

AUTOMATIC AIR VENTS



Description

The Barberi® automatic air vents allow to remove air from the installations without manual operations. They are normally installed in heating systems, central heating rooms, heating generators (wall-mounted boilers, solid fuel generators, heat pumps). Thanks to the air removal they allow a longer system life without component oxidation, a higher thermal efficiency, a better working and safety of pumps. For a better air removal, the valves must be installed in the upper parts of the systems and in all areas where there is a risk of air bubble forming (reverse syphons, manifolds, storages, boilers).

Range of products

- Series Y47L** Automatic air vent. With manual pin for functionality check.
- Series Y47** Automatic air vent (compact version)
- Series Y47.N** Automatic air vent (compact version), nickel plated. One code only Y47015N00
- Series P57L** Automatic air vent with side connection. With manual pin for functionality check
- Series P57** Automatic air vent with side connection (compact version)
- Series P56** Automatic air vent with side vent

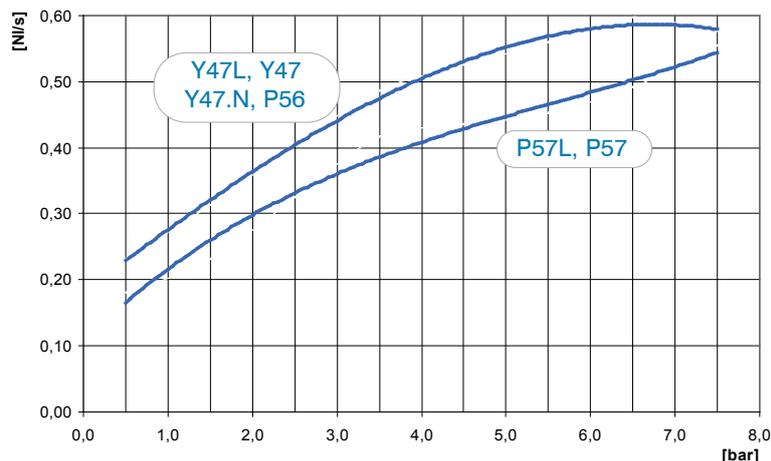
Features

Working temperature range (peaks): **-20 (no frost)–110 °C**
 Working temperature range: **0 (no frost)–95 °C**
 Max working pressure: **10 bar**
 Suitable fluids: **water for thermal systems,**
glycol solutions (max 30%)
 Connections: **threaded connections ISO 228-1**

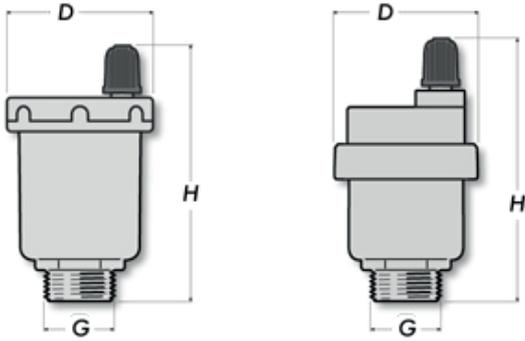
Materials

- 1 - Valve body: brass EN 12165 CW617N (nickel plated for Y47.N version)**
- 2 - Gaskets: NBR**
- 3 - Floating device: polypropylene**

Diagrams

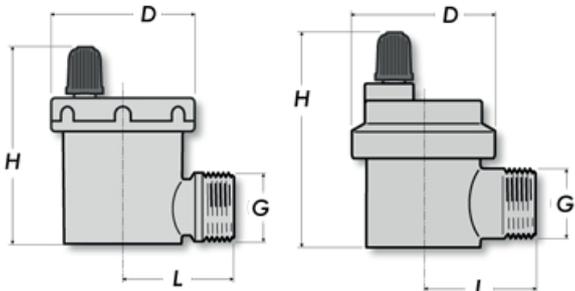


Dimensions



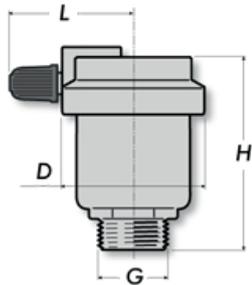
Y47L

Y47- Y47.N
Y47A
with O-Ring seal



P57L

P57



P56

Code	P [bar]	G	D	H	Weight [g]	N. P/B	N. P/C
Y47010000 L	10	G 3/8 M	46	58	151	10	100
Y47015000 L	10	G 1/2 M	46	60	159	10	100
Y47020000 L	10	G 3/4 M	46	59	168	10	100
Y47025000 L	10	G 1 M	46	86	263	10	100

