

# Weight increments for deadweight testers



### **P3000 Pneumatic Deadweight Tester**

High performance gas deadweight tester, with unique suspended piston design for vacuum calibration.



### **P3100 Hydraulic Deadweight Tester**

Highly accurate oil deadweight tester, with quick and easy-to-use single and dual piston deadweight models.



### **P3200 Hydraulic Deadweight Tester**

Hydraulic deadweight tester specially designed to use water as a test medium.

**Deadweight testers use a precision piston-gauge system** consisting of a vertically mounted piston and cylinder assembly, and accurately calibrated weight masses that are loaded onto the piston.

Weight sets are available in a variety of units of measure, such as psi, inH<sub>2</sub>O or MPa, and are calibrated to match a specific deadweight tester. For example, the P3111-BAR is a weight set that matches the P3111 deadweight tester and the weight increments are in units of bar.

The tables in this document indicate the pressure increments found in each weight set that ships with a new deadweight tester, and the quantity of each weight. The tables also apply to conversion weight sets, which provide additional units of measure without purchasing an additional deadweight tester. On certain deadweight testers, a fine increment weight set is also available. This is useful when calibrating a wide range of devices by allowing for more discrete pressure set points. These smaller weights supplement the larger weights to produce fine incremental pressures.

**Weight increments: deadweight testers**

<b>Single piston oil units</b>										
<b>Model Range</b>	<b>P3111-BAR 1 to 35 bar</b>		<b>P3111-KGCM2 1 to 35 kgf/cm<sup>2</sup></b>		<b>P3111-PSI 10 to 500 psi</b>		<b>P3111-MPA 0.1 to 3.5 MPa</b>		<b>P3111-KPA 100 to 3500 kPa</b>	
<b>Wt Carrier</b>	1		1		10		0.1		100	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	4	0.1	4	0.1	4	1	4	0.01	4	10
	1	0.5	1	0.5	1	5	1	0.05	1	50
	4	1	4	1	4	10	4	0.1	4	100
	6	5	6	5	1	50	6	0.5	6	500
					4	100				
<b>Optional Fine Increment Weights</b>	1	0.01	1	0.01	1	0.1	1	0.001	1	1
	2	0.02	2	0.02	2	0.2	2	0.002	2	2
	1	0.05	1	0.05	1	0.5	1	0.005	1	5
<b>Model Range</b>	<b>P3112-BAR 4 to 140 bar</b>		<b>P3112-KGCM2 4 to 140 kgf/cm<sup>2</sup></b>		<b>P3112-PSI 40 to 2000 psi</b>		<b>P3112-MPA 0.4 to 14 MPa</b>			
<b>Wt Carrier</b>	4		4		40		0.4			
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment		
	1	0.1	1	0.1	1	1	1	0.01		
	1	0.2	1	0.2	1	2	1	0.02		
	4	0.4	4	0.4	4	4	4	0.04		
	1	2	1	2	1	20	1	0.2		
	4	4	4	4	4	40	4	0.4		
	6	20	6	20	1	200	6	2		
					4	400				
<b>Model Range</b>	<b>P3113-BAR 10 to 350 bar</b>		<b>P3113-KGCM2 10 to 350 kgf/cm<sup>2</sup></b>		<b>P3113-PSI 100 to 5000 psi</b>		<b>P3113-MPA 1 to 35 MPa</b>			
<b>Wt Carrier</b>	10		10		100		1			
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment		
	4	1	4	1	4	10	4	0.1		
	1	5	1	5	1	50	1	0.5		
	4	10	4	10	4	100	4	1		
	6	50	6	50	1	500	6	5		
					4	1000				
<b>Optional Fine Increment Weights</b>	1	0.1	1	0.1	1	1	1	0.01		
	2	0.2	2	0.2	2	2	2	0.02		
	1	0.5	1	0.5	1	5	1	0.05		

