

**3/2 Poppet Valves  
Manually Operated  
G<sup>1</sup>/<sub>8</sub>**

- Long established and well-proven valves
- Compact size
- Panel mounting models available
- Normally closed and normally open models
- May also be used as 2/2 valves

**Technical Data**

Medium:

Compressed air, filtered, lubricated and non-lubricated or hydraulic fluid

Operation:

Poppet valves, directly actuated

Mounting:

Through-holes in valve body

Port Size:

G<sup>1</sup>/<sub>8</sub>

Operating Pressure:

2 - 10 bar

Flow (to CETOP RP50P):

'C' - Conductance dm<sup>3</sup>/s/bar 0,66 S/666/40

'b' - Critical pressure ratio 0,29 S/666/40

Cv 0,20 S/666/40

'C' - Conductance dm<sup>3</sup>/s/bar 0,66 S/667/40

'b' - Critical pressure ratio 0,15 S/667/40

Cv 0,18 S/667/40

Operating Temperature:

-20°C\* to +80°C

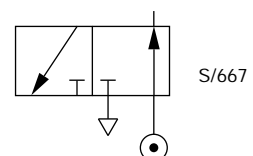
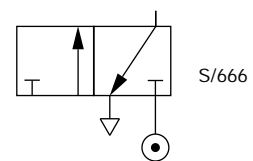
\*Consult our Technical Service for use below +2°C


**Alternative Models**

Other operator types for the S/666 and S/667 ranges of valves are also available:

Section 5.5. - Pressure actuated models

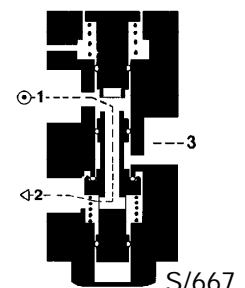
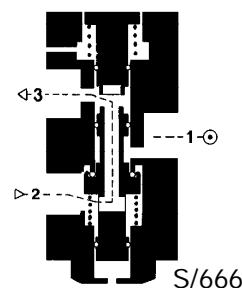
Section 5.6. - Mechanically actuated models


**Materials**

Diecast zinc alloy body, plastic piston, nitrile rubber seals.

**Ordering Information**

To order, quote model number from table overleaf, e.g. S/667/6 for the Lever Operated, Spring Return normally open model.

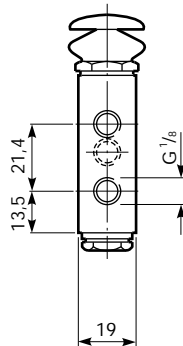
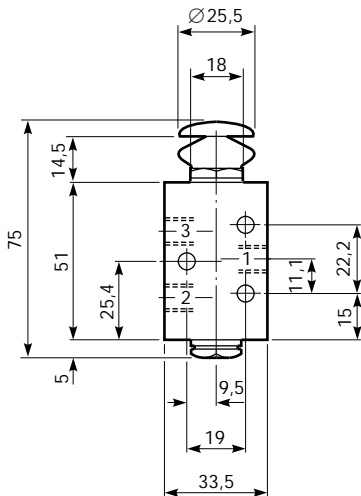
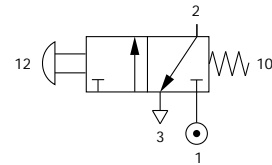




