



BROADY

F L O W C O N T R O L

Type 3600

Pressure Safety Valve



Engineering complete solutions

Call Us on 01482 619600

Visit us at www.broady.valvitalia.com

Type 3600

Pressure Safety Valve

The Type 3600 Safety Relief valve is designed to have a short 'simmer', then to open rapidly to the full open position, and to re-seat at a controlled pressure. When the valve is in its fully lifted position, the discharge area is controlled by the bore of the nozzle, which ensures that flow calculations for various mediums can be reliably made.

Valves are supplied in sizes ½" to 1" and can be manufactured in Cast Steel or Stainless Steel (other materials available on request) with ends screwed male x female, female x female or flanged to customer requirements.

Valves can also be supplied with a packed lever lifting device, a limit switch to indicate opening and closing of the valve, or a governing ring to limit adjustment of the spring to the set point, for ease of resetting.

Installation

During installation of the valve avoid bumping or shaking to prevent damaging the end connections, or misalignment of the trim. To remove any foreign bodies, blow through the circuit line on which the valve is to be installed. Clean the valve and nozzle connections thoroughly; as foreign bodies on the nozzle may damage the valve seat during popping. Install the valve in a vertical position only, with the inlet downwards. After the valve has been installed make it pop at least twice to allow automatic alignment of the trim. Misalignment may be caused accidentally during transport or installation.

Maintenance

The most frequent operation to be carried out is a precise check, made at regular intervals, to observe whether any obvious faults exist in the different parts of the valve. It should be checked first of all that there are no leakages: these must always be avoided, especially when the medium is poisonous, highly volatile or very expensive. Carry out periodic venting for valves with a lifting device to check regular operation. During these tests the pressure must be at least 75% of the full working pressure.

Overhaul

To overhaul the valve the following procedure should be followed: remove the cap, mark the position of the Adjusting Screw relevant to the Locknut, so the correct position may be found during re-setting. Loosen the Adjusting Screw and Locknut to relax the spring, remove the lock screw from the Valve Body to free the Guide Ring. Unscrew the Nozzle from the Valve Body and

remove the complete Lid assembly from the inside of the body. Check the contact faces of the Nozzle and Disc. Should any scratching or pitting be present, the surfaces will require re-lapping. Replace all Joints and O Rings and reassemble the valve in reverse order. To prevent damage to the Disc and Nozzle faces, place a screwdriver in the spindle slot. This will prevent the spindle from turning whilst resetting the valve.



LIMITS & STANDARDS

Minimum Set Pressure: 0.5 Barg

Maximum Set Pressure: 250 Barg

Design Standard:

- API 520
- ASME VIII

Materials of construction:

- Gunmetal
- Cast Steels
- Aluminium Bronze
- Monel
- Hastelloy
- Inconel

Key Features:

- Direct Acting, Full Lift Safety Valve
- Gas, Liquid And Vapour Service
- Balance Piston Design



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Type 3600

Pressure Safety Valve (Gas Flanged)

