













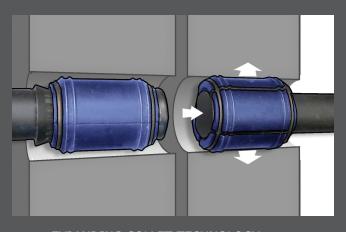


SG RANGE

SECURE-GRIP FLANGE SPREADING TOOLS

Equalizer's globally unique Secure-Grip tools spread via the flange bolt holes and offer, arguably the world's <u>safest flange</u> spreading tools.

These tools use our patented expanding collet technology for application on flanges with a zero gap or where spacers, spectacles or butterfly valves reside between the flange joints.



EXPANDING COLLET TECHNOLOGY

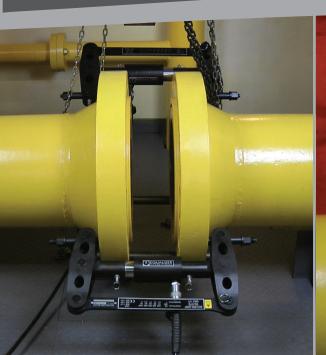
SECURE-GRIP ENHANCEMENTS



SHORT COLLET HOLDER KITS: SPREADING FLANGE JOINTS WITH SPACERS, BLINDS AND LOW PROFILE VALVES

In response to customer feedback Equalizer International has developed a range of Short Collet Holder (SCH) Kits for each of the Secure-Grip tools. These move the starting position of the collets further apart, effectively enabling the tools to use their full

spreading stroke, despite the extra width of the flange joint. This enables the spreading of flange joints with spacers, blinds, spectacles or even some valves, to be spread.



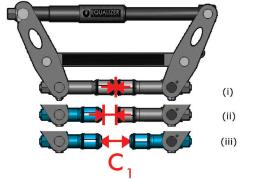


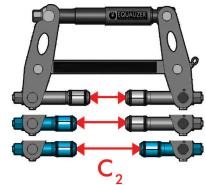


SHORT COLLET HOLDER KITS

TOOL	Configuration	C ₁ (Closed)	C ₂ (Open)
	standard tool (i)	0mm (0")	75mm (2.95")
SG4TM	single SCH kit (ii)	42mm (1.65")	117mm (4.61")
	double SCH kit (iii)	84mm (3.31")	159mm (6.26")
	standard tool (i)	0mm (0")	80mm (3.15")
SG6TM	single SCH kit (ii)	60mm (1.42")	140mm (4.57")
	double SCH kit (iii)	120mm (4.72")	200mm (7.87")
	standard tool (i)	0 mm (0")	90mm (3.50")
SG11TM	single SCH kit (ii)	13mm (0.51")	103mm (4.06")
	double SCH kit (iii)	26mm (1.02")	116mm (4.57")

A Short Collet Holder Kit is available for each mechanical Secure-Grip tool. The kit fits on in place of the standard Collet Holder, and uses the standard Collets.







SG4TM SG6TM SG11TM



SECURE-GRIP MECHANICAL FLANGE SPREADERS

The smaller lightweight mechanical SG tools are applicable for small to medium sized flanges, are actuated by the supplied torque wrench, and are suitable for bolt holes from 17.5 mm (0.69'') to 39.0 mm (1.54''). Different collets are used to match the tool to the respective bolt hole diameter.







TOOL CAPABILITIES

SG4TM:

spreading force of 37kN (3.7T); spreading distance of 75.0mm (2.95")

tool weight: 4.5kg (10.0lb)



SG6TM:

spreading force of 60kN (6T); spreading distance of 80.0mm (3.15")

tool weight: 7.5kg (16.5lb)



SG11TM:

spreading force of 110kN (11T) spreading distance of 90.0mm (3.55")

tool weight: 10.5kg (23.2lb)



SG4TM KIT

Includes Collets: M16 (5/8") M20 (3/4")



SG6TM KIT

Includes Collets: M24 (7/8") M27 (1")



SG11TM KIT

Includes Collets: M30 (1-1/8") M33 (1-1/4") M36 (1-3/8")



SG13TE SG15TE



SECURE-GRIP HYDRAULIC FLANGE SPREADERS

The hydraulic SG tools are applicable for medium to large sized flanges, are actuated by an external hand-pump and are suitable for bolt holes from 38.0mm (1.49") to 62.0mm (2.44"). Different collets are used to match the tool to the respective bolt hole diameter.







