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Dillon X-C with Compression Calibration | Dillon X-ST with Tension Calibration | Dillon X-PP with Compression-Tension Calibration



Dillon X-C Compression Force Gauge currently in stock
Shipping Weight: 20 lbs. (estimate shipping cost)

Quantity: 1 25 x 1/4 lb - $598
BUY

Options: ☐ **Maximum Reading Pointer, Add $60**
☐ **Shockless Dial Indicator (not compatible with Maximum Reading Pointer), Add $70**

Dillon X-C Compression Force Gauge

Proven accuracy and ruggedness sets the Dillon X-C mechanical force gauge apart in the force measurement industry. The “D” shaped deflection beam is the heart of the Force Gauge system. Highly engineered materials with close machining tolerances and proper heat treatment provide optimum strength and spring characteristics.

Ideal for stand alone force applications or often used as the load defining component of a much larger system.

The Dillon X-C compression calibration force gauge comes in 11 capacities ranging from 25 lb to 50,000 lb or 10 to 20000 kg. All X-C force gauges feature accuracy of ±1% of full capacity, except the 25,000 and 50,000 (10,000 & 20,000 kg) capacity instruments which are accurate to ±2% of full capacity.

Load is applied against a hardened ball which rotates to maintain vertical alignment as pressure increases. The ball is held in place with a spring clip or retainer. A threaded mounting hole is located opposite the loading ball in the bottom of the beam.

Optional shockless dial indicator is available for installations involving the sudden application or release of force (maximum pointer cannot be supplied with shockless dial indicator). A maximum load pointer is also available, which remains at peak load until manually reset.

The Dillon X-C compression gauge comes with force gauge assembly, carrying case and compression-loading spherical ball fitting (note: case is not included with the 25000 lb, 50000 lb, 10000 kg or 20000 kg models).

Pound Versions		
Model	**Capacity & Dial Divisions**	**Price**
30386-0027	25 x 1/4 lb	$598
30386-0035	50 x 1/2 lb	$598
30386-0043	100 x 1 lb	$598
30446-0033	250 x 2-1/2 lb	$598
30446-0017	500 x 5 lb	$612
30444-0019	1000 x 10 lb	$788
30388-0017	2000 x 20 lb	$788
30389-0016	5000 x 50 lb	$988

Kilogram Versions		
Model	**Capacity & Dial Divisions**	**Price**
30386-0076	10 x 1/10 kg	$598
30386-0084	25 x 1/4 kg	$598
30386-0092	50 x 1/2 kg	$598
30446-0041	100 x 1 kg	$598
30446-0025	200 x 2 kg	$612
30444-0027	500 x 5 kg	$788
30388-0025	1000 x 10 kg	$788
30389-0024	2000 x 20 kg	$988

30423-0014	10000 x 100 lb	$1111
30449-0014	25000 x 250 lb	$1515
30466-0012	50000 x 500 lb	$1748

30423-0022	5000 x 50 kg	$1111
30449-0022	10000 x 100 kg	$1515
30466-0020	20000 x 200 kg	$1748

Dillon X-ST Force Gauge with Tension Calibration



Dillon X-ST Tension Force Gauge currently in stock
Shipping Weight: 15 lbs. (estimate shipping cost)

Quantity: 1 25 x 1/4 lb - $612

BUY

Options: ☐ **Maximum Reading Pointer, Add $60**
☐ **Shockless Dial Indicator (not compatible with Maximum Reading Pointer), Add $70**

Proven accuracy and ruggedness sets the Dillon X-ST mechanical force gauge apart in the force measurement industry. The “D” shaped deflection beam is the heart of the Force Gauge system. Highly engineered materials with close machining tolerances and proper heat treatment provide optimum strength and spring characteristics.

Ideal for stand alone force applications or often used as the load defining component of a much larger system.

The Dillon X-ST tension calibration force gauge comes in 9 capacities ranging from 25 lb to 10,000 lb or 10 to 5000 kg. Accuracy is ±1% of full range (note: for applications requiring capacities beyond 10,000 lb or 5000 kg in tension, consider the Dillon dynamometers).

