ZIMMERLI MESSTECHNIK AG

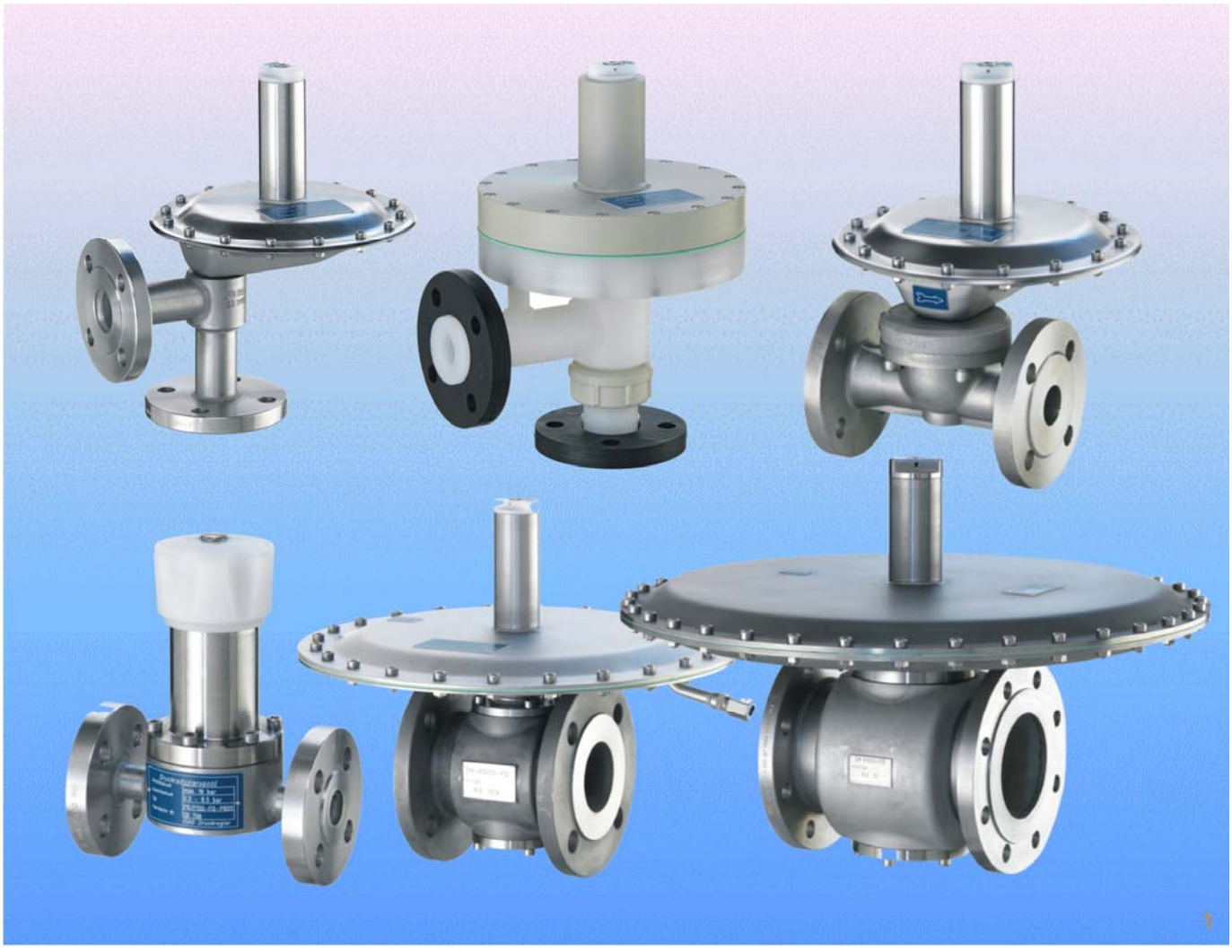
Schlossgasse 10 CH-4125 Riehen Phone: +41 61 645 98 00 Fax: +41 61 645 98 01 info@zimmerli-inert.com www.zimmerli-inert.com

IDAG pressure controls

+/- mbar

Do not accept compromises!

