

The difference is measurable[®]

2717 SERIES TENSION GRIPS

Catalog Number 2717-029

The tension grips are designed to perform static tensile tests on shoulder-ended and threaded-end test specimens to various international standards.

The grips are designed with a double alignment arrangement at each end, which forms a universal joint of movement. This ensures the specimens are loaded in uniaxial tension, not requiring any adjustment during use.

A full range of interchangeable grip heads are available for use with specimens of different cross-sectional areas.

A safety guard is provided for the shoulder specimen grips to prevent specimens being ejected from the grips where stored energy is released on specimen breakage.

PRINCIPLE OF OPERATION

Easy to install, the design allows for fast, efficient testing of threaded and shoulder specimens freely accessible from the front. The grips are then self-aligning and for uniaxial loading of the specimen.

FEATURES

- Rated capacity: 100 kN (10,000 kg, 22,500 lb)
- Accepts a range of different cross-sectional areas of shoulder ended and threaded end specimens
- Conforms to ISO, ASTM, EN, DIN and many other standards
- · Quick and easy to use
- · Self alignment for uniaxial tension tests
- · Safety guard for use with shoulder specimens
- Rugged design for minimum maintenance
- Temperature range: -70 °C to +350 °C (-94 °F to +662 °F)

APPLICATION RANGE

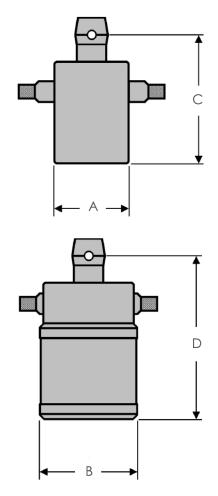
- Type of loading: Tensile static and tensile cyclic tests. Not suitable for high cycle fatigue tests.
- Specimen material: Steel, non-ferrous metals.
- Specimen shapes: Round specimen with shoulder or threaded heads.





