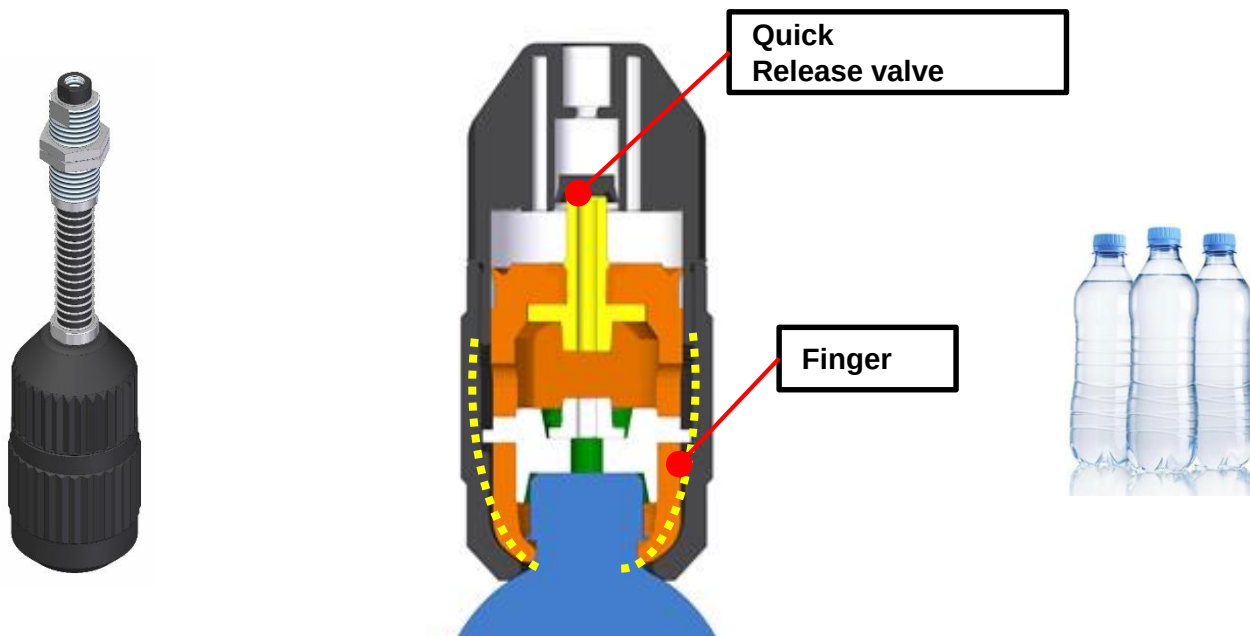




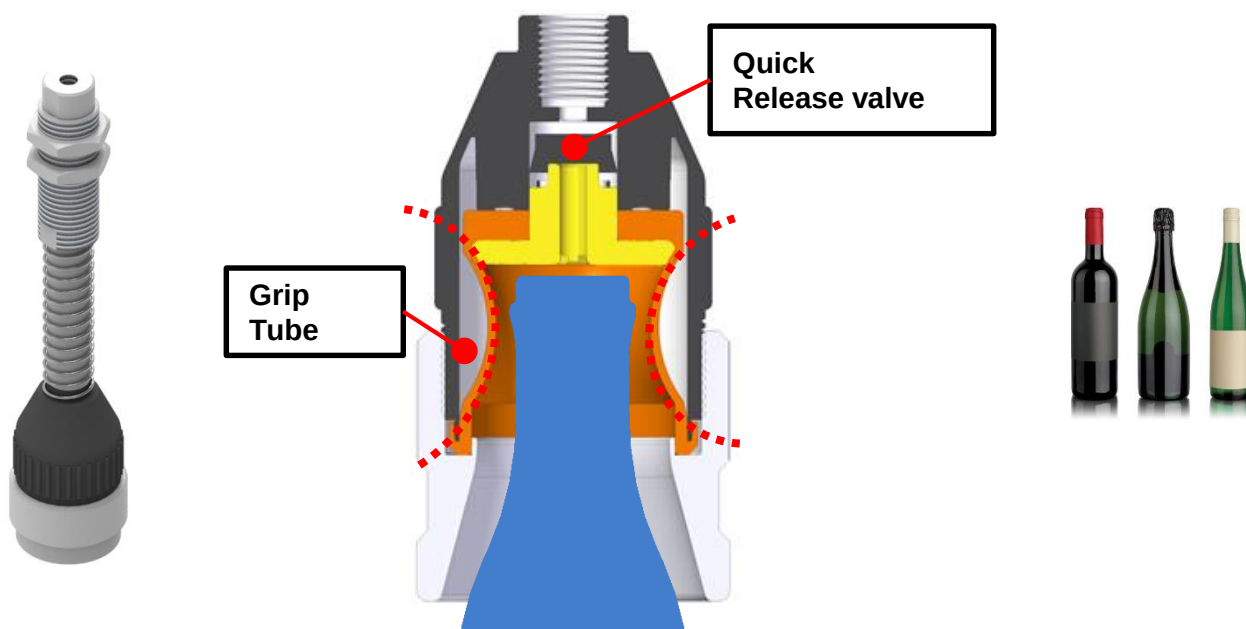
# **BOT-GRIPPER**

## **Bottle Handling Solution**

## ■ BOT-Gripper - BF- Series



## ■ BOT-Gripper - BO-Series



## ■ BOT-Gripper - BF

### Features and Strengths

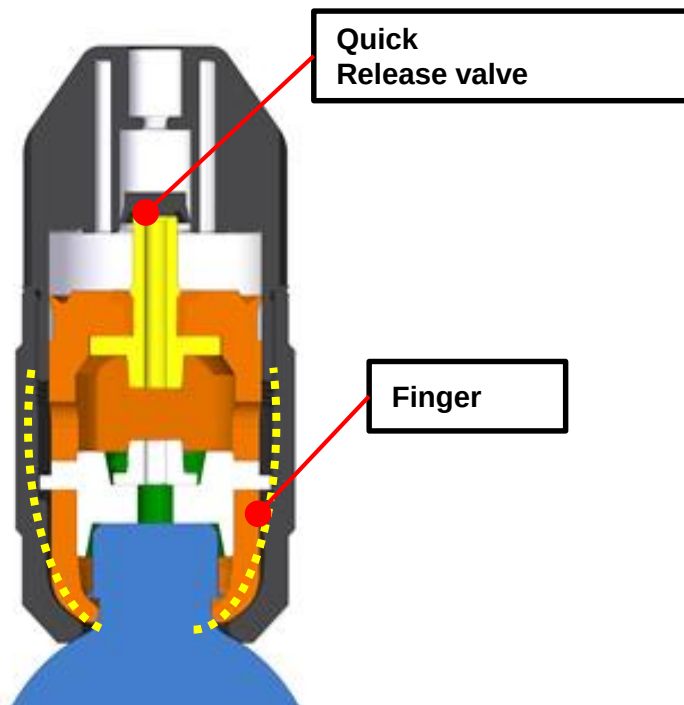
- Finger-style gripping
- Quick-release function
- Longer lifespan
- No wear or tear from crown caps