Dillon X-ST tension force gauges in capacities through 2000 lb (1000 kg) are supplied with two rod end connectors. 5000 lb, 10000 lb, 2000 kg and 5000 kg capacities are equipped with convenient shackles and pins.

The Dillon X-ST tension gauge comes with force gauge assembly, carrying case and tension hardware.

Pound Versions		
Model	**Capacity & Dial Divisions**	**Price**
30443-0028	25 x 1/4 lb	$612
30443-0036	50 x 1/2 lb	$612
30443-0044	100 x 1 lb	$612
30445-0034	250 x 2-1/2 lb	$612
30445-0018	500 x 5 lb	$660
30276-0012	1000 x 10 lb	$798
30440-0013	2000 x 20 lb	$798
30442-0011	5000 x 50 lb	$1030
30441-0012	10000 x 100	$1130

Kilogram Versions		
Model	**Capacity & Dial Divisions**	**Price**
30443-0077	10 x 1/10 kg	$612
30443-0085	25 x 1/4 kg	$612
30443-0093	50 x 1/2 kg	$612
30445-0042	100 x 1 kg	$612
30445-0026	200 x 2 kg	$660
30276-0020	500 x 5 kg	$798
30440-0021	1000 x 10 kg	$798
30442-0029	2000 x 20 kg	$1030
30441-0020	5000 x 50 kg	$1130

Dillon X-PP Tension / Compression Calibration Push Pull Gauge



Dillon X-PP Tension / Compression Calibration Push Pull Gauge
currently in stock
Shipping Weight: 15 lbs. (estimate shipping cost)

Quantity: 1 | 50-0-50 x 1 lb - $726

BUY

Options: ☐ **Maximum Reading Pointer, Add $60**
☐ **Shockless Dial Indicator (not compatible with Maximum Reading Pointer), Add $70**

Proven accuracy and ruggedness sets the Dillon X-PP mechanical force gauge apart in the force measurement industry. The “D” shaped deflection beam is the heart of the Force Gauge system. Highly engineered materials with close machining tolerances and proper heat treatment provide optimum strength and spring characteristics.

Ideal for stand alone force applications or often used as the load defining component of a much larger system

The Dillon X-PP compression / tension calibration push pull gauge comes in 7 capacities in pounds ranging from 50-0-50 lb up to and including 5000-0-5000 lb and 4 metric capacities from 50-0-50 to 1000-0-1000 kg. Accuracy is ±1% of maximum dial reading (based on total capacity of both compression and tension scales).

Dillon X-pp gauges in capacities up to and including 1000-0-1000 lb or 500-0-500 kg are supplied with a set of self-aligning spherical rod end connectors for tension loading. Force is applied to connectors through a hardened steel pin which must be slip fit in connector holes.

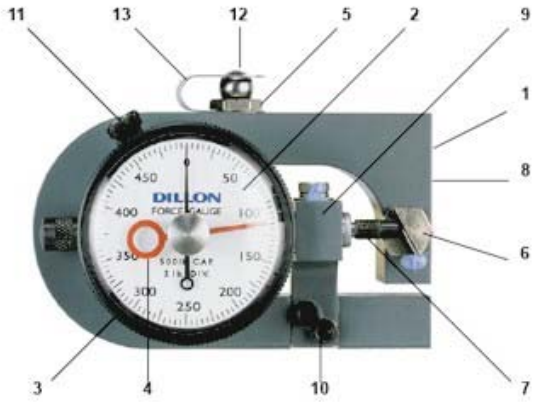
2500-0-2500 and 5000-0-5000 lb and 1000-0-1000 kg capacity gauges are equipped with two shackle adapters, shackles and pins. Shackles must be removed when compression load is involved. Force is then applied against shackle pins in a suitable test setup.

