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# **VERTICAL CLAMPS**

#### • Features:

Vertical clamps are the most popular type of toggle clamp, the arm and handle rotating in the same direction when applied and retracted, and high clamping and holding forces being generated.

A comfortable, cushioned PVC handle grip is fitted to all Vertical clamps.

Models V75, V150, V250, V350, V450 and V550 feature a base which accurately guides the clamping arm, and a closed end to the arm for rigidity of construction and to retain the spindle or setscrew if it should loosen.

The angles through which the clamping arm and handle open can be altered by repositioning or removing the stop pin.

#### • Specification:

The main components are of zinc plated and passivated steel.

Rivets are of stainless steel, which burnishes and work-hardens with use, the rivets rotating in hardened bushes in the larger clamps. Setscrews are of chemi-black coated steel.

#### BRAUER ®

# VERTICAL CLAMPS

**V70 SERIES** MODEL V70/2BT



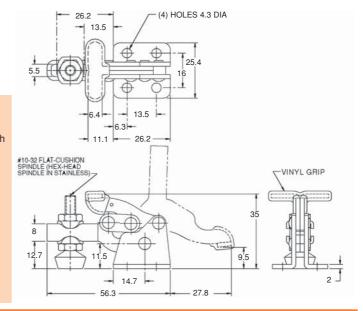
### Holding Force: 70 daN

Miniature hold-down clamp with a unique finger-grip T-handle. Open arm allows spindle adjustment. Arm opens 92° while handle moves 175°. pping weight:

0.1 Kg Supplied with #10-32 flat-cushion spindle 16112-FC.

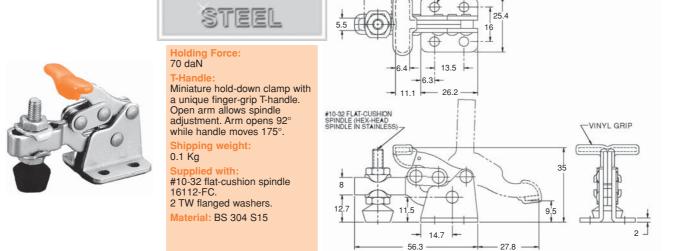
2 TW flanged washers.

STAINLESS



(4) HOLES 4.3 DIA

**V70 SERIES** MODEL V70/2BTSS



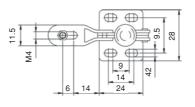
26.2

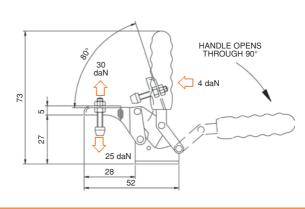
13.5

# **V30 SERIES**

MODEL V30/2B

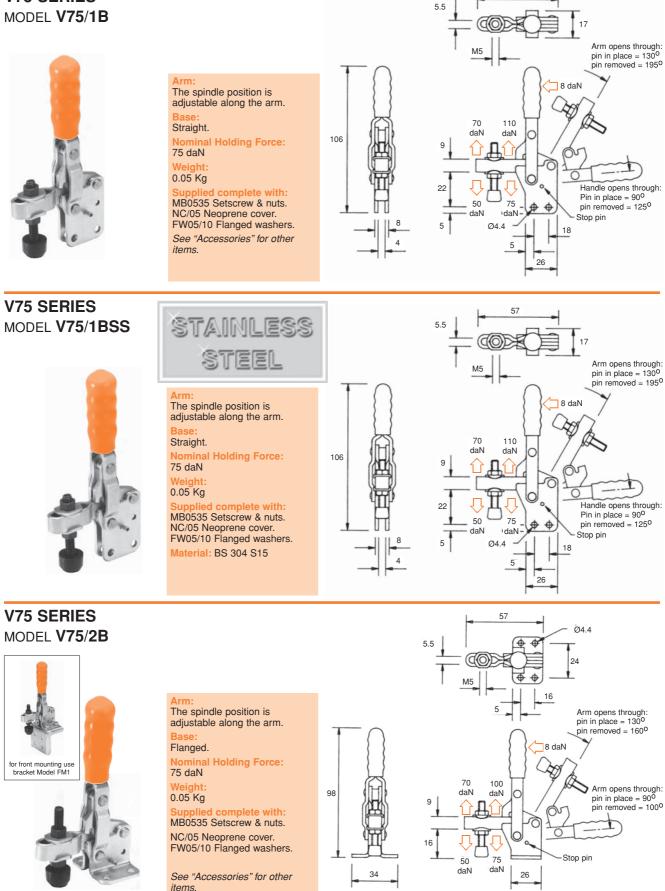






# VERTICAL CLAMPS

**V75 SERIES** 



# **VERTICAL CLAMPS**

STAINLESS

STEEL

The spindle position is adjustable along the arm.

**Nominal Holding Force:** 

Supplied complete with: Setscrew & nuts.

Neoprene cover.

Flanged washers.

BS 304 S15

Flanged.

75 daN

Voiaht

0.05 Kg

V75 SERIES MODEL V75/2BSS

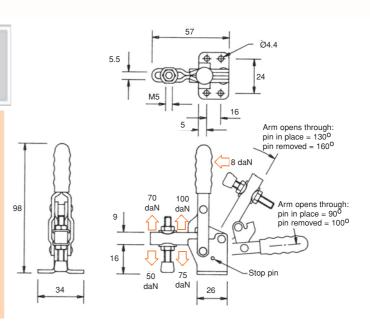


#### V100 SERIES MODEL V100/1B



#### is adjustable along the arm. Base: Straight. Norminal Holding Force: 100 daN Weight: 1.10 Kg Supplied complete with: MB0535 Setscrew & nuts. NC/05 Neoprene cover. FW05/10 Flanged washers. See "Accessories" for other items.