2717-029 SPECIFICATIONS

Maximum CapacitykN lbf100 22,500Mechanical Upper fitting-0.5 1 n clevis pin (Type Dm)Mechanical Lower fitting-0.5 1 n clevis pin (Type Dm)Threaded Specimens Grip Head Width (A)mm in51 2Shoulder Specimens Grip Head Width (B)mm in76 inShoulder Specimens Grip Head Length (C)mm in110 4.3Shoulder Specimens Grip Head Width (D)mm in152 inUpper Grip Weightkg lb2.7 6Upper Grip Weightkg lb2.7 6Temperature Range°C °F-70 to +350 -94 to +662Working Principal-Contour contact force transfer via shoulder or threaded ends			
Mechanical Upper fitting - 0.5 1 n clevis pin (Type Dm) Mechanical Lower fitting - 0.5 1 n clevis pin (Type Dm) Threaded Specimens Grip mm 51 Head Width (A) in 2 Shoulder Specimens Grip mm 76 Head Width (B) in 3 Shoulder Specimens Grip mm 110 Head Length (C) in 4.3 Shoulder Specimens Grip mm 152 Head Width (D) in 6 Upper Grip Weight kg 2.7 Ib 6 Temperature Range c C -70 to +350 -94 to +662	Maximum Capacity	kN	100
Mechanical Upper fitting - (Type Dm) Mechanical Lower fitting - 0.5 1 n clevis pin (Type Dm) Threaded Specimens Grip mm 51 Head Width (A) in 2 Shoulder Specimens Grip mm 76 Head Width (B) in 3 Shoulder Specimens Grip mm 110 Head Length (C) in 4.3 Shoulder Specimens Grip mm 152 Head Width (D) in 6 Upper Grip Weight kg 2.7 Ib 6 Temperature Range °C -70 to +350 °F -94 to +662 Working Principal	maximum supusity	lbf	22,500
Mechanical Lower fitting - 0.5 1 n clevis pin (Type Dm) Threaded Specimens Grip mm 51 Head Width (A) in 2 Shoulder Specimens Grip mm 76 Head Width (B) in 3 Shoulder Specimens Grip mm 110 Head Length (C) in 4.3 Shoulder Specimens Grip mm 152 Head Width (D) in 6 Upper Grip Weight kg 2.7 Ib 6 Temperature Range ° C -70 to +350 -94 to +662 Working Principal	Mechanical Upper fitting	-	•
Threaded Specimens Grip Head Width (A) Shoulder Specimens Grip Head Width (B) Shoulder Specimens Grip Head Length (C) Shoulder Specimens Grip Head Length (C) Mm 110 110 152 Shoulder Specimens Grip Head Width (D) Mm 152 Shoulder Specimens Grip Head Width (D) Mm 152 For to +350 For to +350 For to +662 Contour contact force transfer			(Type Dm)
Threaded Specimens Grip Head Width (A) Shoulder Specimens Grip Head Width (B) Shoulder Specimens Grip Head Length (C) Shoulder Specimens Grip Head Length (C) Mm 110 4.3 Shoulder Specimens Grip Head Width (D) Mm 152 F Upper Grip Weight Mg 2.7 By Corrow Contour contact force transfer	Mechanical Lower fitting	-	·
Head Width (A) Shoulder Specimens Grip Head Width (B) Shoulder Specimens Grip Head Length (C) Shoulder Specimens Grip Head Length (C) Mm 110 4.3 Shoulder Specimens Grip Head Width (D) Mm 152 F Upper Grip Weight Mg 2.7 By Corrow Contour contact force transfer			(Type DIII)
Shoulder Specimens Grip Head Width (B) Shoulder Specimens Grip Head Length (C) Shoulder Specimens Grip Head Length (C) Mm 110 4.3 Shoulder Specimens Grip Head Width (D) Mm 152 Mpper Grip Weight Mg 2.7 By Corrow Contour contact force transfer	Threaded Specimens Grip	mm	51
Head Width (B) Shoulder Specimens Grip Head Length (C) Shoulder Specimens Grip Head Width (D) Marking Principal in 3 110 4.3 152 6 Marking Principal in 6 Contour contact force transfer	Head Width (A)	in	2
Shoulder Specimens Grip Head Length (C) Shoulder Specimens Grip Head Width (D) Mr 152 Working Principal Mr 152 Mr	Shoulder Specimens Grip	mm	76
Head Length (C) in 4.3 Shoulder Specimens Grip Head Width (D) Upper Grip Weight kg b c c c c c c c c c c c c c c c c c c	Head Width (B)	in	3
Shoulder Specimens Grip Head Width (D) Upper Grip Weight kg b c c c c c c c c c c c c c c c c c c	Shoulder Specimens Grip	mm	110
Head Width (D) In kg 2.7 lb 6 Temperature Range °C -70 to +350 °F -94 to +662 Contour contact force transfer	Head Length (C)	in	4.3
Upper Grip Weight kg 2.7 lb 6 C -70 to +350 F -94 to +662 Contour contact force transfer	Shoulder Specimens Grip	mm	152
Upper Grip Weight Ib 6 C -70 to +350 F -94 to +662 Working Principal Contour contact force transfer		in	6
Temperature Range C -70 to +350 F -94 to +662 Contour contact force transfer		kg	2.7
Temperature Range °F -94 to +662 Working Principal - Contour contact force transfer	upper Grip Weight	lb	6
*F -94 to +662 Contour contact force transfer	Tananavatura Danga	°C	-70 to +350
Working Principal -	remperature Range	°F	-94 to +662
via shoulder or threaded ends	Wayling Dringing		Contour contact force transfer
	Working Principal	-	via shoulder or threaded ends



Grip dimensions for self-aligning tension

Notes: Self-aligning tension grips - scope of supply: 1 pair of grips

GRIP HEADS FOR THREADED SPECIMEN ENDS

Catalog Number	Max	imum Cap	Specimen End	
	kN	kg	lb	
2717-021	100	10,000	22,500	M8
2717-022	100	10,000	22,500	M10
2717-023	100	10,000	22,500	M12
2717-024	100	10,000	22,500	M18
2717-025	100	10,000	22,500	M20
2717-026	100	10,000	22,500	M24
2717-027	100	10,000	22,500	Blank

GRIP HEADS FOR SHOULDER SPECIMEN ENDS

Catalog Number	Maximum Capacity			Specimen End Location Diameter	
	kN	kg	lb	mm	in
2717-031	100	10,000	22,500	6	0.2
2717-032	100	10,000	22,500	8	0.3
2717-033	100	10,000	22,500	10	0.4
2717-034	100	10,000	22,500	15	0.6

Notes:

- 1. Grip heads scope of supply: 1 pair of grips.
- 2. The blank threaded grip head will accept a maximum thread size up to M30.

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