



Oil & Gas



Power &  
Energy



Ship Building



LNG & LPG



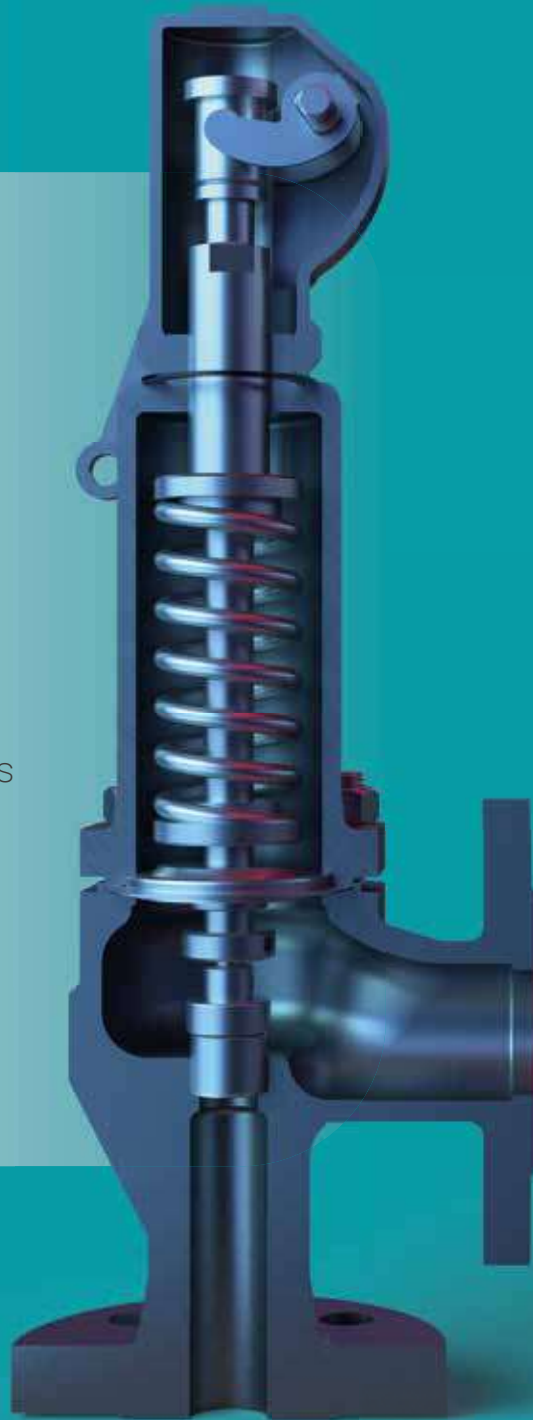
Chemicals &  
Petrochemicals



Boiler  
Manufacturer



Process  
Industries



# BESA

our solutions on safety valves

# 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 headquarter, 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.



## BESA CERTIFICATIONS AND APPROVALS

QUALITY SYSTEM > ISO 9001:2015

### PRODUCT MANUFACTURED IN ACCORDANCE WITH

- > EN 4126-1
- > EN 12516
- > API 526
- > ASME B16.34

### PRODUCT APPROVED BY

- > INAIL (EX ISPEL)
- > PED 2014/68/EU
- > ATEX 2014/34/EU
- > RINA
- > DNV
- > BUREAU VERITAS
- > EAC
- > UKCA

### SIZING CODES AVAILABLE

- > ISPEL Collection E, H, R
- > EN 4126-7
- > API 520 Part. I
- > ASME sect.VIII div.1
- > AD Merkblatt A2
- > GOST 12.2.085-2017

## MAINTENANCE ACTIVITIES

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



## 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 G250, Carbon Steel, St.St.
- Suitable for:**  
Steam, Gases and Liquids
- Approvals:**  
PED, ATEX, RINA, EAC, UKCA
- Option Available:**  
Lifting Device, Bellows, Soft Seat,  
Heating Jacket, Test G ag, Limit Switch



## 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:**  
Carbon Steel, St.St.
- Suitable for:**  
Steam, Gases and Liquids
- Approvals:**  
PED, ATEX, RINA, EAC, UKCA
- Option Available:**  
Lifting Device, Soft Seat, Test Gag, Limit switch, Bellow



## 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 ÷ 500 bar
- Temperature Range:**  
-196 ÷ +300°C
- Materials available:**  
Carbon Steel, St.St.
- Suitable for:**  
Steam, Gases and Liquids
- Approvals:**  
PED, ATEX, RINA, EAC, UKCA
- 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 ÷ +537°C
- Materials available:**  
Cast Iron G250, Carbon Steel, St.St.
- Suitable for:**  
Steam, Gases and Liquids
- Approvals:**  
PED, ATEX, RINA, B.V., DNV, EAC, UKCA
- Option Available:**  
Lifting Device, Soft Seat, Test Gag, Limit Switch,  
Bellow



