



**EQUALIZER**<sup>TM</sup>  
INTERNATIONAL

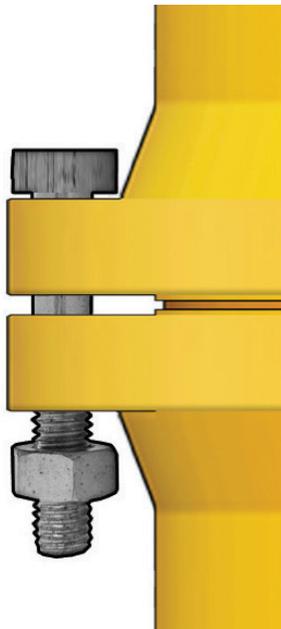
FLANGE TOOL INNOVATION



TWENTY  
YEARS OF  
EQUALIZER   
1994 - 2014

# 1. FLANGE SPREADING SOLUTIONS

The Equalizer™ range of patented flange spreading tools has been developed to aid and simplify the maintenance of flange joints. No longer will those tasked with separating flanges have to rely on using ropes and pulleys, podgers, tirsors or hammers – there is a safe, quick and effective alternative, the Equalizer™ range of spreaders. These spreaders use mechanical and hydraulic principles for separating flanges and can spread small, medium or large flange joints. Tool selection is made on the basis of the access gap between the flange faces:



#### **MG Tool:**

The safest tool for small diameter, low pressure flanges with an access gap of at least 2.0mm.



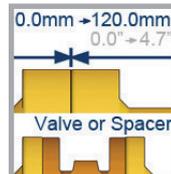
#### **SWi Range:**

The world's safest and most powerful flange spreading wedge for use on small, medium or large flange joints with an access gap of at least 6.0mm.



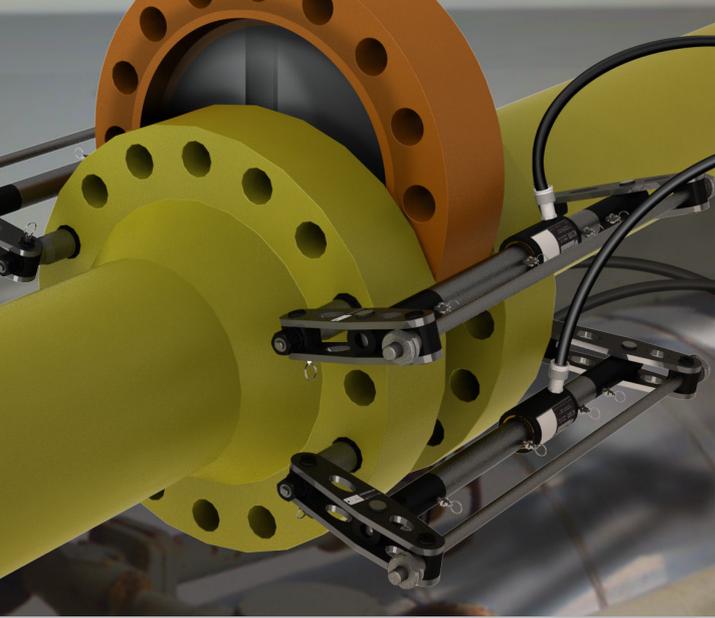
#### **SW Range:**

A general purpose spreading wedge for use on small, medium or large flange joints with an access gap of at least 6.0mm.



#### **SG Range:**

A globally unique spreader for use on flange joints with no access gap, or where there is a spacer, wafer or butterfly valve positioned between the flanges.