• S

TOOL CAPABILITIES

SG13TE: spreading force of 130kN (13T); spreading distance of 115.0mm (4.53") tool weight: 21.5kg (47.3lb)



SG15TE:

spreading force of 150kN (15T); spreading distance of 100.0mm (3.94")

tool weight: 26.0kg (57.3lb)





Includes Collets: M39 (1-1/2") M42 (1-5/8") M45 (1-3/4")



SG15TE KIT

Includes Collets: M48 (1-7/8") M52 (2") M56 (2-1/4")



SG18TE SG25TE



SECURE-GRIP IN-LINE HYDRAULIC FLANGE SPREADERS

The large in-line hydraulic SG tools are applicable for larger sized flanges. These are actuated by an external hand-pump and are suitable for bolt holes from 59.5mm (2.34") to 108.0mm (4.25"). Different collets are used to match the tool to the respective bolt hole diameter.







TOOL CAPABILITIES

 SG18TE: spreading force of 180kN (18T); spreading distance of 100.0mm (3.94") tool weight: 14.0kg (30.8lb)

SG25TE: spreading force of 250kN (25T); spreading distance of 120.0mm (4.72") tool weight: 24.0kg (52.9lb)



Includes Collets: M60 M64 (2-1/2") M70 (2-3/4")



SG25TE KIT (collets supplied separately)

Collets: M76 (3") M90 (3-1/2") M80 (3-1/4") M95 (3-3/4") M84 M100 (4")

RANGE OF APPLICATION

By flange type, class and diameter

BS10 flanges:

Class H: 1/2" Thru 24" Class J: 1/2" Thru 24" Class K: 1/2" Thru 20" Class R: 1/2" Thru 20" Class S: 1/2" Thru 16" Class T: 1/2" Thru 13"

ASME B16.47 (including weld neck and blind flange):

26" Thru 60" for the flange class 150 and 300

ASME B16.5 weld neck:

2" Thru 48" for the flange class 150 3/4" Thru 48" for the flange class 300

ASME B16.5 socket welded:

2" Thru 3" for the flange 150 3/4" Thru 3" for the flange 300

ANSI reducing application (including threaded and slip on flange):

2" Thru 48" for the flange class 150 3/4" Thru 48" for the flange class 300

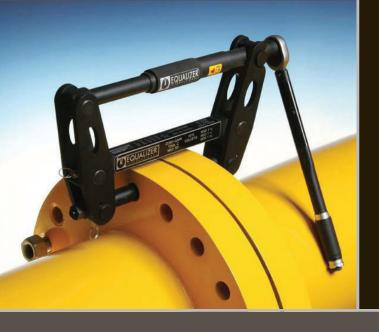
ANSI orifice application (including weld neck, threaded and slip on flange):

1" Thru 20" for the flange class 300

PARTS LIST AND EXPLODED DRAWING









PRODUCT DATA SHEET

SG4TM

SECURE-GRIP MECHANICAL **FLANGE SPREADER**

SPREADING FORCE:

With 47N.m (35ft.lb) of torque applied: 3.7T (37kN) It is recommended that tools are used in pairs giving:

 $2 \times 3.7T = 7.4T (74kN)$

SPREADING DISTANCE: 0 - 75mm (0 - 2.95")

TOOL WEIGHT: 4.5kg (10lb)

KIT COMPONENTS

1 x SG4TM Tool

1 x 150mm (6") Vernier Calliper

1 x 3/8" Drive Torque Wrench and 16mm Socket

1 x Safety Block

2 x M16 (5/8") Collets

2 x M20 (3/4") Collets

1 x Instruction Manual

1 x Carry Case with protective foam insterts

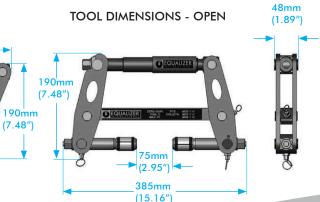
Product Code: SG4TMSTD

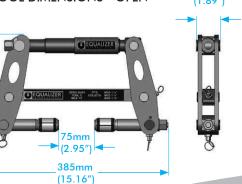


WEIGHTS AND DIMENSIONS

Tool Weight: 4.8Kg (10.6lb) Case Weight: 1Kg (2.2lb) Gross Kit Weight: 12.8Kg (28.2lb) Carry Case Dimensions: 520mm x 375mm x 165mm (20.47" x 14.76" x 6.50")

TOOL DIMENSIONS - CLOSED 398mm (15.67)







RANGE OF APPLICATION

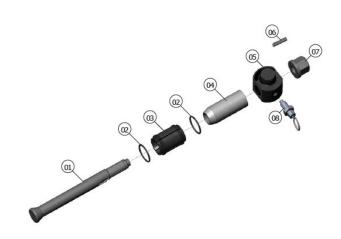
The SG4TM is usable on all standard flanges that have been specified to accept the following bolt sizes: M16, M20, 5/8'', 3/4''

This includes ANSI, DIN, SPO, ASME, API and BS flanges.