The spindle position

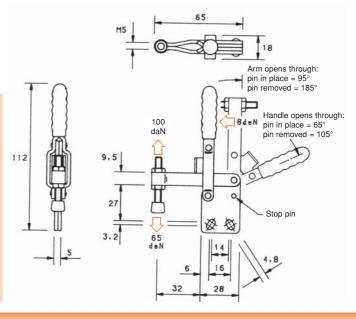


66 16 18 Arm opens through: pin in place = 95° M5 pin removed = 1850 8 daN Ð Handle opens through: pin in place =  $65^{\circ}$ pin removed =  $105^{\circ}$ 70 100 0 daN daN 9.5 0 112 í 0 ō a U, Ш Ω 27  $\cup$ 50 80 Stop pin Ø daN 🚞 daN 🗄 3.2 5 48 16 5 28

V100 SERIES MODEL V100/1C



#### Arm: The spindle is in a fixed position. Base: Straight. Nominal Holding Force: 100 daN Weight: 0.10 Kg Supplied complete with: MB0535 Setscrew & nuts. NC/05 Neoprene cover. See "Accessories" for other items.



# **VERTICAL CLAMPS**

The spindle position is adjustable along the arm.

**Nominal Holding Force:** 

Flanged.

100 daN

V100 SERIES MODEL V100/2B



#### V100 SERIES MODEL V100/2C

 Weight:

 0.10 Kg

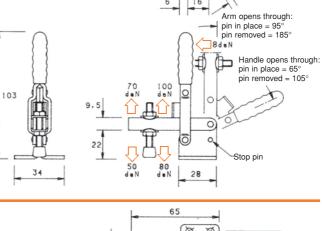
 Supplied complete with:

 MB0535 Setscrew & nuts.

 NC/05 Neoprene cover.

 FW05/10 Flanged washers.

 See "Accessories" for other items.



67

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17.5

24

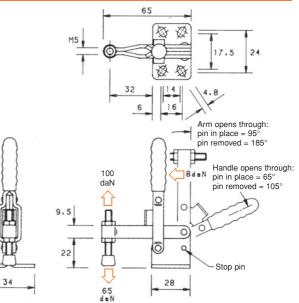
Ð

M5

5.5



#### Arm: The spindle is in a fixed position. Base: Flanged. Nominal Holding Force: 100 daN Weight: 0.10 Kg Supplied complete with: MB0535 Setscrew & nuts. NC/05 Neoprene cover. See "Accessories" for other items.



**CLAMPING PRODUCTS** 

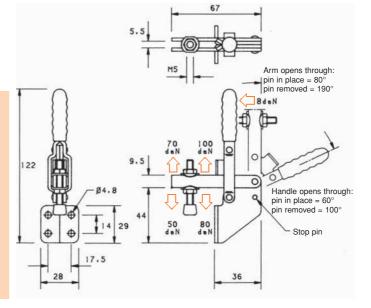
**V100 SERIES** 

Arm: The spindle position is adjustable along the arm. Base:

Front mounting. Nominal Holding Force: 100 daN

Weight: 0.11 Kg

Supplied complete with: MB0535 Setscrew & nuts. NC/05 Neoprene cover. FW05/10 Flanged washers. See "Accessories" for other items.



# **VERTICAL CLAMPS**

V100 SERIES MODEL V100/3C



#### V150 SERIES MODEL V150/1B



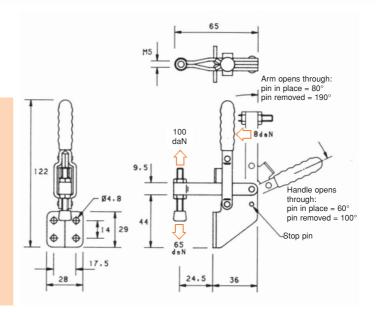
#### Arm: The spindle is in a fixed position. Base: Front mounting.

Nominal Holding Force:

100 daN Weight:

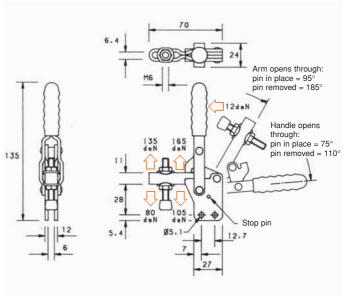
0.11 Kg Supplied complete with:

MB0535 Setscrew & nuts. NC/05 Neoprene cover. See "Accessories" for other items.



Arm: The spindle position is adjustable along the arm. Base: Straight. Nominal Holding Force: 150 daN Weight: 0.15 Kg

Supplied complete with: MB0650 Setscrew & nuts. NC/06 Neoprene cover. FW06/12 Flanged washers. See "Accessories" for other items.



#### V150 SERIES MODEL V150/1BL



Arm: The spindle position is adjustable along the arm. 15mm added to arm length over V150/1B model.

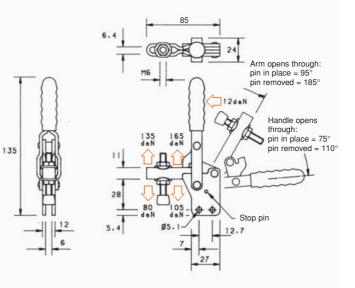
Base: Straight.

Nominal Holding Force: 150 daN

Weight:

0.15 Kg

Supplied complete with: MB0650 Setscrew & nuts. NC/06 Neoprene cover. FW06/12 Flanged washers. See "Accessories" for other items.