FLANGE TOOL INNOVATION

# PRODUCT DATA SHEET

## VC10/13TE HYDRAULIC SECURE-GRIP VALVE CHANGE-OUT TOOL

### SPREADING FORCE:

With 10,000psi (700bar): 100kN (10T)

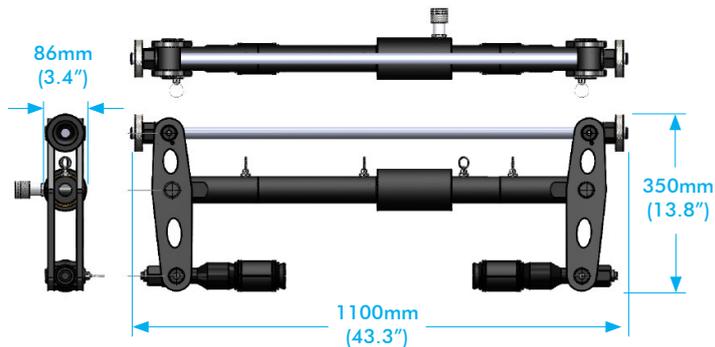
It is recommended that tools are used in pairs giving:

2 x 100kN = 200kN (20T)

SPREADING STROKE: 151mm (5.9")

TOOL-KIT WEIGHT: 53kg (116.8lb)

### TOOL DIMENSIONS



### KIT COMPONENTS

Product Code: VC10/13TEMAX

#### TOOL-KIT (2 PER MAXI KIT)

- 1 x VC10/13TE Tool
- 2 x M39 Collets
- 2 x M42 Collets
- 2 x M45 Collets
- 1 x Instruction Manual
- 1 x Hard Case

Box Dimensions:  
550.0mm x 1200.0mm x 170.0mm  
(21.7" x 47.2" x 6.7")

Kit Weight: 53.0kg (116.8lb)

#### PUMP-KIT (1 PER MAXI KIT)

- 1 x HP1000D Hydraulic Hand Pump
- 2 x Hydraulic Gauges with manifolds
- 2 x 3.0m Hydraulic Hoses
- 2 x Secure Grip Safety Blocks
- 1 x Square Drive Flexible Handle
- 1 x Vernier Calliper
- 1 x Instruction Manual
- 1 x Hard Case

Box Dimensions:  
550.0mm x 1200.0mm x 170.0mm  
(21.7" x 47.2" x 6.7")

Kit Weight: 30.0kg (66.1lb)

info@equalizerinternational.com  
www.equalizerinternational.com

# VC10/13TE

HYDRAULIC SECURE-GRIP  
VALVE CHANGE-OUT TOOL



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FLANGE TOOL INNOVATION

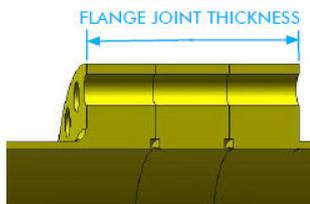
## RANGE OF APPLICATION

The VC10/13TE can be reconfigured with alternative collets (supplied) to suit the following flange bolt-hole diameters:

Collet	Minimum bolt-hole diameter	Maximum bolt-hole diameter
<b>M39 (1-1/2")</b>	38mm (1.50")	42mm (1.65")
<b>M42 (1-5/8")</b>	41mm (1.61")	45mm (1.77")
<b>M45 (1-3/4")</b>	44mm (1.73")	49mm (1.93")



