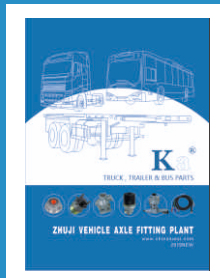




## Development History



Products Items: 1700 item  
Workshop Area: 20000m<sup>2</sup>  
Number of Ka Brand Agent: 19  
Number of Exporting Countries: 65  
Number of OEM Customers: 5  
2018



Products Items: 85 item  
Workshop Area: 5000m<sup>2</sup>  
Number of Ka Brand Agent: 8  
Number of Exporting Countries: 5  
2010



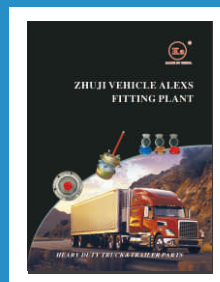
Products Items: 1 item  
Workshop Area: 200m<sup>2</sup>  
Number of Exporting Countries: 1  
**Zhuji Vehicle Axle Fitting Plant Established 2002**



Products Items: 3000 item  
Workshop Area: 25000m<sup>2</sup>  
Number of Ka Brand Agent: 25  
Number of Exporting Countries: 70  
Number of OEM Customers: 7  
**Zhejiang Ka Auto Parts Manufacturing Co.,Ltd Established 2022**



Products Items: 350 item  
Workshop Area: 9000m<sup>2</sup>  
Number of Ka Brand Agent: 12  
Number of Exporting Countries: 35  
Number of OEM Customers: 2  
**Zhuji Ka Import & Export Co.,Ltd Established 2013**



Products Items: 12 item  
Workshop Area: 800m<sup>2</sup>  
Number of Ka Brand Agent: 2  
Number of Exporting Countries: 5  
2005

**ZHEJIANG KA AUTO PARTS MANUFACTURING CO.,LTD**  
**Export Company:**

**ZHUJI KA IMPORT AND EXPORT CO.,LTD**

ADD: Xinye Road 115# Fengqiao Zhuji, Zhejiang, China

TEL: 0086-575-87438196 FAX: 0086-575-87439572

Web: [www.chinakaiai.com](http://www.chinakaiai.com)

