



QUALITY SYSTEM

> ISO 9001:2008

SIZING CODES AVAILABLE

- > ISPEL Collection E, H, R
- > EN 4126-7
- > API520 Part. I
- > ASME sect.VIII div.1
- > AD Merkbblatt A2
- > GOST G24570

**PRODUCT MANUFACTURED
IN ACCORDANCE WITH**

- > EN 4126
- > EN 12516
- > API526
- > ASME B16.34

PRODUCT APPROVED BY

- > INAIL (EX ISPEL)
- > PED / ATEX
- > RINA
- > GERMANISHER LLOYD
- > BUREAU VERITAS
- > GOST-R / F-SETAN
- > PRS



Since 1946, establishment year, BESA offers to its costumers a service of maintenance and revision in site and on the plants.

Our service guarantees:

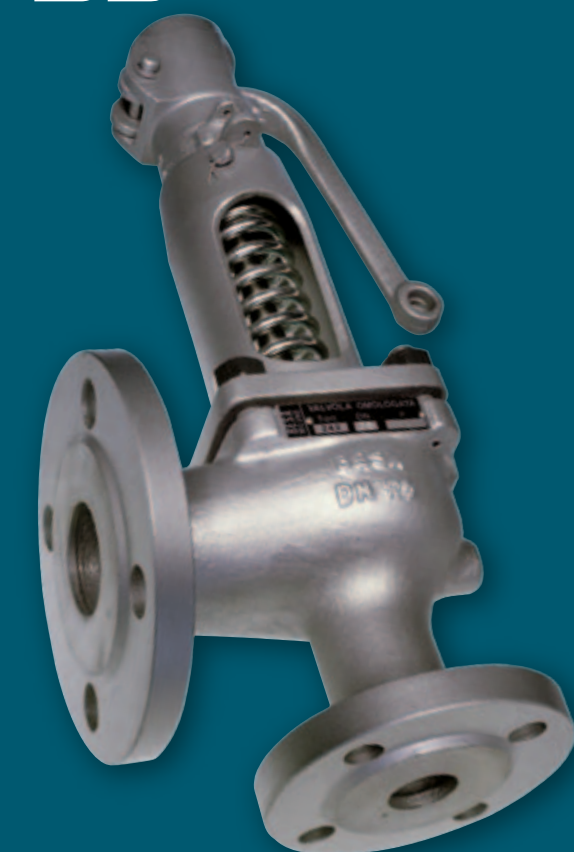
- > original spare parts
- > inspection and new setting certificate
- > warranty of execution

BESA Ing. Santangelo S.p.A.

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BESA Ing. Santangelo S.p.A.

SAFETY VALVES SINCE 1946



ACTIVITY FIELDS

- HEATERS AND BOILERS
- SHIPYARDS
- POWER GENERATION PLANTS
- PHARMACEUTICAL
- CHEMICAL AND PETROCHEMICAL

COMPANY PROFILE

Founded in 1946 by Eng. Antonio Santangelo, BESA has consolidated its presence on the national market and fixed basis for the foreign market activity development.

Always leaning towards improvement and to guarantee customer satisfaction, BESA is constantly carrying out investments to optimise its production, technical and commercial activities.

Today the company proposes itself as a landmark, both regarding the production and development of its own traditional product, the « service » (through an after-sales scheduled maintenance program) and the commercialization of new products in order to meet a wide range of requirements.

Upon request BESA offers, at its headquarters, complete assistance to carry out all kind of witnessed tests.

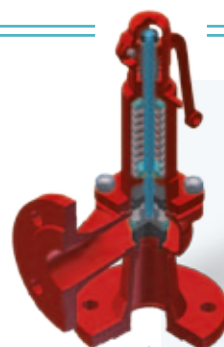
Besa safety valves are made in a great variety of diameters and materials suitable for all major applications.



