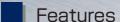
PD77

Water Type Deadweight Tester





- •Deadweight tester equipped two pressure valves contribute for rapid pressurizing on site at arbitrary location.
- ·Fine pressure adjustment available
- ·Carryable being filled with water
- Piston and cylinder are precisely fabricated. Operating media is water with less viscosity so that stable and high sensitive measurement are possible.
- ·Less piston area and weight as compared to conventional deadweight tester. (1/2 of oil type)
- •There is no need to prepare "Tank siphon" even for no oil pressure gauge test.
- Standard pressure tester can be utilized for measurement.
- •The pressure gauge can be easily mounted and dismounted from the mounting base with the quick fastening nut.
- •NKS Inspection Certificate and Pressure standard Inspection available.

Specification

Туре	Portable type
Operating fluid	Water (Purified water or pure water) [™]
Operation	Manual
Pressure range	1 to 20MPa
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
Effective volume	Approx. 280ml
Discharged volume	Low pressure Approx. 12.5ml/stroke High pressure Approx. 12.5ml/stroke
Body color	Light beige
Body weight	Approx. 11kg
**Purified water···	····Purified water by distillation, ionic exchange, super-filtration or

combination of them. without pollution or bacterium (Japanese Pharmacopoeia)
Refined by ionic exchange, super-filtration or combination of them.



Deadweight composition

Pres	ssure rar		Effective				Deadweight MPa																	
Max.	Min.	Smallest	sectional area		Piston				1	Number o	f weights	s by value	Э			Total								
iviax.	IVIII I.	graduation		0.05	0.1	0.2	0.005	0.01	0.02	0.05	0.1	0.2	0.5	1	2	Total								
1		0.005		1	_	_	1	1	2	2	8	_	_	_	_	1.005								
2	0.05	0.05	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1/4	1	_	_	_	1	2	2	2	8	_	_	_	2
3	0.05	0.01	0.01		1/4	1/4	1	_	_	_	1	2	2	2	1	5	_	_	3.1					
5		0.05		1	_	_	_	_	_	1	2	1	9	_	_	5								
10	0.1	0.05	1/0		1	_	_	_	_	1	2	1	1	9	_	10.05								
20		0.2	0.05	0.05	1/8	_	1	_	_	_	_	1	2	1	1	3	8	20.05						

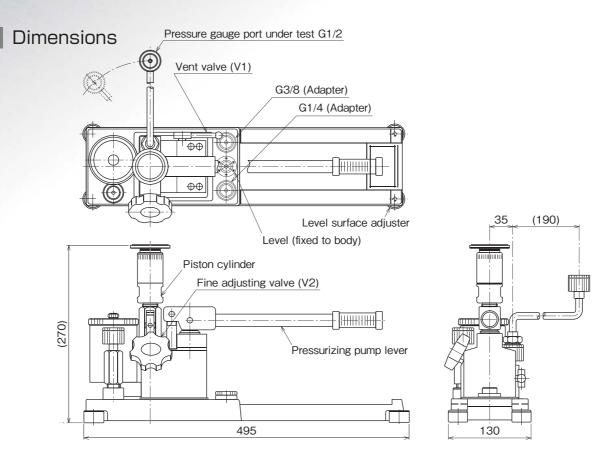
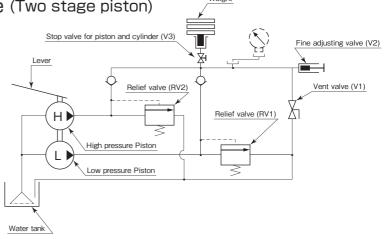


Diagram of internal structure (Two stage piston)

By moving the pressurizing pump lever up and down, both low and high pressure side piston function at the same time for rapid pressurization. From the point where low pressure side piston is released, pressure can be increased at arbitrary point with high pressure side piston.



ACCESSORIES & OPTIONS

	Mountir	ng base	Spare parts, tools, accessories													
Model	Model Connection	_		Ada	pter		Adapter	L adapter	0-ring		Wrench	Case (option)				
IVIOGEI		Connecting method	G1/4	G3/8	G1/2	G3/4	for test gauge	for instrument under test	and gasket	Piston Gasket	and other tools	Carrying case	Weight box			
PD77	Adapter	Quick fastening nut	1	1	_		1	1	P7-10	_	_	1	_			

PD77 Water Type Deadweight Tester

Model	num	ber d	confi	gura	tion	Ple	ase sp	ecify th	ne mod	el num	ber, ea	ich spe	ecs and	d the ra	ange fo	r order	ing.					
N	lodel						_															
Р	7	7	_	M	0	1	_			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	ations	Addi	tional	specif	ication	s (Opt	ional)					
	① Units					//Pa																
		② Accu	racy		0	0 ±0.2%0.R.																
					4)	•		1	1													
	se spec					sure rar	nge	2 2														
	unit of a				(MPa)		3	3													
								4 5	5 10													
								6	20													
						(5)		U	20									⑦Weig	ht box			
						_	lweight	finish	3	Ni pla	ating+C	arrying	case					0				
									4	Ni pla	ating+C	arrying	case+	Weight	box			1 to	6			
							⑥ Carry	ring cas	se	1	Requ	ired										
								(7)			0	Not r	equired	ı								
					Weight box						1	With	ith case for 1MPa									
											2	With case for 2MPa										
											3	-		or 3MP	-							
											5			or 5MPa or 10MF								
											6			or 20MF								
									® Press	sure sta	indard	1	Press	sure sta		nspecti O.R.)	on					
										ction / ication		4			ertifica certific	te, ate (NC	SS)					
										9			0	Not r	equired	l						
										Other spec.	r additio	onal	1	Oth	cify requ er units	ired addi s than ": rpose oi	SI"	oec. belo	w.)			
										15)			0		equired							
*Specify code "X" to refer N/A										Documents 1 Required (Documents available upon reque Datasheet (Drawing / Spec Instruction manual Inspection procedure Attending inspection						tions)						

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

