

▼ SG11TM



Range of Application

For a detailed range of application please request the Secure-Grip Mechanical or Hydraulic Operator Instruction Sheet.

- For use on all flange types with bolt-hole sizes ranging from 0.69 inches to 2.44 inches
- Unique expanding collet technology
- Little or no access gap required
- Secure bolt-hole locking mechanism

OPERATING BENEFITS

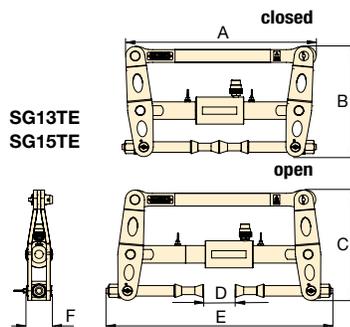
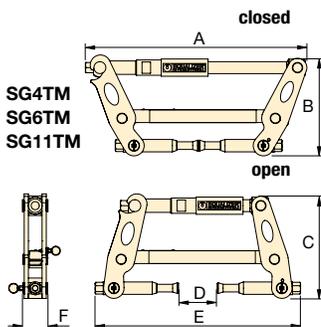
- Time-saving, simple operation
- Measurable, controlled flange spreading force
- Virtually universal, the Secure-Grip Flange Spreader range covers ANSI, DIN, SPO, ASME, API and BS flanges



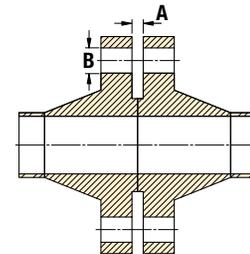
CAUTION

A minimum of two Flange Spreading Tools must be used when opening flange joints.

This will enable the operator to maintain an equal spreading distance across the flange faces.



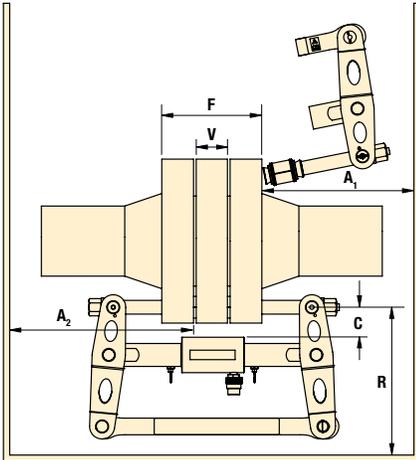
Flange Dimensions



Model Number	Type *	Maximum Spreading Force Per Tool (ton)	Spreading Distance Maximum (in)	Flange Dimensions (in)		Tool Dimensions (in)						Tool Weight (lbs)	Kit Weight (lbs)	Case Dimensions (in)	Tool Number
				Minimum Access Gap A	Bolt-hole Diameter B	A	B	C	D	E	F				
SG4TMSTD	M	4.2	2.95	0	0.69 - 0.91	15.7	7.5	7.2	3.0	15.2	1.9	9.9	28.2	20.5x14.8x6.5	SG4TM
SG6TMSTD	M	6.7	3.15	0	0.94 - 1.18	18.4	9.6	9.9	3.1	17.5	2.0	16.5	35.3	25.2x21.3x6.5	SG6TM
SG11TMSTD	M	12.4	3.54	0	1.18 - 1.54	20.3	9.8	10.4	3.5	18.2	2.4	23.1	44.1	25.2x21.3x6.5	SG11TM
SG13TESTD	H	14.6	4.53	0	1.50 - 1.93	20.3	11.9	12.4	4.5	24.8	2.8	47.4	89.3	35.0x22.4x6.5	SG13TE
SG15TESTD	H	16.9	3.94	0	1.87 - 2.44	23.6	13.6	15.0	3.9	28.3	3.1	57.3	99.2	35.0x22.4x6.5	SG15TE

* M = Mechanical
H = Hydraulic

Flange Spreading Tools



Spreading Force:
4.2 - 16.9 tons

Spreading Distance:
0 - 4.53 inches

Maximum Operating Pressure:
10,000 psi *

* Only relevant for hydraulic tools

SG Series



Model Number	Flange Joint Thickness F			Valve / Spacer Thickness V			Flange Clearance C		Radial Space R		Axial Space (for installation) A ₁		Axial Space (installed) A ₂		Tool Number
	Min. (in)	Max. (in)	Measured: From / To	Min. (in)	Max. (in)	Measured: From / To	Max. (in)	Measured: From / To	Min. (in)	Measured: From / To	Min. (in)	Measured: From / To	Min. (in)	Measured: From / To	
SG4TMSTD	2.4	7.3	Outside face of flange / Outside face of flange	0*	1.8*	Inside face of flange / Inside face of flange	2.0	Bolt-hole circle / Largest OD of valve/ spacer	6.7	Bolt-hole circle / Closest obstruction	6.7	Outside face of flange / Closest obstruction	7.9	Inner face of flange / Closest obstruction	SG4TM
SG6TMSTD	2.4	8.3		0*	2.0*		2.2		9.1		7.9		9.2		SG6TM
SG11TMSTD	3.8	9.4		0*	2.4*		2.4		9.4		8.8		10.2		SG11TM
SG13TESTD	4.7	12.2		0*	3.7*		2.8		11.0		12.2		10.2		SG13TE
SG15TESTD	5.5	15.7		0*	3.1*		3.1		14.6		15.0		12.4		SG15TE

* Short Collet Holder Kits (SCH) are available which can offer improved range of application.