The Dillon X-ST tension gauge comes with force gauge assembly, carrying case, compression loading spherical ball fitting for compression loading and tension hardware.

Pound Versions		
Model	**Capacity & Dial Divisions**	**Price**
30795-0014	50-0-50 x 1	$726
30796-0013	125-0-125 x 2.5 lb	$726
30797-0012	250-0-250 x 5 lb	$817
30798-0011	500-0-500 x 10 lb	$850
30799-0010	1000-0-1000 x 20 lb	$945
30800-00017	2500-0-2500 x 50 lb	$1273
30801-0016	5000-0-5000 x 100 lb	$1330

Kilogram Versions		
Model	**Capacity & Dial Divisions**	**Price**
30796-0021	50-0-50 x 1 kg	$726
30797-0020	125-0-125 x 2.5 kg	$726
30798-0029	250-0-250 x 5 lb	$850
30800-0025	1000-0-1000 x 20 kg	$1273

Dillon X-Series Force Gauge Parts Identification



1. Deflection beam
2. Dial indicator with zero at standard 12:00 position.
3. Bezel
4. Maximum load pointer (optional)
5. Pressure button
6. Slanted Anvil
7. Dial indicator plunger
8. Anvil set screw
9. Mounting bracket for dial indicator
10. Screws for mounting bracket
11. Bezel-locking screw
12. Loading ball
13. Spring retainer clip

Principle of Operation

A D-shaped deflection beam is the heart of the Dillon X force gauge. Machined to close tolerances, beams are heat treated to develop optimum strength and spring characteristics. High-strength aluminum is used in Dillon X series instruments through 200 lbs (200 kg). Ranges above this are fabricated from aircraft-quality alloy steel.

A precision dial indicator is mounted at the null point of the deflection beam. The indicator plunger rests against a slanted anvil at the open end of the beam, as shown in the photo. Under compression loads, the two halves of the beam tend to close. Tension force causes them to move apart. This action pushes the plunger inward, as determined by the slant of the anvil. Readings produced on the dial are in direct relation to applied load. The pointer revolves 360 degrees clockwise under compression or tension forces. Push-pull gauges read half scale (180 degrees) clockwise in compression, counterclockwise, 180 degrees from center zero under tension loads.

Low Beam Deflection

When measured across the center of top- and bottom-loading holes, the approximate beam deflection is as follows:

- 25 to 250 lb (10 to 100 kg) capacity - 0.019"
- 500 lb (200 kg) capacity - 0.016"
- 1000 lb (500 kg) capacity - 0.018"
- 2000 lb (1000 kg) capacity - 0.011"
- 5000 & 10000 lb capacity (2000 & 5000 kg) - 0.010"
- 25000 & 50000 lb capacity (10000 & 20000 kg) - 0.022"

Overload Rating

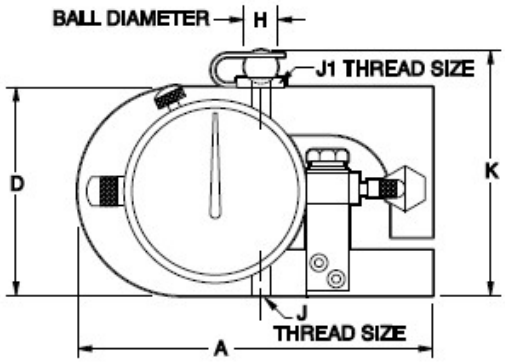
Accidental overloads of 30% of capacity can be safely sustained without injury to the dial indicator or deflection beam. All capacities feature a 5:1 safety factor.

