight.
- Always install the dead-weight meter horizontally. If not installed horizontally, the correct pressure will not be indicated.
- Do not increase or decrease the pressure suddenly because it is dangerous. (Open and close the valves slowly.)
- Applying a pressure over the maximum pressure indicated on the PD35 is not only dangerous, but may also damage the tester.
- The dead-weights are precision manufactured. Do not file them with sandpaper and do not drop them.
- Use a tank siphon to calibrate "No oil" pressure gauges and be sure that oil does not enter the pressure gauge.
- Use clean hydraulic oil. Refer to the following table and select the oil according to the maximum pressure of the equipment used.

Max. pressure Oil

100~300MPa : Turbine oil (ISO VG32)

Model number configuration

For ordering, please specify the model number, each specs and range.

P D 3 5	—	M	1	—	×	×	×	×	×	×	×	×	×	×	×		
Dead-weight type pressure standard		①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	
Model		Selective spec.						Additional spec. (Option)									
① Units		M	MPa														
② Accuracy (%O.R.)		0	0.2														
		1	0.1 (Except 300MPa)														
(When ordering, please specify the range and units separately.)		④ Pressure range (MPa)		1	100												
				2	200												
				3	300												
				⑧ Standard inspection/certification		1	Standard inspection (accuracy: 0.2%)										
						3	Jcss calibration certificate										
						4	Inspection certificate										
				⑨ Other additional specifications		0	Nil										
						1	Required (Please specify the desired documents separately.) Units specification (bar)										
				⑮ Documents		0	Nil										
						1	Required (Please specify the desired documents separately.) Submission drawings, instruction manual, inspection procedure, attended inspection										

Specify "X" if there is no specification item.



NAGANO KEIKI CO., LTD.

OVERSEAS SALES DEPT

: 1-30-4, HIGASHIMAGOME OHTA-KU, TOKYO, JAPAN

Phone : +81-3-3776-5328

F a x : +81-3-3776-5447

E-mail : overseas_sales_dept@naganokeiki.co.jp

URL : <http://www.naganokeiki.co.jp/>

GERMANY

- ADZ NAGANO GmbH
Bergener Ring 43
01458 Ottendorf-Okrilla
Phone : +49-35205-596930
F a x : +49-35205-596959
- Nagano Keiki Solutions Support Center
Bergener Ring 43
01458 Ottendorf-Okrilla
Phone : +49-35205-75701
F a x : +49-35205-75702

CHINA

- NAGANO FUKUDA (Tianjin)
Instruments CO., LTD.
10 Muning 1st Avenue TEDA Tianjin China
Phone : +86-22-5981-0966
+86-22-6620-4348
F a x : +86-22-5981-0967
+86-22-6620-4349

KOREA

- KOREA NAGANO CO., LTD.
#296-2 Osan-ri,
Dongtan-myun, Hwaseong-shi,
Kyonggi-do, Korea
Phone: +82-31-379-3934
F a x : +82-31-379-3936

JAPAN

- OVERSEAS
SALES DEPT.

U.S.A.

- DRESSER-NAGANO, INC.



- OVERSEAS PLANT
- OVERSEAS SALES NETWORK

Gets ISO 9001, ISO 14001, ISO/TS 16949 Certification

The contents in the catalogue are subject to change without notice.