**Weight increments: deadweight testers**

<b>Single piston oil units</b> cont.								
<b>Model Range</b>	<b>P3114-BAR 20 to 700 bar</b>		<b>P3114-KGCM2 20 to 700 kgf/cm<sup>2</sup></b>		<b>P3114-PSI 200 to 10,000 psi</b>		<b>P3114-MPA 2 to 70 MPa</b>	
<b>Wt Carrier</b>	20		20		200		2	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	4	2	4	2	4	20	4	0.2
	1	10	1	10	1	100	1	1
	4	20	4	20	4	200	4	2
	6	100	6	100	1	1000	6	10
					4	2000		
<b>Optional Fine Increment Weights</b>	1	0.2	1	0.2	1	2	1	0.02
	2	0.4	2	0.4	2	4	2	0.04
	1	1	1	1	1	10	1	0.1
<b>Model Range</b>	<b>P3115-BAR 20 to 1100 bar</b>		<b>P3115-KGCM2 20 to 1100 kgf/cm<sup>2</sup></b>		<b>P3115-PSI 200 to 16,000 psi</b>		<b>P3115-MPA 2 to 110 MPa</b>	
<b>Wt Carrier</b>	20		20		200		2	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	4	2	4	2	4	20	4	0.2
	1	10	1	10	1	100	1	1
	4	20	4	20	4	200	4	2
	10	100	10	100	1	1000	10	10
					7	2000		
<b>Optional Fine Increment Weights</b>	1	0.2	1	0.2	1	2	1	0.02
	2	0.4	2	0.4	2	4	2	0.04
	1	1	1	1	1	10	1	0.1
<b>Model Range</b>	<b>P3116-BAR 20 to 1400 bar</b>		<b>P3116-KGCM2 20 to 1400 kgf/cm<sup>2</sup></b>		<b>P3116-PSI 200 to 20,000 psi</b>		<b>P3116-MPA 2 to 140 MPa</b>	
<b>Wt Carrier</b>	20		20		200		2	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	4	2	4	2	4	20	4	0.2
	1	10	1	10	1	100	1	1
	4	20	4	20	4	200	4	2
	13	100	13	100	1	1000	13	10
					9	2000		
<b>Optional Fine Increment Weights</b>	1	0.2	1	0.2	1	2	1	0.02
	2	0.4	2	0.4	2	4	2	0.04
	1	1	1	1	1	10	1	0.1

**Weight increments: deadweight testers**

<b>Dual piston oil units</b>								
<b>Model Range</b>	<b>P3123-BAR 1 to 350 bar</b>		<b>P3123-KGCM2 1 to 350 kgf/cm<sup>2</sup></b>		<b>P3123-PSI 10 to 5000 psi</b>		<b>P3123-MPA 0.1 to 35 MPa</b>	
<b>Wt Carrier</b>	1/10		1/10		10/100		0.1/1	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	4	0.1/1	4	0.1/1	4	1/10	4	0.01/0.1
	1	0.5/5	1	0.5/5	1	5/50	1	0.05/0.5
	4	1/10	4	1/10	4	10/100	4	0.1/1
	6	5/50	6	5/50	1 4	50/500 100/1000	6	0.5/5
<b>Optional Fine Increment Weights</b>	1	0.01/0.1	1	0.01/0.1	1	0.1/1	1	0.001/0.01
	2	0.02/0.2	2	0.02/0.2	2	0.2/2	2	0.002/0.02
	1	0.05/0.5	1	0.05/0.5	1	0.5/5	1	0.005/0.05
<b>Model Range</b>	<b>P3124-BAR 1 to 700 bar</b>		<b>P3124-KGCM2 1 to 700 kgf/cm<sup>2</sup></b>		<b>P3124-PSI 10 to 10,000 psi</b>		<b>P3124-MPA 0.1 to 70 MPa</b>	
<b>Wt Carrier</b>	1/20		1/20		10/200		0.1/2	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	4	0.1/2	4	0.1/2	4	1/20	4	0.01/0.2
	1	0.5/10	1	0.5/10	1	5/100	1	0.05/1
	4	1/20	4	1/20	4	10/200	4	0.1/2
	6	5/100	6	5/100	1 4	50/1000 100/2000	6	0.5/10
<b>Optional Fine Increment Weights</b>	1	0.01/0.2	1	0.01/0.2	1	0.1/2	1	0.001/0.02
	2	0.02/0.4	2	0.02/0.4	2	0.2/4	2	0.002/0.04
	1	0.05/1	1	0.05/1	1	0.5/10	1	0.005/0.1
<b>Model Range</b>	<b>P3125-BAR 1 to 1100 bar</b>		<b>P3125-KGCM2 1 to 1100 kgf/cm<sup>2</sup></b>		<b>P3125-PSI 10 to 16,000 psi</b>		<b>P3125-MPA 0.1 to 110 MPa</b>	
<b>Wt Carrier</b>	1/20		1/20		10/200		0.1/2	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	4	0.1/2	4	0.1/2	4	1/20	4	0.01/0.2
	1	0.5/10	1	0.5/10	1	5/100	1	0.05/1
	4	1/20	4	1/20	4	10/200	4	0.1/2
	10	5/100	10	5/100	1 7	50/1000 100/2000	10	0.5/10
<b>Optional Fine Increment Weights</b>	1	0.01/0.2	1	0.01/0.2	1	0.1/2	1	0.001/0.02
	2	0.02/0.4	2	0.02/0.4	2	0.2/4	2	0.002/0.04
	1	0.05/1	1	0.05/1	1	0.5/10	1	0.005/0.1