#### VERTICAL AMPS

V150 SERIES MODEL V150/1BSS



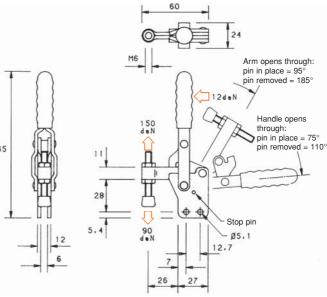
#### STEEL M6 The spindle position is adjustable along the arm. Base Straight. 135 deN 165 daN **Nominal Holding Force:** 135 150 daN 0.15 Kg ied complete with: 80 105 d 8 N MB0650 Setscrew & nuts. 6 NC/06 Neoprene cover. Ø5.1 5.4 Material: BS 304 S15 27

#### V150 SERIES MODEL V150/1C



#### The spindle is in a fixed position. Straight. 135 Nominal Holding Force: 150 daN 0.15 Kg d complete with: MB0650 Setscrew & nuts. NC/06 Neoprene cover. See "Accessories" for other items.

STAINLESS



70

(d)

24

12deN

20

Stop pin

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h

12.7

Arm opens through: pin in place =  $95^{\circ}$ pin removed =  $185^{\circ}$ 

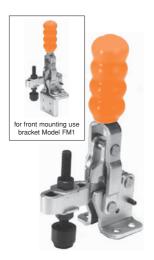
Handle opens

through: pin in place = 75°

pin removed =  $110^{\circ}$ 

6.4

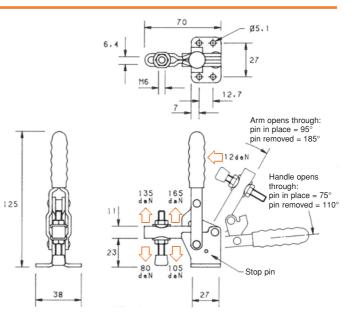
#### V150 SERIES MODEL V150/2B



### The spindle position is adjustable along the arm. Flanged.

Nominal Holding Force: 150 daN

0.15 Kg pplied complete with: MB0650 Setscrew & nuts. NC/06 Neoprene cover. FW06/12 Flanged washers. See "Accessories" for other items.



# BRAUER®

# ERTICAL CLAMPS

V150 SERIES MODEL V150/2BL

for front mounting use bracket Model FM1

#### The spindle position is adjustable along the arm. 15mm added to arm length over V150/2B model.

Flanged.

Arm

Base

Flanged.

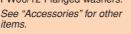
150 daN

Weight:

0.15 Kg

**Nominal Holding Force:** 150 daN

0.15 Kg upplied complete with: MB0650 Setscrew & nuts. NC/06 Neoprene cover. FW06/12 Flanged washers



STAINLESS

STEEL

The spindle position is adjustable along the arm.

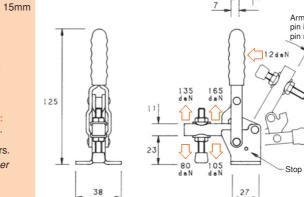
Nominal Holding Force:

Supplied complete with: Setscrew & nuts.

Neoprene cover. Flanged washers

BS 304 S15

125



6.4

M6

6.4

12.7 Arm opens through: pin in place =  $95^{\circ}$ pin removed =  $185^{\circ}$ Handle opens through: pin in place = 75° pin removed = 110° Stop pin

Ø5.1

27

Arm opens through: pin in place = 95°

pin removed = 1850

12.7

12deN

Ø5.1

27

85

70

 $\overline{\Phi}$ -0

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 $(\mathbf{d}\mathbf{c}$ M6

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0

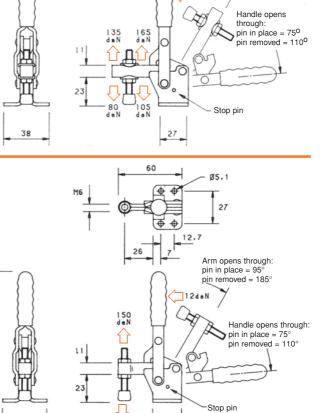
#### V150 SERIES MODEL V150/2BSS



#### V150 SERIES MODEL V150/2C



#### The spindle is in a fixed position. Flanged. **Nominal Holding Force:** 150 daN 0.15 Kg complete with: MB0650 Setscrew & nuts. NC/06 Neoprene cover. See "Accessories" for other items.



90 d a N

27

38

125

# **VERTICAL CLAMPS**

Arm

position.

Flanged.

150 daN

0.15 Kg

items.

The spindle is in a fixed

**Nominal Holding Force:** 

Supplied complete with: MB0650 Setscrew & nuts.

See "Accessories" for other

NC/06 Neoprene cover.

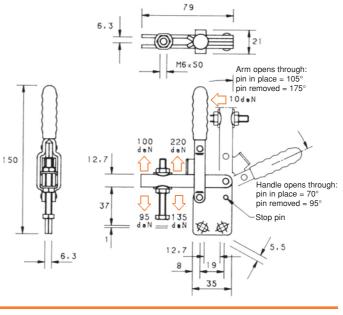
V200 SERIES MODEL V200/1B

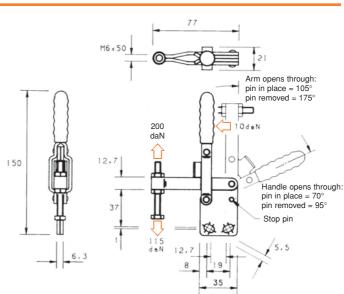


#### V200 SERIES MODEL V200/1C



Arm: The spindle is in a fixed position. Base: Straight. Nominal Holding Force: 200 daN Weight: 0.20 Kg Supplied complete with: MB0650 Setscrew & nuts. See "Accessories" for other items.