## MODULAR CONFIGURATION

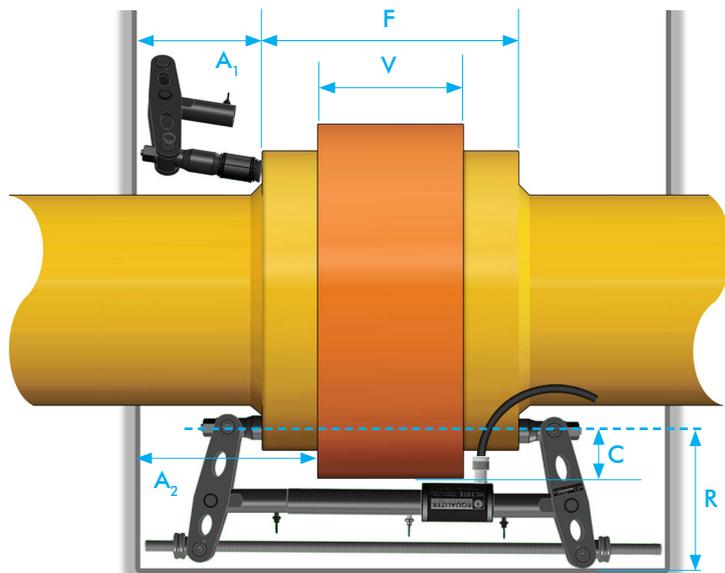


The Actuator and Extension Subassembly can be assembled into 4 different configurations to suit a variety of flange joint thicknesses from 200mm (7.9") to 560mm (22.0").



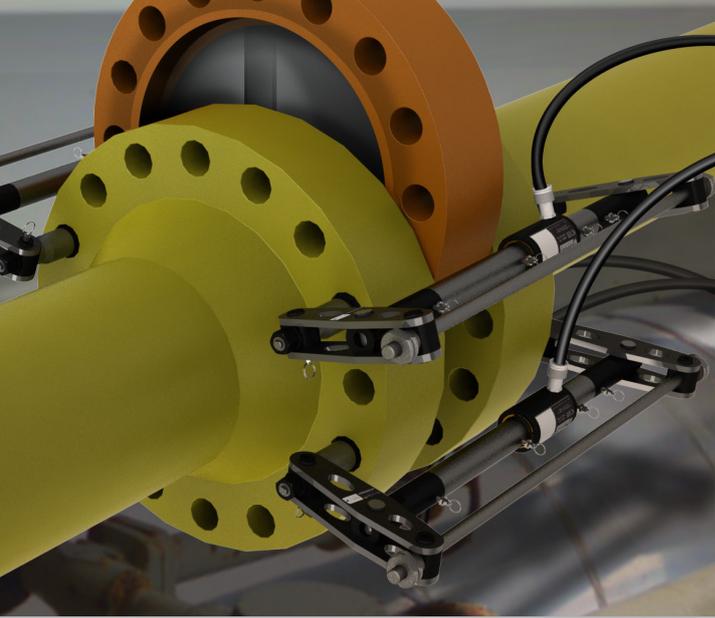
## SPATIAL ENVELOPE

	DIMENSION	MEASURED FROM	MEASURED TO	MINIMUM	MAXIMUM
F	Flange Joint Thickness	Outside Face of Flange	Outside Face of Flange	200mm (7.9")	560mm (22.0")
V	Valve/Spacer Thickness	Inside Face of Flange	Inside Face of Flange	*0mm (*0.0")	*352mm (*13.9")
C	Flange Clearance	Bolt-Hole Circle	Largest OD of Valve/Spacer	-	260mm (10.2")
R	Radial space	Bolt-Hole Circle	Closest Obstruction	360mm (14.2")	-
A <sub>1</sub>	Axial space (for installation)	Outside Face of Flange	Closest Obstruction	300mm (11.81")	-
A <sub>2</sub>	Axial space (installed)	Inner Face of Flange	Closest Obstruction	370mm (14.6")	-



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

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



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FLANGE TOOL INNOVATION

# PRODUCT DATA SHEET

## VC10/15TE HYDRAULIC SECURE-GRIP VALVE CHANGE-OUT TOOL

### SPREADING FORCE:

With 10,000psi (700bar): 100kN (10T)