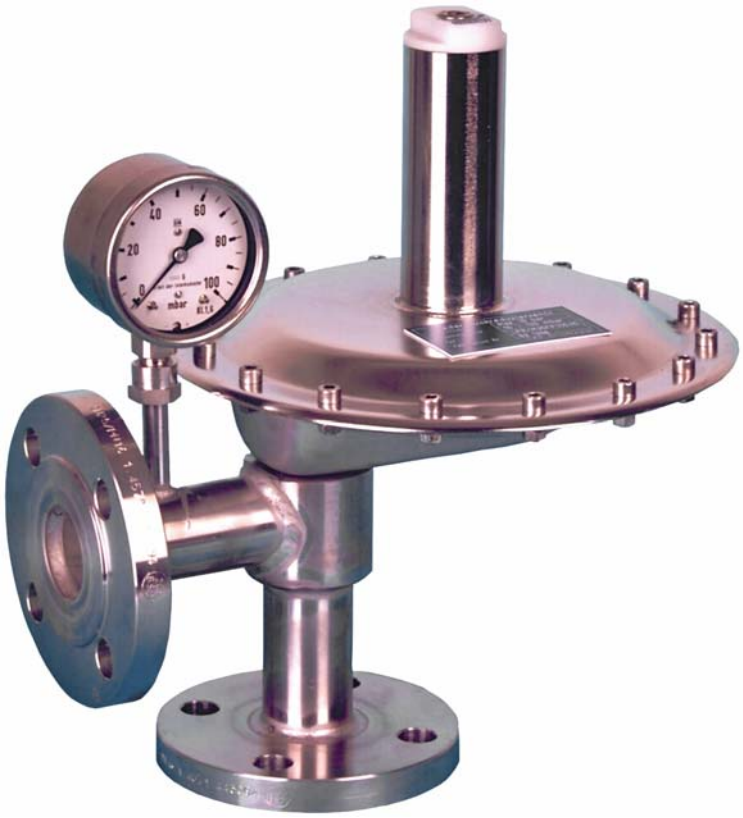
- Low pressure control
- Pressure relief valve
- Pressure control valve
- Reflux blocking valve
- Vacuum limiter

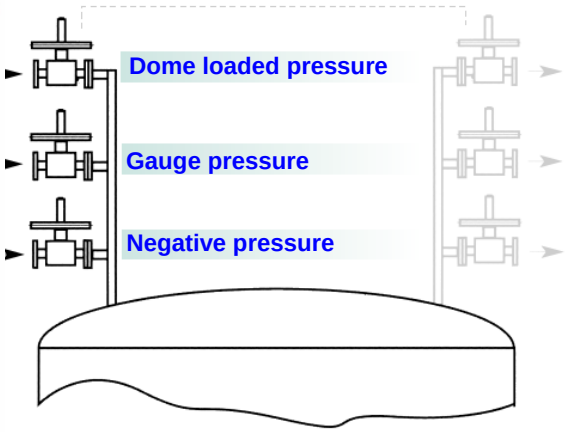


Details: http://www.zimmerli-inert.com/en.html

Low pressure elbow valves *+/-mbar*

LPR25 *DN25 PN10*





User benefits

- High-precision low pressure reduction
- Decrease of waste gases by up to 90%
- Reduction of blanket gas consumption
- No external power supply needed
- Fast amortization
- Virtually maintenance-free
- Standard of Clean Air Act / Technical Instructions on Air Quality Control
- Seat / Kv: 0.15 ... 1.25
- -850 mbar ... +2520 mbar bar
  (details on request or as per data sheet)

Inertization, blanketing …

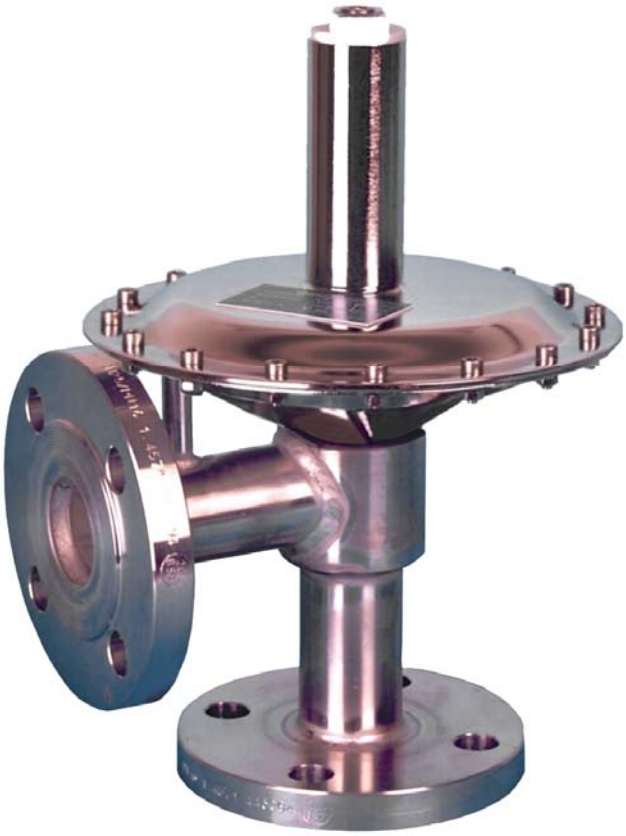
Low pressure elbow valves are applied where blanketing of e.g. nitrogen in tanks, plants, reaction vessels, centrifuges or receivers is required and a pipe bend should be saved at the same time.
Low pressure elbow valves function without any external power supply. They control pressure within the mbar range and are usually used together with a relief valve. Input and output controls are adjusted in such a way that a minimum amount of inert gas is used.
Low pressure elbow valves control the secondary pressure (p2, behind the valve) and meter the blanket and inert gases to isolate processes against contamination with air or oxygen.

