

# PD63 Bench type Dead-weight Testers

## OUTLINE

The PD63 Dead-Weight Testers are standard pressure gauges for inspection and calibration of other pressure gauges. They can be used as on-site bench type pressure standards in the high pressure range (100 to 200MPa).

## FEATURES

- The PD63 are small, easy-to-use bench type dead-weight testers which can easily measure high pressures.
- Preliminary pump simplifies pressure rise. Continuous discharge is also possible.
- The pressure gauge can be easily mounted to and dismantled from the mounting base with the quick fastening joint.
- Level, and level adjustment bolts are standard equipment.
- Jcss Calibration Certification
- NKS Inspection Certificate and Standard Inspection

## SPECIFICATION

**Type:**  
Bench type

**Fluid:**  
Hydraulic fluid

**Operation:**  
Manual

**Pressure range:**  
100, 200MPa

**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.)

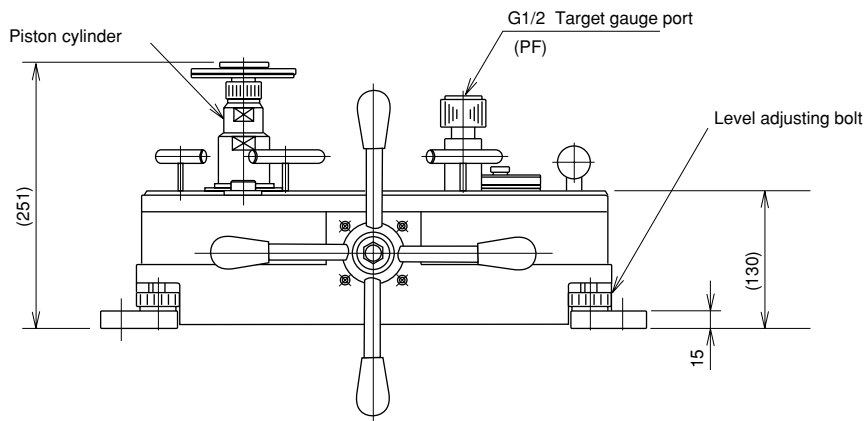
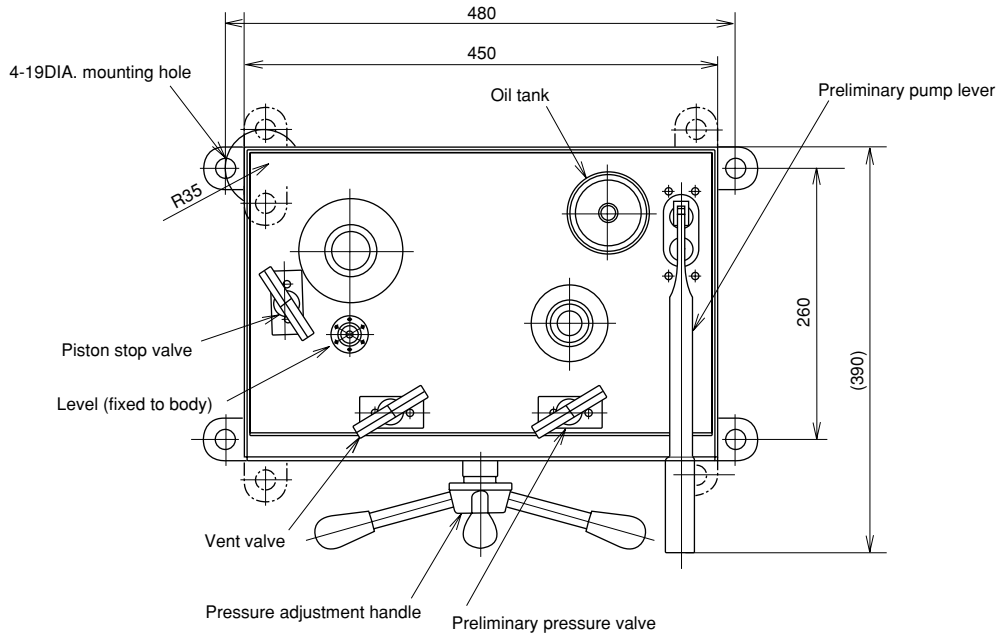
**Body weight:**  
25.5kg

### Dead-weight composition

Measurement range MPa			Effective sectional area cm <sup>2</sup>	Dead-weight correspondence MPa									Net weight of entire dead-weight Approx. kg
Max.	Min.	Smallest graduation		Piston		Dead-weight						Total	
				1	2	0.5	1	2	5	10	20		
100	1	0.5	1/16	1		1	2	1	1	9		100.5	64
200	2	1	1/32		1		1	2	1	1	9	202	64

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## 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
PD63	Intermediate joint use	Quick fastening joint	1	1	1	—	P7-10	8DIA.-2	1 set	1	1	—	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 PD63 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**  
 100~200MPa : Turbine oil (ISO VG32)

## Model number configuration

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

<b>P D 6 3</b>	—			<b>M</b>	<b>1</b>	—			<b>2</b>	<b>0</b>			×	×	×	×	×		
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																	
(When ordering, please specify the range and units separately.)	④ Pressure range (MPa)	1	100																
		2	200																
⑤ Dead-weight finish	2	Ni plating (Standard)																	
⑥ Case	0	Nil																	
⑦ Dead-weight case	0	Nil																	
	1	With case																	
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) With casters specification																	
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.



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- OVERSEAS PLANT
- OVERSEAS SALES NETWORK

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

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