**Weight increments: deadweight testers**

<b>Single piston water units</b>										
<b>Model Range</b>	<b>P3211-BAR 1 to 35 bar</b>		<b>P3211-KGCM2 1 to 35 kgf/cm<sup>2</sup></b>		<b>P3211-PSI 10 to 500 psi</b>		<b>P3211-MPA 0.1 to 3.5 MPa</b>		<b>P3211-KPA 100 to 3500 kPa</b>	
<b>Wt Carrier</b>	1		1		10		0.1		100	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	4	0.1	4	0.1	4	1	4	0.01	4	10
	1	0.5	1	0.5	1	5	1	0.05	1	50
	4	1	4	1	4	10	4	0.1	4	100
	6	5	6	5	1	50	6	0.5	6	500
					4	100				
<b>Optional Fine Increment Weights</b>	1	0.01	1	0.01	1	0.1	1	0.001	1	1
	2	0.02	2	0.02	2	0.2	2	0.002	2	2
	1	0.05	1	0.05	1	0.5	1	0.005	1	5
<b>Model Range</b>	<b>P3213-BAR 10 to 350 bar</b>		<b>P3213-KGCM2 10 to 350 kgf/cm<sup>2</sup></b>		<b>P3213-PSI 100 to 5000 psi</b>		<b>P3213-MPA 1 to 35 MPa</b>			
<b>Wt Carrier</b>	10		10		100		1			
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment		
	4	1	4	1	4	10	4	0.1		
	1	5	1	5	1	50	1	0.5		
	4	10	4	10	4	100	4	1		
	6	50	6	50	1	500	6	5		
					4	1000				
<b>Optional Fine Increment Weights</b>	1	0.1	1	0.1	1	1	1	0.01		
	2	0.2	2	0.2	2	2	2	0.02		
	1	0.5	1	0.5	1	5	1	0.05		
<b>Model Range</b>	<b>P3214-BAR 20 to 700 bar</b>		<b>P3214-KGCM2 20 to 700 kgf/cm<sup>2</sup></b>		<b>P3214-PSI 200 to 10,000 psi</b>		<b>P3214-MPA 2 to 70 MPa</b>			
<b>Wt Carrier</b>	20		20		200		2			
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment		
	4	2	4	2	4	20	4	0.2		
	1	10	1	10	1	100	1	1		
	4	20	4	20	4	200	4	2		
	6	100	6	100	1	1000	6	10		
					4	2000				
<b>Optional Fine Increment Weights</b>	1	0.2	1	0.2	1	2	1	0.02		
	2	0.4	2	0.4	2	4	2	0.04		
	1	1	1	1	1	10	1	0.1		