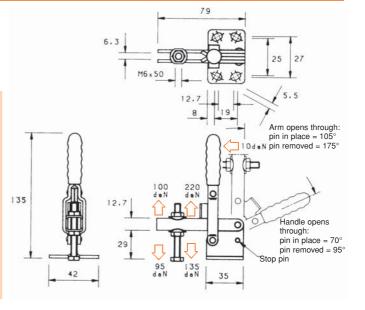




**V200 SERIES** 

MODEL V200/2B

Arm: The spindle position is adjustable along the arm. Base: Flanged. Nominal Holding Force: 200 daN Weight: 0.20 Kg Supplied complete with: MB0650 Setscrew & nuts. FW06/12 Flanged washers. See "Accessories" for other items.



# **VERTICAL CLAMPS**

Arm

position.

Flanged.

200 daN

0.20 Kg

items.

The spindle is in a fixed

**Nominal Holding Force:** 

upplied complete with:

MB0650 Setscrew & nuts.

FW06/12 Flanged washers.

See "Accessories" for other

V200 SERIES MODEL V200/2C

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100	
Res	

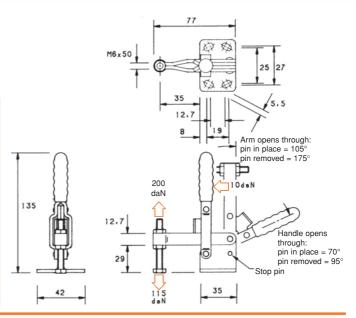
#### V200 SERIES MODEL V200/3B

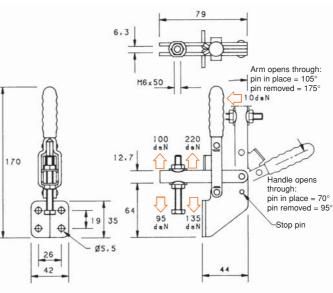


#### Arm: The spindle position is adjustable along the arm. Base: Front mounting. Nominal Holding Force:

200 daN Weight: 0.25 Kg

Supplied complete with: MB0650 Setscrew & nuts. FW06/12 Flanged washers. See "Accessories" for other items.

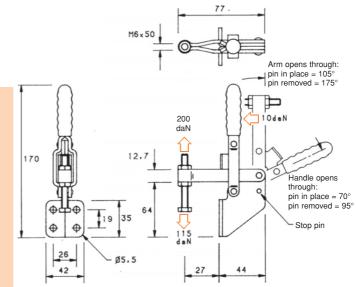




V200 SERIES MODEL V200/3C



#### Arm: The spindle is in a fixed position. Base: Front mounting. Nominal Holding Force: 200 daN Weight: 0.25 Kg Supplied complete with: MB0650 Setscrew & nuts. See "Accessories" for other items.



# VERTICAL CLAMPS

Straight.

250 daN

0.38 Kg

items.

**Nominal Holding Force:** 

upplied complete with:

See "Accessories" for other

MB0860 Setscrew & nuts. R/08 Spindle retainer.

V250 SERIES MODEL V250/1A



#### V250 SERIES MODEL V250/1AL

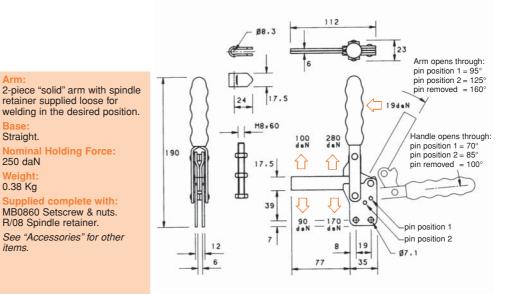
Solid arm with spindle retainer supplied loose for welding in the desired position. 10mm added to arm length over V250/1A model.

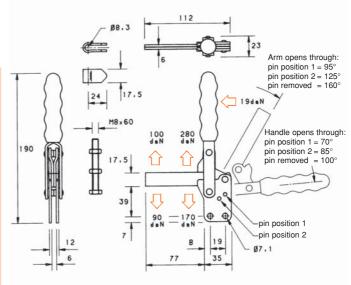
#### Straight.

Nominal Holding Force: 250 daN

0.38 Kg

lied complete with: MB0860 Setscrew & nuts. R/08 Spindle retainer. See "Accessories" for other items.



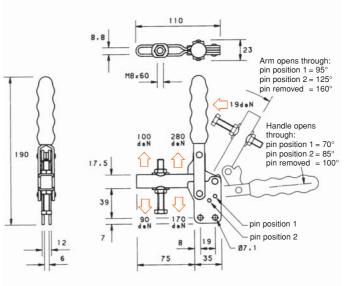






#### Arm The spindle position is adjustable along the arm. Straight. **Nominal Holding Force:** 250 daN Weight: 0.38 Kg

Supplied complete with: MB0860 Setscrew & nuts. FW08/15 Flanged washers. See "Accessories" for other items.



#### VERTICAL AMPS

Arm

Straight.

250 daN

Weight: 0.38 Kg

BS 304 S15

items.