Main activity fields are:

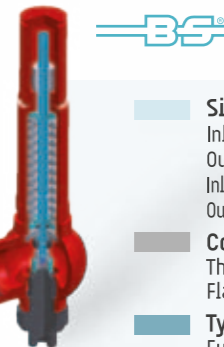
- > Boiler Manufacturer
- > General steam application
- > Compressors Manufacturer
- > Heat-exchanger Manufacturer
- > Pumps Manufacturer
- > Skid Manufacturer
- > Shipyard Construction
- > Chemical and Petrochemical Industries
- > Power and Energy Industries
- > LPG/LNG Terminals, carriers
- > Refineres
- > Oil & Gas - Onshore and Offshore
- > Cryogenic systems and Oxygen
- > Food & Beverage Industries
- > Breweries
- > Sugar Refineres
- > Pharmaceutical Industries
- > Water Treatment and Distribution
- > Pulp and Paper Industries
- > Power Plant
- > Incinerators and waste Treatment
- > Tank farm
- > Storage tank
- > Transfer oil system





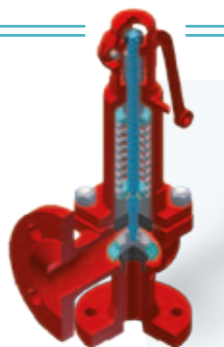
SERIES 130

- Size Available:** Inlet Diam. from DN 15 (1/2") up to DN 150 (6")
Outlet Diam. from DN 15 (1/2") up to DN 150 (6")
- Connection:** Flanged PN 16÷40 ; ANSI 150÷300
- Type of Seat:** Semi-Nozzle
Full Nozzle (version 130b)
- Set Pressure Range:** 0,25 ÷ 40 bar
- Temperature Range:** - 196 ÷ + 537°C
- Materials available:** Cast Iron, Carbon Steel, St.St.
- Suitable for:** Steam, Gases and Liquids
- Approvals:** PED, ATEX, RINA, GOST-R, PRS
- Option Available:** Lifting Device, Bellows, Soft Seat, Heating Jacket, Test Gag, Limit Switches



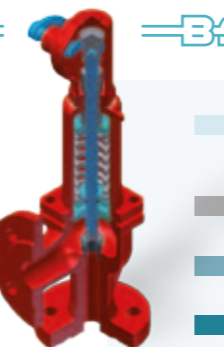
SERIES 249

- Size Available:** Inlet Diam. from DN 1/2" up to DN 1"
- Outlet Diam.** from DN 1" up to DN 1-1/2"
- Inlet Diam. with slip-on flanges** from DN 15 up to DN 25"
- Outlet Diam. with slip-on flanges** from DN 25 up to DN 40"
- Connection:** Threaded GAS, NPT
Flanged slip-on PN 16÷250 ; ANSI 150÷1500
- Type of Seat:** Full Nozzle
- Set Pressure Range:** 0,25 ÷ 500 bar
- Temperature Range:** - 196 ÷ + 300°C
- Materials available:** Chrome Steel, St.St.
- Suitable for:** Steam, Gases and Liquids
- Approvals:** PED, ATEX, RINA, GOST-R
- Option Available:** Lifting Device, Soft Seat, Test Gag



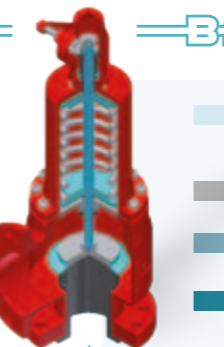
SERIES 240

- Size Available:** Inlet Diam. from DN 20 (3/4") up to DN 250 (10")
Outlet Diam. from DN 40 (1-1/2") up to DN 400 (16")
- Connection:** Flanged PN 16÷40 ; ANSI 150÷300(*)
- Type of Seat:** Semi-Nozzle
Full Nozzle (version 240b)
- Set Pressure Range:** 0,25 ÷ 40 bar
- Temperature Range:** -196°C ÷ +537°C
- Materials available:** Carst Iron, Carbon Steel, St.St.
- Suitable for:** Steam, Gases and Liquids
- Approvals:** PED, ATEX, RINA, B.V., G.L, GOST-R, PRS
- Option Available:** Lifting Device, Bellows, Soft Seat, Heating Jacket, Test Gag, Limit Switches
(*) Ansi 600 available for some diameters.