N. P/B: number of pieces in box, plastic bag - N. P/C: number of pieces in carton

Code	P [bar]	G	D	H	Weight [g]	N. P/B	N. P/C
Y47010000	10	G 3/8 M	42	75	122	10	100
Y47010000 A	10	G 3/8 M	42	75	122	10	100
Y47015000 - Y47015N00	10	G 1/2 M	42	75	130	10	100

N. P/B: number of pieces in box, plastic bag - N. P/C: number of pieces in carton

Code	P [bar]	G	D	H	L	Weight [g]	N. P/B	N. P/C
P57010000 L	10	G 3/8 M	46	61	35	142	10	100
P57015000 L	10	G 1/2 M	46	61	35	150	10	100

N. P/B: number of pieces in box, plastic bag - N. P/C: number of pieces in carton

Code	P [bar]	G	D	H	L	Weight [g]	N. P/B	N. P/C
P57010000	10	G 3/8 M	42	61	32	157	10	100
P57015000	10	G 1/2 M	42	61	34	169	10	100

N. P/B: number of pieces in box, plastic bag - N. P/C: number of pieces in carton

Code	P [bar]	G	D	H	L	Weight [g]	N. P/B	N. P/C
P56010000	10	G 3/8 M	45	62	35	122	10	100
P56015000	10	G 1/2 M	45	63	35	130	10	100

N. P/B: number of pieces in box, plastic bag - N. P/C: number of pieces in carton

Working way

Automatic air vent works through a floating device. The floating device moves up with water and allows the obturator to close the bore, avoiding water to flow out. If air is accumulated in the valve body, the floating device moves down opening the bore and allowing the air release.

Installation

Automatic air vents must be installed in suitable areas in order to drain air from installations. These areas are represented by the upper parts of the installation, reverse syphons, manifolds, storages, thermosyphon elements, boilers and all parts where air could be accumulated.

Air vents must be positioned only vertically, pointing upward, as shown in the figure.

Y47L Y47 Y47.N			
P57L P57			
P56			

Y70

Automatic shut-off valve for air vent replacement

Max working temperature: **95 °C**

Max working pressure: **10 bar**



Code	Size
Y70 010 000	G 3/8 M - G 3/8 F
Y70 015 000	G 1/2 M - G 1/2 F

Specifications

Series Y47L

Automatic air vent. With manual pin for functionality check. Threaded connections G 3/8 M (from G 3/8 M to G 1 M). Body and plug in brass; NBR gaskets; polypropylene floating device. Maximum working pressure 10 bar. Working temperature range 0–95 °C. Suitable fluids water for thermal systems, glycol solutions(max 30%).

Series Y47-Y47.N

Automatic air vent, compact version. Threaded connections G 3/8 M (and G 1/2 M). Body and plug in brass (nickel-plated for Y47.N version); NBR gaskets; polypropylene floating device. Maximum working pressure 10 bar. Working temperature range 0–95 °C. Suitable fluids water for thermal systems, glycol solutions(max 30%).

Series P57L

Automatic air vent with side connection. With manual pin for functionality check. Threaded connections G 3/8 M (and G 1/2 M). Body and plug in brass; NBR gaskets; polypropylene floating device. Maximum working pressure 10 bar. Working temperature range 0–95 °C. Suitable fluids water for thermal systems, glycol solutions(max 30%).

Series P57

Automatic air vent with side connection, compact version. Threaded connections G 3/8 M (and G 1/2 M). Body and plug in brass; NBR gaskets; polypropylene floating device. Maximum working pressure 10 bar. Working temperature range 0–95 °C. Suitable fluids water for thermal systems, glycol solutions(max 30%).

Series P56

Automatic air vent, with side release. Threaded connections G 3/8 M (and G 1/2 M). Body and plug in brass; NBR gaskets; polypropylene floating device. Maximum working pressure 10 bar. Working temperature range 0–95 °C. Suitable fluids water for thermal systems, glycol solutions(max 30%).

Series Y70

Automatic shut-off valve for air vent replacement. Threaded connections G 3/8 M-G 3/8 F (and G 1/2 M-G 1/2 F). Body in brass; NBR gaskets; polypropylene obturator; spring in AISI 302 stainless steel. Maximum working pressure 10 bar. Working temperature range 0–95 °C. Suitable fluids water for thermal systems, glycol solutions(max 30%).