



# TECKNAGAS

## Tecknagas protection rings



### *Our mission :*

To give an adapted solution for the protection of compressed gas cylinders.

### *Competitive advantages*

- Tecknagas protection rings are a safe, efficient and durable gas cylinder protection.
- Thanks to its fitting simplicity, Tecknagas protection rings are the champions of efficiency.

## *Cylinder correspondence /Protection rings*

Volume (L)	Diameter (mm)	Pressure (bar)	Length (mm)	Ring B5/B10	Ring B15		Ring B20/B30	Ring B50			Appendices
					AC	AL		AC1	AC2	AC3	
5	139,7	300	450	x							Page 3
5	139,7	60	445	x							
5	139,7	300	445	x							
5	139,7	300	430	x							
6	139,7	450	535	x							
10	139,7	60	805	x							
10	139,7	300	805	x							
10	139,7	300	825	x							
10	139,7	450	855	x							
15	170	200				x					P. 4 -5
15	185,5	200					x				
20	204	60	810					x			Page 6
20	204	300	810					x			
20	204	300	795					x			
20	204	450	850					x			
40	204	60	1505					x			
40	204	250	1505					x			
40	204	300	1520					x			
40	229	300	1225						x	x	Pages 7-9
40	229	100	1215						x	x	
40	244	300	1185					x			
50	229	60	1500						x	x	
50	229	300	1500						x	x	
50	229	300	1490						x	x	
50	229	300	1510						x	x	
50	229	300	1495						x	x	
50	229	450	1560						x	x	
50	244	300	1440						x		



B5/B10

B15AC

B15AL

B20/B30AC

B50AC1

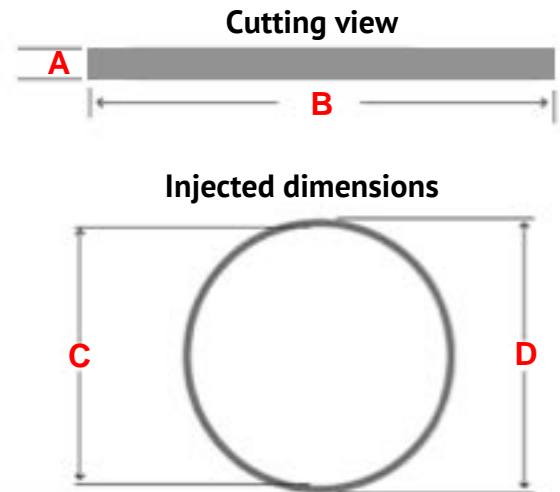
B50AC2

B50AC3



*B5 / B10*

Raw material	HDPE
Thickness of the ring	1.5 mm (A)
Height of the ring	60 mm (B)
Internal injected diameter	130 mm (C)
Stretched diameter	159 mm (D)
Weight of the ring	37 gr
Cylinder diameter	140 mm (+- 1%)
Equipped cylinder diameter	143 mm (+- 1%)
Quantity of ring per cylinder	2
Colours available	Any non métalllic RAL color



*PRODUCT ADVANTAGES*

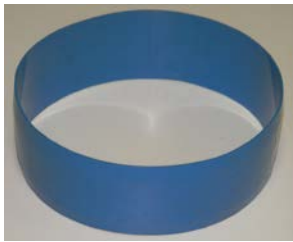
**Ring characteristics:**

- -Life expectancy, over 5 years
- -Resistance against acids
- -Resistance against UV
- -Resistance against humidity
- -Resistance against thermal shocks (+80°C / -40°C)
- - Installation rhythm: about 150 / h