V250 SERIES MODEL V250/1BSS

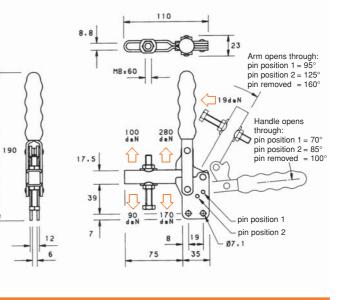


#### V250 SERIES MODEL V250/1C



#### The spindle is in a fixed position. Straight. Nominal Holding Force: 250 daN 0.38 Kg Supplied complete with:

MB0860 Setscrew & nuts. See "Accessories" for other items.



190

STAINLESS

STEEL

The spindle position is

adjustable along the arm.

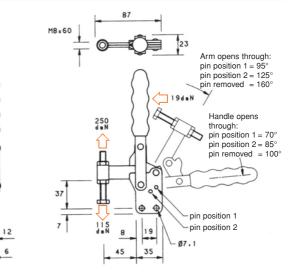
Nominal Holding Force:

Supplied complete with:

MB0860 Setscrew & nuts.

FW08/15 Flanged washers.

See "Accessories" for other



#### **V250 SERIES** MODEL V250/2A



#### 2-piece "solid" arm with spindle retainer supplied loose for welding in the desired position.

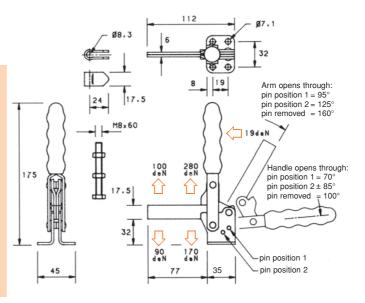
Flanged. minal Holding Force:

250 daN

items.

0.38 Kg Supplied complete with: MB0860 Setscrew & nuts. R/08 Spindle retainer.

See "Accessories" for other



# VERTICAL CLAMPS

V250 SERIES MODEL V250/2AL



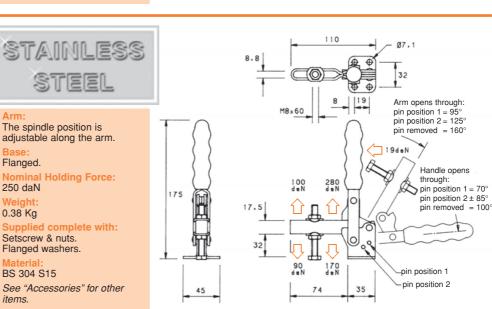
#### **V250 SERIES** MODEL V250/2B

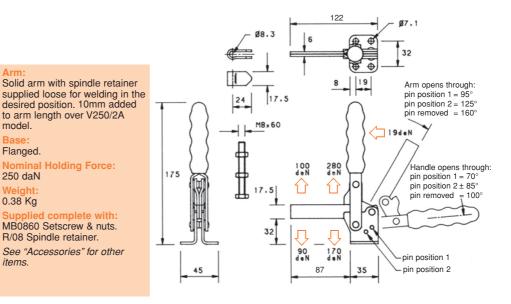




#### V250 SERIES MODEL V250/2BSS







The spindle position is adjustable along the arm.

to arm length over V250/2A

ominal Holding Force:

Supplied complete with: MB0860 Setscrew & nuts.

See "Accessories" for other

R/08 Spindle retainer.

model.

Flanged.

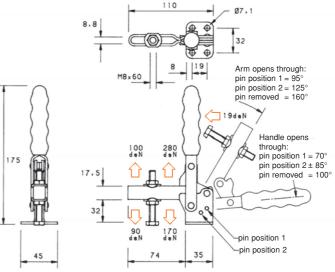
250 daN

0.38 Kg

items

Flanged. **Nominal Holding Force:** 250 daN

0.38 Kg complete with: MB0860 Setscrew & nuts. FW08/15 Flanged washers. See "Accessories" for other items



# VERTICAL CLAMPS

Arn

position.

Flanged.

250 daN

0.38 Kg

items.

The spindle is in a fixed

**Nominal Holding Force:** 

upplied complete with: MB0860 Setscrew & nuts.

See "Accessories" for other

Solid with spindle retainer

Nominal Holding Force:

MB0860 Setscrew & nuts.

See "Accessories" for other

R/08 Spindle retainer.

plied complete with:

desired position.

Straight.

300 daN

0.48 Kg

items.

V250 SERIES MODEL V250/2C



#### **V300 SERIES** MODEL V300/1A



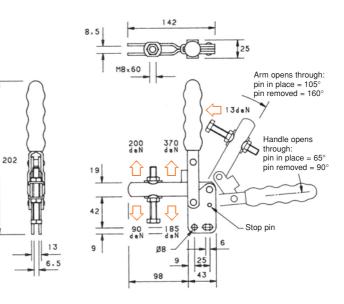
#### **V300 SERIES** MODEL V300/1B

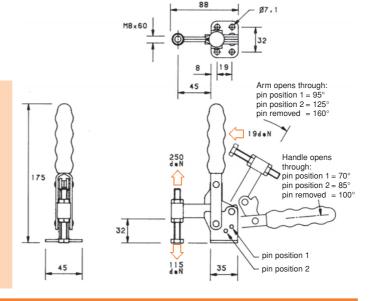


#### Arm The spindle position is adjustable along the arm. Straight. **Nominal Holding Force:**

0.48 Kg d complete with: MB0860 Setscrew & nuts. FW08/15 Flanged washers. See "Accessories" for other items.

300 daN





143 Ø8.3 6 25 Arm opens through: pin in place =  $105^{\circ}$ pin removed = 160° 17.5 24 13daN supplied loose for welding in the M8×60 370 d a N 200 d a N Handle opens through: 202 pin in place =  $65^{\circ}$ 0 Û Û pin removed = 90° 19 6 0 Û 42 Л, Stop pin ₽⊕ 90 d n: N 185 d a N 6 q 13 Ø8 6.5 25 43 100

#### **VERTICAL CLAMPS V300 SERIES** MODEL V300/1C

The spindle is in a fixed

**Nominal Holding Force:** 

upplied complete with: MB0860 Setscrew & nuts.

