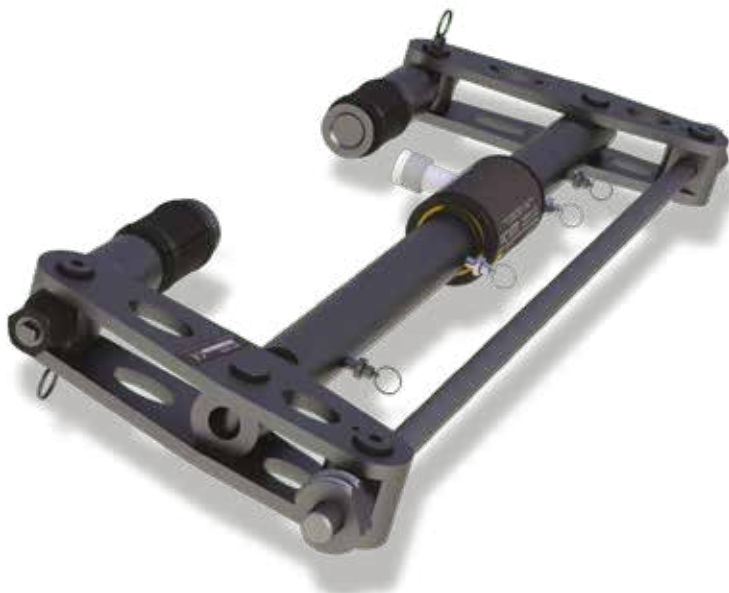


▼ VC10TE



## Secure-Grip Valve Change-Out Tools



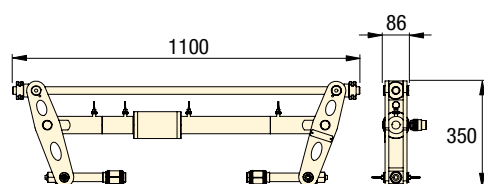
### CAUTION

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.

- Assists in the removal of wafer/butterfly valves, spades/spacers or gaskets from large flange joints
- Tool span is longer than a standard Secure-Grip Flange Spreader
- Adjustable to enable the tool to operate in a range of situations.

### PATENTED SECURE-GRIP SYSTEM:

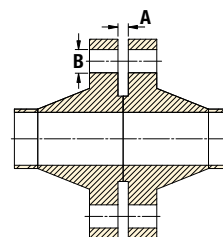
- Unique expanding collet technology
- Secure bolt-hole locking mechanism
- Unique technology makes the Secure-Grip arguably the safest flange spreader available in the world today
- Virtually universal, the Secure-Grip Flange Spreader range will cover ANSI, DIN, Norsok L005, ASME, API and BS Flanges
- Time-saving, simple operation.



### The Actuator and Extension

Subassembly can be assembled into 4 different configurations to suit a variety of applications. For a detailed range of application please request the VC10 Operator Instruction Sheet.

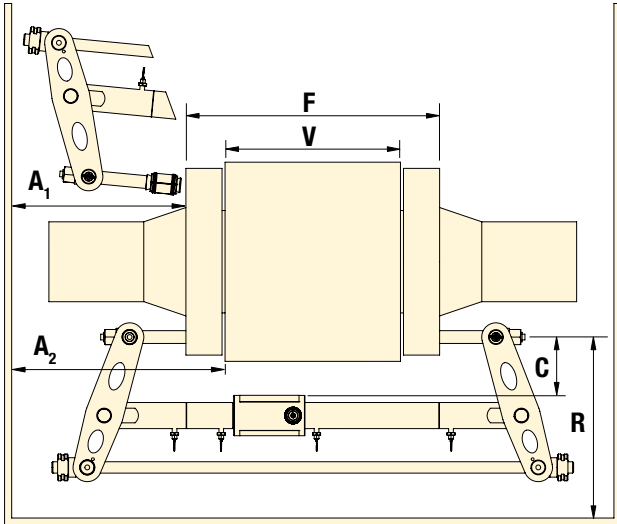
### Flange Dimensions



| Model Number<br>Tool Kit | Type* | Maximum<br>Spreading<br>Force<br>Per Tool<br>(kN) | Spreading<br>Distance<br>Maximum<br>(mm) | Flange Dimensions<br>(mm)  |                            | Tool<br>Kit<br>Weight<br>(kg)<br>(2 per Maxi<br>Kit) | Pump<br>Kit<br>Weight<br>(kg) | Gross<br>Kit<br>Weight<br>(kg) | Tool Case<br>Dimensions<br>(mm) | Pump Case<br>Dimensions<br>(mm) | Tool<br>Number |
|--------------------------|-------|---------------------------------------------------|------------------------------------------|----------------------------|----------------------------|------------------------------------------------------|-------------------------------|--------------------------------|---------------------------------|---------------------------------|----------------|
|                          |       |                                                   |                                          | Minimum<br>Access<br>Gap A | Bolt-hole<br>Diameter<br>B |                                                      |                               |                                |                                 |                                 |                |
| VC10/13TESTD             | H     | 100                                               | 580                                      | 0                          | 38 - 49                    | 50                                                   | 27                            | 77                             | 550x1200x170                    | 550x1200x170                    | VC10/13TE      |
| VC10/13TEMAX             | H     | 100                                               | 580                                      | 0                          | 38 - 49                    | 50                                                   | 30                            | 130                            | 550x1200x170                    | 550x1200x170                    | VC10/13TE      |
| VC10/15TESTD             | H     | 100                                               | 560                                      | 0                          | 47,5 - 62                  | 53                                                   | 27                            | 80                             | 550x1200x170                    | 550x1200x170                    | VC10/15TE      |
| VC10/15TEMAX             | H     | 100                                               | 560                                      | 0                          | 47,5 - 62                  | 53                                                   | 30                            | 136                            | 550x1200x170                    | 550x1200x170                    | VC10/15TE      |
| VC10/18TESTD             | H     | 100                                               | 514                                      | 0                          | 59,5 - 75                  | 58                                                   | 27                            | 85                             | 550x1200x170                    | 550x1200x170                    | VC10/18TE      |
| VC10/18TEMAX             | H     | 100                                               | 514                                      | 0                          | 59,5 - 75                  | 58                                                   | 30                            | 146                            | 550x1200x170                    | 550x1200x170                    | VC10/18TE      |
| VC10/25TESTD             | H     | 100                                               | 490                                      | 0                          | 75 - 108                   | 58                                                   | 27                            | 85                             | 550x1200x170                    | 550x1200x170                    | VC10/25TE      |
| VC10/25TEMAX             | H     | 100                                               | 490                                      | 0                          | 75 - 108                   | 58                                                   | 30                            | 146                            | 550x1200x170                    | 550x1200x170                    | VC10/25TE      |