**Advantages:**

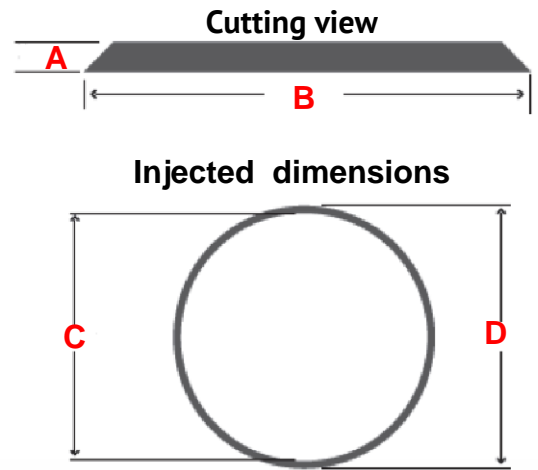
- - Less expensive than re-painting
- - Efficient paint protection
- - Labels protection
- - Shock resistance
- - Savings by reduction of maintenance budget





## B15 (AC)

Raw material	HDPE
Thickness of the ring	2.75 mm (A)
Height of the ring	63 mm (B)
Internal injected diameter	159 mm (C)
Stretched diameter	185 mm (D)
Weight of the ring	70 gr
Cylinder diameter	170 mm (+- 1%)
Equipped cylinder diameter	175.5 mm (+- 1%)
Quantity of ring per cylinder	2
Colours available	Any non métalllic RAL color



### PRODUCT ADVANTAGES

#### Ring characteristics:

- Life expectancy, over 5 years
- Resistance against acids
- Resistance against UV
- Resistance against humidity
- Resistance against thermal shocks (+80°C / -40°C)
- Installation rhythm: about 100 /h

#### Advantages:

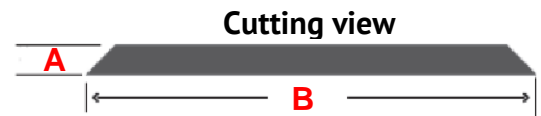
- Less expensive than re-painting
- Efficient paint protection
- Labels protection
- Shock resistance
- Savings by reduction of maintenance budget



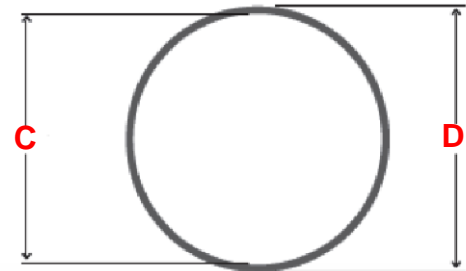


## B15 (AL)

Raw material	HDPE
Thickness of the ring	2.75 mm (A)
Height of the ring	63 mm (B)
Internal injected diameter	174 mm (C)
Stretched diameter	194 mm (D)
Weight of the ring	75 gr
Cylinder diameter	185.5 mm (+- 1%)
Equipped cylinder diameter	191 mm (+- 1%)
Quantity of ring per cylinder	2
Colours available	Any non métalllic RAL color



### Injected dimensions



## PRODUCT ADVANTAGES

### Ring characteristics:

- Life expectancy, over 5 years
- Resistance against acids
- Resistance against UV
- Resistance against humidity
- Resistance against thermal shocks (+80°C / -40°C)
- Installation rhythm: about 100 / h

### Advantages:

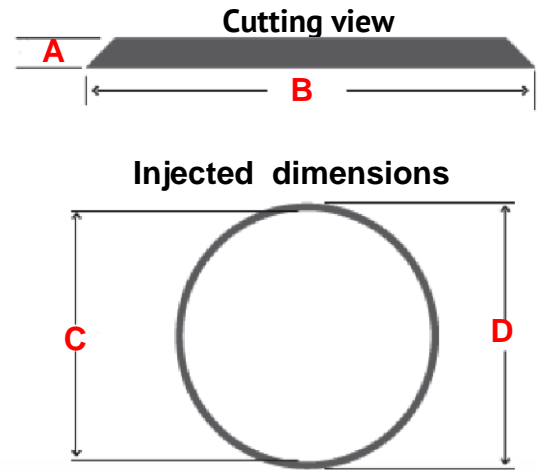
- Less expensive than re-painting
- Efficient paint protection
- Labels protection
- Shock resistance
- Savings by reduction of maintenance budget