SG4TM MECHANICAL TOOL KIT



- 1 X SG4TM Tool
- 1 X 6" Vernier Calliper
- 1 X 3/8" Drive Torque Wrench and 16 mm Socket
- 1 X Safety Block
- 2 X M16 (5/8") Collets
- 2 X M20 (3/4") Collets
- 1 x Aluminium Carry Case with Protective Foam Inserts

SG6TM MECHANICAL TOOL KIT



- 1 X SG6TM Tool
- 1 X 6" Vernier Calliper
- 1 X 3/8" Drive Torque Wrench and 21 mm Socket
- 1 X Safety Block
- 2 X M24 (7/8") Collets
- 2 X M27 (1") Collets
- 1 x Aluminium Carry Case with Protective Foam Inserts

SG11TM MECHANICAL TOOL KIT



- 1 X SG11TM Tool
- 1 X 6" Vernier calliper
- 1 X 1/2" Drive torque wrench and 24 mm socket
- 1 X Safety block
- 2 X M30 (1-1/8") Collets
- 2 X M33 (1-1/4") Collets
- 2 X M36 (1-3/8") Collets
- 1 x Aluminium Carry Case with Protective Foam Inserts

SG13TE HYDRAULIC TOOL KIT



- 1 X SG13TE Tool
- 1 X 10,000 psi HP550S Single Port Sealed Hand Pump with Gauge
- 1 X 10,000 psi Hydraulic Hose, 78.7"
- 1 X 6" Vernier Calliper
- 1 X 1/2" Square Drive Flexible Handle
- 1 X 1-1/8" Socket
- 1 X Safety Block
- 2 X M39 (1-1/2") Collets
- 2 X M42 (1-5/8") Collets
- 2 X M45 (1-3/4") Collets
- 1 x Aluminium Carry Case with Protective Foam Inserts

SG15TE HYDRAULIC TOOL KIT



- 1 X SG15TE Tool
- 1 X 10,000 psi HP550S Single Port Sealed Hand Pump with Gauge
- 1 X 10,000 psi Hydraulic Hose, 78.7"
- 1 X 12" Vernier Calliper
- 1 X 1/2" Square Drive Flexible Handle
- 1 X 1/2" Socket
- 1 X Safety Block
- 2 X M48 (1-7/8") Collets
- 2 X M52 (2") Collets
- 2 X M56 (2-1/4") Collets
- 1 x Aluminium Carry Case with Protective Foam Inserts

▼ SG18TE & SG25TE



- Applicable for larger-sized flanges
- Actuated by an external hand pump
- Suitable for bolt holes from 2.34 to 4.25 inches



Range of Application

For a detailed range of application please request the Secure-Grip In-Line Hydraulic Operator Instruction Sheet.

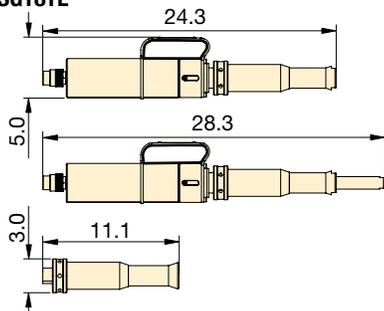


CAUTION

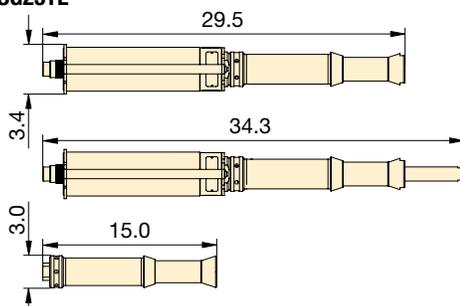
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This will enable the operator to maintain an equal spreading distance across the flange faces.

