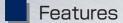
PD23

Bench Type Deadweight Tester





- •The PD23 is for medium pressure use. A preliminary pump and fine adjustment pump are incorporated to make pressure adjustment easily.
- ·Since there are two gauge ports, pressure measurements can be performed efficiently.
- Pressure can also be measured by installing a test gauge to one of the gauge ports instead of deadweight.
- The pressure gauge can be easily mounted and dismounted from the mounting base with the quick fastening nut.
- ·Level, and level surface adjuster are the standard equipment.
- ·JCSS Calibration Certification
- •NKS Inspection Certificate and Pressure standard Inspection available.

Specification

Type Bench type

Operating fluid Hydraulic fluid

Operation Manual

Pressure range 10 to 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.)

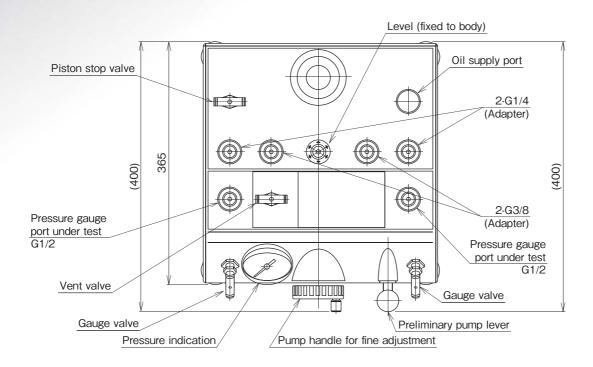
Body weight 14kg

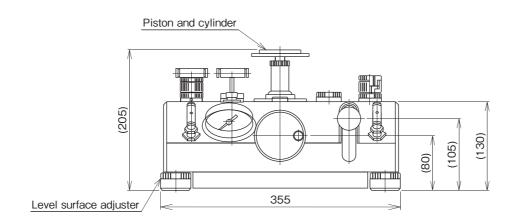


Deadweight composition

| Maga | Management reason MDs | | Effective | Deadweight MPa | | | | | | | | | | | Net weight | | | | | |
|----------------------------|-----------------------|---------------------|-------------------------|----------------|-----|------|-----|-----|-----|-----|---|---|---|-------|--------------------------|---|---|---|------|----|
| Wicasarchicht fange ivii a | | | sectional | Piston | | | | | of | | | | | | | | | | | |
| Max. | Min. | Smallest graduation | area cm ² | 0.1 | 0.2 | 0.05 | 0.1 | 0.2 | 0.3 | 0.5 | 1 | 2 | 5 | Total | deadweight Approx. kg | | | | | |
| 10 | 0.1 | 0.05 | 1/4 | 1 | | 1 | 2 | 1 | | 1 | 9 | | | 10.05 | 26 | | | | | |
| 20 | 0.2 | 0.05 | 1/4 | 1 | | 1 | 2 | 1 | | 1 | 3 | 8 | | 20.05 | 51 | | | | | |
| 30 | 0.5 | 0.1 | 1 /0 | | 1 | | 1 | 2 | 1 | 1 | 1 | 2 | 5 | 31.5 | 40 | | | | | |
| 50 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1/8 | | 1 | | 1 | 2 | 1 | 1 | 1 | 2 | 9 | 51.5 | 66 |

Dimensions





ACCESSORIES & OPTIONS

| | Mountir | ng base | Spare parts, tools, accessories | | | | | | | | | | | |
|-------|------------|--------------------|---------------------------------|-----|---------------|--------|--------|---------------|------------------|--------|----------------|--|--|--|
| Model | Connection | Connecting | | Ada | pter | | O-ring | Piston | Wrench and other | Case (| option) | | | |
| | Connection | method | 0.1.4 | | and gasket | Gasket | tools | Carrying case | Weight box | | | | | |
| DD00 | Adapter | Quick fastening | 2 | 2 | 2 | | P7-10 | | | 1 | 10, 30MPa 2 | | | |
| PD23 | Adapter | nut | 2 | 2 | 2 | _ | P7-10 | _ | _ | ı | 20, 50MPa 3 | | | |