General Information

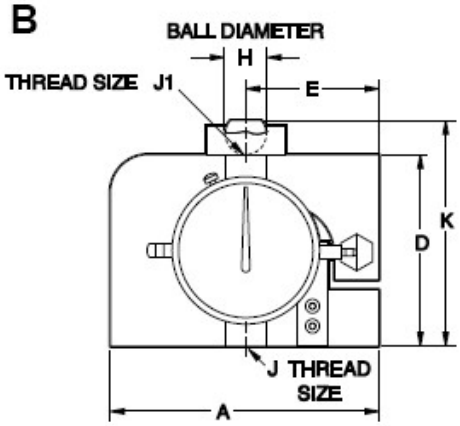
- To reset zero, loosen knurled bezel-locking screw and rotate dial
- Dillon X series force gauges can be mounted horizontally, vertically or flat
- The baked enamel finish resists corrosion and rust
- Operating temperature up to 120 degrees fahrenheit

Dimensions

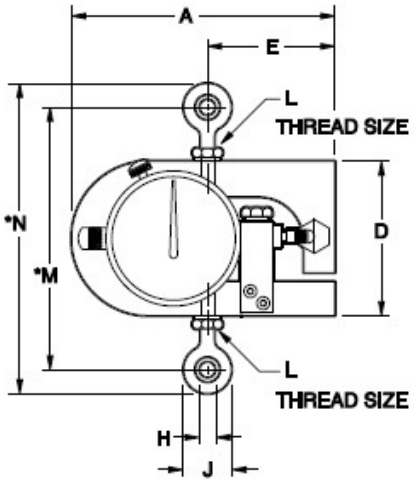
A



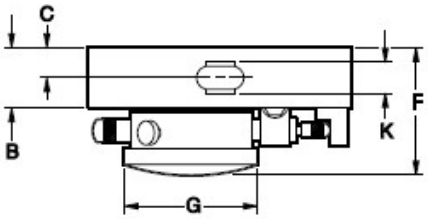
B

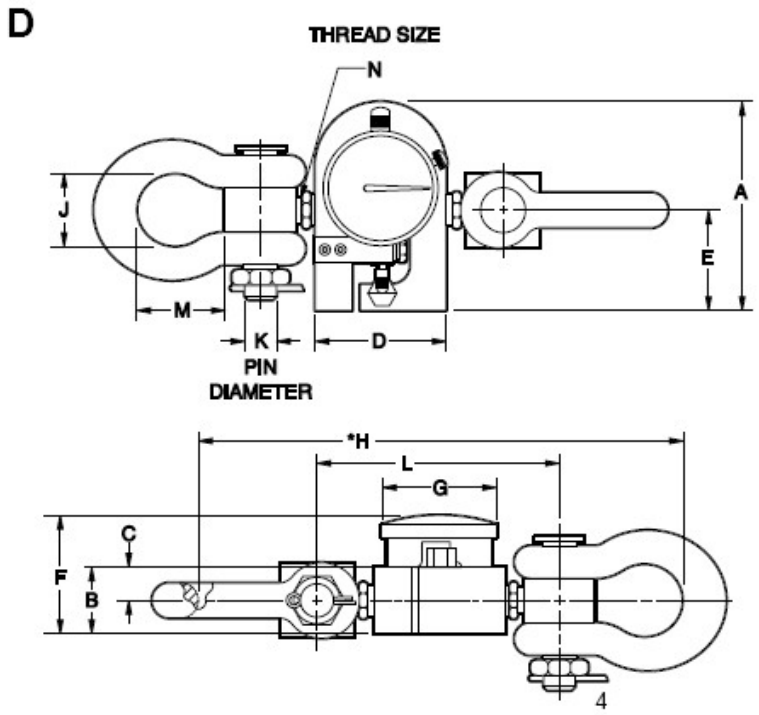


C



Top View of Drawings A,B,C





Model X-C Compression Gauges

	Pounds	Kilograms	A	B	C	D	E	F	G	H	J	J1	K
A	25 x 0.25	10 x 0.1	4.25"	1"	0.5"	2.5"	2.06"	2"	2.25"	0.38"	1/4-28"	1/4-28"	2.94"
	50 x 0.5	25 x 0.25	4.25"	1"	0.5"	2.5"	2.06"	2"	2.25"	0.38"	1/4-28"	1/4-28"	2.94"
	100 x 1	50 x 0.5	4.25"	1"	0.5"	2.5"	2.06"	2"	2.25"	0.38"	1/4-28"	1/4-28"	2.94"
	250 x 2.5	100 x 1	4.25"	1"	0.5"	2.5"	2.06"	2"	2.25"	0.38"	1/4-28"	1/4-28"	2.94"
	500 x 5	200 x 2	4.25"	1"	0.5"	2.5"	2.06"	2"	2.25"	0.38"	1/4-28"	1/4-28"	2.94"
	1000 x 10	500 x 5	4.25"	1"	0.5"	2.5"	2.06"	2"	2.25"	0.38"	1/4-28"	1/4-28"	2.94"
	2000 x 20	1000 x 10	4.25"	1"	0.5"	2.5"	2.06"	2"	2.25"	0.38"	1/2-20"	1/2-20"	3.44"
	5000 x 50	2000 x 20	4.25"	1"	0.5"	2.5"	2.06"	2"	2.25"	0.38"	1/2-20"	1/2-20"	3.44"
B	10000 x 100	5000 x 50	5.87"	1.87"	0.94"	3.94"	2.75"	3"	3.62"	0.75"	7/8-14"	7/8-14"	4.5"