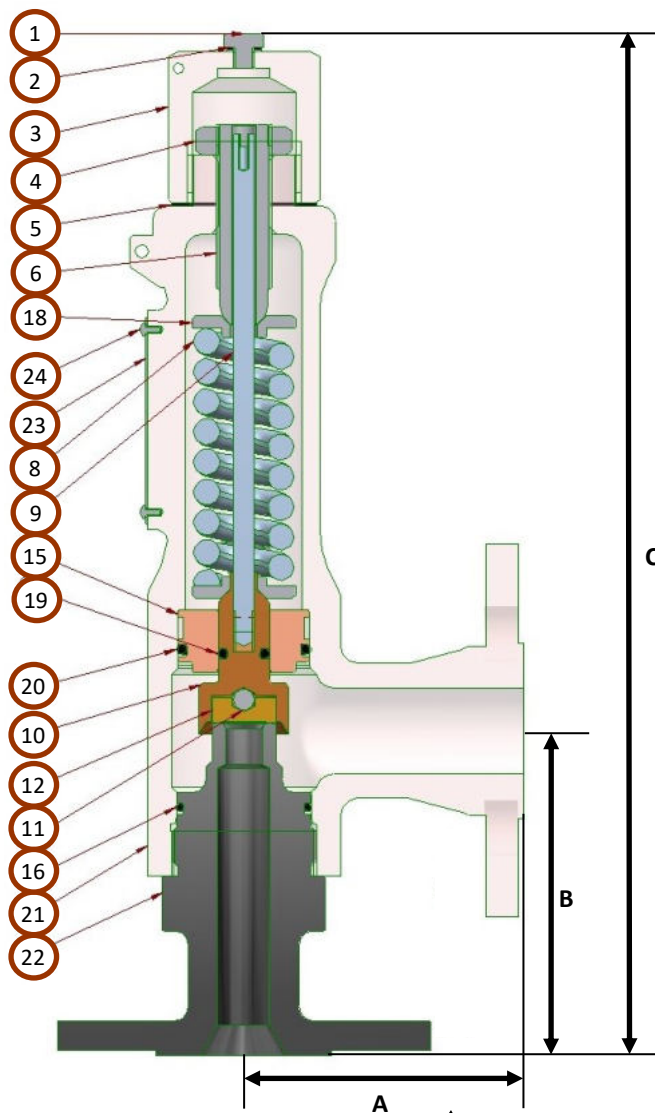
24	Nameplate Rivet
23	Nameplate
22	Nozzle
21	Body
20	O Ring
19	O Ring
18	Spring Carriers
16	O Ring
15	Guide Ring
14	Joint (Lockscrew)
13	Lockscrew (Not Shown)
12	Disc
11	Ball
10	Disc Holder
9	Spindle
8	Spring
6	Adjusting Screw
5	Joint (Cap)
4	Locknut
3	Cap
2	Joint (Plug)
1	Cap Plug

Items shown in red contained in soft goods kit

Item	Title
------	-------

HOW TO ORDER

To enable Broady flow Control to offer the most suitable valve for your service, please provide the following information at the enquiry stage: Set Pressure, Medium, Temperature, Back Pressure and Flow.



	ANSI 150			ANSI 300			Weight (Kg)
Valve Size	A	B	C	A	B	C	
½" x 1"	81	94	296	81	99	301	6.0
¾" x 1"		95	297		100	301	
1" x 1"		95	297		102	303	

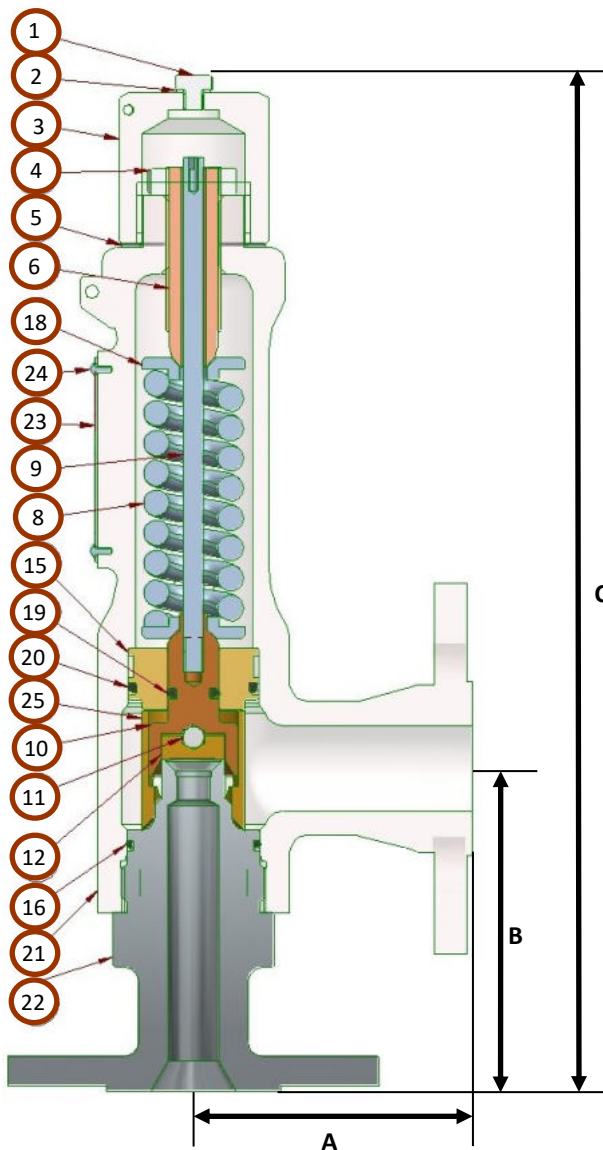
Dimensions (mm)