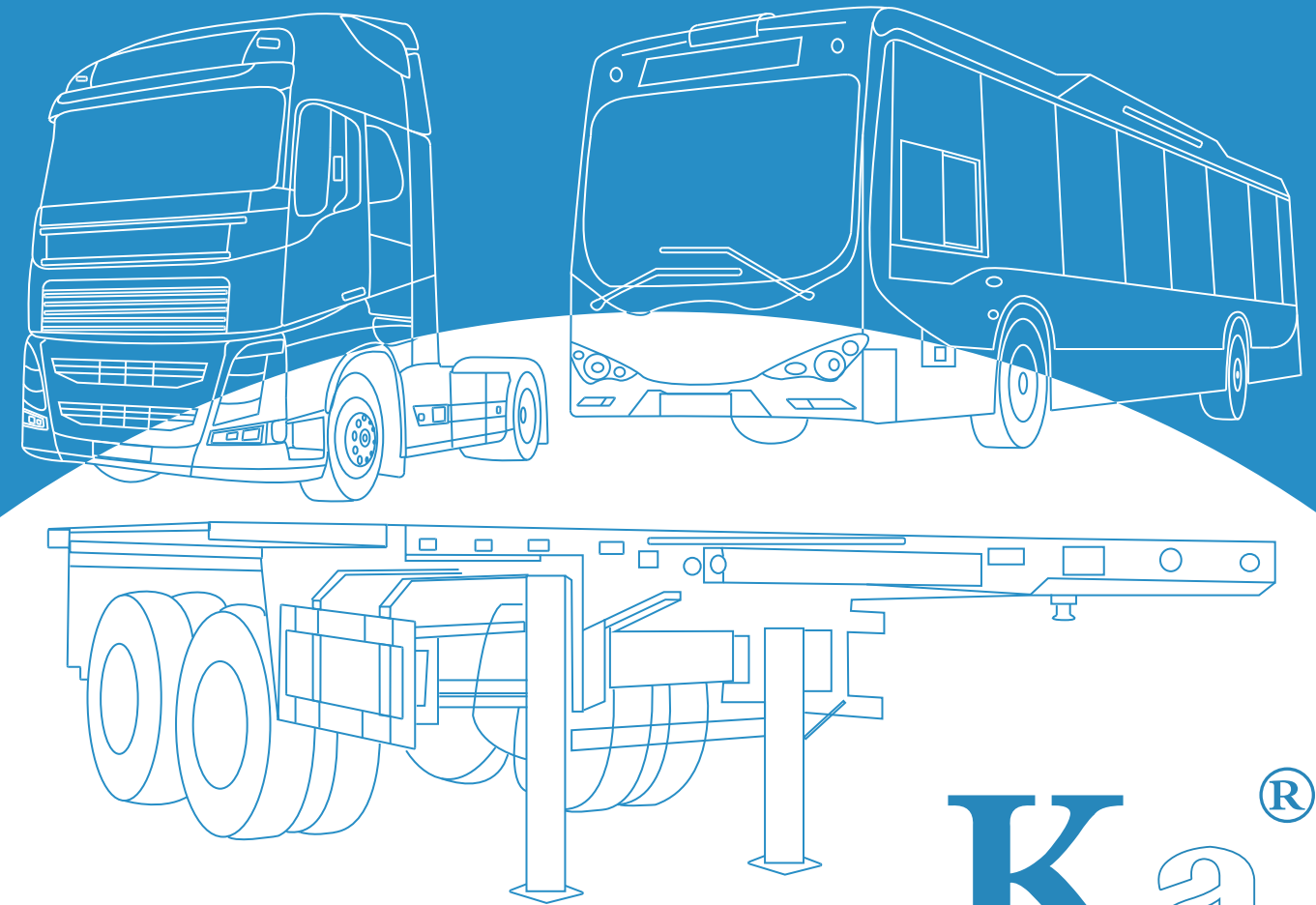
E-mail: [zhujikaiai@126.com](mailto:zhujikaiai@126.com)

Sale Manger.: Romeo Sun

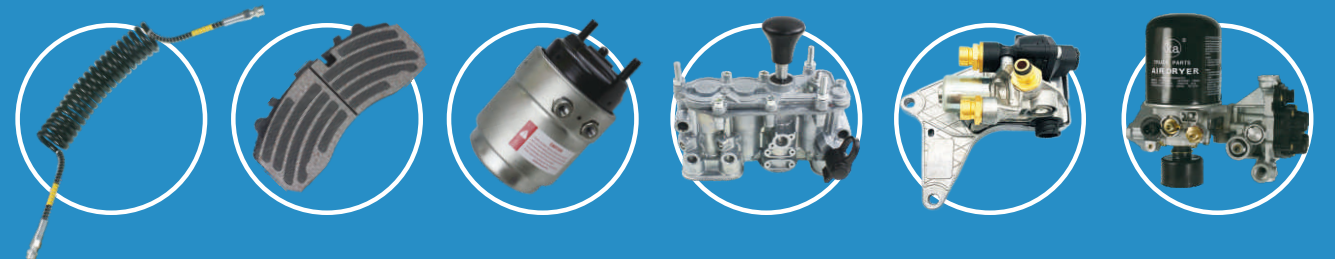
Mob: 0086-13588555400 (WhatsApp/Wechat)



IATF 16949:2016 Certified



**Commercial Vehicle Parts Supplier**



**ZHEJIANG KA AUTO PARTS MANUFACTURING CO.,LTD**

[www.chinakaiai.com](http://www.chinakaiai.com)

2025



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## PRODUCT INDEX

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|----|--|------------------------|----------|
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| 17 |  | ABS MODULATOR VALVE    | P90-91   |
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| 23 |  | REPAIR KITS            | P110-111 |

|    |                                              |          |
|----|----------------------------------------------|----------|
| 24 | <b>AIR BRAKE CONNECTION SYSTEMS DIVISION</b> | P112-130 |
|    |                                              |          |

|    |                                                                                                  |          |
|----|--------------------------------------------------------------------------------------------------|----------|
| 25 | <b>Ka</b> <sup>®</sup>   ZHUJI KA IMPORT AND EXPORT CO.,LTD<br>Commercial Vehicle Parts Supplier | P131-164 |
|    |                                                                                                  |          |