### Applications

- PET Bottle
- Bottle with crown cap

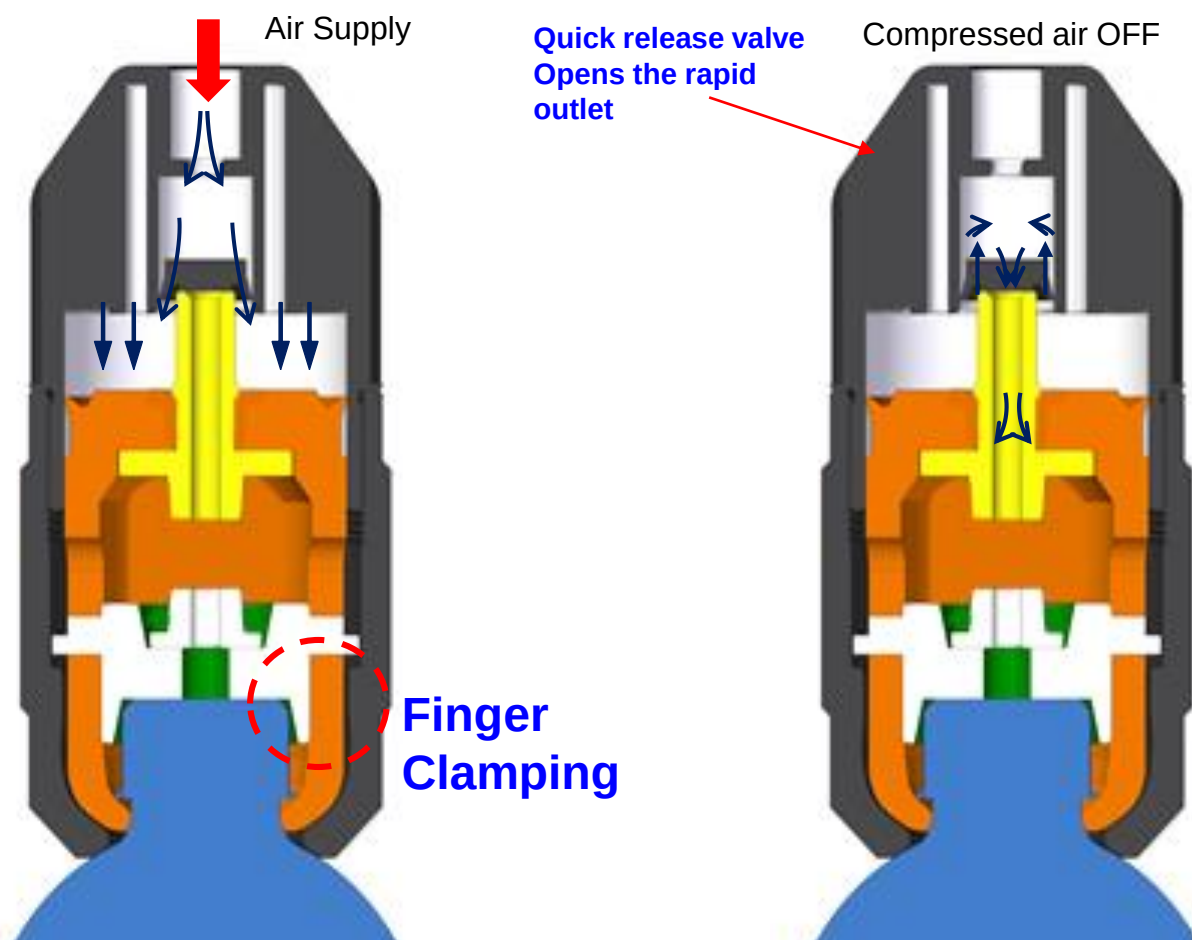


### Structure

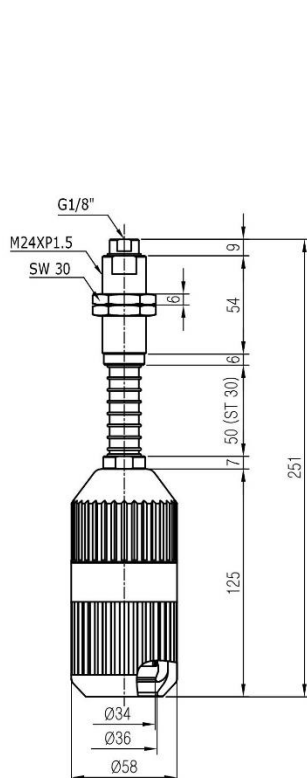


## Principle of Operation

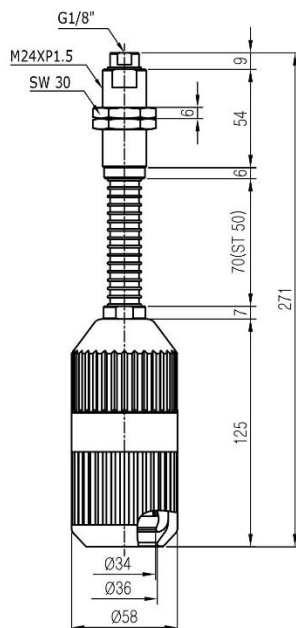
Once compressed air is supplied to the BF Gripper, quick release valve is pushed down by air pressure. Then the quick release valve close (block) the rapid outlet. With this down pressure, inner finger clamp holds the head part of the PET bottles tightly.



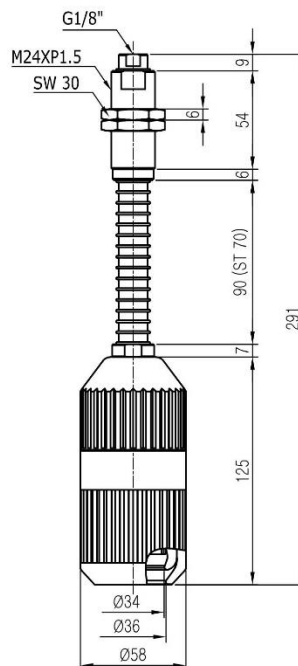
## Dimensions & Specification



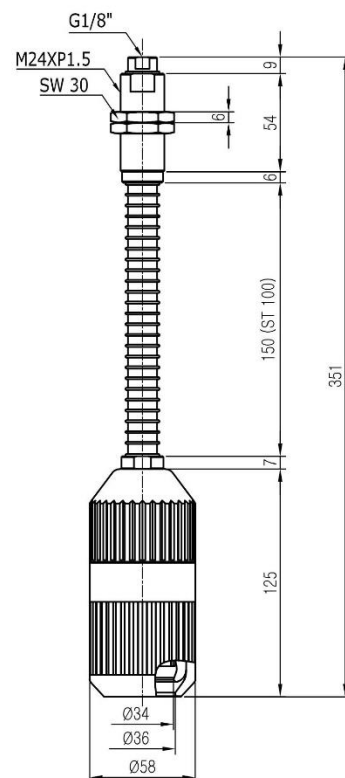
**BF30X-L30**



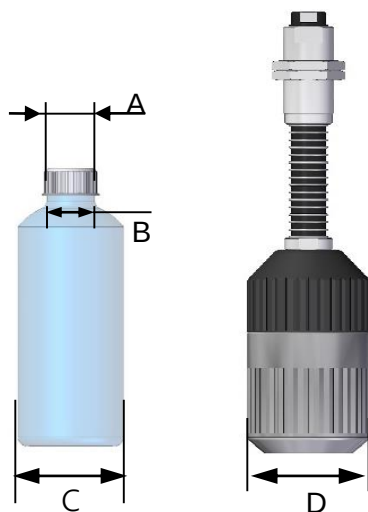
**BF30X-L50**



**BF30X-L70**

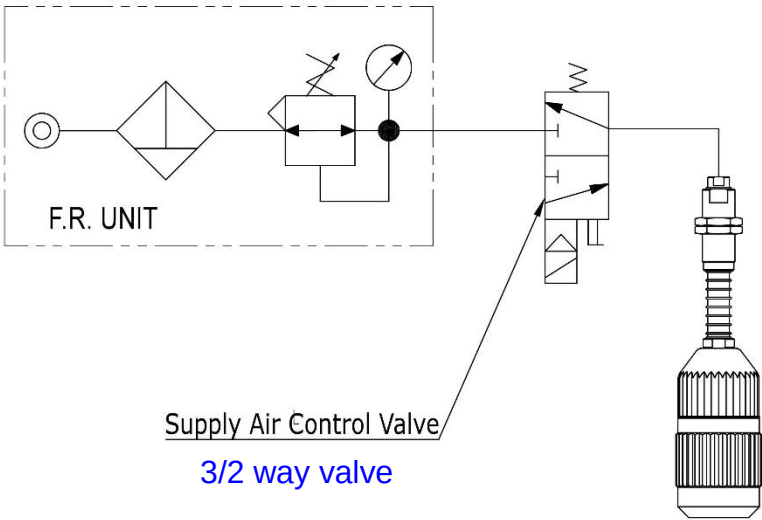


**BF30X-L100**



| BF30X                               |                                       |
|-------------------------------------|---------------------------------------|
| Lifting Force                       | Max. 15 kg                            |
| (A) Compatible cap diameter         | Min. Ø29 ~Max. Ø33                    |
| (B) Compatible neck diameter        | Min. Ø23 ~Max. Ø32                    |
| (C) Compatible bottle body diameter | Min. Ø58                              |
| (D) BOT-Gripper                     | Ø58                                   |
| Operating pressure                  | Min. 2 bar<br>~ Max. 4 bar (clamping) |
| Operating temperature               | 0~ + 60 °C                            |

Circuit



Build an Ordering No.