See "Accessories" for other

position.

Straight.

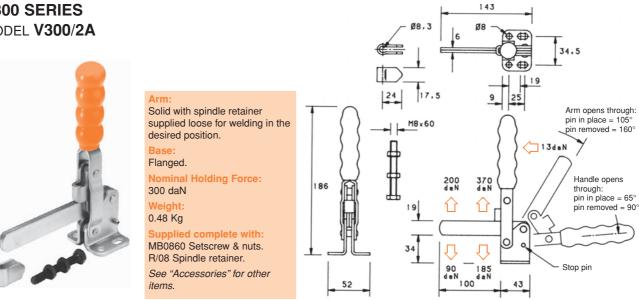
300 daN

0.48 Kg

items.



#### **V300 SERIES** MODEL V300/2A



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V300 SERIES

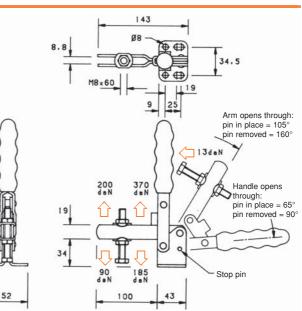
MODEL V300/2B

#### Arm The spindle is adjustable along the arm.

Flanged. Nominal Holding Force: 300 daN

#### Weight: 0.48 Kg

Supplied complete with: MB0860 Setscrew & nuts. FW08/15 Flanged washers. See "Accessories" for other items.



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Stop pin

Arm opens through: pin in place =  $105^{\circ}$ pin removed =  $160^{\circ}$ 

Handle opens through:

pin in place = 65°

pin removed = 90°

M8×60

39

9

186

#### VERTICAL CLAMPS V300 SERIES MODEL V300/2C

Arm

position.

Flanged.

300 daN

Weight:

0.48 Kg

items.

The spindle is in a fixed

**Nominal Holding Force:** 

Supplied complete with:

MB0860 Setscrew & nuts.

See "Accessories" for other



#### V300 SERIES MODEL V300/3A



#### V300 SERIES MODEL V300/3B

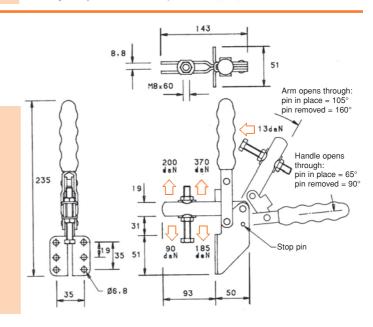


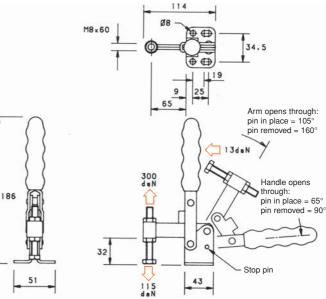
#### Arm: The spindle position is adjustable along the arm. Base:

Front mounting. Nominal Holding Force: 300 daN

Weight: 0.50 Kg Supplied complete with: MB0860 Setscrew & nuts. EW08/15 Elanged washer

MB0860 Setscrew & huts. FW08/15 Flanged washers. See "Accessories" for other items.





Arm: Solid with spindle retainer supplied loose for welding in the desired position.

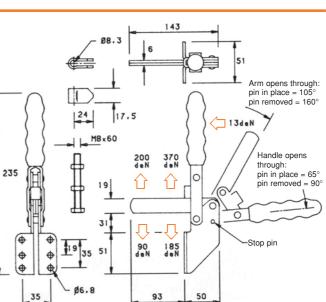
Front mounting. Nominal Holding Force:

300 daN Weight:

0.50 Kg

items

Supplied complete with: MB0860 Setscrew & nuts. R/08 Spindle retainer. See "Accessories" for other



#### **VERTICAL CLAMPS V300 SERIES** MODEL V300/3C



#### V350 SERIES MODEL V350/1A



#### V350 SERIES MODEL V350/1B



#### **Nominal Holding Force:** 300 daN 0.50 Kg upplied complete with: MB0860 Setscrew & nuts. See "Accessories" for other items.

Solid with spindle retainer

**Nominal Holding Force:** 

Supplied complete with:

MB1080 Setscrew & nuts.

See "Accessories" for other

R/10 Spindle retainer.

desired position.

Straight.

350 daN

Weight

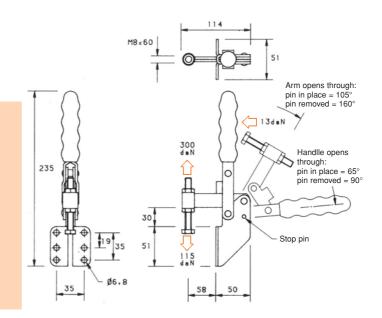
0.80 Kg

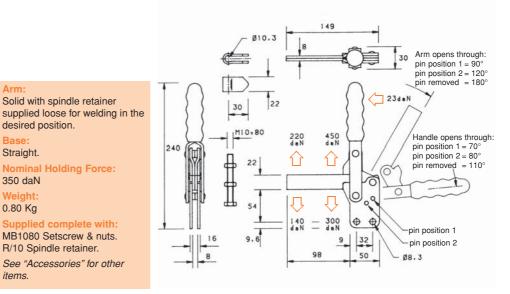
items

The spindle is in a fixed

position.

