

▼ 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.

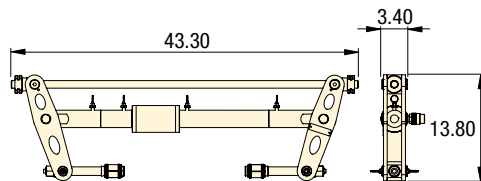


The Actuator and Extension

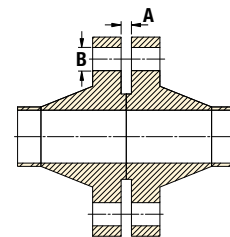
Subassembly can be assembled into 4 different configurations to suit a variety of applications. For a detailed range of application please request the VC10 Operator Instruction Sheet.

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.



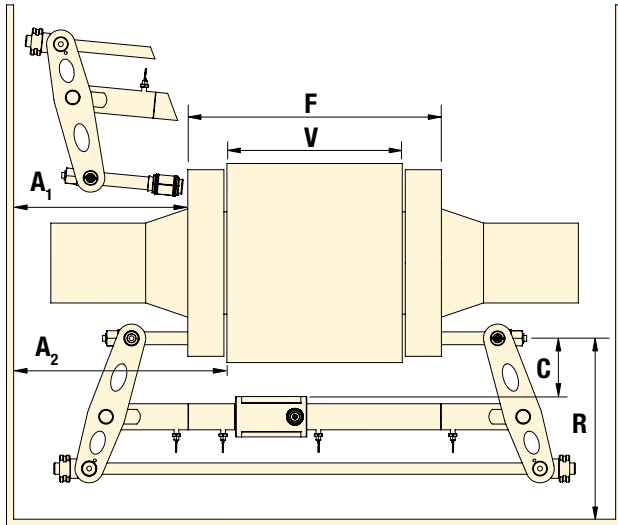
Flange Dimensions



Model Number Tool Kit	Type*	Maximum Spreading Force Per Tool (tons)	Spreading Distance Maximum (in)	Flange Dimensions (in)		Tool Kit Weight (2 per Maxi Kit) (lbs)	Pump Kit Weight (lbs)	Gross Kit Weight (lbs)	Tool Case Dimensions (in)	Pump Case Dimensions (in)	Tool Number
				Minimum Access Gap A	Bolt-hole Diameter B						
VC10/13TESTD	H	11.2	22.8	0	1.50 - 1.93	110	60	170	21.7 x 47.2 x 6.7	21.7 x 47.2 x 6.7	VC10/13TE
VC10/13TEMAX	H	11.2	22.8	0	1.50 - 1.93	110	66	287	21.7 x 47.2 x 6.7	21.7 x 47.2 x 6.7	VC10/13TE
VC10/15TESTD	H	11.2	22.0	0	1.87 - 2.44	117	60	176	21.7 x 47.2 x 6.7	21.7 x 47.2 x 6.7	VC10/15TE
VC10/15TEMAX	H	11.2	22.0	0	1.87 - 2.44	117	66	300	21.7 x 47.2 x 6.7	21.7 x 47.2 x 6.7	VC10/15TE
VC10/18TESTD	H	11.2	20.2	0	2.34 - 2.95	128	60	187	21.7 x 47.2 x 6.7	21.7 x 47.2 x 6.7	VC10/18TE
VC10/18TEMAX	H	11.2	20.2	0	2.34 - 2.95	128	66	322	21.7 x 47.2 x 6.7	21.7 x 47.2 x 6.7	VC10/18TE
VC10/25TESTD	H	11.2	19.3	0	2.95 - 4.25	128	60	187	21.7 x 47.2 x 6.7	21.7 x 47.2 x 6.7	VC10/25TE
VC10/25TEMAX	H	11.2	19.3	0	2.95 - 4.25	128	66	322	21.7 x 47.2 x 6.7	21.7 x 47.2 x 6.7	VC10/25TE

* H = Hydraulic

Flange Spreading Tools



VC Series



Spreading Force:

11.2 tons

Spreading Distance:

0 - 22.8 inches

Maximum Operating Pressure:

10,000 psi

Model Number Tool Kit	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			Measured: From / To	Measured: From / To	Measured: From / To	Measured: From / To	
VC10/13TESTD	4.3	27.2		0*	22.8*								VC10/13TE
VC10/13TEMAX	4.3	27.2		0*	22.8*								VC10/13TE
VC10/15TESTD	5.1	27.2		0*	22.0*								VC10/15TE
VC10/15TEMAX	5.1	27.2	Outside face of flange /	0*	22.0*	Inside face of flange /	Bolt-hole circle / Largest OD of valve/spacer - max. 5.1 inches	Bolt-hole circle / Closest obstruction - min. 14.2 inches	Outside face of flange / Closest obstruction - min. 11.8 inches	Inner face of flange / Closest obstruction - min. 14.6 inches			VC10/15TE
VC10/18TESTD	6.9	27.2	Outside face of flange /	0*	20.2*	Inside face of flange /							VC10/18TE
VC10/18TEMAX	6.9	27.2	Outside face of flange /	0*	20.2*	Inside face of flange /							VC10/18TE
VC10/25TESTD	7.9	27.2	Outside face of flange /	0*	19.3*	Inside face of flange /							VC10/25TE
VC10/25TEMAX	7.9	27.2	Outside face of flange /	0*	19.3*	Inside face of flange /							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 Aluminum 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 Aluminum 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 Aluminum Carry Case with Protective Foam Inserts

VC10/25TE

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

PUMP KITS



For STD Tool Kits

1 x 10,000 psi HP550S Single Port Hydraulic Hand Pump
1 x Hydraulic Gauge with Manifold
1 x 10,000 psi Hydraulic Hose, 6.5 ft
1 x Secure Grip Safety Block
1 x Square Drive Flexible Handle
1 x Vernier Calliper
1 x Aluminum Carry Case with Protective Foam Inserts

For MAX Tool Kits

1 x 10,000 psi HP1000D Twin Port Hydraulic Hand Pump
2 x Hydraulic Gauges with Manifolds
2 x 10,000 psi Hydraulic Hoses, 6.5 ft
2 x Secure Grip Safety Blocks
1 x Square Drive Flexible Handle
1 x Vernier Calliper
1 x Aluminum 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
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