**BF30X** - **L50**

1. Head Size      2. Level Spring Option

| ① Head size |                              |
|-------------|------------------------------|
| Symbol      | Description                  |
| BF30X       | BOT-Gripper, 30 Finger style |

| ② Level spring option |                                   |
|-----------------------|-----------------------------------|
| Symbol                | Description                       |
| L30                   | Level spring option, stroke 30mm  |
| L50                   | Level spring option, stroke 50mm  |
| L70                   | Level spring option, stroke 70mm  |
| L100                  | Level spring option, stroke 100mm |

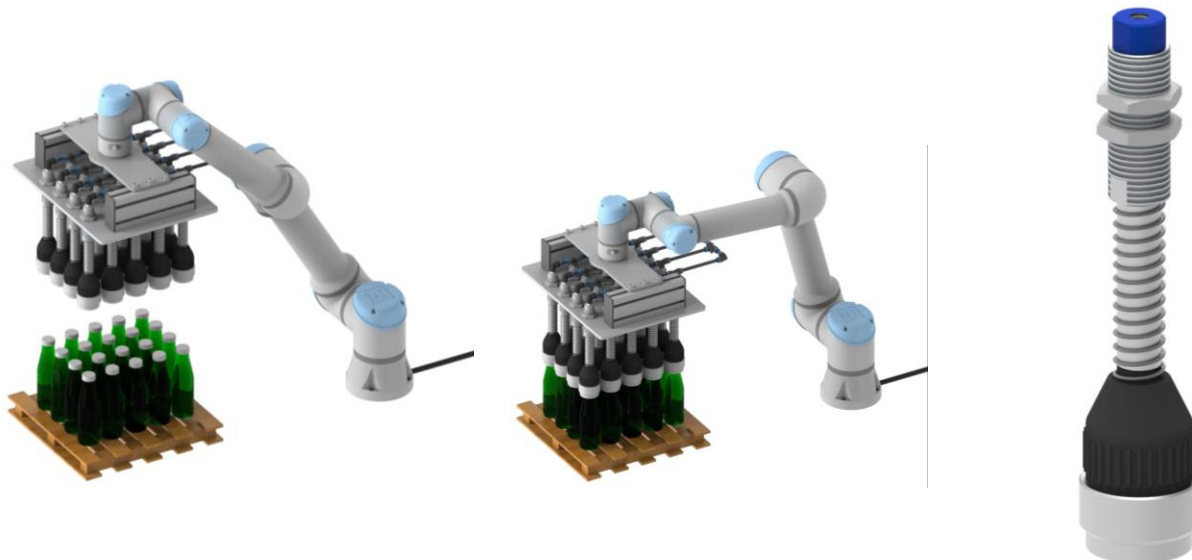




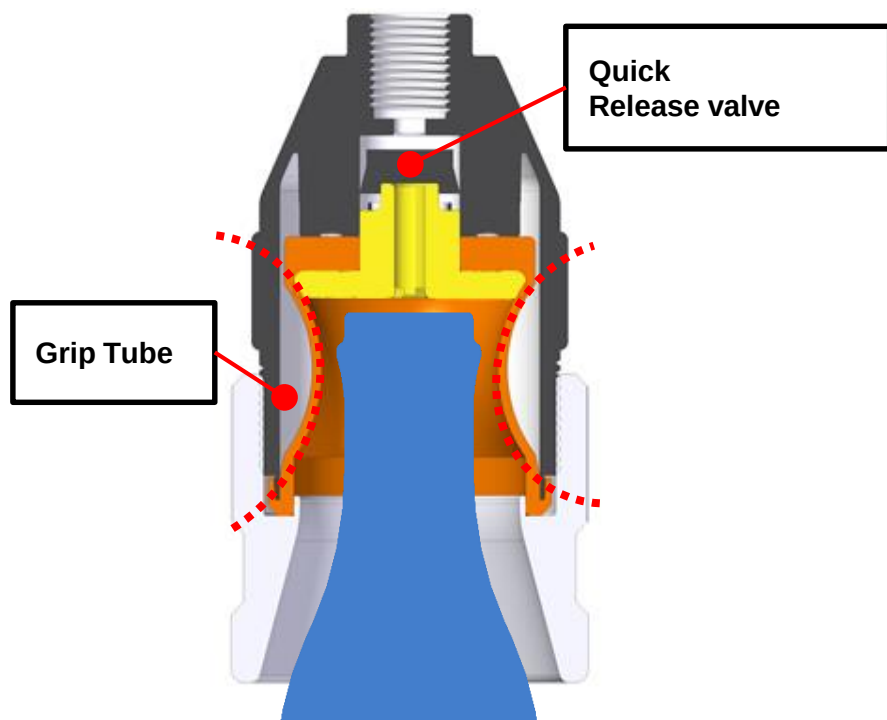
# ■ BOT-Gripper - BO30/ BO40/ BO45

## Features and Strengths

- Pick up and transfer glass bottles or PET bottles.