For a detailed range of application please request the Secure-Grip Mechanical Operator Instrucion Manual.

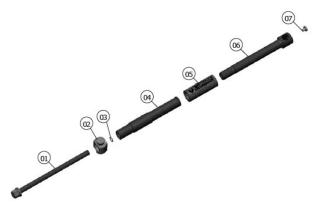
COLLET HEAD PART LIST AND EXPLODED DRAWING

ITEM	DESCRIPTION	QTY
01	COLLET HOLDER	2
02	M16 SPRING RING*	4
	M20 SPRING RING*	4
03	M16 COLLET*	2
	M20 COLLET*	2
04	DRIVE CONE	2
05	COLLET UNION	2
06	CENTRING SPRING 1	2
07	COLLET NUT	2
08	COLLET SPRING PLUNGER*	2



ACTUATOR PART LIST AND EXPLODED DRAWING

ITEM	DESCRIPTION	QTY
01	ACTUATOR BOLT	1
02	OPEN ACTUATOR UNION	1
03	ACTUATOR RETAINING RING*	1
04	ACTUATOR SLEEVE	1
05	FOAM GRIP	1
06	CLOSED ACTUATOR UNION	1
07	ACTUATOR RETAINING BOLT	1



SG4TM PART LIST AND EXPLODED DRAWING

ITEM	DESCRIPTION	QTY
11 1/41	DESCRIPTION	QII
01	CANTILEVER RETAINING RING*	10
02	OPEN LEG RH	1
03	CLOSED LEG RH	1
04	SEE ACTUATOR PART LIST	
05	CANTILEVER	1
06	CANTILEVER PLUNGER	1
07	CANTILEVER PIN	3
08	CLOSED LEG LH	1
09	SEE COLLET HEAD PART LIST	
10	OPEN LEG LH	1

^{*} Items are supplied in Spare Kit Part





PRODUCT DATA SHEET

SG6TM

SECURE-GRIP MECHANICAL FLANGE SPREADER

SPREADING FORCE:

80 ft/lbs (108Nm) = 6 T (60 kN) per tool

It is recommended that tools are used in pairs giving $2 \times 6 = 12 \text{ T} (120 \text{ kN})$

SPREADING DISTANCE = 0-80mm (0-3.15") TOOL WEIGHT = 7.5kg (16.5 lbs)

KIT COMPONENTS

1 x SG6TM Tool

1 x 150mm (6") Vernier Calliper

1 x 3/8" Drive Torque Wrench and 21mm Socket

1 x Safety Block

2 x M24 (7/8") Collets

2 x M27 (1") Collets

1 x Instruction Manual

1 x Carry Case with protective foam inserts

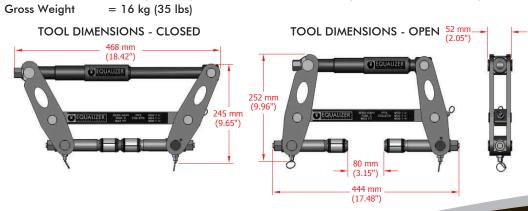
Product Code: SG6TMSTD



WEIGHTS AND DIMENSIONS

Tool Weight = 7.5 kg (16.5 lbs) Carry Case Dimensions:

Case Weight = 6 kg (13.2 lbs) 640 x 540 x 165mm (25.20" x 21.26" x 6.50")





RANGE OF APPLICATION

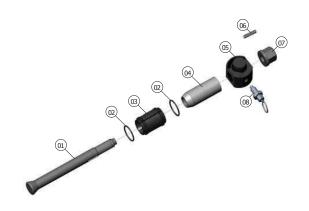
The SG6TM is usable on all standard flanges that have been specified to accept the following bolt sizes: M24, M27, 7/8", 1"

This includes ANSI, DIN, SPO, ASME, API and BS flanges.