**Weight increments: deadweight testers**

<b>Dual piston water units</b>								
<b>Model Range</b>	<b>P3223-BAR 1 to 350 bar</b>		<b>P3223-KGCM2 1 to 350 kgf/cm<sup>2</sup></b>		<b>P3223-PSI 10 to 5000 psi</b>		<b>P3223-MPA 0.1 to 35 MPa</b>	
<b>Wt Carrier</b>	1/10		1/10		10/100		0.1/1	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	4	0.1/1	4	0.1/1	4	1/10	4	0.01/0.1
	1	0.5/5	1	0.5/5	1	5/50	1	0.05/0.5
	4	1/10	4	1/10	4	10/100	4	0.1/1
	6	5/50	6	5/50	1 4	50/500 100/1000	6	0.5/5
<b>Optional Fine Increment Weights</b>	1	0.01/0.1	1	0.01/0.1	1	0.1/1	1	0.001/0.01
	2	0.02/0.2	2	0.02/0.2	2	0.2/2	2	0.002/0.02
	1	0.05/0.5	1	0.05/0.5	1	0.5/5	1	0.005/0.05
<b>Model Range</b>	<b>P3224-BAR 1 to 700 bar</b>		<b>P3224-KGCM2 1 to 700 kgf/cm<sup>2</sup></b>		<b>P3224-PSI 10 to 10,000 psi</b>		<b>P3224-MPA 0.1 to 70 MPa</b>	
<b>Wt Carrier</b>	1/20		1/20		10/200		0.1/2	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	4	0.1/2	4	0.1/2	4	1/20	4	0.01/0.2
	1	0.5/10	1	0.5/10	1	5/100	1	0.05/1
	4	1/20	4	1/20	4	10/200	4	0.1/2
	6	5/100	6	5/100	1 4	50/1000 100/2000	6	0.5/10
<b>Optional Fine Increment Weights</b>	1	0.01/0.2	1	0.01/0.2	1	0.1/2	1	0.001/0.02
	2	0.02/0.4	2	0.02/0.4	2	0.2/4	2	0.002/0.04
	1	0.05/1	1	0.05/1	1	0.5/10	1	0.005/0.1

**Weight increments: deadweight testers**

<b>Single piston gas units</b>										
<b>Model Range</b>	<b>P3012-4-KPA</b> 1.5 to 100 kPa		<b>P3012-6-MBAR</b> 15 to 1000 mbar		<b>P3012-7-INH<sub>2</sub>O</b> 5 to 400 inH <sub>2</sub> O					
<b>Wt Carrier</b>	1.5		15		5					
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment				
	1	0.5	1	5	1	1				
	1	1	1	10	2	2				
	4	2	4	20	7	5				
	1	10	1	100	1	40				
	4	20	4	200	4	80				
<b>Model Range</b>	<b>P3013-4-KPA</b> 3 to 200 kPa		<b>P3013-6-MBAR</b> 30 to 2000 mbar		<b>P3013-7-INH<sub>2</sub>O</b> 12 to 800 inH <sub>2</sub> O					
<b>Wt Carrier</b>	3		30		12					
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment				
	1	1	1	10	1	2				
	1	2	1	20	2	4				
	4	4	4	40	7	10				
	1	20	1	200	1	80				
	4	40	4	400	4	160				
<b>Model Range</b>	<b>P3014-1-BAR</b> 0.2 to 10 bar		<b>P3014-2-KGCM2</b> 0.2 to 10 kgf/cm <sup>2</sup>		<b>P3014-3-PSI</b> 3 to 150 psi		<b>P3014-4-KPA</b> 20 to 1000 kPa		<b>P3014-5-MPA</b> 0.02 to 1 MPa	
<b>Wt Carrier</b>	0.2		0.2		3		20		0.02	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	4	0.1	4	0.1	4	1	4	10	4	0.01
	1	0.5	1	0.5	1	5	1	50	1	0.05
	4	1	4	1	4	10	4	100	4	0.1
	1	5	1	5	2	50	1	500	1	0.5
<b>Optional Fine Increment Weights</b>	1	0.01	1	0.01	1	0.1	1	1	1	0.001
	2	0.02	2	0.02	2	0.2	2	2	2	0.002
	1	0.05	1	0.05	1	0.5	1	5	1	0.005
<b>Model Range</b>	<b>P3015-BAR and -P</b> 0.2 to 35 bar		<b>P3015-KGCM2 and -P</b> 0.2 to 35 kgf/cm <sup>2</sup>		<b>P3015-PSI and -P</b> 3 to 500 psi		<b>P3015-KPA and -P</b> 20 to 3500 kPa		<b>P3015-MPA and -P</b> 0.02 to 3.5 MPa	
<b>Wt Carrier</b>	0.2		0.2		3		20		0.02	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	4	0.1	4	0.1	4	1	4	10	4	0.01
	1	0.5	1	0.5	1	5	1	50	1	0.05
	4	1	4	1	4	10	4	100	4	0.1
	6	5	6	5	1	50	6	500	6	0.5
					4	100				
<b>Optional Fine Increment Weights</b>	1	0.01	1	0.01	1	0.1	1	1	1	0.001
	2	0.02	2	0.02	2	0.2	2	2	2	0.002
	1	0.05	1	0.05	1	0.5	1	5	1	0.005