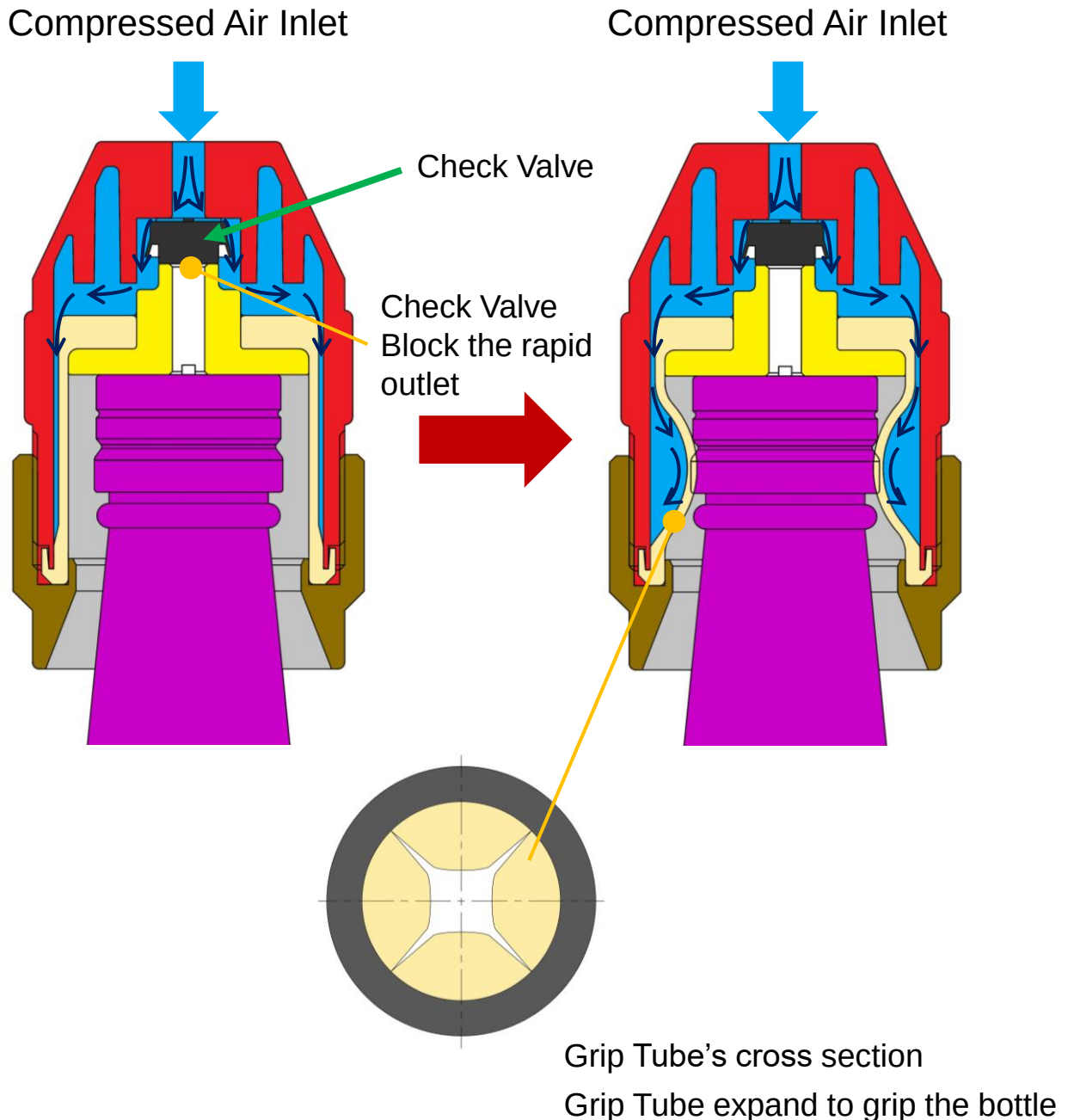


## Structure



## Principle of Operation

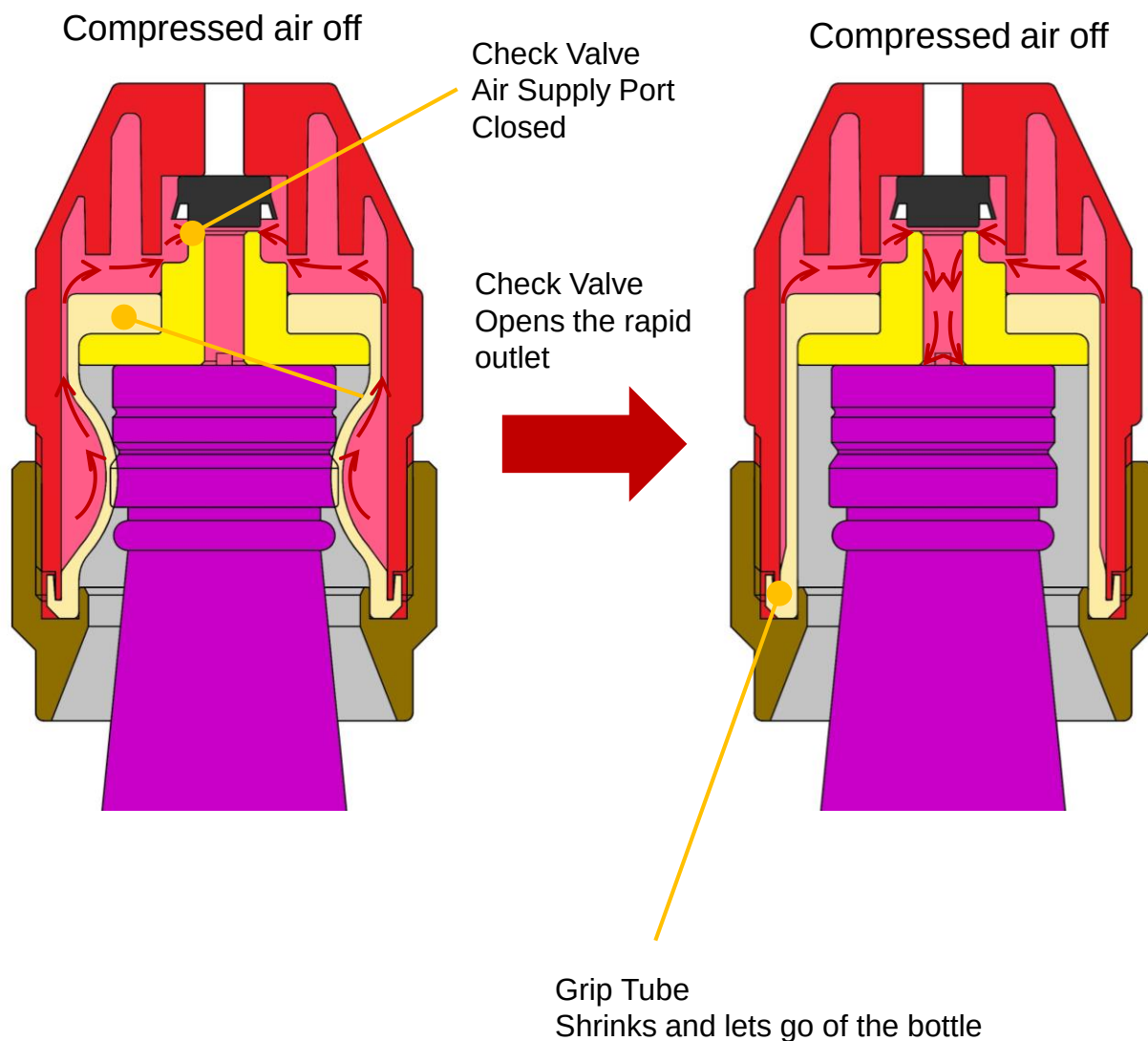
Once compressed air is supplied to pick-up head, check valve is pushed down by the compressed air and close (block) the rapid outlet, while the compressed air is supplied to the Grip Tube to inflate the Grip Tube and clamp the product.