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

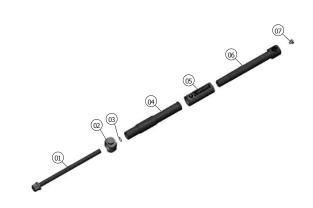
COLLET HEAD PARTS LIST AND EXPLODED DRAWING

ITEM	PART No.	DESCRIPTION	QUANTITY
01	620401-01	COLLET HOLDER	02 each
02	621001-01	M24 SPRING RING*	04 each
	621101-01	M27 SPRING RING*	04 each
03	620201-01	M24 COLLET*	02 each
	620301-01	M27 COLLET*	02 each
04	620501-01	DRIVE CONE	02 each
05	620601-01	COLLET UNION	02 each
06	620701-01	CENTRING SPRING 1	02 each
07	620801-01	COLLET NUT	02 each
08	632001-01	COLLET SPRING PLUNGER*	02 each



ACTUATOR PARTS LIST AND EXPLODED DRAWING

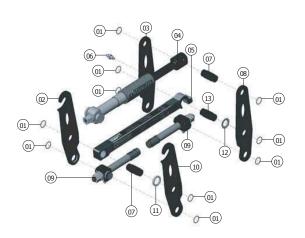
PART No.	DESCRIPTION	QUANTITY
622201-01	ACTUATOR BOLT	01 each
622501-01	OPEN ACTUATOR UNION	01 each
623101-01	ACTUATOR RETAINING RING*	01 each
622701-01	ACTUATOR SLEEVE	01 each
632801-01	FOAM GRIP	01 each
622901-01	CLOSED ACTUATOR UNION	01 each
623001-01	ACTUATOR RETAINING BOLT	01 each
	622201-01 622501-01 623101-01 622701-01 632801-01 622901-01	62201-01 ACTUATOR BOLT 622501-01 OPEN ACTUATOR UNION 623101-01 ACTUATOR RETAINING RING* 622701-01 ACTUATOR SLIEEVE 632801-01 FOAM GRIP 622901-01 CLOSED ACTUATOR UNION



SG6TM PARTS LIST AND EXPLODED DRAWING

ITEM	PART No.	DESCRIPTION	QUANTITY
01	621501-01	CANTILEVER RETAINING RING*	10 each
02	621401-01	OPEN LEG R/H	01 each
03	621801-01	CLOSED LEG R/H	01 each
04		SEE ACTUATOR PARTS LIST	
05	622101-01	CANTILEVER	01 each
06	632001-01	CANTILEVER PLUNGER	01 each
07	621701-01	CANTILEVER PIN	02 each
08	621901-01	CLOSED LEG L/H	01 each
09		SEE COLLET HEAD PARTS LIST	
10	621301-01	OPEN LEG L/H	01 each
11	623401-01	CANTILEVER SPACER	01 each
12	623501-01	CANTILEVER WASHER	01 each
13	623601-01	HOOK PIN	01 each

^{*} Items are supplied in Spares Kit Part No: 626060-01







PRODUCT DATA SHEET

SG11TM

SECURE-GRIP MECHANICAL FLANGE SPREADER

SPREADING FORCE:

85 ft/lbf (120 Nm) = 11 T (110 kN) per tool

It is recommended that tools are used in pairs giving

 $2 \times 11 = 22 \text{ T } (220 \text{ kN})$

SPREADING DISTANCE = 0-90mm (0-3.55") TOOL WEIGHT = 10.5kg (23.2 lbs)

KIT COMPONENTS

1 x SG11TM Tool

1 x 150mm (6") Vernier Calliper

1 x 1/2" Drive Torque Wrench and 24mm Socket

1 x Safety Block

2 x M30 (1 1/8") Collets

2 x M33 (11/4") Collets

2 x M36 (13/8") Collets

1 x Instruction Manual

1 x Carry Case with protective foam inserts

Product Code: SG11TMSTD



WEIGHTS AND DIMENSIONS

Tool Weight = 10.5 kg (23.2 lbs) Carry Case Dimensions:

Case Weight = 6 kg (13.2 lbs) $640 \times 540 \times 165 \text{mm} (25.20'' \times 21.26'' \times 6.50'')$

Gross Weight = 20 kg (44 lbs)





RANGE OF APPLICATION

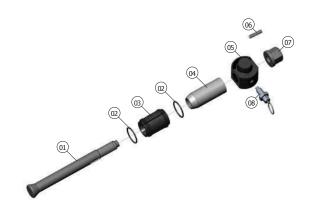
The SG11TM is usable on all standard flanges that have been specified to accept the following bolt sizes: M30, M33, M36, 1 1/8", 1 1/4", 1 3/8"

This includes ANSI, DIN, SPO, ASME, API and BS flanges.