# Ka<sup>®</sup>

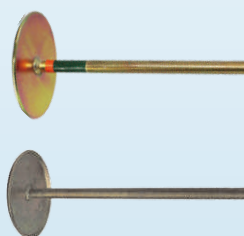
## SPRING BRAKE CHAMBERS

### WHY OUR BRKAE CHAMBER

OTHERS

### ARE BETTER?

#### PUSH ROD



Ka: 6mm flat plate  
Ka: safety warning signs  
Ka material: carbon steel 35#

others: 4mm fold plate  
others: no safety warning signs  
others material: steel A3

#### NPH



Ka: Concave  
Ka: bolt material carbon 45#  
Ka: SPHC 3mm steel plate

others: Flat  
others: bolt material carbon 35#  
others: SPHC 2.75mm steel plate

#### CLAMP



Ka: environmentally friendly electroplating  
Ka: U-shaped

others: normal ordinary electroplating  
others: V-shaped

#### ALUMINUM BODY



Ka: material 360  
Ka: circle of guidance  
Ka: return spring E-coat 1000000 times fatigue tests

others: material ADC12  
others: No circle of guidance  
others: No surface treatment, 200,000 times fatigue tests

#### DIAPHRAGM



Ka: 1,200,000 times fatigue test  
Ka: ka design  
Ka: working temperature -45 to 100 °C

others: 500,000 times fatigue test  
others: universal  
others: working temperature -25 to 100 °C

#### PACKING SPRING



Ka: material 55SiCrA  
Ka: 200000 times fatigue tests  
Ka: OD: 13.5mm Max Force 10,000N

other: material 60Si2Mn  
others: 70000 times fatigue tests  
others: OD: 12.5mm Max Force 7,000N

#### PACKING SPRING PLATE



Ka: the centre hole is not offest

Ka: material aluminum  
Ka: Restriction

#### PACKING SPRING PLATE



others: the centre hole is offest

others: material steel  
others: No Restriction

# Ka<sup>®</sup>

## SPRING BRAKE CHAMBERS

### WHY OUR BRKAE CHAMBER

OTHERS

### ARE BETTER?

#### PUSH ROD



Ka: 6mm plate  
Ka material: carbon steel 35#

others: 4mm plate  
others material: steel A3

#### NPH



Ka: bolt material carbon 45#  
Ka: SPHC 3mm steel plate

others: bolt material carbon 35#  
others: SPHC 2.75mm steel plate

#### CLAMP



Ka: single bolt clamp  
Ka material: 3mm

others: double bolt clamp  
others material: 2.8mm

#### ALUMINUM BODY



Ka: material 360  
Ka: thread made by CNC machine  
Ka: circle of guidance

others: material ADC12  
others: thread made by hand  
others: No circle of guidance

#### DIAPHRAGM



Ka: 1,200,000 times fatigue test  
Ka: ka design  
Ka: working temperature -45 to 100 °C

others: 500,000 times fatigue test  
others: universal  
others: working temperature -25 to 100 °C

#### PACKING SPRING



Ka: material 55SiCrA  
Ka: 200000 times fatigue tests  
Ka: OD: 14mm max force 12000N

other: material 60Si2Mn  
others: 70000 times fatigue tests  
others: OD: 12mm max force 7000N

#### PISTON



Ka: electroplating

others: no electroplating

#### STEEL DRUM



KA: suitable for strong spring  
KA: longer

others: suitable for small spring  
others: short

Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Bolt Thread:          | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Bolt Thread:          | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Release Bolt :        | Built In        |
| ■ Bolt Thread:          | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Bolt Thread:          | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
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Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
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Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
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| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Bolt Thread:          | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
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| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Bolt Thread:          | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Bolt Thread:          | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Bolt Thread:          | M16x1.5         |
| ■ Push Rod Thread :     | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Bolt Thread:          | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Bolt Thread:          | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Bolt Thread:          | M16x1.5         |
| ■ Push Rod Thread :     | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 8.0/8.0 bar     |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |