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Type 3600

Pressure Safety Valve (Liquid Flanged)



	ANSI 150			ANSI 300			Weight (Kg)
Valve	A	B	C	A	B	C	
1/2" x 1"	81	94	296	81	99	301	6.0
3/4" x 1"		95	297		100	301	
1" x 1"		95	297		102	303	

Dimensions (mm)

25	Huddling Ring
24	Nameplate Rivet
23	Nameplate
22	Nozzle
21	Body
20	O Ring
19	O Ring
18	Spring Carriers
16	O Ring
15	Guide Ring
14	Joint (Lockscrew)
13	Lockscrew (Not Shown)
12	Disc
11	Ball
10	Disc Holder
9	Spindle
8	Spring
6	Adjusting Screw
5	Joint (Cap)
4	Locknut
3	Cap
2	Joint (Plug)
1	Cap Plug

Items shown in red contained in soft goods kit

Item	Title
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Please contact the Broady Flow Control sales team who will be happy to assist you in selecting the correct valve for your requirements.

Email: sales@broady.co.uk



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F L O W C O N T R O L

Type 3600

Pressure Safety Valve (Gas Screwed)

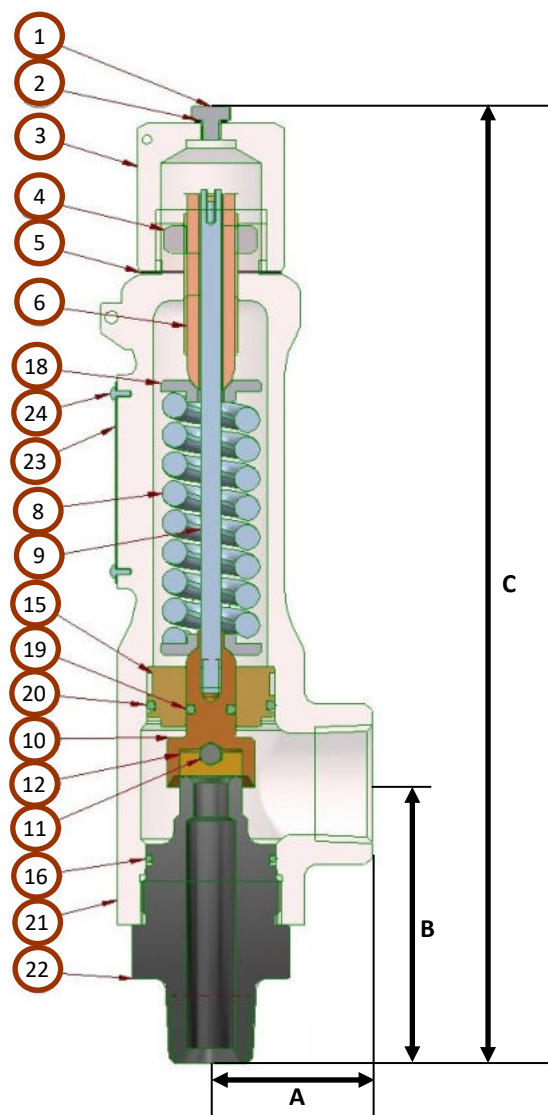
24	Nameplate Rivet
23	Nameplate
22	Nozzle Screwed
21	Body
20	O Ring
19	O Ring
18	Spring Carriers
16	O Ring
15	Guide Ring
14	Joint (Lockscrew)
13	Lockscrew (Not Shown)
12	Disc
11	Ball
10	Disc Holder
9	Spindle
8	Spring
6	Adjusting Screw
5	Joint (Cap)
4	Locknut
3	Cap
2	Joint (Plug)
1	Cap Plug

Items shown in red contained in soft goods kit

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HOW TO ORDER

To enable Broady flow Control to offer the most suitable valve for your service, please provide the following information at the enquiry stage: Set Pressure, Medium, Temperature, Back Pressure and Flow.