General Information

| Model      | Type            | Colour | Operator         | Return      | Weight (kg) | Spares kit  |
|------------|-----------------|--------|------------------|-------------|-------------|-------------|
| S/666/1    | Normally closed | Silver | Button           | Spring      | 0,20        | QS/666/1/00 |
| PS/666/1/R | Normally closed | Red    | Button           | Spring      | 0,20        | QS/666/1/00 |
| PS/666/1/G | Normally closed | Green  | Button           | Spring      | 0,20        | QS/666/1/00 |
| PS/666/1/N | Normally closed | Black  | Button           | Spring      | 0,20        | QS/666/1/00 |
| PS/667/1/R | Normally open   | Red    | Button           | Spring      | 0,20        | QS/667/1/00 |
| PS/667/1/G | Normally open   | Green  | Button           | Spring      | 0,20        | QS/667/1/00 |
| PS/667/1/N | Normally open   | Black  | Button           | Spring      | 0,20        | QS/667/1/00 |
| S/666/51/R | Normally closed | Red    | Button, Shrouded | Spring      | 0,30        | QS/666/1/00 |
| S/666/51/G | Normally closed | Green  | Button, Shrouded | Spring      | 0,30        | QS/666/1/00 |
| S/666/51/S | Normally closed | Silver | Button, Shrouded | Spring      | 0,30        | QS/666/1/00 |
| S/667/51/R | Normally open   | Red    | Button, Shrouded | Spring      | 0,30        | QS/667/1/00 |
| S/667/51/G | Normally open   | Green  | Button, Shrouded | Spring      | 0,30        | QS/667/1/00 |
| S/667/51/S | Normally open   | Silver | Button, Shrouded | Spring      | 0,30        | QS/667/1/00 |
| S/666/83/R | Normally closed | Red    | Button, Palm     | Spring      | 0,30        | QS/666/1/00 |
| S/666/83/G | Normally closed | Green  | Button, Palm     | Spring      | 0,30        | QS/666/1/00 |
| S/666/83/S | Normally closed | Silver | Button, Palm     | Spring      | 0,30        | QS/666/1/00 |
| S/666/6    | Normally closed | -      | Lever            | Spring      | 0,30        | QS/666/1/00 |
| S/666/7    | Normally closed | -      | Lever            | Lever       | 0,30        | QS/666/1/00 |
| S/666/117  | Normally closed | -      | Lever, Long      | Lever       | 0,30        | QS/666/1/00 |
| S/666/307  | Normally closed | -      | Rotary Knob      | Rotary Knob | 0,30        | QS/666/1/00 |
| S/666/49   | Normally closed | -      | Key              | Key         | 0,30        | QS/666/1/00 |

Button Operated, Spring Return



Model Number: **S/666/1**

Type: 3/2 Normally closed

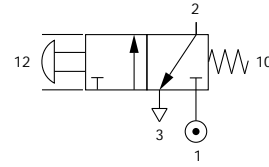
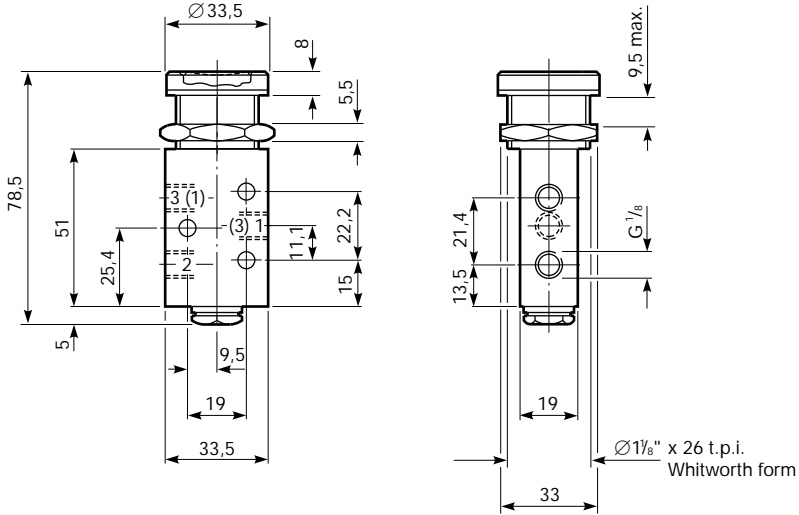
Operating Force: 35 N at 6,3 bar supply

For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.





## Button (Shrouded) Operated, Spring Return

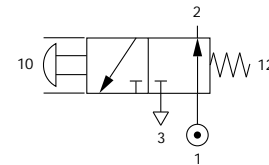


Model Number: **S/666/51/R**  
Type: 3/2 Normally closed  
Colour: Red

Model Number: **S/666/51/G**  
Type: 3/2 Normally closed  
Colour: Green

Model Number: **S/666/51/S**  
Type: 3/2 Normally closed  
Colour: Silver

Operating Force: 35 N at 6,3 bar supply  
This valve is suitable for panel mounting  
Panel Hole:  $\varnothing 29$  mm  
Panel Thickness: 9,5 mm maximum  
For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.