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

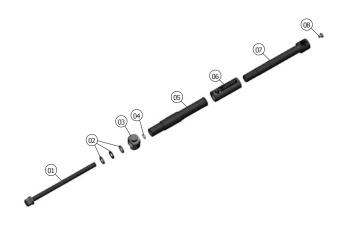
COLLET HEAD PARTS LIST AND EXPLODED DRAWING

ITEM	PART No.	DESCRIPTION	QUANTITY
01	630101-01	COLLET HOLDER	02 each
02	631001-01	M30 SPRING RING*	04 each
	631101-01	M33 SPRING RING*	04 each
	631201-01	M36 SPRING RING*	04 each
03	630201-01	M30 COLLET*	02 each
	630301-01	M33 COLLET*	02 each
	630401-01	M36 COLLET*	02 each
04	630501-01	DRIVE CONE	02 each
05	630601-01	COLLET UNION	02 each
06	630701-01	CENTRING SPRING 1	02 each
	633201-01	CENTRING SPRING 2	02 each
07	630801-01	COLLET NUT	02 each
08	900502-01	COLLET SPRING PLUNGER*	02 each



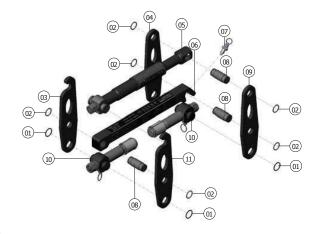
ACTUATOR PARTS LIST AND EXPLODED DRAWING

ITEM	PART No.	DESCRIPTION	QUANTITY
01	632201-01	ACTUATOR BOLT THRUST BEARING* OPEN ACTUATOR UNION ACTUATOR RETAINING RING* ACTUATOR SLEEVE	01 each
02	632301-01		01 each
03	632501-01		01 each
04	401301-01		01 each
05	632701-01		01 each
06	632801-01	FOAM GRIP	01 each
07	632901-01	CLOSED ACTUATOR UNION	01 each
08	633001-01	ACTUATOR RETAINING BOLT	01 each



SG11TM PARTS LIST AND EXPLODED DRAWING

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ITEM	PART No.	DESCRIPTION	QUANTITY
01	631601-01	COLLET RETAINING RING*	04 each
02	631501-01	CANTILEVER RETAINING RING*	06 each
03	631401-01	OPEN LEG R/H	01 each
04	631901-01	CLOSED LEG R/H	01 each
05		SEE ACTUATOR PARTS LIST	
06	632101-01	CANTILEVER	01 each
07	632001-01	CANTILEVER PLUNGER	01 each
08	631701-01	CANTILEVER PIN	03 each
09	631801-01	CLOSED LEG L/H	01 each
10		SEE COLLET HEAD PARTS LIST	
11	631301-01	OPEN LEG L/H	01 each



^{*} Items are supplied in Spares Kit Part No: 636060-01





PRODUCT DATA SHEET

SG13TE

SERURE-GRIP HYDRAULIC FLANGE SPREADER

SPREADING FORCE:

10,000 psi (700 bar) = 13 T (130 kN) per tool It is recommended that tools are used in pairs giving

 $2 \times 13 = 26 \text{ T } (260 \text{ kN})$

SPREADING DISTANCE = 0-115mm (0-4.53") TOOL WEIGHT = 21.5kg (47.3 lbs)

KIT COMPONENTS

1 x SG13TE Tool c/w Hydraulic Cylinder

1 x 10,000 psi (700 bar) HP550S Sealed Hand Pump with Gauge

1 x 10,000 psi (700 bar) Hydraulic Hose, 2m (78.75")

1 x 150mm (6") Vernier Calliper

1 x Tommy Bar

1 x 30mm (1 1/8") Drive 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 Instruction Manual

1 x Carry Case with protective foam inserts

Product Code: SG13TESTD



WEIGHTS AND DIMENSIONS

Tool Weight = 21.5 kg (47.3 lbs) Carry Case Dimensions:

Case Weight = 9 kg (19.8 lbs) $890 \times 570 \times 165 \text{mm} (35.04'' \times 22.44'' \times 6.50'')$

Gross Weight = 40.5 kg (89.2 lbs)

\$15.9 mm (20.31")

TOOL DIMENSIONS - CLOSED

TOOL DIMENSIONS - OPEN





RANGE OF APPLICATION

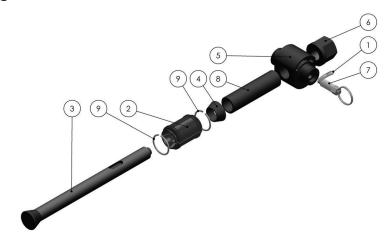
The SG13TE is usable on all standard flanges that have been specified to accept the following bolt sizes: M39, M42, M45,1 1/2", 1 5/8", 1 3/4"

This includes ANSI, DIN, SPO, ASME, API and BS flanges.