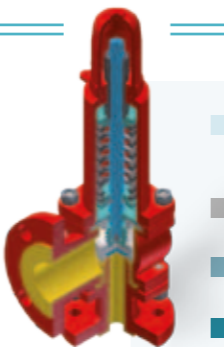
SERIES 250

- Size Available:** Inlet Diam. from DN 25 (1") up to DN 100 (4")
Outlet Diam. from DN 40 (1-1/2") up to DN 150 (6")
- Connection:** Flanged PN 40÷16/250 ; ANSI 150÷600/1500
- Type of Seat:** Semi-Nozzle
- Set Pressure Range:** 3 ÷ 160 bar
- Temperature Range:** -196°C ÷ +537°C
- Materials available:** Carbon Steel, Alloy Steel, St.St.
- Suitable for:** Steam, Gases and Liquids
- Approvals:** PED, ATEX, RINA, GOST-R, PRS
- Option Available:** Lifting Device, Bellows, Soft Seat, Test Gag, Limit Switches




SERIES 280

- Size Available:** Inlet Diam. from DN 25 (1") up to DN 200 (8")
Outlet Diam. from DN 50 (2") up to DN 250 (10")
- Orifice Available:** From D to T
- Connection:** Flanged ANSI 150÷2500
- Type of Seat:** Full-Nozzle
- Set Pressure Range:** 0,5 ÷ 300 bar
- Temperature Range:** -196°C ÷ +538°C
- Materials available:** Carbon Steel, LCB, ASTM A351CF8M, CF3M
- Suitable for:** Steam, Gases and Liquids
- Approvals:** PED, ATEX, GOST-R, PRS
- Option Available:** Lifting Device, Bellows, Damper, Piston, Soft Seat, Test Gag, Conformity to NACE, EN flanges



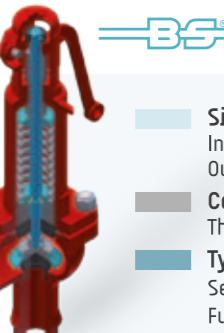
SERIES 271

- Size Available:** Inlet Diam. from DN 25 (1") up to DN 100 (4")
Outlet Diam. from DN 50 (2") up to DN 150 (6")
- Connection:** Flanged PN 16÷40 ; ANSI 150÷300
- Type of Seat:** Full Nozzle
- Set Pressure Range:** 0,8 ÷ 16 bar
- Temperature Range:** -196°C ÷ +200°C
- Materials available:** Carbon Steel, St. St. all with PFA Lining
- Suitable for:** Steam, Gases and Liquids
- Approvals:** PED, ATEX
- Option Available:** Lifting Device, Disc in Glass or other special materials



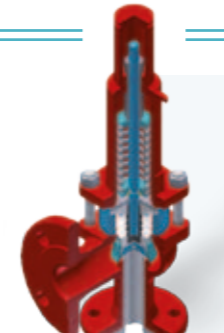
SERIES 139

- Size Available:** Inlet/Outlet Diam. from DN 1/2" up to DN 3/4"
Inlet/Outlet Diam. with slip-on flanges from DN 15 up to DN 20
- Connection:** Threaded GAS, NPT
Flanged slip-on PN 16÷160 ; ANSI 150÷900
- Type of Seat:** Full Nozzle
- Set Pressure Range:** 0,25 ÷ 40 bar
- Temperature Range:** - 196 ÷ + 300°C
- Materials available:** Chrome Steel, St.St.
- Suitable for:** Steam, Gases and Liquids
- Approvals:** PED, ATEX, RINA, GOST-R
- Option Available:** Lifting Device, Soft Seat, Test Gag