## 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 ÷ +537°C
  - Materials available:**  
Cast Iron G250, Carbon Steel, St.St.
  - Suitable for:**  
Steam, Gases and Liquids
  - Approvals:**  
PED, ATEX, RINA, B.V., DNV, EAC, UKCA
  - Option Available:**  
Lifting Device, Bellows, Soft Seat, Heating Jacket,  
Test Gag, Limit Switch, Balance Piston
- (\*) 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+250 ; ANSI 150+1500
- Type of Seat:**  
Semi-Nozzle
- Set Pressure Range:**  
3 ÷ 160 bar
- Temperature Range:**  
-196 ÷ +537°C
- Materials available:**  
Carbon Steel, Alloy Steel, St.St.
- Suitable for:**  
Steam, Gases and Liquids
- Approvals:**  
PED, ATEX, RINA, EAC, UKCA
- 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 (10")
- 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 + +200°C
- Materials available:**  
Carbon Steel, St.St. both lining in PFA or PVDF
- Suitable for:**  
Steam, Gases and Liquids
- Approvals:**  
PED, ATEX, EAC, UKCA
- Option Available:**  
Nozzle and Disc in different kind of materials,  
Limit Switch, Test Gag



## 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+250; ANSI 150+1500
- Type of Seat:**  
Full Nozzle
- Set Pressure Range:**  
3 + 400 bar
- Temperature Range:**  
-196 + +537°C
- Materials available:**  
Carbon Steel, Alloy Steel, St.St.
- Suitable for:**  
Steam, Gases and Liquids
- Approvals:**  
PED, ATEX, RINA, EAC, UKCA
- Option Available:**  
Lifting Device, Bellows, Soft Seat, Test Gag,  
Limit Switch



## 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 + +538°C
- Materials available:**  
ASTM A216WCB, ASTM A352LCB, ASTM A351CF8M-CF3M
- Suitable for:**  
Steam, Gases and Liquids
- Approvals:**  
PED, ATEX, EAC, UKCA
- Option Available:**  
Lifting Device, Bellows, Damper, Balance Piston, Soft Seat,  
Test Gag, Conformity to NACE, EN flanges, Limit Switch



## 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 + +200°C
- Materials available:**  
Carbon Steel, St.St. all with PFA Lining
- Suitable for:**  
Steam, Gases and Liquids
- Approvals:**  
PED, ATEX, EAC, UKCA
- Option Available:**  
Disc in Glass or other special materials,  
Limit Switch, Test Gag



## 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 + +538°C
- Materials available:**  
ASTM A216WCB, ASTM A352LCB, ASTM A351CF8M-CF3M
- Suitable for:**  
Steam, Gases and Liquids
- Approvals:**  
PED, ATEX, EAC, UKCA
- Option Available:**  
Lifting Device, Bellows, Damper, Balance Piston, Soft Seat,  
Test Gag, Conformity to NACE, EN flanges, Limit switch

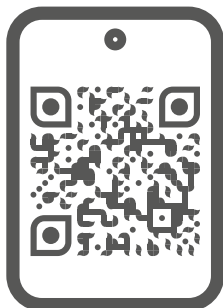
## OPTIONS AVAILABLE

<b>FULL-NOZZLE</b> <ul style="list-style-type: none"> <li>&gt; PTFE</li> <li>&gt; Stainless Steel</li> <li>&gt; Duplex</li> <li>&gt; SuperDuplex</li> <li>&gt; Monel</li> <li>&gt; Hastelloy</li> <li>&gt; Aluminium-Bronze</li> <li>&gt; TITANIUM</li> </ul>	<b>BELLOWS</b> <ul style="list-style-type: none"> <li>&gt; Stainless Steel</li> <li>&gt; Inconel X625</li> <li>&gt; PTFE</li> <li>&gt; Viton</li> <li>&gt; NBR</li> <li>&gt; EPDM</li> </ul>	<b>RESILIENT SEAT</b> <ul style="list-style-type: none"> <li>&gt; PTFE</li> <li>&gt; Peek</li> <li>&gt; Viton</li> <li>&gt; NBR</li> <li>&gt; EPDM</li> <li>&gt; KALREZ</li> </ul>	<b>BODY VALVES</b> <ul style="list-style-type: none"> <li>&gt; Cast Iron G250</li> <li>&gt; ASTM A216WCB</li> <li>&gt; ASTM A217WC6</li> <li>&gt; ASTM A351CF8M</li> <li>&gt; ASTM A351CF3M</li> <li>&gt; ASTM A352LCB</li> <li>&gt; ASTM A494CX2MW</li> </ul>
<b>SPRING</b> <ul style="list-style-type: none"> <li>&gt; ALLOY STEEL</li> <li>&gt; Stainless Steel</li> <li>&gt; Tungsteno</li> <li>&gt; Inconel</li> </ul>	<b>LINING</b> <ul style="list-style-type: none"> <li>&gt; PFA</li> <li>&gt; PTFE</li> <li>&gt; PVDF</li> </ul>	<b>RUPTURE DISC</b> Assembled below the safety valve	<b>HEATING JACKET</b> <ul style="list-style-type: none"> <li>&gt; Stainless Steel</li> <li>&gt; ASTM A494CW12MW</li> </ul>
<b>DAMPER SYSTEM</b> against the vibration	<b>INDUCTIVE LIMIT SWITCH</b>	<b>TEST GAG</b>	