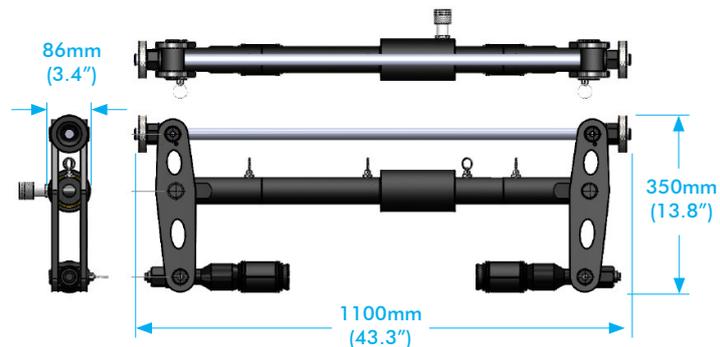
It is recommended that tools are used in pairs giving:

$$2 \times 100\text{kN} = 200\text{kN} (20\text{T})$$

SPREADING STROKE: 151mm (5.9")

TOOL-KIT WEIGHT: 53kg (116.8lb)

### TOOL DIMENSIONS



### KIT COMPONENTS

Product Code: VC10/15TEMAX

#### TOOL-KIT (2 PER MAXI KIT)

- 1 x VC10/15TE Tool
- 2 x M48 Collets
- 2 x M52 Collets
- 2 x M56 Collets
- 1 x Instruction Manual
- 1 x Hard Case

Box Dimensions:  
550.0mm x 1200.0mm x 170.0mm  
(21.7" x 47.2" x 6.7")

Kit Weight: 53.0kg (116.8lb)

#### PUMP-KIT (1 PER MAXI KIT)

- 1 x HP1000D Hydraulic Hand Pump
- 2 x Hydraulic Gauges with manifolds
- 2 x 3.0m Hydraulic Hoses
- 2 x Secure Grip Safety Blocks
- 1 x Square Drive Flexible Handle
- 1 x Vernier Calliper
- 1 x Instruction Manual
- 1 x Hard Case

Box Dimensions:  
550.0mm x 1200.0mm x 170.0mm  
(21.7" x 47.2" x 6.7")

Kit Weight: 30.0kg

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# VC10/15TE

HYDRAULIC SECURE-GRIP  
VALVE CHANGE-OUT TOOL



FLANGE TOOL INNOVATION

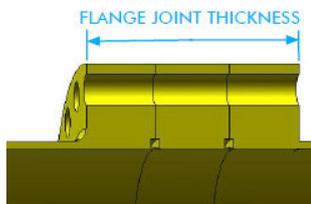
## RANGE OF APPLICATION

The VC10/15TE can be reconfigured with alternative collets (supplied) to suit the following flange bolt-hole diameters:

Collet	Minimum bolt-hole diameter	Maximum bolt-hole diameter
<b>M48 (1-7/8")</b>	47.5mm (1.87")	52mm (2.05")
<b>M52 (2")</b>	50.5mm (1.99")	56mm (2.20")
<b>M56 (2-1/4")</b>	55.5mm (2.19")	62mm (2.44")



## MODULAR CONFIGURATION

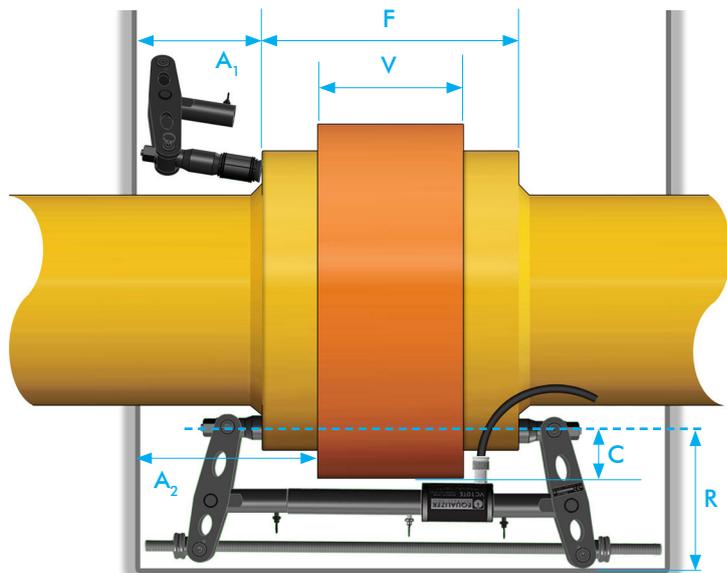


The Actuator and Extension Subassembly can be assembled into 4 different configurations to suit a variety of flange joint thicknesses from 200mm (7.9") to 560mm (22.0").