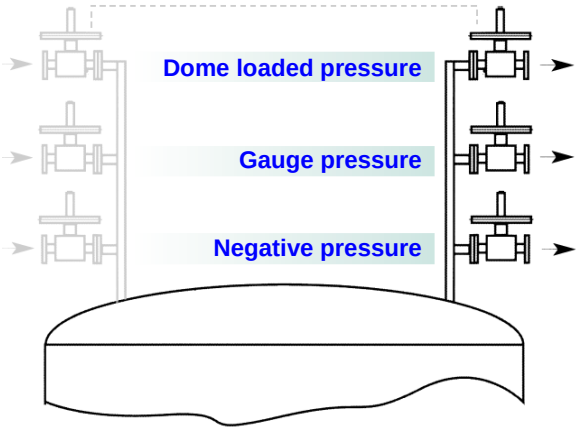
SST, Hastelloy C and plastic designs are available for
- Dome load / high pressure blanketing
- Gauge pressure / standard blanketing and
- Negative pressure / vacuum blanketing

Details: http://www.zimmerli-inert.com/en/elbow-valves.html

Relief elbow valves / back pressure valves *+/-mbar*

LPS25 *DN25 PN10*





User benefits

- Safe low pressurization
- Decrease of waste gases by up to 90%
- Reduction of blanket gas consumption
- No external power supply needed
- Fast amortization
- Virtually maintenance-free
- Standard of Clean Air Act / Technical Instructions on Air Quality Control
- Seat / Kv: 6.5
- -850 mbar ... +2500 mbar
  (details on request or as per data sheet)

Inertization, blanketing …

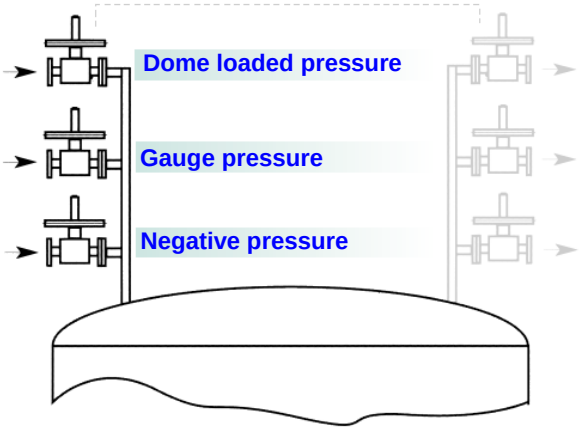
Relief elbow valves / back pressure relief valves are applied where blanketing of e.g. nitrogen in tanks, plants, reaction vessels, centrifuges or receivers is required and a pipe bend should be saved at the same time.
Relief elbow valves / back pressure relief valves function without any external power supply. They control pressure within the mbar range and are usually used in combination with a reducing valve thus minimizing inert gas consumption.
Relief elbow valves control the primary pressure (p1, in front of the valve) and meter the blanket and inert gases to protect against contamination with air or oxygen etc.

SST, Hastelloy C and plastic designs are available for
- Dome load / high pressure blanketing
- Gauge pressure / standard blanketing and
- Negative pressure / vacuum blanketing

Details: http://www.zimmerli-inert.com/en/elbow-valves.html

Low pressure inline controllers *+/-mbar*

ZM-R15	*DN15*	*PN16*
ZM-R25	*DN25*	*PN16*
ZM-R50	*DN50*	*PN16*
ZM-R100	*DN100*	*PN16*



User benefits

- High-precision low pressure reduction
- Decrease of waste gases by up to 90%
- Reduction of blanket gas consumption
- No external power supply needed
- Fast amortization
- Virtually maintenance-free
- Standard of Clean Air Act / Technical Instructions on Air Quality Control
- Seat / Kv: 0.15 … 70
- -850 mbar ... +2500 mbar
  (details on request or as per data sheet)