Model Number: **S/667/51/R**  
Type: 3/2 Normally open. Port identification codes shown in parenthesis () on drawing.  
Colour: Red

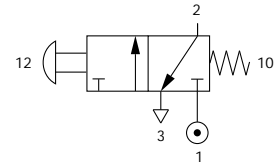
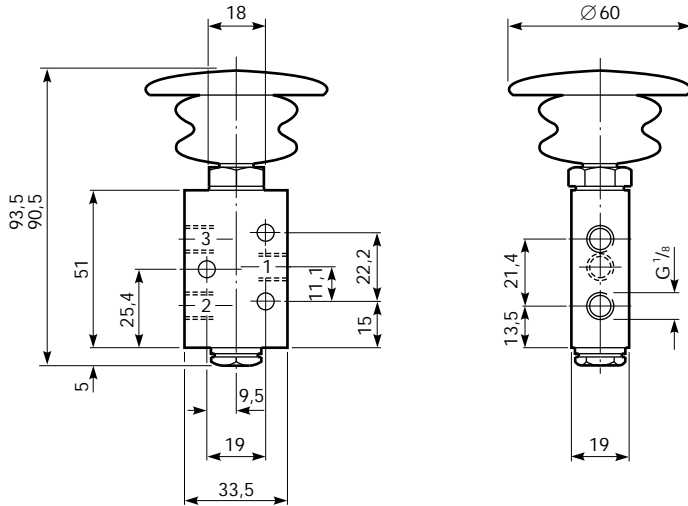
Model Number: **S/667/51/G**  
Type: 3/2 Normally open. Port identification codes shown in parenthesis () on drawing.  
Colour: Green

Model Number: **S/667/51/S**  
Type: 3/2 Normally open. Port identification codes shown in parenthesis () on drawing.  
Colour: Silver

Operating Force: 75 N at 6,3 bar supply  
This valve is suitable for panel mounting  
Panel Hole:  $\varnothing 29$  mm  
Panel Thickness: 9,5 mm maximum  
For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.



## Button (Palm) Operated, Spring Return



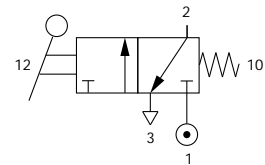
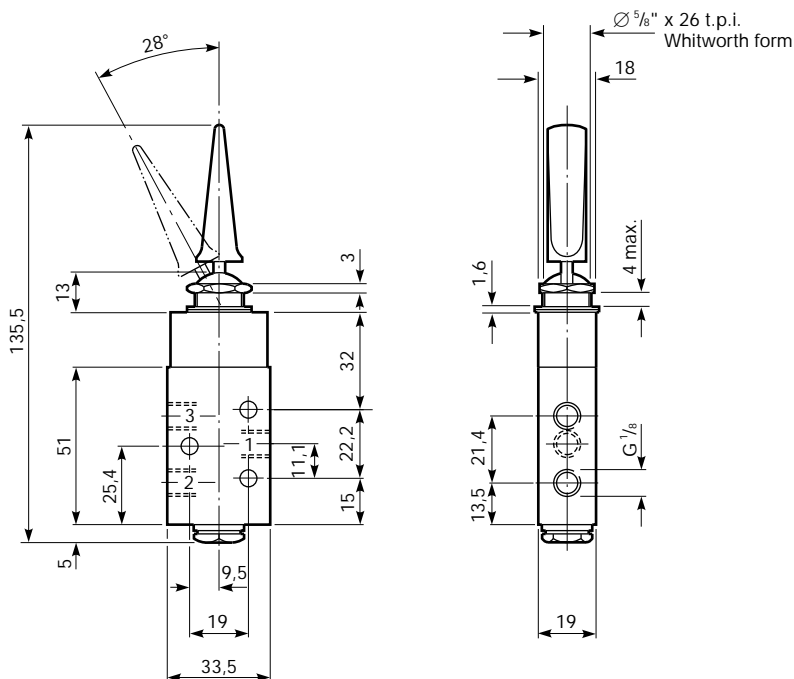
Model Number: **S/666/83/R**  
 Type: 3/2 Normally closed  
 Colour: Red