\* H = Hydraulic

# Flange Spreading Tools



## VC Series



Spreading Force:

**100 kN**

Spreading Distance:

**0 - 580 mm**

Maximum Operating Pressure:

**700 bar**

| Model Number<br>Tool Kit | Flange Joint Thickness<br>F |              |                          | Valve / Spacer Thickness<br>V |              |                         | Flange Clearance<br>C                                       | Radial Space<br>R                                    | Axial Space<br>(for installation)<br>A <sub>1</sub>        | Axial Space<br>(installed)<br>A <sub>2</sub>             | Tool Number |
|--------------------------|-----------------------------|--------------|--------------------------|-------------------------------|--------------|-------------------------|-------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------|-------------|
|                          | Min.<br>(mm)                | Max.<br>(mm) | Measured:<br>From / To   | Min.<br>(mm)                  | Max.<br>(mm) | Measured:<br>From / To  |                                                             |                                                      |                                                            |                                                          |             |
| <b>VC10/13TESTD</b>      | 110                         | 690          |                          | 0*                            | 580*         |                         |                                                             |                                                      |                                                            |                                                          | VC10/13TE   |
| <b>VC10/13TEMAX</b>      | 110                         | 690          |                          | 0*                            | 580*         |                         |                                                             |                                                      |                                                            |                                                          | VC10/13TE   |
| <b>VC10/15TESTD</b>      | 130                         | 690          |                          | 0*                            | 560*         |                         |                                                             |                                                      |                                                            |                                                          | VC10/15TE   |
| <b>VC10/15TEMAX</b>      | 130                         | 690          | Outside face of flange / | 0*                            | 560*         | Inside face of flange / | Bolt-hole circle / Largest OD of valve/spacer - max. 130 mm | Bolt-hole circle / Closest obstruction - min. 360 mm | Outside face of flange / Closest obstruction - min. 300 mm | Inner face of flange / Closest obstruction - min. 370 mm | VC10/15TE   |
| <b>VC10/18TESTD</b>      | 176                         | 690          | Outside face of flange   | 0*                            | 514*         | Inside face of flange   |                                                             |                                                      |                                                            |                                                          | VC10/18TE   |
| <b>VC10/18TEMAX</b>      | 176                         | 690          |                          | 0*                            | 514*         |                         |                                                             |                                                      |                                                            |                                                          | VC10/18TE   |
| <b>VC10/25TESTD</b>      | 200                         | 690          |                          | 0*                            | 490*         |                         |                                                             |                                                      |                                                            |                                                          | VC10/25TE   |
| <b>VC10/25TEMAX</b>      | 200                         | 690          |                          | 0*                            | 490*         |                         |                                                             |                                                      |                                                            |                                                          | VC10/25TE   |

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

### TOOL KITS (1 PER STD KIT, 2 PER MAX KIT)



**VC10/13TE**  
1 x VC10/13TE Tool  
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

**VC10/18TE**  
1 x VC10/18TE Tool  
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

**VC10/15TE**  
1 x VC10/15TE Tool  
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

**VC10/25TE**  
1 x VC10/25TE Tool  
1 x Aluminium Carry Case with Protective Foam Inserts

### PUMP KITS



**For STD Tool Kits**  
1 x 700 bar HP550S Single Port Hydraulic Hand Pump  
1 x Hydraulic Gauge with Manifold  
1 x 700 bar Hydraulic Hose, 2,0 m  
1 x Secure Grip Safety Block  
2 x Square Drive Flexible Handle  
1 x Vernier Calliper  
1 x Aluminium Carry Case with Protective Foam Inserts

**For MAX Tool Kits**  
1 x 700 bar HP1000D Twin Port Hydraulic Hand Pump  
2 x Hydraulic Gauges with Manifolds  
2 x 700 bar Hydraulic Hoses, 2,0 m  
2 x Secure Grip Safety Blocks  
1 x Square Drive Flexible Handle  
1 x Vernier Calliper  
1 x Aluminium Carry Case with Protective Foam Inserts



### Collet Sizing

It is important that the correct size of collet is used. An undersized collet could allow the collet holder to pull through its bore. An oversized collet has the potential to become jammed in the bolt-hole.



### Range of Application

For a detailed range of application please request the Hydraulic Secure-Grip Valve Change-Out Tool Operator Instruction Sheet.

### VC10/25TE COLLETS (Available Separately)

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