	25000 x 250	10000 x 100	6.56"	2.38"	1.18"	4.68"	3.31"	3.63"	3.62"	1"	1-14"	1-1/2-12"	5.5"
	50000 x 500	20000 x 200	7.59"	2.75"	1.38"	5.5"	3.28"	4"	3.62"	1"	1-14"	1-3/4-12"	6.31"

Model X-ST (Tension) and X-PP (Push-Pull) Gauges

Pounds	Kilograms	A	B	C	D	E	F	G	H	J	K	L	M	N
-	-	4.25"	1"	0.5"	2.5"	2.06"	2.03"	2.25"	0.25"	0.75"	0.38"	5"	4.25"	1/4-28
-	-	4.25"	1"	0.5"	2.5"	2.06"	2.03"	2.25"	0.25"	0.75"	0.38"	5"	4.25"	1/4-28
50-0-50 lb	-	4.25"	1"	0.5"	2.5"	2.06"	2.03"	2.25"	0.25"	0.75"	0.38"	5"	4.25"	1/4-28
125-0-125 lb	50-0-50 kg	4.25"	1"	0.5"	2.5"	2.06"	2.03"	2.25"	0.25"	0.75"	0.38"	5"	4.25"	1/4-28
250-0-250 lb	125-0-125 kg	4.25"	1"	0.5"	2.5"	2.06"	2.03"	2.25"	0.25"	0.75"	0.38"	5"	4.25"	1/4-28
500-0-500 lb	250-0-250 kg	4.25"	1"	0.5"	2.5"	2.06"	2.03"	2.25"	0.5"	1.31"	0.62"	6.94"	5.62"	1/2-20
1000-0-1000 lb	-	4.25"	1"	0.5"	3"	2.25"	2.19"	2.75"	0.5"	1.31"	0.62"	7.44"	6.12"	1/2-20
2500-0-2500 lb	1000-0-1000 kg	4.25"	1"	0.5"	3"	2.25"	2.66"	2.75"	10.94"	1.69"	0.75"	5.44"	1.94"	1/2-20
5000-0-5000 lb	-	5.88"	1.88"	0.94"	3.94"	2.75"	3"	3.62"	12.69"	1.69"	0.75"	71.9"	1.94"	7/8-1/4

	Tension (lb)	Tension (kg)
	25 x 0.25 lb	10 x 0.1 kg
	50 x 0.5 lb	25 x 0.25 kg

C	100 x 1 lb	50 x 0.5 kg
	250 x 2.5 lb	100 x 1 kg
	500 x 5 lb	200 x 2 kg
	1000 x 10 lb	500 x 5 kg
D	2000 x 20 lb	1000 x 10 kg
	5000 x 50 lb	2000 x 20 kg
	10000 x 100 lb	5000 x 50 kg

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