Valve	A	B	C	Weight (Kg)
½" x 1"	48	83	285	4.0
¾" x 1"				
1" x 1"				

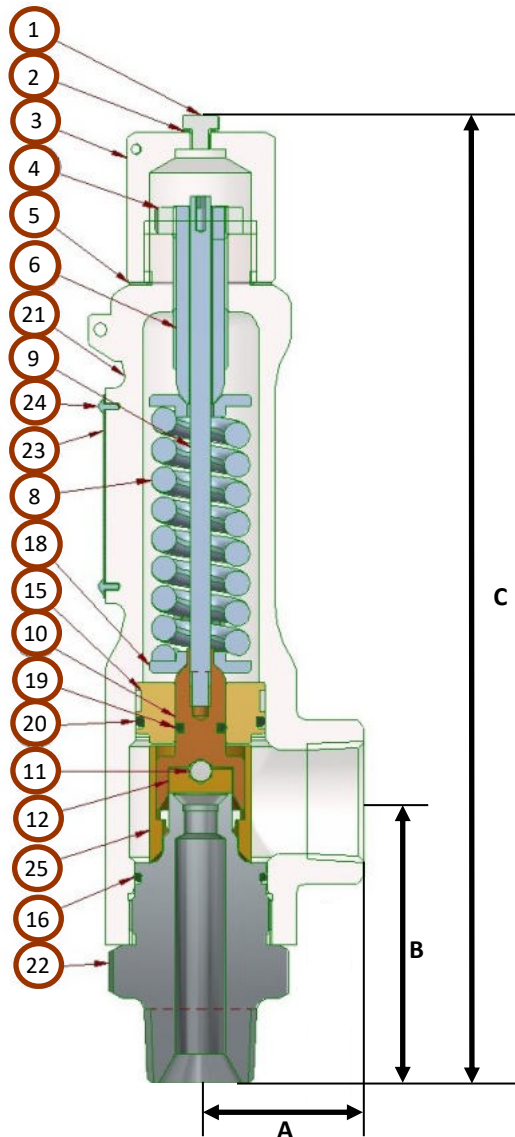
Dimensions (mm)

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Type 3600

Pressure Safety Valve (Liquid Screwed)



Valve	A	B	C	Weight
½" x 1"	48	83	285	4
¾" x 1"				
1" x 1"				

Dimensions (mm)

25	Huddling Ring
24	Nameplate Rivet
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22	Nozzle Screwed
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Item	Title
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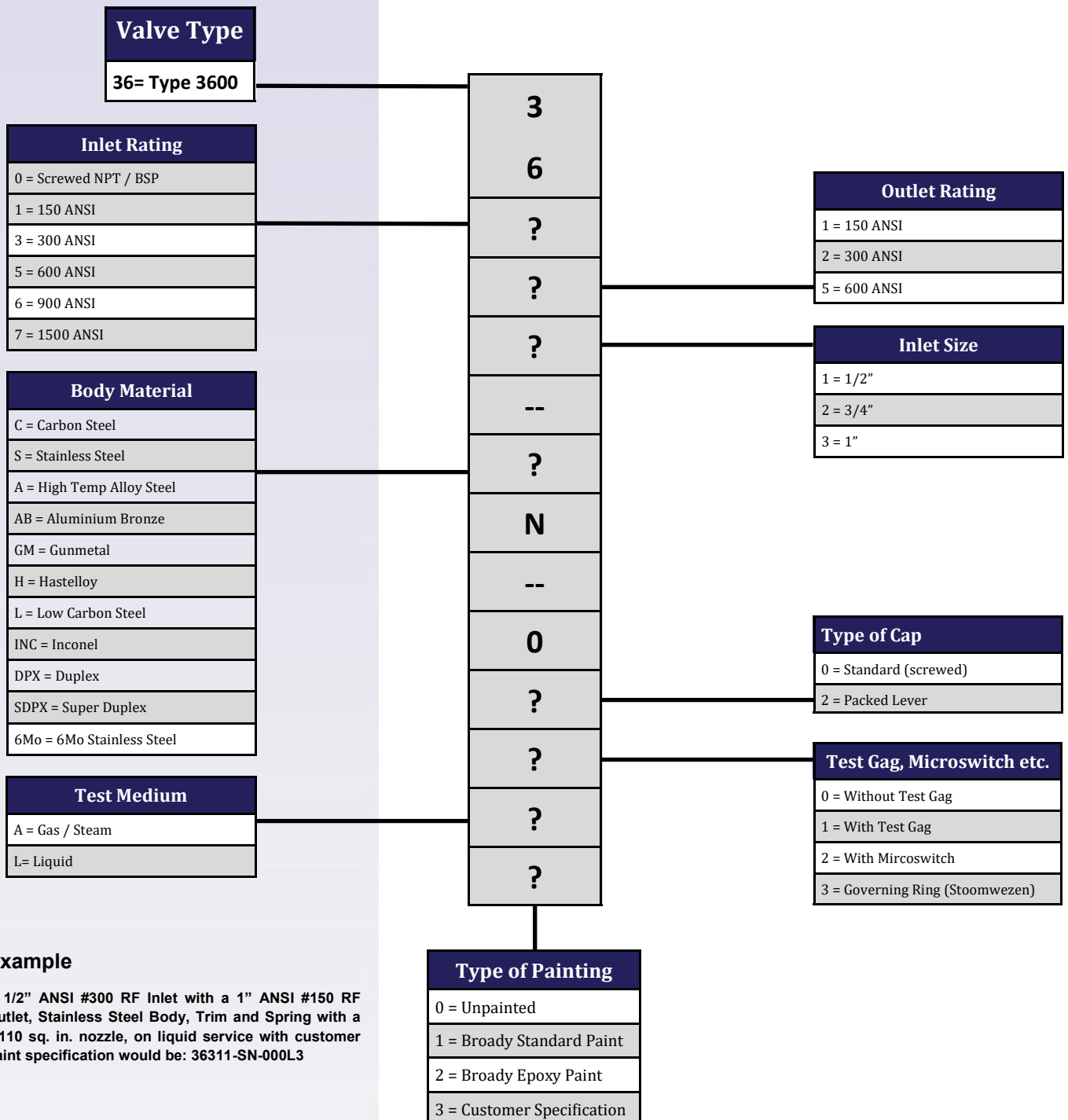
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Type 3600