**Weight increments: deadweight testers**

<b>Single piston liquid lubricated gas units</b>										
<b>Model Range</b>	<b>P3031-BAR 1 to 70 bar</b>		<b>P3031-KGCM2 1 to 70 kgf/cm<sup>2</sup></b>		<b>P3031-PSI 10 to 1000 psi</b>		<b>P3031-KPA 100 to 7000 kPa</b>		<b>P3031-MPA 0.1 to 7 MPa</b>	
<b>Wt Carrier</b>	1		1		10		100		0.1	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	1	0.1	1	0.1	1	1	1	10	1	0.01
	1	0.2	1	0.2	1	2	1	20	1	0.02
	4	0.4	4	0.4	4	4	4	40	4	0.04
	1	2	1	2	1	20	1	200	1	0.2
	4	4	4	4	4	40	4	400	4	0.4
	3	20	3	20	2	200	3	2000	3	2
					1	400				
<b>Model Range</b>	<b>P3032-BAR 1 to 140 bar</b>		<b>P3032-KGCM2 1 to 140 kgf/cm<sup>2</sup></b>		<b>P3032-PSI 10 to 2000 psi</b>		<b>P3032-KPA 100 to 14,000 kPa</b>		<b>P3032-MPA 0.1 to 14 MPa</b>	
<b>Wt Carrier</b>	1		1		10		100		0.1	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	1	0.1	1	0.1	1	1	1	10	1	0.01
	1	0.2	1	0.2	1	2	1	20	1	0.02
	4	0.4	4	0.4	4	4	4	40	4	0.04
	1	2	1	2	1	20	1	200	1	0.2
	4	4	4	4	4	40	4	400	4	0.4
	6	20	6	20	1	200	6	2000	6	2
					4	400				



**Weight increments: deadweight testers**

<b>Dual piston gas (pressure and vacuum) units</b> (includes vacuum only units)						
<b>Model Range (P)</b>	<b>P3022-KPA and -P</b> 1.5 to 100 kPa		<b>P3022-MBAR and -P</b> 15 to 1000 mbar		<b>P3022-INH2O and -P</b> 5 to 400 inH <sub>2</sub> O	
<b>Wt Carrier</b>	1.5		15		5	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment
	1	0.5	1	5	1	1
	1	1	1	10	2	2
	4	2	4	20	7	5
	1	10	1	100	1	40
	4	20	4	200	4	80
<b>Range (V)</b>	3 to 100 kPa		30 to 1000 mbar		1 to 30 inHg	
<b>Wt Carrier</b>	3		30		1	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment
	1	1	1	10	1	0.2
	2	2	2	20	2	0.4
	1	5	1	50	1	1
	1	10	1	100	4	2
	2	20	2	200	2	10
	1	40	1	400		
<b>Model Range (P)</b>	<b>P3023-KPA and -P</b> 3 to 200 kPa		<b>P3023-MBAR and -P</b> 30 to 2000 mbar		<b>P3023-INH2O and -P</b> 12 to 800 inH <sub>2</sub> O	
<b>Wt Carrier</b>	3		30		12	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment
	1	1	1	10	1	2
	1	2	1	20	2	4
	4	4	4	40	7	10
	1	20	1	200	1	80
	4	40	4	400	4	160
<b>Range (V)</b>	3 to 100 kPa		30 to 1000 mbar		1 to 30 inHg	
<b>Wt Carrier</b>	3		30		1	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment
	1	1	1	10	1	0.2
	2	2	2	20	2	0.4
	1	5	1	50	1	1
	1	10	1	100	4	2
	2	20	2	200	2	10
	1	40	1	400		