Spring Brake Chamber

|                         |                         |
|-------------------------|-------------------------|
| ■ Temperature:          | −40 ... +80 °C          |
| ■ Working Pressure:     | 10.2/8.5 bar            |
| ■ Packing Chamber Type: | Piston                  |
| ■ IBV:                  | Without Breathing Valve |
| ■ Bolt Center:          | 120.7mm                 |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Bolt Thread:          | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 8.0/8.0 bar     |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Bolt Thread:          | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Bolt Thread:          | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |
| ■ Bolt Thread:          | M16x1.5         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 8.0/8.0 bar     |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |



Spring Brake Chamber

|                         |                |
|-------------------------|----------------|
| ■ Temperature:          | −40 ... +80 °C |
| ■ Working Pressure:     | 10.2/8.5 bar   |
| ■ Packing Chamber Type: | Seal           |
| ■ Bolt Center:          | 120.7mm        |
| ■ Bolt Thread:          | M16*1.5        |
| ■ Push Rod Thread:      | M16*1.5        |



Spring Brake Chamber

|                         |                |
|-------------------------|----------------|
| ■ Temperature:          | −40 ... +80 °C |
| ■ Working Pressure:     | 10.2/8.5 bar   |
| ■ Packing Chamber Type: | Clamp          |
| ■ Bolt Center:          | 120.7mm        |



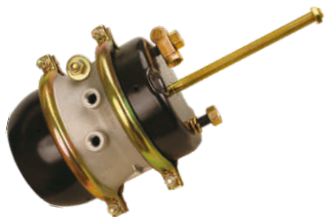
Spring Brake Chamber

|                         |                |
|-------------------------|----------------|
| ■ Temperature:          | −40 ... +80 °C |
| ■ Working Pressure:     | 10.2/8.5 bar   |
| ■ Packing Chamber Type: | Seal           |
| ■ Bolt Center:          | 120.7mm        |
| ■ Bolt Thread:          | M16*1.5        |
| ■ Push Rod Thread:      | M16*1.5        |



Spring Brake Chamber

|                         |                |
|-------------------------|----------------|
| ■ Temperature:          | −40 ... +80 °C |
| ■ Working Pressure:     | 10.2/8.5 bar   |
| ■ Packing Chamber Type: | Clamp          |
| ■ Bolt Center:          | 120.7mm        |



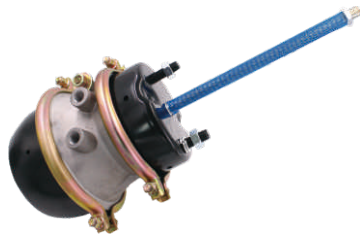
Spring Brake Chamber

|                         |                |
|-------------------------|----------------|
| ■ Temperature:          | −40 ... +80 °C |
| ■ Working Pressure:     | 10.2/8.5 bar   |
| ■ Packing Chamber Type: | Seal           |
| ■ Bolt Center:          | 120.7mm        |



Spring Brake Chamber

|                         |                |
|-------------------------|----------------|
| ■ Temperature:          | −40 ... +80 °C |
| ■ Working Pressure:     | 10.2/8.5 bar   |
| ■ Packing Chamber Type: | Clamp          |
| ■ Bolt Center:          | 120.7mm        |



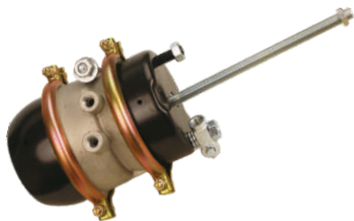
Spring Brake Chamber

|                         |                |
|-------------------------|----------------|
| ■ Temperature:          | −40 ... +80 °C |
| ■ Working Pressure:     | 10.2/8.5 bar   |
| ■ Packing Chamber Type: | Clamp          |
| ■ Bolt Center:          | 100.0mm        |



