



JCSS
0080

0080 is the logo for the traceability system under the Weight and Measure Act. The Ueda measuring instrument plant of NKS CO., LTD. is an approved place of business of category "Pressure" and "0080" is its qualification number.

PD73 Portable type Dead-weight Testers

OUTLINE

The PD73 dead-weight testers are used as the standard pressure gauge to inspect and calibrate other pressure gauges. They can be used as on-site portable pressure standards over a wide medium to high pressure range (1 to 50MPa).

FEATURES

- Because the PD73 are portable, they are extremely convenient dead-weight testers which let you easily and quickly measure pressure at any site.
- Portable case, level adjustment bolts, and level are standard equipment.
- Pressure can also be measured by using a standard pressure gauge instead of the dead-weight.
- They can be carried with oil in the oil tank.
- Quick fastening joint at the pressure gauge port makes pressure gauge mounting and dismounting easy.
- Jcss Calibration Certification
- NKS Inspection Certificate and Standard Inspection

SPECIFICATION

Type:
Portable type

Fluid:
Hydraulic fluid

Operation:
Manual

Pressure range:
1→50MPa
(0.1%O.R. is not available for 1MPa and 2MPa.)

Accuracy:
±0.1% of reading
±0.2% of reading

Color of finish:
Pearl light green (0.1%O.R.)
Mustard yellow (0.2%O.R.)

Body weight:
5.7kg

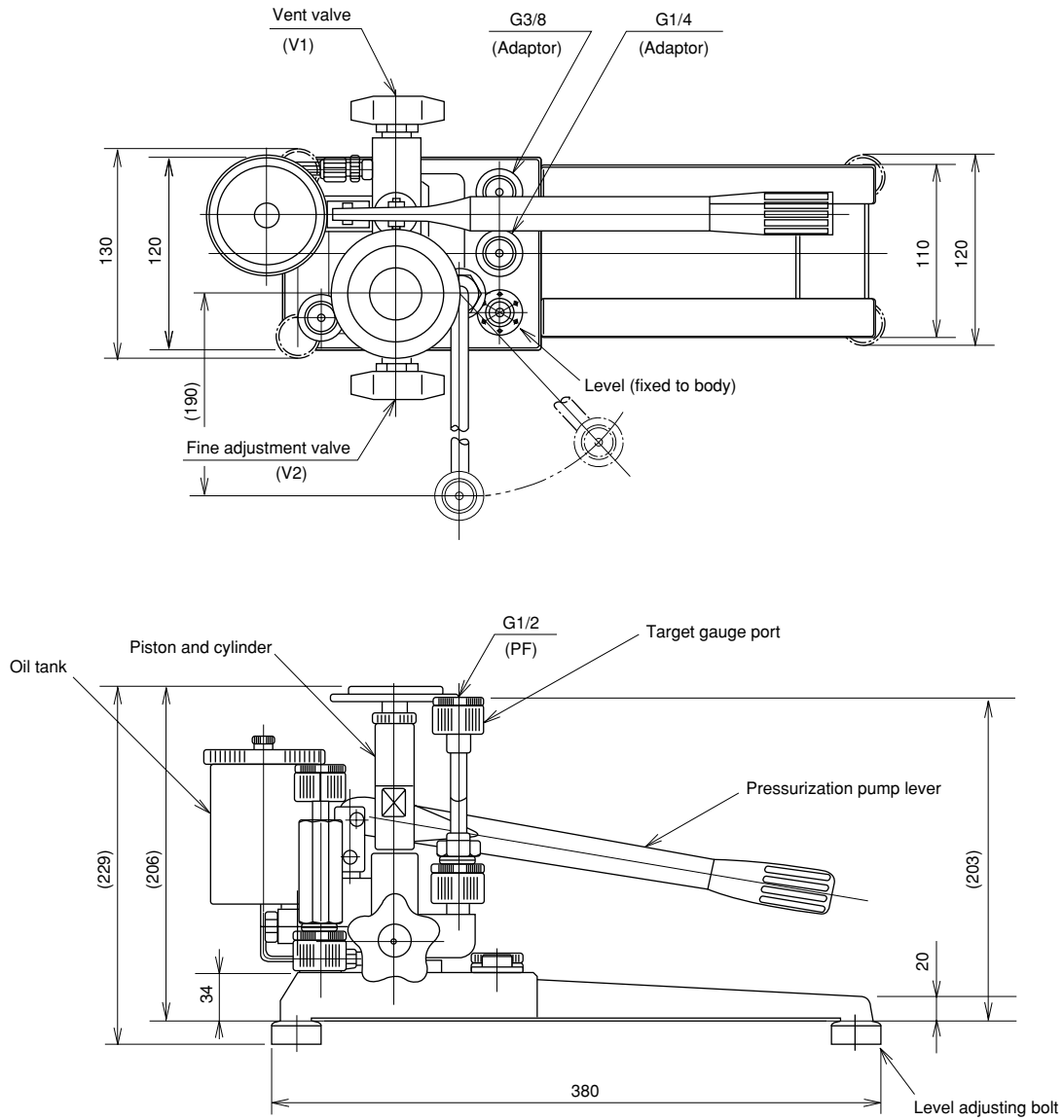
Dead-weight composition

Measurement range MPa			Effective sectional area cm ²	Dead-weight correspondence MPa													Net weight of entire dead-weight Approx. kg		
Max.	Min.	Smallest graduation		Piston			Dead-weight							Total					
				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
1 ※	0.05	0.005	1/2	1			1	1	2	2	8						1.005	5	
2 ※				1				1	2	2	2	8						2	10
3				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				1	2	1		1	3	8		20.05	51	
30	0.5	0.1	1/8			1					1	2	1	1	1	2	5	31.5	40
50						1					1	2	1	1	1	2	9	51.5	66

*0.1%O.R. is not available.

PD73 Portable type Dead-weight Testers

DIMENSIONS



ACCESSORIES & OPTIONS

Model	Gauge mount		Spare parts, tools, accessories									Case (option)	
	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
PD73	Intermediate joint use	Quick fastening joint	1	1	1	—	P7-15	—	Wrench only	1	1	1 (Standard equipment)	1~3MPa 1 5, 10, 30MPa 2 20, 50MPa 3

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 PD73 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
1~5MPa :	Machine oil (VG8)
10MPa :	Machine oil (VG22)
20~50MPa :	Machine oil (VG46)

Model number configuration

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

Model		Selective spec.					Additional spec. (Option)							
① Units	M	MPa												
② Accuracy (%O.R.)	0	0.2												
(When ordering, please specify the range and units separately.)	④ Pressure range (MPa)	1	1			5	10							
		2	2			6	20							
		3	3			7	30							
		4	5			8	50							
⑤ Dead-weight finish	3	Ni plating (Standard)												
⑥ Case	1	With case												
⑦ Dead-weight case	0	Nil			5	With case for 10MPa								
	1	With case for 1MPa			6	With case for 20MPa								
	2	With case for 2MPa			7	With case for 30MPa								
	3	With case for 3MPa			8	With case for 50MPa								
	4	With case for 5MPa												
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

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