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

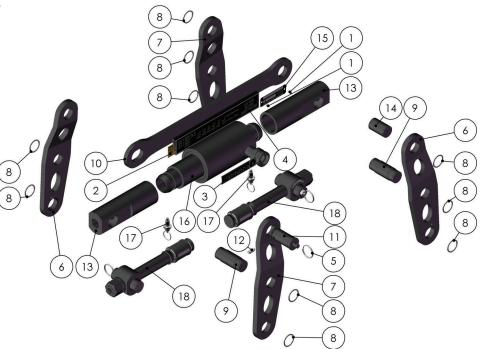
COLLET HEAD PARTS LIST AND EXPLODED DRAWING

01 CENTERING SPRING 402201-01 01 each 02 M39 COLLET 640101-01 01 each M42 COLLET 640201-01 01 each M45 COLLET 640301-01 01 each 03 COLLET HOLDER 640401-01 01 each 04 DRIVE CONE 640501-01 01 each 05 COLLET UNION 640601-01 01 each 06 COLLAR NUT 640901-01 01 each 07 M12 PLUNGER 641001-01 01 each 08 DRIVE TUBE 641601-01 01 each 09 M39 SPRING RING 642201-01 02 each M42 SPRING RING 642601-01 02 each M45 SPRING RING 642601-01 02 each	ITEM	DESCRIPTION	PART NO.	QUANTITY
	02 03 04 05 06 07 08	M39 COLLET M42 COLLET M45 COLLET COLLET HOLDER DRIVE CONE COLLET UNION COLLAR NUT M12 PLUNGER DRIVE TUBE M39 SPRING RING M42 SPRING RING	640101-01 640201-01 640301-01 640401-01 640501-01 640601-01 640901-01 641001-01 641601-01 642201-01 642401-01	01 each 01 each 01 each 01 each 01 each 01 each 01 each 01 each 02 each



SG13TE PARTS LIST AND EXPLODED DRAWING

ITEM	DESCRIPTION	PART NO.	QUANTITY
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16	DESCRIPTION POP RIVET READ INSTR. STICKER EQUALIZER LOGO CANTILIVER STICKER SPLIT RING LEG W/O PIN LEG WITH PIN SPIROL RING ACTUATOR PIN CANTILEVER PULL PIN M8 BALL PLUNGER ACTUATOR UNION CANTILIVER PIN SERIAL PLATE ACTUATOR ASSEMBLY	PART NO. 020706-01 07001-01 070045-01 070129-01 403102-01 641101-01 641101-02 641301-01 641501-01 641701-01 641901-01 643201-01 643501-01 643601-01	QUANTITY 02 each 01 each 02 each 01 each 02 each 10 each 02 each 10 each 02 each 10 each 01 each
17	PULL PIN M10	644001-01 900502-01	01 each 02 each 02 each
16	ACTUATOR ASSEMBLY	64400	1-01







PRODUCT DATA SHEET

SG15TE

SECURE-GRIP HYDRAULIC FLANGE SPREADER

SPREADING FORCE:

With 10,000 psi (700 bar) of hydraulic pressure: 15T (150kN) per tool

It is recommended that tools are used in pairs giving: $2 \times 15T = 30T (300kN)$

SPREADING DISTANCE: 0 - 100mm (0 - 3.94") TOOL WEIGHT: 26kg (57.3lb)

KIT COMPONENTS

1 x SG15TE Tool c/w Hydraulic Cylinder

1 x 10,000 psi (700 bar) HP 550S Sealed Hand Pump with Gauge

1 x 10,000 psi (700 bar) Hydraulic Hose, 2m (78.74")

1 x 300mm (12") Vernier Calliper

1 x 1/2" Square drive flexible handle

1 x 36mm (1/2") Drive 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 Instruction Manual

1 x Carry Case with protective foam insterts

Product Code: SG15TESTD



WEIGHTS AND DIMENSIONS

TOOL DIMENSIONS - CLOSED TOOL DIMENSIONS - OPEN



Tool Weight: 26Kg (57.3lb)
Case Weight: 9Kg (19.8lb)
Gross Kit Weight: 45Kg (99.2lb)

Carry Case Dimensions: 890mm x 570mm x 165mm (35.04" x 22.44" x 6.50")



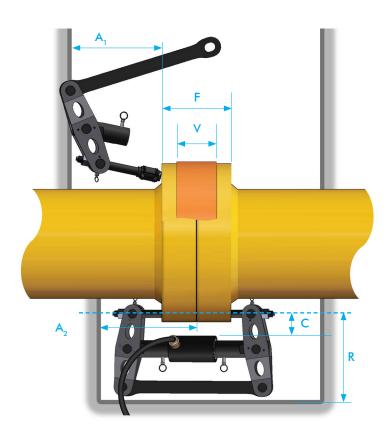
RANGE OF APPLICATION

The SG15TE is usable on all standard flanges that have been specified to accept the following bolt sizes: M48 (1 7/8"), M52 (2"), M56 (2 1/4")

This includes ANSI, DIN, SPO, ASME, API and BS flanges.