## B20/B30 (AC)

Raw material	HDPE
Thickness of the ring	3.5 mm (A)
Height of the ring	63 mm (B)
Internal injected diameter	190 mm (C)
Stretched diameter	218 mm (D)
Weight of the ring	104 gr
Cylinder diameter	204 mm (+- 1%)
Equipped cylinder diameter	211 mm (+- 1%)
Quantity of ring per cylinder	2
Colours available	Any non métalllic RAL color



### PRODUCT ADVANTAGES

#### Ring characteristics:

- Life expectancy, over 5 years
- Resistance against acids
- Resistance against UV
- Resistance against humidity
- Resistance against thermal shocks (+80°C / -40°C)
- Installation rhythm: about 100 /h

#### Advantages:

- Less expensive than re-painting
- Efficient paint protection
- Labels protection
- Shock resistance
- Savings by reduction of maintenance budget





## B50/244 (AC1)

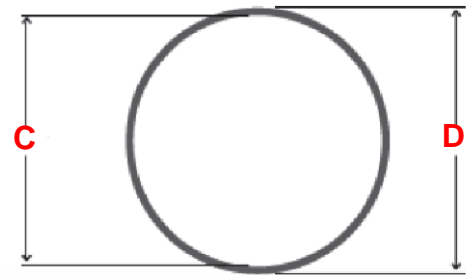
Raw material	HDPE
Thickness of the ring	4 mm (A)
Height of the ring	64 mm (B)
Internal injected diameter	229 mm (C)
Stretched diameter	259 mm (D)
Weight of the ring	145 gr
Cylinder diameter	244 mm (+- 1%)
Equipped cylinder diameter	252 mm (+- 1%)
Quantity of ring per cylinder	3
Colours available	Any non métalllic RAL color



### Cutting view



### Injected dimensions



## PRODUCT ADVANTAGES

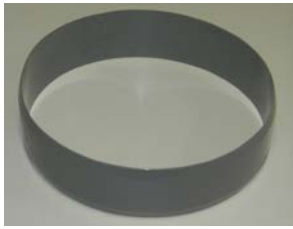
### Ring characteristics:

- Life expectancy, over 5 years
- Resistance against acids
- Resistance against UV
- Resistance against humidity
- Resistance against thermal shocks (+80°C / -40°C)
- Installation rhythm: about 80 /h

### Advantages:

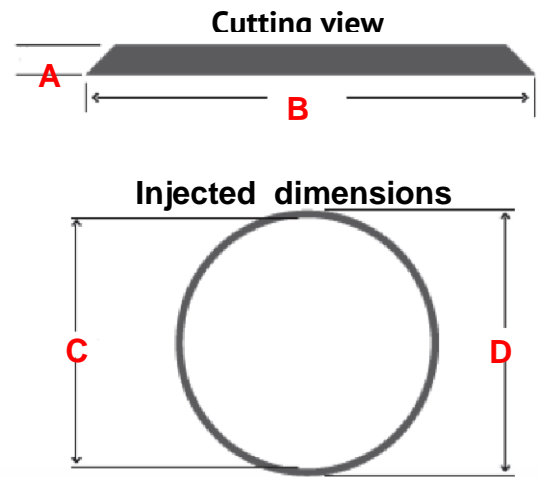
- Less expensive than re-painting
- Efficient paint protection
- Labels protection
- Shock resistance
- Savings by reduction of maintenance budget





## B50/229 (AC2)

Raw material	HDPE
Thickness of the ring	4 mm (A)
Height of the ring	60 mm (B)
Internal injected diameter	218 mm (C)
Stretched diameter	244 mm (D)
Weight of the ring	142 gr
Cylinder diameter	229 mm (+- 1%)
Equipped cylinder diameter	237 mm (+- 1%)
Quantity of ring per cylinder	3
Colours available	Any non métalllic RAL color



### PRODUCT ADVANTAGES

#### Ring characteristics:

- -Life expectancy, over 5 years
- -Resistance against acids
- -Resistance against UV
- -Resistance against humidity
- -Resistance against thermal shocks (+80°C / -40°C)
- - Installation rhythm: about 80 /h

#### Advantages:

- - Less expensive than re-painting
- - Efficient paint protection
- - Labels protection
- - Shock resistance
- - Savings by reduction of maintenance budget