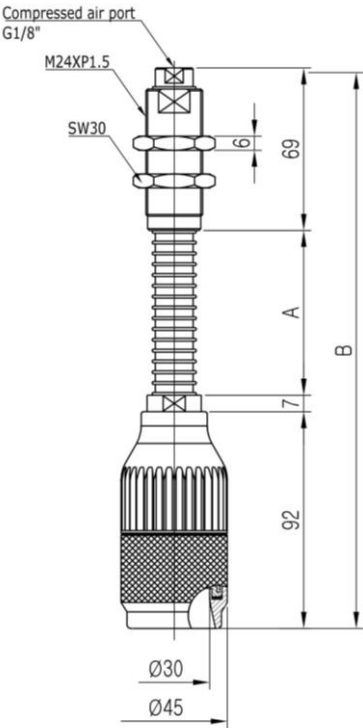


## Principle of Operation

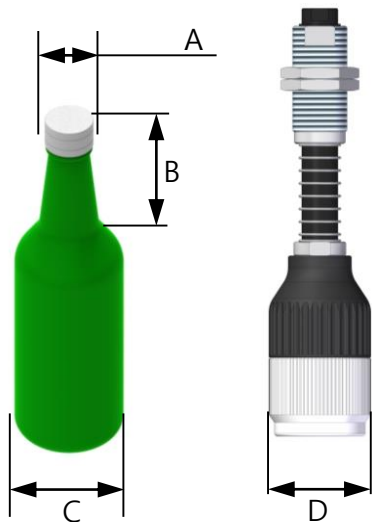
Once compressed air is stopped, check valve closes the air-inlet. The rapid outlet will be opened, and supplied air is vented out – and releases the product (bottle).