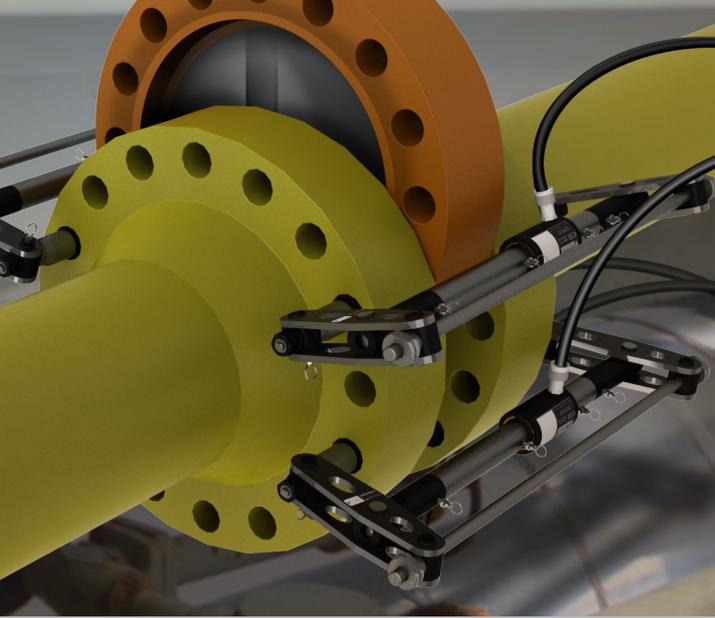
## SPATIAL ENVELOPE

	DIMENSION	MEASURED FROM	MEASURED TO	MINIMUM	MAXIMUM
F	Flange Joint Thickness	Outside Face of Flange	Outside Face of Flange	200mm (7.9")	560mm (22.0")
V	Valve/Spacer Thickness	Inside Face of Flange	Inside Face of Flange	*0mm (*0.0")	*352mm (*13.9")
C	Flange Clearance	Bolt-Hole Circle	Largest OD of Valve/Spacer	-	260mm (10.2")
R	Radial space	Bolt-Hole Circle	Closest Obstruction	360mm (14.2")	-
A <sub>1</sub>	Axial space (for installation)	Outside Face of Flange	Closest Obstruction	300mm (11.81")	-
A <sub>2</sub>	Axial space (installed)	Inner Face of Flange	Closest Obstruction	370mm (14.6")	-



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

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



FLANGE TOOL INNOVATION

# PRODUCT DATA SHEET

## VC10/18TE HYDRAULIC SECURE-GRIP VALVE CHANGE-OUT TOOL

### SPREADING FORCE:

With 10,000psi (700bar): 100kN (10T)

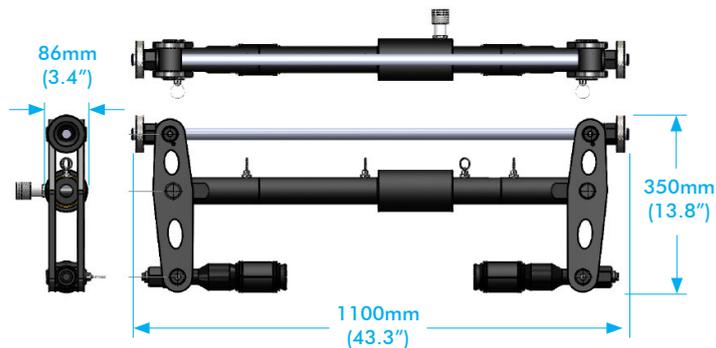
It is recommended that tools are used in pairs giving:

$$2 \times 100\text{kN} = 200\text{kN} (20\text{T})$$

SPREADING STROKE: 151mm (5.9")