Model Number: **S/666/83/G**  
 Type: 3/2 Normally closed  
 Colour: Green

Model Number: **S/666/83/S**  
 Type: 3/2 Normally closed  
 Colour: Silver

Operating Force: 35 N at 6,3 bar supply  
 For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.

## Lever Operated, Spring Return

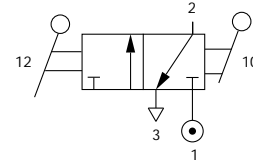
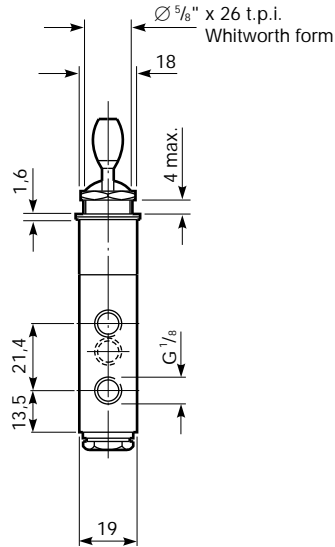
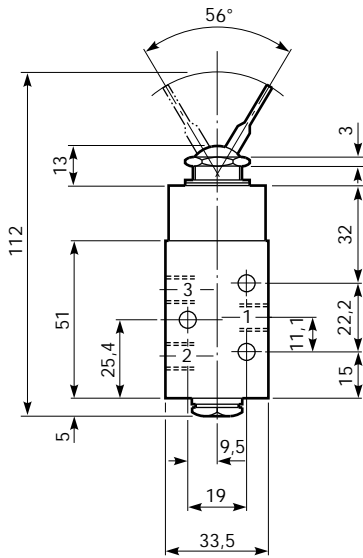


Model Number: **S/666/6**  
 Type: 3/2 Normally closed  
 Operating Force: 10 N at 6,3 bar supply  
 This valve is suitable for panel mounting

Panel Hole:  $\varnothing 16$  mm  
 Panel Thickness: 4 mm maximum  
 For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.



### Lever Set-reset



Model Number: **S/666/7**

Type: 3/2 Normally closed

Operating Force: 14 N at 6,3 bar supply

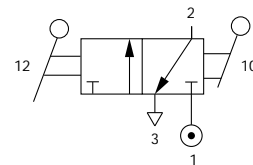
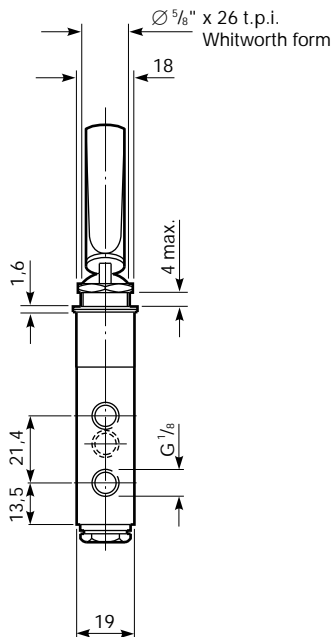
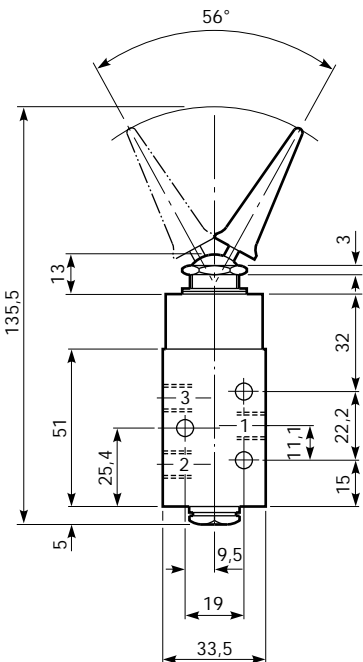
This valve is suitable for panel mounting

Panel Hole:  $\varnothing 16$  mm

Panel Thickness: 4 mm maximum

For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.