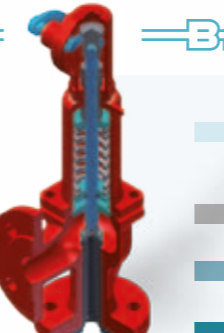
SERIES 240 F

- Size Available:** Inlet Diam. from DN 1" up to DN 2"
Outlet Diam. from DN 1-1/2" up to DN 2-1/2"
- Connection:** Threaded GAS, NPT
- Type of Seat:** Semi-Nozzle
Full Nozzle (version 240bF)
- Set Pressure Range:** 0,25 ÷ 40 bar
- Temperature Range:** -196°C ÷ +537°C
- Materials available:** Carst Iron, Carbon Steel, St.St.
- Suitable for:** Steam, Gases and Liquids
- Approvals:** PED, ATEX, RINA, B.V., G.L, GOST-R
- Option Available:** Lifting Device, Bellows, Soft Seat, Test Gag, Limit Switch



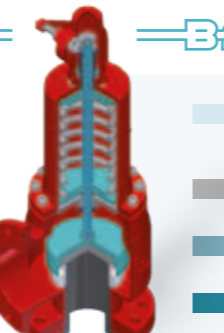
SERIES 240 Tb or bt

- Size Available:** Inlet Diam. from DN 25 (1") up to DN 150 (6")
Outlet Diam. from DN 40 (1-1/2") up to DN 250 (12")
- Connection:** Flanged PN 16÷40 ; ANSI 150÷300
- Type of Seat:** Semi-Nozzle lining PFA
Full Nozzle fully in PTFE
- Set Pressure Range:** 0,25 ÷ 16 bar
- Temperature Range:** -196°C ÷ +200°C
- Materials available:** Carbon Steel, St.St. both lining in PFA or PVDF
- Suitable for:** Steam, Gases and Liquids
- Approvals:** PED, ATEX, GOST-R
- Option Available:** Lifting Device, Bellows, Nozzle and Disc in different kind of materials



SERIES 260

- Size Available:** Inlet Diam. from DN 25 (1") up to DN 100 (4")
Outlet Diam. from DN 40 (1-1/2") up to DN 150 (6")
- Connection:** Flanged PN 40÷16/250 ; ANSI 150÷600/1500
- Type of Seat:** Full Nozzle
- Set Pressure Range:** 3 ÷ 400 bar
- Temperature Range:** -196°C ÷ +537°C
- Materials available:** Carbon Steel, Alloy Steel, St.St.
- Suitable for:** Steam, Gases and Liquids
- Approvals:** PED, ATEX, RINA, GOST-R, PRS
- Option Available:** Lifting Device, Bellows, Soft Seat, Test Gag, Limit Switches



SERIES 290

- Size Available:** Inlet Diam. from DN 25 (1") up to DN 200 (8")
Outlet Diam. from DN 50 (2") up to DN 250 (10")
- Orifice Available:** From D to T with adjusting ring
- Connection:** Flanged ANSI 150÷2500
- Type of Seat:** Full-Nozzle
- Set Pressure Range:** 0,5 ÷ 300 bar
- Temperature Range:** -196°C ÷ +538°C
- Materials available:** Carbon Steel, LCB, ASTM A351CF8M, CF3M
- Suitable for:** Steam, Gases and Liquids
- Approvals:** PED, ATEX, GOST-R, PRS
- Option Available:** Lifting Device, Bellows, Damper, Piston, Soft Seat, Test Gag, Conformity to NACE, EN flanges

OPTIONS AVAILABLE

FULL-NOZZLE > PTFE > 316 St.St. > Duplex > SuperDuplex > Monel > Hastelloy > Aluminium-Bronze	BELLOWS > 316 St.St. > Inconel X625 > PTFE > Viton > NBR > EPDM	RESILIENT SEAT > PTFE > PEEK > Viton > NBR > EPDM	BODY VALVES > Cast Iron G250 > ASTM A216 WCB > ASTM A217 WC6 > ASTM A351 CF8M > ASTM A351 CF3M > ASTM A352 LCB
SPRING > 316 St.St. > Tungsteno > Inconel	LINING > PFA > PTFE > PVDF	RUPTURE DISC ASSEMBLED BELOW THE S.V.	HEATING JACKET > 316 St.St.
PNEUMATIC ACTUATOR	DAMPER SYSTEM against the vibration	LIMIT SWITCHES	TEST GAG