## B50/229 (AC3)

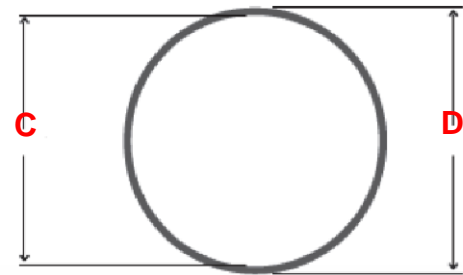
Raw material	HDPE
Thickness of the ring	2.5 mm (A)
Height of the ring	60 mm (B)
Internal injected diameter	218 mm (C)
Stretched diameter	244 mm (D)
Weight of the ring	89 gr
Cylinder diameter	229 mm (+- 1%)
Equipped cylinder diameter	234 mm (+- 1%)
Quantity of ring per cylinder	3
Colours available	Any non métallique RAL color



### Cutting view



### Injected dimensions



## PRODUCT ADVANTAGES

### Ring characteristics:

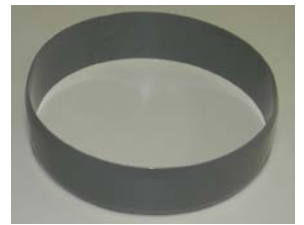
- Life expectancy, over 5 years
- Resistance against acids
- Resistance against UV
- Resistance against humidity
- Resistance against thermal shocks (+80°C / -40°C)
- Installation rhythm: about 80 /h

### Advantages:

- Less expensive than re-painting
- Efficient paint protection
- Labels protection
- Shock resistance
- Savings by reduction of maintenance budget



## Les équipements de pose des anneaux



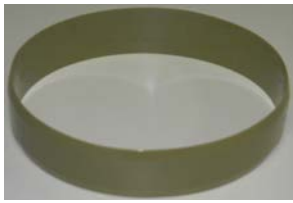
Expansion table characteristics	
Working height	970 (+/- 30)
Dimensions (Sizes)	570x400x1180mm
Supply	Compressed air 7-8 bar













Heating tunnel characteristics	
Maximum width	350mm
Maximum height	200mm
Working height	825mm (+/- 30)
Dimensions L x W x H	1495x835x1352mm
Voltage	230/400 V – 50/60 Hz – 3Ph
Consummation	13 kW
Advantages	<ul style="list-style-type: none"> <li>- guide rails to increase heating tunnel capacity</li> <li>-Electronic temperature regulation</li> <li>-Dual ventilation system</li> </ul>



Characteristics of the laser scale (ladder)
Graduated tripod with two laser levels. Variable height allowing the positioning of the rings on the cylinder.



## Installation rings process

	<ul style="list-style-type: none"> <li>• Turn on the heating tunnel</li> <li>• Check that the temperature is 95°C</li> <li>• Wait 10 mins to ensure stable temperature</li> </ul>
	<ul style="list-style-type: none"> <li>• Put the rings on the tunnel conveyor</li> <li>• The rings will be at the right T° after 5 to 20 min* in the tunnel ( * depending on ring thickness)</li> </ul>
	<ul style="list-style-type: none"> <li>• On the expansion table, select the cylinder you want to equip by adjusting the switch A/B and the timer</li> </ul>
	<ul style="list-style-type: none"> <li>• Take hot ring out of the tunnel</li> </ul>
	<ul style="list-style-type: none"> <li>• Place the ring on the expansion table at the right jaw diameter</li> </ul>
	<ul style="list-style-type: none"> <li>• Press the pedal</li> </ul>
	<ul style="list-style-type: none"> <li>• The cone rises and forces the jaws outwards, expanding the ring</li> </ul>
	<ul style="list-style-type: none"> <li>• When the expansion is completed, the cone drops down automatically and releases the ring</li> </ul>
	<ul style="list-style-type: none"> <li>• Take the ring from the table and slip it to the correct position on the gas cylinder</li> </ul>
	<ul style="list-style-type: none"> <li>• Hold the ring in the correct position for a few seconds. You will now see the ring shrinking on the cylinder</li> </ul>