Deadweight tester // Hydraulic // 0.25...1400 bar



Type ODWT15



Masses

Highlights

- Highest precision with an accuracy of 0.015 %
- Including adaptation to the local normal case acceleration
- Interchangeable piston: Extended calibration range with only one mass set

Technical data	
Type	**ODWT15**
Pressure ranges	0.25...1,400 bar depending on piston and mass set
Accuracy	0.015 % of reading
Pressure units	Bar
Pressure medium	Oil DWT Miglyol 812N Sasol
Temperature range	18...22 °C
Pressure connection	G⅜ LH male with adapters G⅛, G¼, G⅜, G½ female
Version	
Dimension → without weights → with weights	 Approx. 340 x 225 x 220 mm (H x B x T) Maximum height 450 mm
Weight + Mass set	Approx. 12.6 kg (without masses) up to 56 kg

Options	
For type	**On request**
ODWT15	Other pressure units: PSI, kPa, MPa und kg/cm²

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Materials

Materials	
Housing	Stainless steel for all wedded parts
Piston cylinder assembly	Tungsten carbide
Mass sets	non magnetic stainless steel plates
O-ring seals	NBR

Piston numbers and measuring ranges

Piston number and measuring ranges					**Equivalent of mass [bar]**							
1					0.25	0.025	0.05	0.25	0.5	2.5	5	
	2				0.5	0.05	0.1	0.5	1	5	10	**Total weight mass set**
		3			1	0.1	0.2	1	2	10	20	
			4		5	0.25	0.5	2.5	5	25	50	
				5	10	0.5	1	5	10	50	100	
Pressure range [bar]					**Carrier**	**Number of masses**						**[kg]**
0.25...25	0.5...50	1...100	5...250	10...500	1	1	4	1	4	1	4	20
0.25...30	0.5...60	1...120	5...300	10...600	1	1	4	1	4	1	5	24
0.25...35	0.5...70	1...140	5...350	10...700	1	1	4	1	4	1	6	28
0.25...40	0.5...80	1...160	5...400	10...800	1	1	4	1	4	1	7	32
0.25...45	0.5...90	1...180	5...450	10...900	1	1	4	1	4	1	8	36
0.25...50	0.5...100	1...200	5...500	10...1,000	1	1	4	1	4	1	9	40
0.25...55	0.5...110	1...220	5...550	10...1,100	1	1	4	1	4	1	10	44
0.25...60	0.5...120	1...240	5...600	10...1,200	1	1	4	1	4	1	11	48
0.25...65	0.5...130	1...260	5...650	10...1,300	1	1	4	1	4	1	12	52
0.25...70	0.5...140	1...280	5...700	10...1,400	1	1	4	1	4	1	13	56

Example: *Select piston number 3 for a pressure range of 1…180 bar.*
This piston system contains 1 carrier as well as 19 weights in total (1+1/4/1/4/1/8) with a total weight of 36 kg.
You can read how much bar / psi each weight generates under "Equivalent of mass".

Piston number and measuring ranges					**Equivalent of mass [psi]**							
1					5	0.5	1	5	10	50	100	
	2				10	1	2	10	20	100	200	**Total weight mass set**
		3			20	2	4	20	40	200	400	
			4		100	5	10	50	100	500	1000	
				5	200	10	20	100	200	1000	2000	
Pressure range [psi]					**Carrier**	**Number of masses**						**[lbs.]**
5...400	10...800	20...1600	100...4000	200...8000	1	1	4	1	4	1	3	49
5...500	10...1000	20...2000	100...5000	200...10000	1	1	4	1	4	1	4	62
5...600	10...1200	20...2400	100...6000	200...12000	1	1	4	1	4	1	5	73
5...700	10...1400	20...2800	100...7000	200...14000	1	1	4	1	4	1	6	86
5...800	10...1600	20...3200	100...8000	200...16000	1	1	4	1	4	1	7	97
5...900	10...1800	20...3600	100...9000	200...18000	1	1	4	1	4	1	8	110
5...1000	10...2000	20...4000	100...10000	200...20000	1	1	4	1	4	1	9	121

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Article numbers

Order code					
Version					
Bar PSI			ODWT15B ODWT15P		
Piston Set					
Set 1 Set 2 Set 3 Set 4 Set 5				1 2 3 4 5	
Total weight mass set	kg	PSI			
Carrier + Weights	20				20
		22			22
	24				24
	28	28			28
	32				32
		33			33
	36				36
		39			39
	40				40
	44	44			44
	48				48
		50			50
	52				52
		55			55
	56				56
Example order number			**ODWT15B**	**1**	**20**

Order code	
Accessories	
Second piston set Sealings (Spare part) Small mass set	ODWT2PISTON ODWTSEAL ODWTSMS
Rekalibrierung	
ODWT15 with one piston Extra piston	ODWTREKAL1 ODWTREKALZUS

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