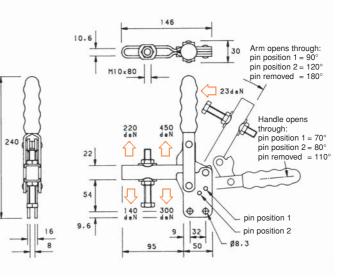
Front mounting.





Arm The spindle position is adjustable long the arm. Base Straight. **Nominal Holding Force:** 350 daN Weight: 0.80 Kg

Supplied complete with: MB1080 Setscrew & nuts. FW10/20 Flanged washers. See "Accessories" for other items.



50

#### VERTICAL CLAMPS **V350 SERIES** MODEL V350/1C

Arm

position.

Straight.

350 daN

Weight:

0.75 Kg

items.

Weight

items

R/10 Spindle retainer.

See "Accessories" for other

The spindle is in a fixed

**Nominal Holding Force:** 

Supplied complete with:

MB1080 Setscrew & nuts.

See "Accessories" for other

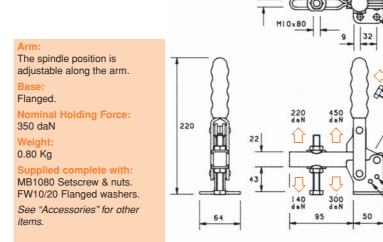


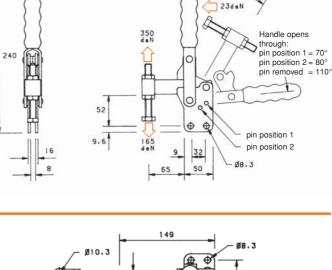
#### V350 SERIES MODEL V350/2A



#### V350 SERIES MODEL V350/2B







124

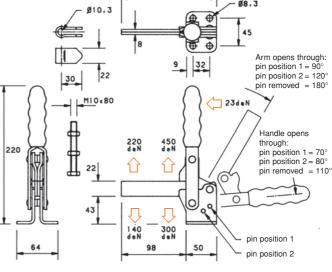
0

Arm opens through:

pin position  $1 = 90^{\circ}$ pin position  $2 = 120^{\circ}$ pin removed  $= 180^{\circ}$ 

30

M10x80



146

0

45

08.3

23deN

Arm opens through:

pin position  $1 = 90^{\circ}$ pin position  $2 = 120^{\circ}$ 

pin removed =  $180^{\circ}$ 

Handle opens

pin position  $1 = 70^{\circ}$ 

pin position  $2 = 80^{\circ}$ 

pin removed = 110°

>through:

pin position 1

pin position 2

10.6

EMAIL: sales@brauer.co.uk WEB: www.brauer.co.uk

#### **VERTICAL CLAMPS V350 SERIES**

Arm

position.

Flanged.

350 daN

Weight:

0.75 Kg

items.

The spindle is in a fixed

Nominal Holding Force:

Supplied complete with:

MB1080 Setscrew & nuts.

See "Accessories" for other

MODEL V350/2C

# for front mounting use bracket Model FM3



#### V450 SERIES MODEL V450/1A



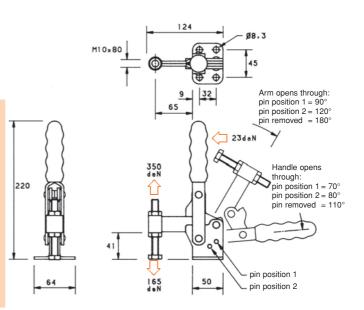
#### Solid with spindle retainer supplied loose for welding in the desired position.

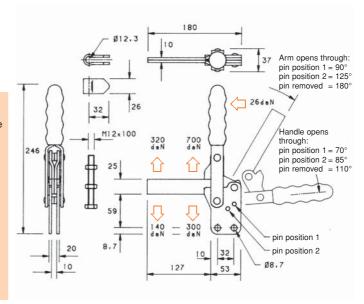
Straight.

Nominal Holding Force: 450 daN

**Neight**: 1.25 Kg

Supplied complete with: MB12100 Setscrew & nuts. R/12 Spindle retainer. See "Accessories" for other items





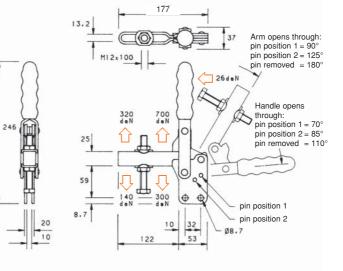


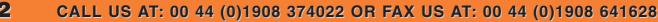
V450 SERIES

MODEL V450/1B

Arm: The spindle position is adjustable along the arm. Straight. Nominal Holding Force: 450 daN Weight 1.35 Kg

Supplied complete with: MB12100 Setscrew & nuts. FW12/23 Flanged washers. See "Accessories" for other items.





#### VERTICAL CLAMPS V450 SERIES MODEL V450/1C

Arm

position.

Straight.

450 daN

Weight:

1.30 Kg

items.

The spindle is in a fixed

**Nominal Holding Force:** 

Supplied complete with:

MB12100 Setscrew & nuts.