Valve Coding



Example

A 1/2" ANSI #300 RF Inlet with a 1" ANSI #150 RF Outlet, Stainless Steel Body, Trim and Spring with a 0.110 sq. in. nozzle, on liquid service with customer paint specification would be: 36311-SN-000L3

Broady Quality

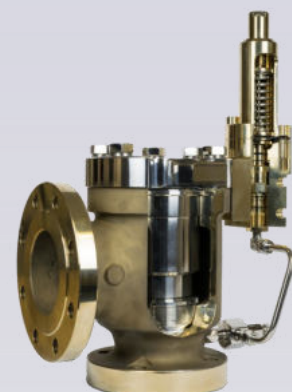
Broady Flow Control Limited, over its many years of trading, has developed into a highly efficient and customer focused organisation, well placed to satisfy the ever changing requirements of the industry. Renowned for innovation, flexibility and integrity.

Broady has a well established and robust quality management system which supports order processing and manufacturing, ensuring the highest standards are maintained at all times.

The dedicated management team is supported by a highly skilled and dedicated workforce trained in all engineering disciplines. The future of Broady is assured by the policy of employment and training of young dynamic apprentices who are fully involved in the development and implementation of the quality management system.

At the heart of Broady's philosophy is the desire to strive for continual improvement and complete customer satisfaction through the process of internal and external audits designed to ensure a "right first time" environment.

Broady Flow Control Limited is committed to maintaining and continually improving the quality of the products and services offered to all its customers.





BROADY

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Valves from the Broady Product Range



3500 Series Pressure Safety Valves



Fire Fighting (Hydrant Valves)



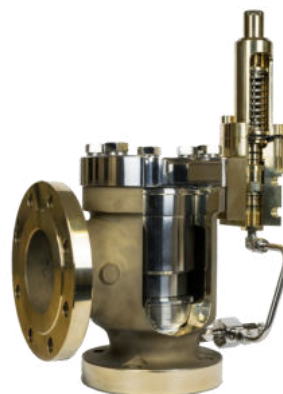
Type 3600, 2600, 180 & 180-S
Safety Valves



Sustaining Valves
(Type A, Type D, Type 8, Type 9)



Reducing Valves (A, AB, C, D, B2)



Type 4000 Pilot Operated Safety Relief Valve

Please contact the
Broady Flow Control
sales department for
more information on
our extensive product
range on +44 (0)1482
619600 or via
sales@broady.co.uk

Call Us on 01482 619600





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