**Weight increments: deadweight testers**

<b>Dual piston gas (pressure and vacuum) units</b> (includes vacuum only units) cont.										
Model Range (P)	P3025-BAR and -P 0.2 to 35 bar		P3025-KGCM2 and -P 0.2 to 35 kgf/cm <sup>2</sup>		P3025-PSI and -P 3 to 500 psi		P3025-KPA and -P 20 to 3500 kPa		P3025-MPA and -P 0.02 to 3.54 MPa	
<b>Wt Carrier</b>	0.2		0.2		3		20		0.02	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	4	0.1	4	0.1	4	1	4	10	4	0.01
	1	0.5	1	0.5	1	5	1	50	1	0.05
	4	1	4	1	4	10	4	100	4	0.1
	6	5	6	5	1	50	6	500	6	0.5
	4				4	100				
<b>Optional Fine Increment Weights</b>	1	0.01	1	0.01	1	0.1	1	1	1	0.001
	2	0.02	2	0.02	2	0.2	2	2	2	0.002
	1	0.05	1	0.05	1	0.5	1	5	1	0.005
<b>Range (V)</b>	30 to 1000 mbar		20 to 760 mmHg		1 to 30 inHg		3 to 100 kPa		3 to 100 kPa	
<b>Wt Carrier</b>	30		20		1		3		3	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment
	1	10	1	10	1	0.2	1	1	1	1
	2	20	2	20	2	0.4	2	2	2	2
	1	50	1	50	1	1	1	5	1	5
	1	100	1	100	4	2	1	10	1	10
	2	200	2	200	2	10	2	20	2	20
	1	400	1	400			1	40	1	40
<b>Vacuum only instruments</b>										
Model Range	P3011-KPA and -P 3 to 100 kPa		P3011-MBAR and -P 30 to 1000 mbar		P3011-INHG and -P 1 to 30 inHg		P3011-MMHG and -P 20 to 760 mmHg			
<b>Wt Carrier</b>	3		30		1		20			
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	Qty	Increment		
	1	1	1	10	1	0.2	1	10		
	2	2	2	20	2	0.4	2	20		
	1	5	1	50	1	1	1	50		
	1	10	1	100	4	2	1	100		
	2	20	2	200	2	10	2	200		
	1	40	1	400			1	400		

**Weight increments: deadweight testers**

<b>High pressure, single piston oil units</b>						
<b>Model Range</b>	<b>P3830-BAR 40 to 2000 bar</b>		<b>P3830-PSI 500 to 30,000 psi</b>		<b>P3830-MPA 4 to 200 MPa</b>	
<b>Wt Carrier</b>	40		500		4	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment
	4	2	4	20	4	0.2
	1	10	1	100	1	1
	4	20	4	200	4	2
	1	100	1	1000	1	10
	9	200	2	2000	9	20
			8	3000		
<b>Optional Fine Increment Weights</b>	1	0.2	1	2	1	0.02
	2	0.4	2	4	2	0.04
	1	1	1	10	1	0.1
<b>Model Range</b>	<b>P3840-BAR 40 to 2600 bar</b>		<b>P3840-PSI 500 to 40,000 psi</b>		<b>P3840-MPA 4 to 260 MPa</b>	
<b>Wt Carrier</b>	40		500		4	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment
	4	2	4	20	4	0.2
	1	10	1	100	1	1
	4	20	4	200	4	2
	1	100	1	1000	1	10
	12	200	1	2000	12	20
			12	3000		
<b>Optional Fine Increment Weights</b>	1	0.2	1	2	1	0.02
	2	0.4	2	4	2	0.04
	1	1	1	10	1	0.1
<b>Model Range</b>	<b>P3860-BAR 40 to 4000 bar</b>		<b>P3860-PSI 500 to 60,000 psi</b>		<b>P3860-MPA 4 to 400 MPa</b>	
<b>Wt Carrier</b>	40		500		4	
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment
	4	2	4	20	4	0.2
	1	10	1	100	1	1
	4	20	4	200	4	2
	1	100	1	1000	1	10
	19	200	2	2000	19	20
			18	3000		
<b>Optional Fine Increment Weights</b>	1	0.2	1	2	1	0.02
	2	0.4	2	4	2	0.04
	1	1	1	10	1	0.1