PD23 Bench Type Deadweight Tester

| Model | num | ber | confi | gura | tion | Ple | ase sp | ecify th | ne mod | el num | ber, ea | ich spe | ecs and | d the ra | inge fo | r order | ing. | | | |
|-------------------------------------|--------------|-------|-------------------------|------|---|----------|-------------------|----------|-------------|-------------|-----------------------|----------|---------|----------------------|--|--|--------------------|-----------------------|----------|--|
| Model | | | | | | | | | | | | | | | | | | | | |
| PC | 2 | 3 |]_ | M | | 1 | | | | | | | | × | X | × | × | × | | |
| Deadweight type pressure standard ① | | | | | 2 | 3 | | 4 | (5) | 6 | 7 | 8 | 9 | 10 | 11) | 12 | 13 | (14) | 15 | |
| Model r | Model number | | | | | | | Prod | uct sp | ecifica | tions | Addi | tional | specifi | cation | s (Opt | ional) | | | |
| ① Units | | | | | MPa | MPa | | | | | | | | | | | | | | |
| | 2 | | | | 0 ±0.2%0.R. (Body color: Mustard yellow) | | | | | | | | | | | | | | | |
| | Accuracy | | | | 1 ±0.1%O.R. (Body color: Pearl light green) | | | | | | | | | | | | | | | |
| | | | | | 4 | | | 5 | 10 | | | | | | | | | | | |
| | | | ressure ra ure along | | Press (MPs | sure rar | nge | 6 | 20 | | | | | | | | | | | |
| | | | dering co | | (IVIF | a) | | 7 | 30 | | | | | | | | | | | |
| | | | | | | (5) | | 8 | 50 | | | | | | | @Carry | _ | ⑦Weig | tht box | |
| | | | | | | | Deadweight finish | | | | Ni plating (Standard) | | | | | | case | | | |
| | | | | | | | | | 2 | - | | arrying | | | | 0 | | 0 | | |
| | | | | | | | | | 4 | - | | arrying | | Weight | hox | 1 | | 1 to | | |
| | | | | | | | | | 5 | | | Veight b | | VVCIBITE | DOX | 0 | | 1 to | | |
| | | | | | | | (6) | | | 0 | | equired | | | | | | | | |
| | | | | | | | _ | ring cas | se | 1 | Requ | ired | | | | | | | | |
| | | | | | | | | 7 | | | 0 | Not re | equired | | | | | | | |
| | | | | | | | | | ht box | | 1 | With | case fo | or 10MF | Pa | | | | | |
| | | | | | | | | | | | 2 | - | | or 20MF | | | | | | |
| | | | | | | | | | | | 3 | | | or 30MF | | | | | | |
| | | | | | | | | | | | 4 | vvitn | | or 50MF | | inspecti | on | | | |
| | | | | | | | | | 8 Pressi | ure stan | dard | | (Accı | uracy: = | ±0.2% | O.R.) | | | | |
| | | | | | | | | | certific | | | 3 | | | | calibra | tion | | | |
| | | | | | | | | | | | | 4 | Trace | ection c eability | | te, ate (NC | SS) | | | |
| | | | | | | | | | | 9 | | | 0 | | equired | d | | | | |
| | | | | | | | | | | Other spec. | additio | onal | 1 | | uments a | available s than ": | | equest) oort purpo | se only) | |
| | | | | | | | | | | 15 | | | 0 | Not r | equired | 1 | | | | |
| *Specify | code " | X" to | refer N/ | Ā | | | | | | Docu | ments | | 1 | Dat Inst Insp | uments a asheet ruction pection | available (Drawir manua procedi inspecti | ng / S I ure | equest) pecifica | tions) | |

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 PD13 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 for your reference to select appropriate operating oil according to ranges.

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