# VALVE SELECTION GUIDE

Valve Type	CONNECTIONS		BONNET TYPE		NOZZLE TYPE		MAX SET PRESSURE	ACCORDING TO		APPLICATION		APPROVED BY
	Flanged	Threaded	Open	Closed	Full	Semi	(bar)	EN4126	API526	Gaseous	Liquid	
SERIES 130 LOW FLOW RATE, FLANGED VALVES												
131	✓			✓		✓	40	✓		✓	✓	PED, ATEX, RINA, EAC, UKCA
132	✓		✓			✓	40	✓		✓		PED, EAC, UKCA
131b	✓			✓	✓		4	✓		✓	✓	PED, ATEX, RINA, EAC, UKCA
132b	✓		✓		✓		40	✓		✓		PED, EAC, UKCA
SERIES 139 LOW FLOW RATE, THREADED VALVES AND WITH SLIPON FLANGES												
139	✓	✓		✓	✓		500	✓		✓	✓	PED, ATEX, RINA, EAC, UKCA
SERIES 249 HIGH FLOW RATE, THREADED VALVES AND WITH SLIPON FLANGES												
249	✓	✓		✓	✓		500	✓		✓	✓	PED, ATEX, RINA, EAC, UKCA
SERIES 240 HIGH FLOW RATE, THREADED AND FLANGED VALVES												
241	✓			✓		✓	40	✓		✓	✓	PED, ATEX, RINA, GL, BV, EAC, UKCA
242	✓		✓			✓	40	✓		✓		PED, EAC, UKCA
241b	✓			✓	✓		40	✓		✓	✓	PED, ATEX, RINA, GL, BV, EAC, UKCA
242b	✓		✓		✓		40	✓		✓		PED, EAC, UKCA
241T	✓			✓		✓	10	✓		✓	✓	PED, EAC, UKCA
241bT-Tb	✓			✓	✓		16	✓		✓	✓	PED, EAC, UKCA
241F		✓		✓		✓	40	✓		✓	✓	PED, ATEX, RINA, GL, BV, EAC, UKCA
242F		✓	✓			✓	40	✓		✓		PED, EAC, UKCA
241bF		✓		✓	✓		40	✓		✓	✓	PED, ATEX, RINA, GL, BV, EAC, UKCA
242bF		✓	✓		✓		40	✓		✓		PED, EAC, UKCA
SERIES 250 HIGH FLOW RATE, FLANGED VALVES												
251	✓			✓		✓	160	✓		✓	✓	PED, ATEX, RINA, EAC, UKCA
252	✓		✓			✓	160	✓		✓		PED, EAC, UKCA
SERIES 260 HIGH FLOW RATE, FLANGED VALVES												
261	✓			✓	✓		400 DN25	✓		✓	✓	PED, ATEX, RINA, EAC, UKCA
262	✓		✓		✓		400 DN25	✓		✓		PED, EAC, UKCA
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, EAC, UKCA
282	✓		✓		✓		250		✓	✓		PED, EAC, UKCA
SERIES 290 HIGH FLOW RATE, FLANGED VALVES ;IN ACCORDANCE WITH API 526 (WITH ADJUSTING RING)												
291	✓			✓	✓		250		✓	✓	✓	PED, ATEX, EAC, UKCA
292	✓		✓		✓		250		✓	✓		PED, EAC, UKCA

## BESA ID



All valves delivered will be accompanied by an additional plate in St.St.316L attached to the valve with a QR code printed on, which will determine its digital identity.

This will allow any user, equipped with a mobile device with data connections (smartphone, tablet, phablet), to display, by reading the QR code, the original test certificate 3.1 of the safety valve.

### The advantages of the QR code

- Speed: a simple scan of the QR code is enough
- Simplicity: the link leads directly to all documents
- Practicality: no more filing and tedious searching
- Accuracy: the BESA certificate is constantly updated
- Ecology: no more printing of documents



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