Dimensions & Specification

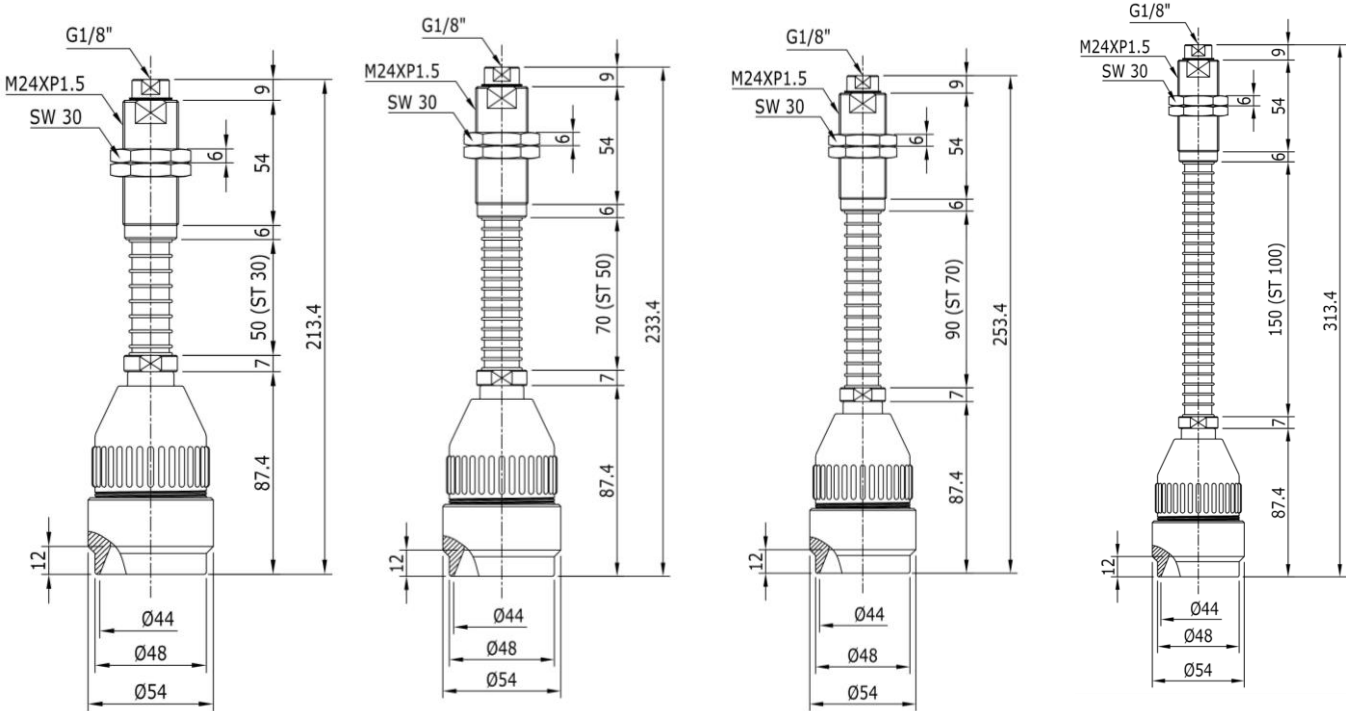


| BO30      |             |     |
|-----------|-------------|-----|
| Model     | A           | B   |
| BO45-L30  | 50 (ST30)   | 218 |
| BO45-L50  | 70 (ST50)   | 238 |
| BO45-L70  | 90 (ST70)   | 258 |
| BO45-L100 | 150 (ST100) | 318 |

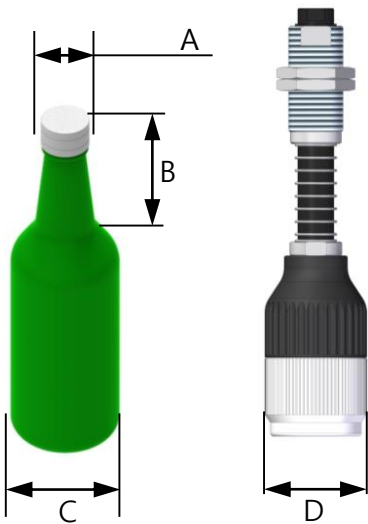


| BO30                                |                                  |
|-------------------------------------|----------------------------------|
| Lifting Force                       | Max. 10 kg                       |
| (A) Compatible cap diameter         | Min. Ø19.5 ~ Max. Ø30            |
| (B) Compatible neck diameter        | Min. 29 mm                       |
| (C) Compatible bottle body diameter | Min. Ø48                         |
| (D) BOT-Gripper                     | Ø45                              |
| Operating pressure                  | (min) 1.5 bar<br>~ (max) 3.5 bar |

Dimensions & Specification

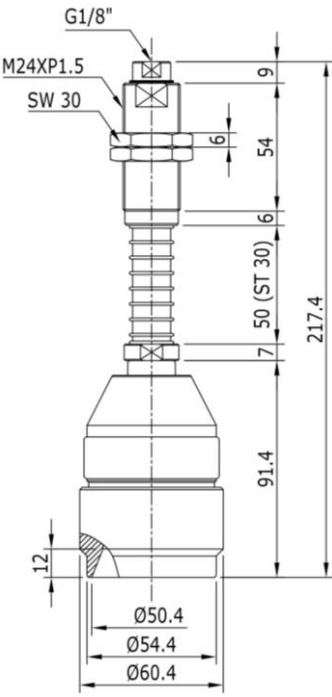


BO40-( )-L30                      BO40-( )-L50                      BO40-( )-L70                      BO40-( )-L100

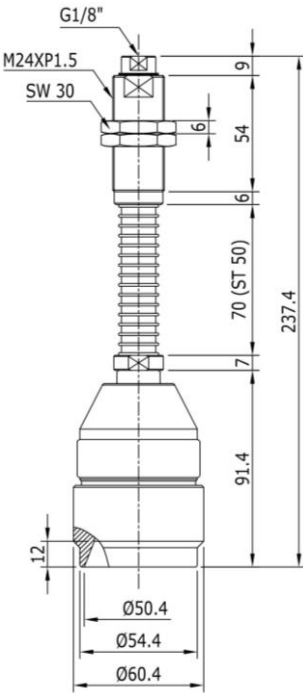


| BO40                                |                                  |
|-------------------------------------|----------------------------------|
| Lifting Force                       | Max. 15 kg                       |
| (A) Compatible cap diameter         | Min. Ø18 ~ Max. Ø32              |
| (B) Compatible neck diameter        | Min. 30 mm                       |
| (C) Compatible bottle body diameter | Min. Ø54                         |
| (D) BOT-Gripper                     | Ø54                              |
| Operating pressure                  | (min) 1.5 bar<br>~ (max) 3.5 bar |