**Weight increments: deadweight testers**

<b>JJG59-2007 specification oil units</b>							
<b>Model Range</b>	<b>P3111-MPA-CN 0.1 to 3.5 MPa</b>		<b>P3112-5-MPA-CN 0.4 to 14 MPa</b>		<b>P3113-5-MPA-CN 1 to 35 MPa</b>		
<b>Wt Carrier</b>	0.1		0.4		1		
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	
	4	0.01	1	0.01	4	0.1	
	1	0.05	1	0.02	1	0.5	
	2	0.1	4	0.04	2	1	
	1	0.25	1	0.2	1	2.5	
	6	0.5	2	0.4	6	5	
			1	1			
			6	2			
<b>Optional Fine Increment Weights</b>	1	0.001			1	0.01	
	2	0.002			2	0.02	
	1	0.005			1	0.05	
<b>Model Range</b>	<b>P3114-5-MPA-CN 2 to 70 MPa</b>		<b>P3115-5-MPA-CN 2 to 110 MPa</b>		<b>P3116-5-MPA-CN 2 to 140 MPa</b>		
<b>Wt Carrier</b>	2		2		2		
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	
	4	0.2	4	0.2	4	0.2	
	1	1	1	1	1	1	
	2	2	2	2	2	2	
	1	5	1	5	1	5	
	6	10	10	10	13	10	
	1	0.02	1	0.02	1	0.02	
	2	0.04	2	0.04	2	0.04	
	1	0.1	1	0.1	1	0.1	
<b>Model Range</b>	<b>P3123-5-MPA-CN 0.1 to 35 MPa</b>		<b>P3124-5-MPA-CN 0.1 to 70 MPa</b>		<b>P3125-5-MPA-CN 0.1 to 110 MPa</b>		
<b>Wt Carrier</b>	0.1/1		0.1/2		0.1/2		
<b>Weights</b>	Qty	Increment	Qty	Increment	Qty	Increment	
	4	0.01/0.1	4	0.01/0.2	4	0.01/0.2	
	1	0.05/0.5	1	0.05/1	1	0.05/1	
	2	0.1/1	2	0.1/2	2	0.1/2	
	1	0.25/2.5	1	0.25/5	1	0.25/5	
	6	0.5/5	6	0.5/10	10	0.5/10	
<b>Optional Fine Increment Weights</b>	1	0.001/0.01	1	0.001/0.02	1	0.001/0.02	
	2	0.002/0.02	2	0.002/0.04	2	0.002/0.04	
	1	0.005/0.05	1	0.005/0.1	1	0.005/0.1	

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**Fluke Calibration**  
PO Box 9090, Everett, WA 98206 U.S.A.

**Fluke Europe B.V.**  
PO Box 1186, 5602 BD  
Eindhoven, The Netherlands

**For more information call:**  
In the U.S.A. (877) 355-3225 or  
Fax (425) 446-5116  
In Europe/M-East/Africa +31 (0) 40  
2675 200 or Fax +31 (0) 40 2675 222  
In Canada (800)-36-FLUKE or  
Fax (905) 890-6866

From other countries +1 (425) 446-5500 or  
Fax +1 (425) 446-5116  
Web access: <http://www.flukecal.com>

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