See "Accessories" for other



#### V450 SERIES MODEL V450/2A

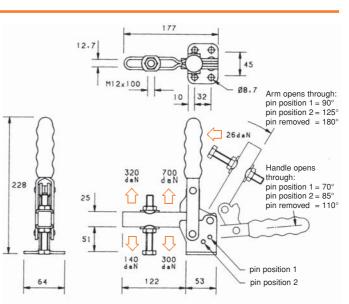


#### V450 SERIES MODEL V450/2B



#### Arm: The spindle position is adjustable along the arm. Base: Flanged. Nominal Holding Force: 450 daN Weight: 1.35 Kg Supplied complete with:

Supplied complete with: MB12100 Setscrew & nuts. FW12/23 Flanged washers. See "Accessories" for other items.



180 Ø8.7 Ø12.3 45 Ð Arm opens through: pin position  $1 = 90^{\circ}$ pin position  $2 = 125^{\circ}$ 10 32 26 32 pin removed = 180° 26daN M12×100 ┫ Handle opens 320 deN 700 d . N through: 228 pin position  $1 = 70^{\circ}$ 0 Û 습 pin position  $2 = 85^{\circ}$ pin removed  $= 110^{\circ}$ 25 Õ 0 0 51 0 Û 140 deN 300 -pin position 1 pin position 2 127 64 53

137

C

O

**+ +** 

32

53

10

6

450 d . N

Г

165 deN 37

26d .N

C

Arm opens through: pin position  $1 = 90^{\circ}$ pin position  $2 = 125^{\circ}$ pin removed  $= 180^{\circ}$ 

Handle opens through: pin position 1 = 70°

pin position  $2 = 85^{\circ}$ pin removed = 110°

~

pin position 1

pin position 2

M12x100

57

8.7

246

Ц

20

10

#### VERTICAL CLAMPS V450 SERIES

Arm

position.

Flanged.

450 daN

Weight:

1.30 Kg

items

The spindle is in a fixed

**Nominal Holding Force:** 

Supplied complete with:

MB12100 Setscrew & nuts.

See "Accessories" for other

MODEL V450/2C



#### V550 SERIES MODEL V550/1A



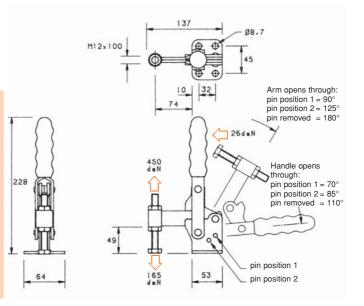
#### Arm: Solid with spindle retainer supplied loose for welding in the desired position. Base:

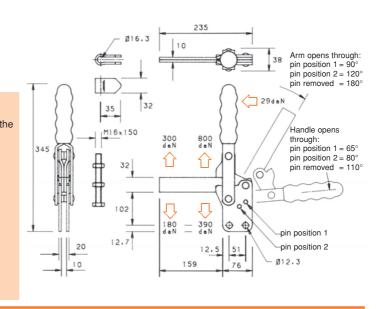
Straight.

Nominal Holding Force: 550 daN

Weight:

2.20 Kg Supplied complete with: MB16150 Setscrew & nuts. R/16 spindle retainer. See "Accessories" for other items







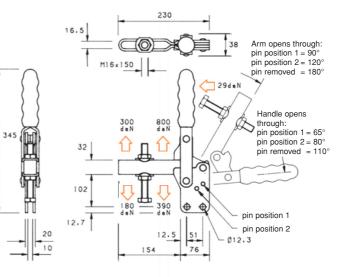
**V550 SERIES** 

MODEL V550/1B

#### Arm: The spindle is adjustable along the arm. Base: Straight. Nominal Holding Force: 550 daN

Weight: 2.40 Kg Supplied complete with: MB16150 Setscrew & nuts. FW16/27 Flanged washers. See "Accessories" for other

items.



#### VERTICAL CLAMPS V550 SERIES MODEL V550/1C

Arm



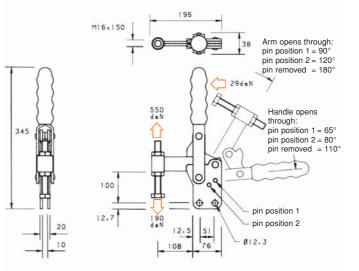
#### V550 SERIES MODEL V550/2A



#### V550 SERIES MODEL V550/2B

The spindle is in a fixed position. Base: Straight. Nominal Holding Force: 550 daN Weight: 2.30 Kg Supplied complete with:

MB16150 Setscrew & nuts. See "Accessories" for other items.



Arm: Solid with spindle retainer supplied loose for welding in the desired position. Base:

#### Flanged.

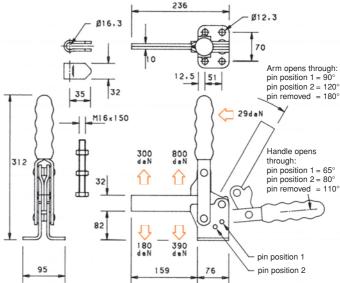
Nominal Holding Force:

#### 550 daN Weight:

2.20 Kg

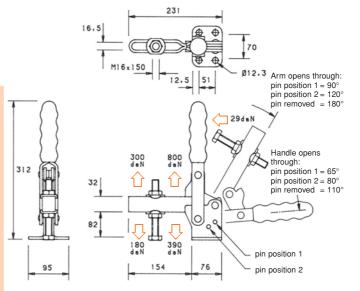
Arm

Supplied complete with: MB16150 Setscrew & nuts. R/16 Spindle retainer. See "Accessories" for other items.



The spindle is adjustable along the arm. Base: Flanged. Nominal Holding Force: 550 daN Weight: 2.40 Kg Supplied complete with:

MB16150 Setscrew & nuts. FW16/27 Flanged washer. See "Accessories" for other items.



#### VERTICAL CLAMPS V550 SERIES MODEL V550/2C