For a detailed range of application please request the Secure-Grip Hydraulic Operator Instrucion Manual.

SPATIAL ENVELOPE



- *Short Collet Holder Kits (SCH) are available which can offer improved range of application.
- ** Collet Holders can also be dismantled and inserted through bolt-holes from opposite side.

Contact Equalizer International if your application does not appear to suit standard tools.

	DIMENSION	MEASURED FROM	MEASURED TO	MINIMUM	MAXIMUM
F	Flange Joint Thickness	Outside Face of Flange	Outside Face of Flange	140mm (5.51")	400mm (15.75")
٧	Valve/Spacer Thickness	Inside Face of Flange	Inside Face of Flange	*0.0mm (0.0")	*80mm (3.15")
С	Flange Clearance	Bolt-Hole Circle	Largest OD of Valve/Spacer	-	80mm (3.15")
R	Radial space	Bolt-Hole Circle	Closest Obstruction	370mm (14.57")	-
A	Axial space (for installation)	Outside Face of Flange	Closest Obstruction	**380mm (**14.96")	-
A_2	Axial space (installed)	Inner Face of Flange	Closest Obstruction	315mm (12.4")	-

Contact Equalizer International if your application does not appear to suit standard tools.





PRODUCT DATA SHEET

SG18TE

SECURE-GRIP IN-LINE HYDRAULIC FLANGE SPREADER

SPREADING FORCE:

With 10,000 psi (700 bar) of hydraulic pressure: 18T (180kN) per tool

It is recommended that tools are used in pairs giving: $2 \times 18T = 36T (360kN)$

SPREADING DISTANCE: 0 - 100mm (0 - 3.94") TOOL WEIGHT: 14kg (30.8lb)

KIT COMPONENTS

- 1 x SG18TE Tool c/w Hydraulic Cylinder
- 1 x Spreading plug
- 1 x 10,000 psi (700 bar) HP 550S Sealed Hand Pump with Gauge
- 1 x 10,000 psi (700 bar) Hydraulic Hose, 2m (78.74")
- 1 x 300mm (12") Vernier Calliper
- 1 x 12.5mm (0.49") Spacer Plate
- 1 x 5mm Allen Key
- 1 x 50mm (1.97") 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 Instruction Manual
- 1 x Carry Case with protective foam inserts

Product Code: SG18TESTD



WEIGHTS AND DIMENSIONS

Tool Weight: 14Kg (30.8lb) Case Weight: 9Kg (19.8lb)

Gross Kit Weight: 45Kg (99.2lb)

Carry Case Dimensions:

890mm x 570mm x 165mm (35.04" x 22.44" x 6.50")

TOOL DIMENSIONS - CLOSED



TOOL DIMENSIONS - OPEN



SPREADING PLUG DIMENSIONS



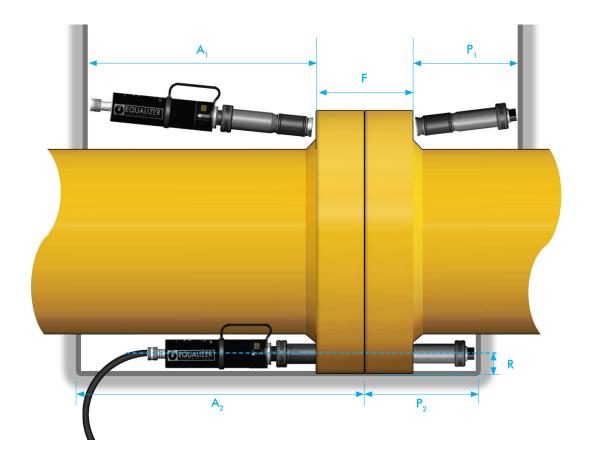


RANGE OF APPLICATION

The SG18TE is usable on all standard flanges that have been specified to accept the following bolt sizes: M60 (2 3/8"), M64 (2 1/2"), M70 (2 3/4") This includes ANSI, DIN, SPO, ASME, API and BS flanges.