### Lever (Long) Set-reset



Model Number: **S/666/117**

Type: 3/2 Normally closed

Operating Force: 10 N at 6,3 bar supply

This valve is suitable for panel mounting

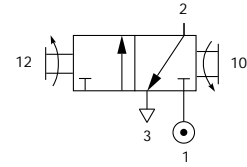
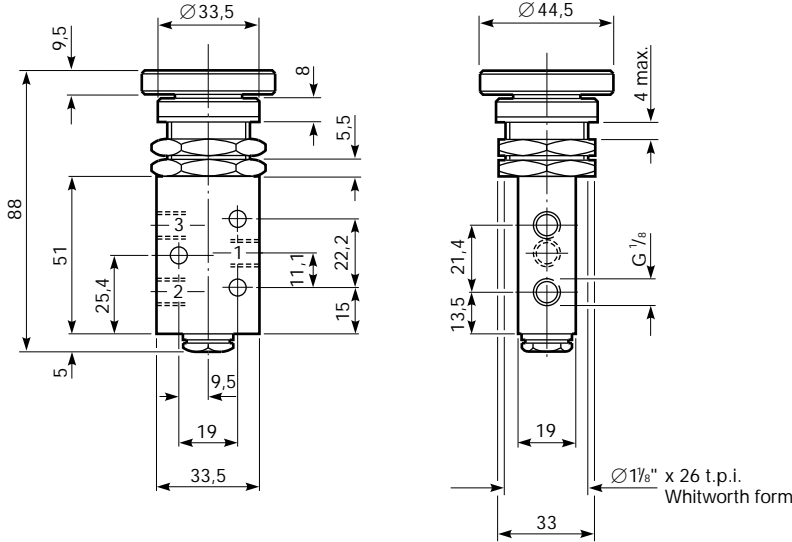
Panel Hole:  $\varnothing 16$  mm

Panel Thickness: 4 mm maximum

For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.



### Rotary Knob Set-reset



Model Number: **S/666/307**

Type: 3/2 Normally closed

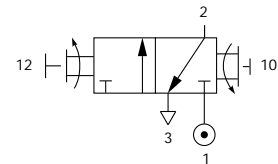
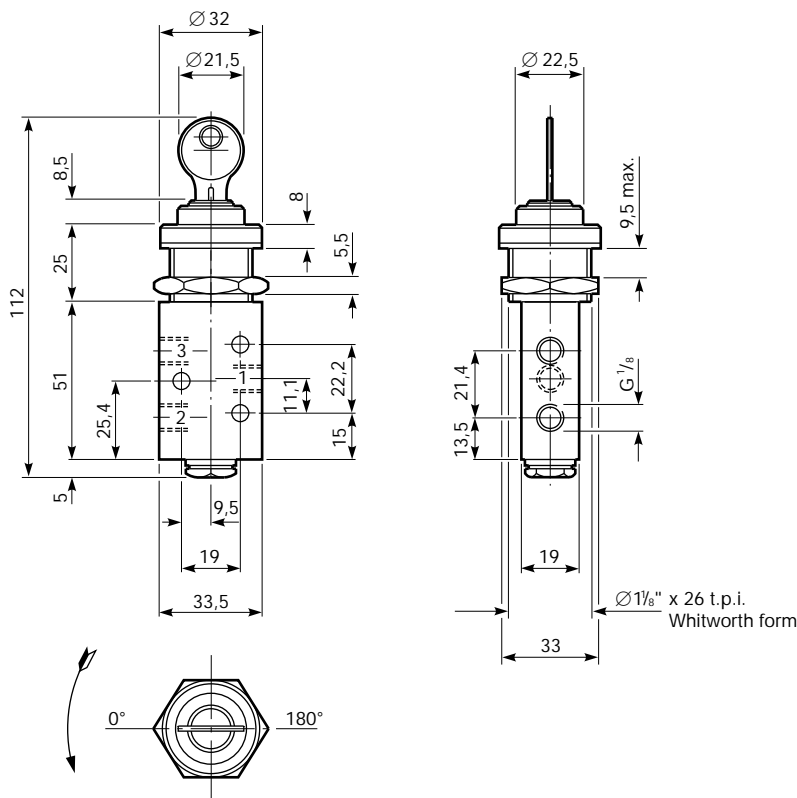
This valve is suitable for panel mounting. Tighten body locking nut against body to prevent body from becoming loose from operating mechanism after panel mounting.