Spring Brake Chamber

|                         |                |
|-------------------------|----------------|
| ■ Temperature:          | −40 ... +80 °C |
| ■ Working Pressure:     | 10.2/8.5 bar   |
| ■ Packing Chamber Type: | Clamp          |
| ■ Bolt Center:          | 120.7mm        |



Spring Brake Chamber

|                         |                |
|-------------------------|----------------|
| ■ Temperature:          | −40 ... +80 °C |
| ■ Working Pressure:     | 10.2/8.5 bar   |
| ■ Packing Chamber Type: | Clamp          |
| ■ Bolt Center:          | 120.7mm        |



Spring Brake Chamber

|                         |                |
|-------------------------|----------------|
| ■ Temperature:          | −40 ... +80 °C |
| ■ Working Pressure:     | 10.2/8.5 bar   |
| ■ Packing Chamber Type: | Clamp          |
| ■ Bolt Center:          | 120.7mm        |



Spring Brake Chamber

|                         |                |
|-------------------------|----------------|
| ■ Temperature:          | −40 ... +80 °C |
| ■ Working Pressure:     | 10.2/8.5 bar   |
| ■ Packing Chamber Type: | Seal           |
| ■ Bolt Center:          | 120.7mm        |
| ■ Bolt Thread:          | M16*1.5        |



Spring Brake Chamber

|                         |                |
|-------------------------|----------------|
| ■ Temperature:          | −40 ... +80 °C |
| ■ Working Pressure:     | 10.2/8.5 bar   |
| ■ Packing Chamber Type: | Seal           |
| ■ Bolt Center:          | 120.7mm        |
| ■ Bolt Thread:          | M16*1.5        |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |
| ■ Bolt Center:          | 120.7mm         |



Spring Brake Chamber

|                         |                |
|-------------------------|----------------|
| ■ Temperature:          | −40 ... +80 °C |
| ■ Working Pressure:     | 10.2/8.5 bar   |
| ■ Packing Chamber Type: | Seal           |
| ■ Bolt Center:          | 120.7mm        |
| ■ Bolt Thread:          | M16*1.5        |



Spring Brake Chamber

|                         |                         |
|-------------------------|-------------------------|
| ■ Temperature:          | −40 ... +80 °C          |
| ■ Working Pressure:     | 10.2/8.5 bar            |
| ■ Packing Chamber Type: | Piston                  |
| ■ IBV:                  | Without Breathing Valve |
| ■ Bolt Center:          | 120.7mm                 |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 10.2/8.5 bar    |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |



Spring Brake Chamber

|                         |                |
|-------------------------|----------------|
| ■ Temperature:          | −40 ... +80 °C |
| ■ Working Pressure:     | 10.2/8.5 bar   |
| ■ Packing Chamber Type: | Piston         |



Spring Brake Chamber

|                         |                 |
|-------------------------|-----------------|
| ■ Temperature:          | −40 ... +80 °C  |
| ■ Working Pressure:     | 8.0/8.0 bar     |
| ■ Packing Chamber Type: | Piston          |
| ■ IBV:                  | Breathing Valve |



Brake Chamber

|                     |                |
|---------------------|----------------|
| ■ Temperature:      | −40 ... +80 °C |
| ■ Working Pressure: | 8.5 bar        |



Brake Chamber

|                     |                |
|---------------------|----------------|
| ■ Temperature:      | −40 ... +80 °C |
| ■ Working Pressure: | 8.5 bar        |
| ■ Bolt Center:      | 120.7mm        |



Brake Chamber

|                     |                |
|---------------------|----------------|
| ■ Temperature:      | −40 ... +80 °C |
| ■ Working Pressure: | 8.5 bar        |
| ■ Bolt Center:      | 120.7mm        |



Brake Chamber

|                     |                |
|---------------------|----------------|
| ■ Temperature:      | −40 ... +80 °C |
| ■ Working Pressure: | 8.5 bar        |
| ■ Bolt Center:      | 120.7mm        |



Brake Chamber

|                     |                |
|---------------------|----------------|
| ■ Temperature:      | −40 ... +80 °C |
| ■ Working Pressure: | 8.5 bar        |
| ■ Bolt Center:      | 120.7mm        |