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

SPATIAL ENVELOPE



	DIMENSION	MEASURED FROM	MEASURED TO	MINIMUM	MAXIMUM
F	Flange Joint Thickness	Outside Face of Flange	Outside Face of Flange	190mm (7.48")	450mm (17.72")
R	Radial space	Bolt-Hole Circle	Closest Obstruction	55mm (2.17")	-
A,	Axial Tool space (for installation)	Outside Face of Flange	Closest Obstruction	620mm (24.41")	-
A ₂	Axial Tool space (installed)	Inner Face of Flange	Closest Obstruction	900mm (35.43")	-
P ₁	Axial Plug space (for installation)	Outside Face of Flange	Closest Obstruction	283mm (11.14")	-
P_2	Axial Plug space (installed)	Inner Face of Flange	Closest Obstruction	283mm (11.14")	-

Contact Equalizer International if your application does not appear to suit standard tools.





PRODUCT DATA SHEET

SG25TE

SECURE-GRIP IN-LINE
HYDRAULIC FLANGE SPREADER

SPREADING FORCE:

With 10,000 psi (700 bar) of hydraulic pressure: 25T (250kN) per tool

It is recommended that tools are used in pairs giving: $2 \times 25T = 50T (500kN)$

SPREADING DISTANCE: 0 - 120mm (0 - 4.72")
TOOL WEIGHT: 24kg (52.9lb)

KIT COMPONENTS

- 1 x SG25TE Tool c/w Hydraulic Cylinder
- 1 x Spreading plug
- 1 x 10,000 psi (700 bar) HP 550S Sealed Hand Pump with Gauge
- 1 x 10,000 psi (700 bar) Hydraulic Hose, 2m (78.74")
- 1 x 300mm (12") Vernier Calliper
- 1 x Spacer Plate
- 1 x Safety Block
- 1 x Instruction Manual
- 1 x Carry Case with protective foam inserts

Product Code: SG25TESTD

COLLETS (Available Separately)

2 x M76 (3") Collets 2 x M90 (3 1/2") Collets 2 x M80 (3 1/4") Collets 2 x M95 (3 3/4") Collets 2 x M100 (4") Collets



WEIGHTS AND DIMENSIONS

Tool Weight: 24Kg (52.9lb) Carry Case Dimensions:

Case Weight: 9Kg (19.8lb) 890mm x 570mm x 165mm (35.04" x 22.44" x 6.50")

Gross Kit Weight: 50Kg (110lb)

TOOL DIMENSIONS - CLOSED



TOOL DIMENSIONS - OPEN



SPREADING PLUG DIMENSIONS



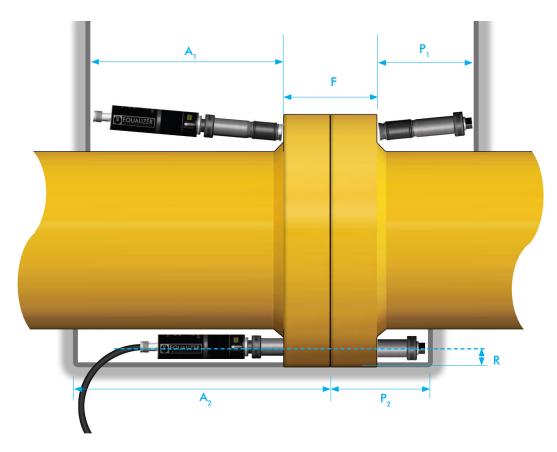


RANGE OF APPLICATION

The SG25TE is usable on all standard flanges that have been specified to accept the following bolt sizes: M76 (3"), M80 (3 1/4"), M84 (3 3/8"), M90 (3 1/2"), M95 (3 3/4"), M100 (4") This includes ANSI, DIN, SPO, ASME, API and BS flanges.

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

SPATIAL ENVELOPE



	DIMENSION	MEASURED FROM	MEASURED TO	MINIMUM	MAXIMUM
F	Flange Joint Thickness	Outside Face of Flange	Outside Face of Flange	210mm (8.27")	570mm (22.44")
R	Radial space	Bolt-Hole Circle	Closest Obstruction	55mm (2.17")	-
A,	Axial Tool space (for installation)	Outside Face of Flange	Closest Obstruction	750mm (29.53")	-
A_2	Axial Tool space (installed)	Inner Face of Flange	Closest Obstruction	1300mm (51.18")	-
P ₁	Axial Plug space (for installation)	Outside Face of Flange	Closest Obstruction	380mm (14.96")	-
P_2	Axial Plug space (installed)	Inner Face of Flange	Closest Obstruction	380mm (14.96")	-

Contact Equalizer International if your application does not appear to suit standard tools.