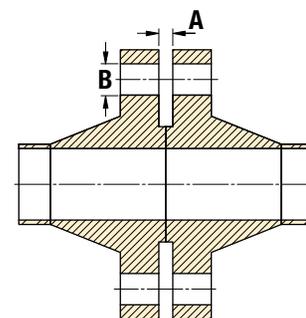
SG18TE



SG25TE



Flange Dimensions



Model Number	Type	Maximum Spreading Force Per Tool (ton)	Spreading Distance Maximum (in)	Flange Dimensions (in)		Tool Weight (lbs)	Kit Weight (lbs)	Case Dimensions (in)	Tool Number
				Minimum Access Gap A	Bolt-hole Diameter B				
SG18TESTD	Hydraulic	20.2	3.93	0	2.34 - 2.95	30.9	99.2	35 x 22.4 x 6.5	SG18TE
SG25TESTD	Hydraulic	28.1	4.72	0	2.95 - 4.25	52.9	110.2	35 x 22.4 x 6.5	SG25TE

Flange Spreading Tools

SG Series



Spreading Force:

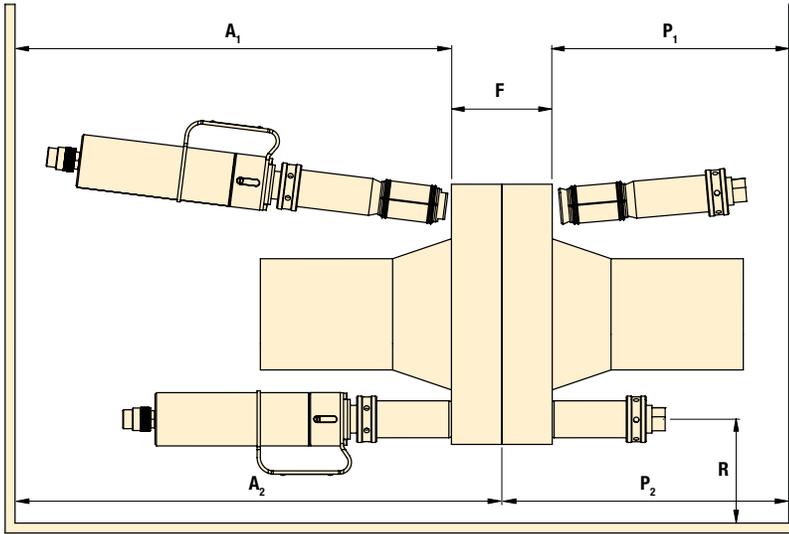
20.2 - 28.1 tons

Spreading Distance:

0 - 4.72 inches

Maximum Operating Pressure:

10,000 psi



Model Number	Flange Joint Thickness F			Radial Space R		Axial Space (for installation) A ₁		Axial Space (installed) A ₂		Axial Plug Space (for installation) P ₁		Axial Plug Space (installed) P ₂		Tool No.
	Min. (in)	Max. (in)	Measured: From / To	Min. (in)	Measured: From / To	Min. (in)	Measured: From / To	Min. (in)	Measured: From / To	Min. (in)	Measured: From / To	Min. (in)	Measured: From / To	
SG18TESTD	7.5	17.7	Outside face of flange/ Outside face of flange	2.2	Bolt-hole circle / Closest obstruction	24.4	Outside face of flange/ Closest obstruction	35.4	Inner face of flange/ Closest obstruction	11.1	Outside face of flange/ Closest obstruction	11.1	Inner face of flange/ Closest obstruction	SG18TE
SG25TESTD	8.3	22.4	Outside face of flange/ Outside face of flange	2.2	Bolt-hole circle / Closest obstruction	29.5	Outside face of flange/ Closest obstruction	43.3	Inner face of flange/ Closest obstruction	15.0	Outside face of flange/ Closest obstruction	15.0	Inner face of flange/ Closest obstruction	SG25TE

SG18TE HYDRAULIC TOOL KIT



- 1 x SG18TE Tool
- 1 x Spreading Plug
- 1 x 10,000 psi HP550S Single Port Sealed Hand Pump with Gauge
- 1 x 10,000 psi Hydraulic Hose, 6.5'
- 1 x 12" Vernier Calliper
- 1 x 0.5" Spacer Plate
- 1 x 5mm Allen Key
- 1 x 2.0" Spacer
- 1 x Safety Block
- 2 x M60 (2-3/8") Collets
- 2 x M64 (2-1/2") Collets
- 2 x M70 (2-3/4") Collets
- 1 x Aluminium Carry Case with Protective Foam Inserts

SG25TE HYDRAULIC TOOL KIT



- 1 x SG25TE Tool
- 1 x Spreading Plug
- 1 x 10,000 psi HP550S Single Port Sealed Hand Pump with Gauge
- 1 x 10,000 psi Hydraulic Hose, 6.5'
- 1 x 12" Vernier Calliper
- 1 x 0.5" Spacer Plate
- 1 x Safety Block
- 1 x Aluminium Carry Case with Protective Foam Inserts

SG25TE COLLETS (AVAILABLE SEPARATELY)

Model Number	Description
673601-01	2 x M76 (3") Collets
673901-01	2 x M80 (3-1/4") Collets
674501-01	2 x M84 (3-3/8") Collets
674801-01	2 x M90 (3-1/2") Collets
675101-01	2 x M95 (3-3/4") Collets
675601-01	2 x M100 (4") Collets