Valve Type	CONNECTIONS		BONNET TYPE		NOZZLE TYPE		MAX SET PRESSURE (bar)	ACCORDING TO		APPLICATION		APPROVED BY
	Flanged	Threaded	Open	Closed	Full	Semi		EN4126	API526	Gaseous	Liquid	
SERIES 130 LOW FLOW RATE, FLANGED VALVES												
131	✓			✓			40	✓		✓	✓	PED, ATEX, RINA, GOST-R, RTN
132	✓		✓				40	✓		✓	✓	PED, GOST-R, RTN
131b	✓			✓	✓		4	✓		✓	✓	PED, ATEX, RINA, GOST-R, RTN
132b	✓		✓		✓		40	✓		✓	✓	PED, GOST-R, RTN
SERIES 139 LOW FLOW RATE, THREADED VALVES AND WITH SLIPON FLANGES												
139	✓	✓		✓	✓		500	✓		✓	✓	PED, ATEX, RINA, GOST-R, RTN
SERIES 249 HIGH FLOW RATE, THREADED VALVES AND WITH SLIPON FLANGES												
249	✓	✓		✓	✓		500	✓		✓	✓	PED, ATEX, RINA, GOST-R, RTN
SERIES 240 HIGH FLOW RATE, THREADED AND FLANGED VALVES												
241	✓			✓		✓	40	✓		✓	✓	PED, ATEX, RINA, G.L, B.V., GOST-R, RTN
242	✓		✓			✓	40	✓		✓	✓	PED, GOST-R, RTN
241b	✓			✓	✓		40	✓		✓	✓	PED, ATEX, RINA, G.L, B.V., GOST-R, RTN
242b	✓		✓		✓		40	✓		✓	✓	PED, GOST-R, RTN
241T	✓			✓		✓	10	✓		✓	✓	PED, GOST-R, RTN
241bT-Tb	✓			✓	✓		16	✓		✓	✓	PED, GOST-R, RTNN
241F		✓		✓		✓	40	✓		✓	✓	PED, ATEX, RINA, G.L, B.V., GOST-R, RTN
242F		✓	✓			✓	40	✓		✓	✓	PED, GOST-R, RTN
241bF		✓		✓	✓		40	✓		✓	✓	PED, ATEX, RINA, G.L, B.V., GOST-R, RTN
242bF		✓	✓		✓		40	✓		✓	✓	PED, GOST-R, RTN
SERIES 250 HIGH FLOW RATE, FLANGED VALVES												
251	✓			✓		✓	160	✓		✓	✓	PED, ATEX, RINA, GOST-R, RTN
252	✓		✓			✓	160	✓		✓	✓	PED, GOST-R, RTN
SERIES 260 HIGH FLOW RATE, FLANGED VALVES												
261	✓			✓	✓		400 dn25	✓		✓	✓	PED, ATEX, RINA, GOST-R, RTN
262	✓		✓		✓		400 dn 25	✓		✓	✓	PED, GOST-R, RTN
SERIES 271 PFA LINED VALVES (HIGH THICKNESS), FLANGED VALVES												
271	✓			✓	✓		16	✓		✓	✓	PED, ATEX
SERIES 280 HIGH FLOW RATE, FLANGED VALVES, IN ACCORDANCE WITH API 526 (WITHOUT ADJUSTING RING)												
281	✓			✓	✓		250	✓		✓	✓	PED, ATEX, GOST-R, RTN
282	✓		✓		✓		250	✓		✓	✓	PED, GOST-R, RTN
SERIES 290 HIGH FLOW RATE, FLANGED VALVES ;IN ACCORDANCE WITH API 526 (WITH ADJUSTING RING)												
291	✓			✓	✓		250	✓		✓	✓	PED, ATEX, GOST-R, RTN
292	✓		✓		✓		250	✓		✓	✓	PED, GOST-R, RTN