Brake Chamber

|                     |                |
|---------------------|----------------|
| ■ Temperature:      | −40 ... +80 °C |
| ■ Working Pressure: | 8.5 bar        |
| ■ Bolt Center:      | 120.7mm        |



Brake Chamber

|                     |                |
|---------------------|----------------|
| ■ Temperature:      | −40 ... +80 °C |
| ■ Working Pressure: | 8.5 bar        |
| ■ Bolt Center:      | 120.7mm        |



Brake Chamber

|                     |                |
|---------------------|----------------|
| ■ Temperature:      | −40 ... +80 °C |
| ■ Working Pressure: | 8.0 bar        |
| ■ Bolt Center:      | 120.7mm        |



Brake Chamber

|                     |                |
|---------------------|----------------|
| ■ Temperature:      | −40 ... +80 °C |
| ■ Working Pressure: | 8.5 bar        |
| ■ Bolt Center:      | 120.7mm        |



Brake Chamber

|                     |                |
|---------------------|----------------|
| ■ Temperature:      | −40 ... +80 °C |
| ■ Working Pressure: | 8.0/8.0 bar    |



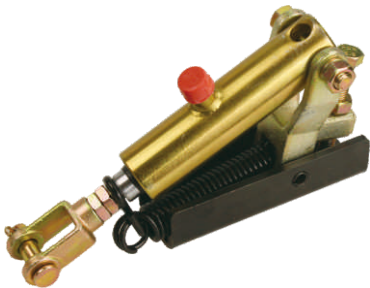
Air & Hydraulic Brake Chamber

|                     |                |
|---------------------|----------------|
| ■ Temperature:      | −40 ... +80 °C |
| ■ Working Pressure: | 10.2/8.5 bar   |

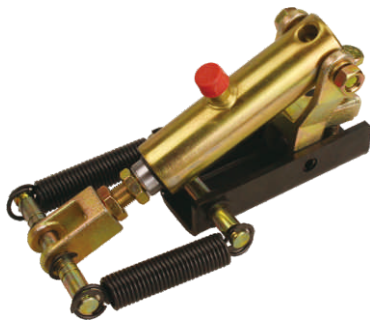


| KA NO.:     | Type  | AIR | HYD  | Bolt Center | AIR Stroke (mm) | Port    |         |
|-------------|-------|-----|------|-------------|-----------------|---------|---------|
|             |       |     |      |             |                 | Side    | Top     |
| KA3519JA-EE | 20-25 | T20 | 25mm | 120.7mm     | 75              | M16x1.5 | M16x1.5 |
| KA3519JA-EF | 20-30 | T20 | 30mm | 120.7mm     | 75              | M16x1.5 | M16x1.5 |
| KA3519AA-EE | 24-25 | T24 | 25mm | 120.7mm     | 75              | M16x1.5 | M16x1.5 |
| KA3519AA-EF | 24-30 | T24 | 30mm | 120.7mm     | 75              | M16x1.5 | M16x1.5 |
| KA3519DA-EF | 30-30 | T30 | 30mm | 120.7mm     | 75              | M16x1.5 | M16x1.5 |
| KA3519TA-EH | 30-35 | T30 | 35mm | 120.7mm     | 75              | M16x1.5 | M16x1.5 |
| KA3519YA-EE | 16-25 | T16 | 25mm | 120.7mm     | 75              | M16x1.5 | M16x1.5 |
| KA3519YA-ED | 16-20 | T16 | 20mm | 70.6mm      | 75              | M16x1.5 | M16x1.5 |
| KA3519EA-EE | 12-25 | T20 | 25mm | 70.6mm      | 75              | M16x1.5 | M16x1.5 |

Hydraulic Brake Chamber



| KA NO.:   | DIA  | HYD   | STOKE |
|-----------|------|-------|-------|
| KA3519-20 | 20mm | G-3/8 | 75mm  |
| KA3519-25 | 25mm | G-3/8 | 75mm  |



| KA NO.:     | DIA  | HYD   | STOKE |
|-------------|------|-------|-------|
| KA3519-25BB | 25mm | G-3/8 | 75mm  |