Panel Hole:  $\varnothing 29$  mm

Panel Thickness: 4 mm maximum

For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.

### Key Set-reset



Model Number: **S/666/49**

Type: 3/2 Normally closed

The key turns anti-clockwise 180° to operate and may only be inserted or removed at 0° and 180° positions. When in the operated condition the key should be partially or completely removed to retain the valve in the locked position. Two keys are supplied.

This valve is suitable for panel mounting

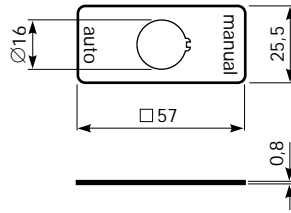
Panel Hole:  $\varnothing 29$  mm

Panel Thickness: 9.5 mm maximum

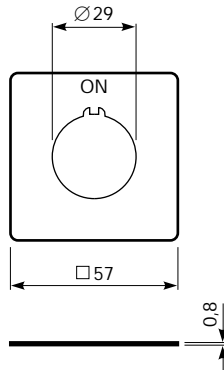
For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.



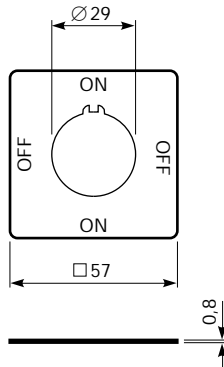
Legend Plates



| Legend Obverse  | Legend Reverse | Model      | Suitable for                |
|-----------------|----------------|------------|-----------------------------|
| ON-OFF          | AUTO-MANUAL    | S/P15434/1 | S/666/6, S/666/7, S/666/117 |
| DOWN-UP         | STOP-START     | S/P15434/2 | S/666/6, S/666/7, S/666/117 |
| FORWARD-REVERSE | OPEN-CLOSE     | S/P15434/3 | S/666/6, S/666/7, S/666/117 |



| Legend Obverse | Legend Reverse | Model      | Suitable for                                     |
|----------------|----------------|------------|--|
| ON             | OFF            | S/P15435/1 | PS/666/1, PS/667/1, S/666/49, S/666/51, S/667/51 |
| STOP           | START          | S/P15435/2 | PS/666/1, PS/667/1, S/666/49, S/666/51, S/667/51 |
| AUTO           | MANUAL         | S/P15435/3 | PS/666/1, PS/667/1, S/666/49, S/666/51, S/667/51 |
| UP             | DOWN           | S/P15435/4 | PS/666/1, PS/667/1, S/666/49, S/666/51, S/667/51 |
| FORWARD        | REVERSE        | S/P15435/5 | PS/666/1, PS/667/1, S/666/49, S/666/51, S/667/51 |
| OPEN           | CLOSE          | S/P15435/6 | PS/666/1, PS/667/1, S/666/49, S/666/51, S/667/51 |



| Legend Obverse | Legend Reverse  | Model      | Suitable for                                      |
|----------------|-----------------|------------|---|
| EMERGENCY STOP | UP-DOWN         | S/P15436/1 | PS/666/1, PS/667/1, S/666/51, S/667/51, S/666/307 |
| ON-OFF         | AUTO-MANUAL     | S/P15436/2 | S/666/307   |
| OPEN-CLOSE     | FORWARD-REVERSE | S/P15436/3 | S/666/307   |

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data'. Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN MARTONAIR. Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure. **System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.** System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.