TOOL-KIT WEIGHT: 53kg (116.8lb)

### TOOL DIMENSIONS



### KIT COMPONENTS

Product Code: VC10/18TEMAX

#### TOOL-KIT (2 PER MAXI KIT)

- 1 x VC10/18TE Tool
- 2 x M60 Collets
- 2 x M64 Collets
- 2 x M70 Collets
- 1 x Instruction Manual
- 1 x Hard Case

Box Dimensions:  
550.0mm x 1200.0mm x 170.0mm  
(21.7" x 47.2" x 6.7")

Kit Weight: 53.0kg (116.8lb)

#### PUMP-KIT (1 PER MAXI KIT)

- 1 x HP1000D Hydraulic Hand Pump
- 2 x Hydraulic Gauges with manifolds
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Kit Weight: 30.0kg

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# VC10/18TE

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VALVE CHANGE-OUT TOOL



FLANGE TOOL INNOVATION

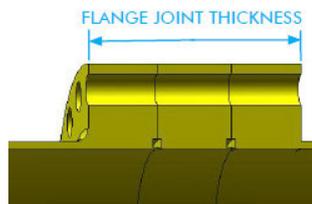
## RANGE OF APPLICATION

The VC10/18TE can be reconfigured with alternative collets (supplied) to suit the following flange bolt-hole diameters:

Collet	Minimum bolt-hole diameter	Maximum bolt-hole diameter
<b>M60 (2-3/8")</b>	59.5mm (2.34")	63mm (2.48")
<b>M64 (2-1/2")</b>	63mm (2.48")	69mm (2.72")
<b>M70 (2-3/4")</b>	69mm (2.72")	75mm (2.95")



## MODULAR CONFIGURATION

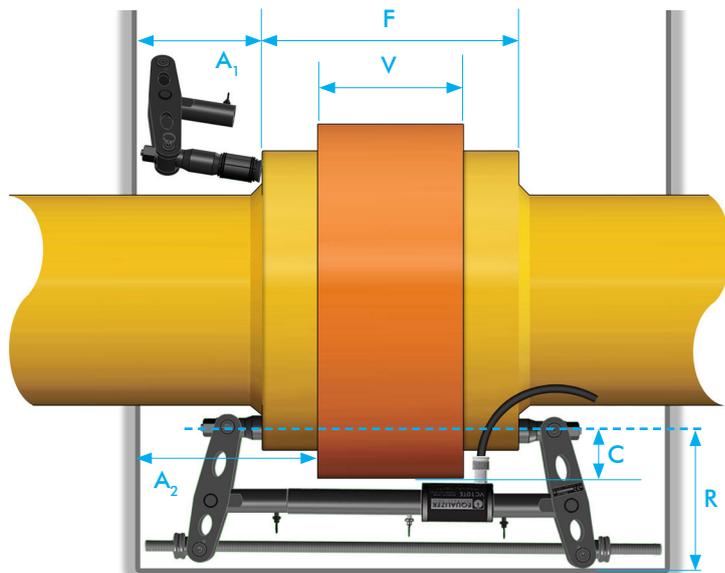


The Actuator and Extension Subassembly can be assembled into 4 different configurations to suit a variety of flange joint thicknesses from 200mm (7.9") to 560mm (22.0").



## SPATIAL ENVELOPE

	DIMENSION	MEASURED FROM	MEASURED TO	MINIMUM	MAXIMUM
F	Flange Joint Thickness	Outside Face of Flange	Outside Face of Flange	200mm (7.9")	560mm (22.0")
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R	Radial space	Bolt-Hole Circle	Closest Obstruction	360mm (14.2")	-
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