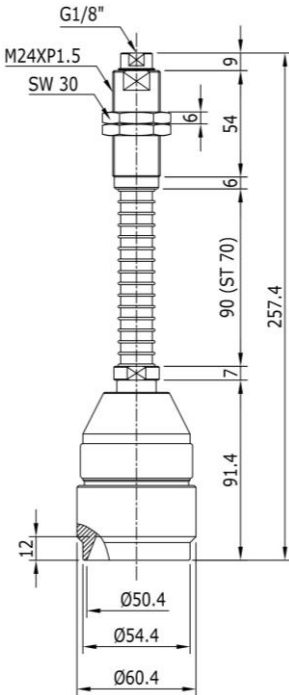
Dimensions & Specification



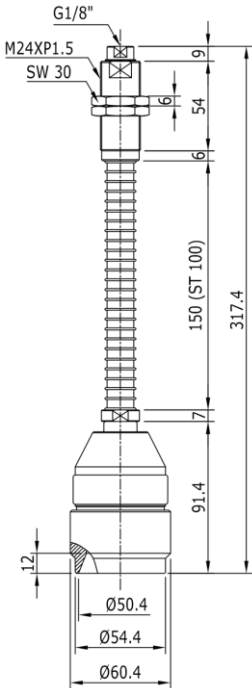
BO45-( )-L30



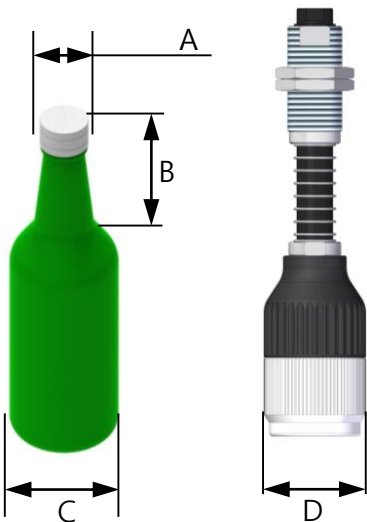
BO45-( )-L50



BO45-( )-L70

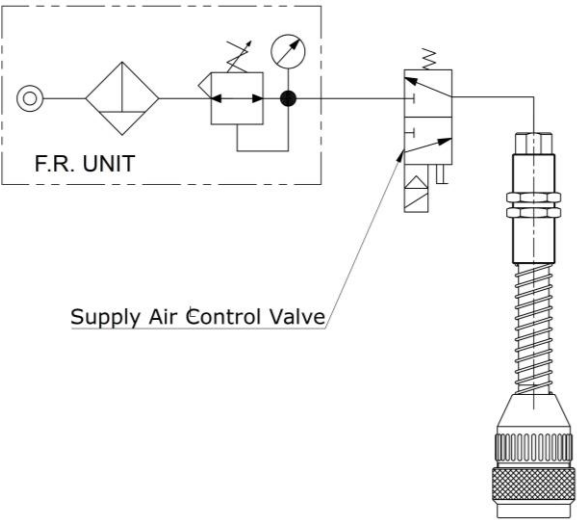


BO45-( )-L100

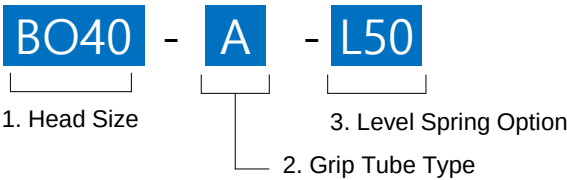


| BO45                          |                                  |
|-------------------------------|----------------------------------|
| Lifting Force                 | Max. 15 kg                       |
| (A) Available diameter        | Min. Ø32 ~ Max. Ø45              |
| (B) Height of bottle (neck)   | Min. 34 mm                       |
| (C) Available Bottle diameter | Min. Ø62                         |
| (D) Bot Gripper               | Ø60.4                            |
| Operating pressure            | (min) 1.5 bar<br>~ (max) 3.5 bar |

Circuit



Build an Ordering No.



| ① Head size |                                             |
|-------------|---------------------------------------------|
| Symbol      | Description                                 |
| BO30        | Head part, Bot-gripper, Min. Ø19 ~ Max. Ø30 |
| BO40        | Head part, Bot-gripper, Min. Ø18 ~ Max. Ø32 |
| BO45        | Head part, Bot-gripper, Min. Ø32 ~ Max. Ø45 |

| ① Grip Tube Type |                     |
|------------------|---------------------|
| Symbol           | Description         |
| A                | Standard Type       |
| B                | Anti-slip Bump Type |

| ② Level spring option |                                   |
|-----------------------|-----------------------------------|
| Symbol                | Description                       |
| L30                   | Level spring option, stroke 30mm  |
| L50                   | Level spring option, stroke 50mm  |
| L70                   | Level spring option, stroke 70mm  |
| L100                  | Level spring option, stroke 100mm |