

DOS series

oil deadweight testers

DOS0015

The oil operated deadweight tester DOS0015 has an accuracy of 0.015% of reading. This is a typical deadweight tester for industrial use and the weight set is transferred into a pressure unit. A traceable certificate is standard and a RVA certificate is possible as an option. The certificate shows the effective area as well as a list of the weight of each mass. The deadweight tester can be leveled with adjustable feet. An extra set of adjustable feet are included for fixing the deadweight tester to a bench. Five different pistons are available to cover ranges from 0.25 – 25 bar up to 10 – 1400 bar. Also ranges in psi, kPa, MPa and kg/cm² are available.



Ranges

A list of masses corresponding with the ranges is listed below. For small pressure steps a fractional weight set is available as an option.

bar	Piston number and measuring range					Standard								Optional										
						mass set and equivalent of mass in bar																		
mass set	No. 1		No. 2			No. 3				No. 4				No. 5		0.25	0.025	0.05	0.25	0.5	2.5	5	0.0025	0.005
														1	0.1	0.2	1	2	10	20	0.01	0.02		
														5	0.25	0.5	2.5	5	25	50	0.025	0.05		
														10	0.5	1	5	10	50	100	0.05	0.1		
														carrier	number of masses									
20	0.25 - 25	0.5 - 50	1 - 100	5 - 250	10 - 500	1	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4		
24	0.25 - 30	0.5 - 60	1 - 120	5 - 300	10 - 600	1	1	4	1	4	1	4	1	4	1	5	1	4	1	4	1	4		
28	0.25 - 35	0.5 - 70	1 - 140	5 - 350	10 - 700	1	1	4	1	4	1	4	1	4	1	6	1	4	1	4	1	4		
32	0.25 - 40	0.5 - 80	1 - 160	5 - 400	10 - 800	1	1	4	1	4	1	4	1	4	1	7	1	4	1	4	1	4		
36	0.25 - 45	0.5 - 90	1 - 180	5 - 450	10 - 900	1	1	4	1	4	1	4	1	4	1	8	1	4	1	4	1	4		
40	0.25 - 50	0.5 - 100	1 - 200	5 - 500	10 - 1000	1	1	4	1	4	1	4	1	4	1	9	1	4	1	4	1	4		
44	0.25 - 55	0.5 - 110	1 - 220	5 - 550	10 - 1100	1	1	4	1	4	1	4	1	4	1	10	1	4	1	4	1	4		
48	0.25 - 60	0.5 - 120	1 - 240	5 - 600	10 - 1200	1	1	4	1	4	1	4	1	4	1	11	1	4	1	4	1	4		
52	0.25 - 65	0.5 - 130	1 - 260	5 - 650	10 - 1300	1	1	4	1	4	1	4	1	4	1	12	1	4	1	4	1	4		
56	0.25 - 70	0.5 - 140	1 - 280	5 - 700	10 - 1400	1	1	4	1	4	1	4	1	4	1	13	1	4	1	4	1	4		

psi	Piston number and measuring range					Standard								Optional										
						Mass set and equivalent of mass in psi																		
mass set	No. 1		No. 2			No. 3				No. 4				No. 5		5	0.5	1	5	10	50	100	0.05	0.1
																10	1	2	10	20	100	200	0.1	0.2
																20	2	4	20	40	200	400	0.2	0.4
																100	5	10	50	100	500	1000	0.5	1
																200	10	20	100	200	1000	2000	1	2
22	5 - 400	10 - 800	20 - 1600	100 - 4000	200 - 8000	1	1	4	1	4	1	4	1	3	1	4	1	4	1	4	1	4		
28	5 - 500	10 - 1000	20 - 2000	100 - 5000	200 - 10000	1	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4		
33	5 - 600	10 - 1200	20 - 2400	100 - 6000	200 - 12000	1	1	4	1	4	1	4	1	5	1	4	1	4	1	4	1	4		
39	5 - 700	10 - 1400	20 - 2800	100 - 7000	200 - 14000	1	1	4	1	4	1	4	1	6	1	4	1	4	1	4	1	4		
44	5 - 800	10 - 1600	20 - 3200	100 - 8000	200 - 16000	1	1	4	1	4	1	4	1	7	1	4	1	4	1	4	1	4		
50	5 - 900	10 - 1800	20 - 3600	100 - 9000	200 - 18000	1	1	4	1	4	1	4	1	8	1	4	1	4	1	4	1	4		
55	5 - 1000	10 - 2000	20 - 4000	100 - 10000	200 - 20000	1	1	4	1	4	1	4	1	9	1	4	1	4	1	4	1	4		