Inertization, blanketing …

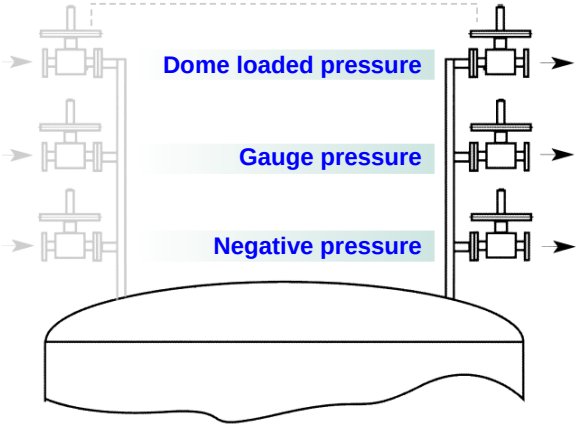
These low pressure inline controllers are applied where blanketing of e.g. nitrogen in tanks, plants, reaction vessels, centrifuges or receivers is required.
Low pressure inline controllers function without any external power supply. They control pressure within the mbar range and are usually used together with a relief valve. Input and output controllers are adjusted in such a way that a minimum amount of inert gas is used.
Low pressure inline controllers regulate the secondary pressure (p2, behind the valve) and meter the blanket and inert gases to isolate processes against contamination with air or oxygen.

Designs in SST and Hastelloy C are available for
- Dome load / high pressure blanketing
- Gauge pressure / standard blanketing and
- Negative pressure / vacuum blanketing

Details: http://www.zimmerli-inert.com/en/inline-valves.html

Relief inline valves / back pressure valves *+/-mbar*

ZM-B15	*DN15*	*PN16*
ZM-B25	*DN25*	*PN16*
ZM-B50	*DN50*	*PN16*
ZM-B100	*DN100*	*PN16*



User benefits

- Safe low pressurization
- Decrease of waste gases by up to 90%
- Reduction of blanket gas consumption
- No external power supply needed
- Fast amortization
- Virtually maintenance-free
- Standard of Clean Air Act / Technical Instructions on Air Quality Control
- Seat / Kv: 6.5 … 70
- -850 mbar ... +2500 mbar
  (details on request or as per data sheet)

Inertization, blanketing …

These relief inline valves / back pressure relief valves are applied where blanketing of e.g. nitrogen in tanks, plants, reaction vessels, centrifuges or receivers is required.
Relief inline valves / back pressure relief valves function without any external power supply. They control pressure within the mbar range and are often used in combination with a reducing valve. Input and output controllers are adjusted in such a way that a minimum amount of inert gas is used.
Relief inline valves / back pressure relief valves control the primary pressure (p1, in front of the valve) and meter the blanket and inert gases to protect against contamination with air or oxygen etc.

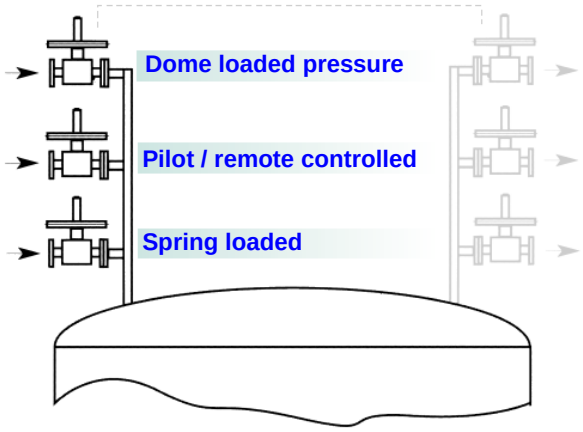
Designs in SST and Hastelloy C are available for
- Dome load / high pressure blanketing
- Gauge pressure / standard blanketing and
- Negative pressure / vacuum blanketing

Details: http://www.zimmerli-inert.com/en/inline-valves.html

Medium pressure controllers

0-16/40 bar

PR15	DN15	PN40
PR25	DN25	PN40
PR50	DN50	PN16
PR100	DN100	PN16



User benefits

- Precise pressure reduction
- SST or Hastelloy C
- Long-term stability
- Robust
- Very long life cycles
- Permits high flow rates
- Seat / Kv: 1.5 … 70
- 0 ... 16 / 40 bar
  (details on request or as per data sheet)

For gases and liquids…

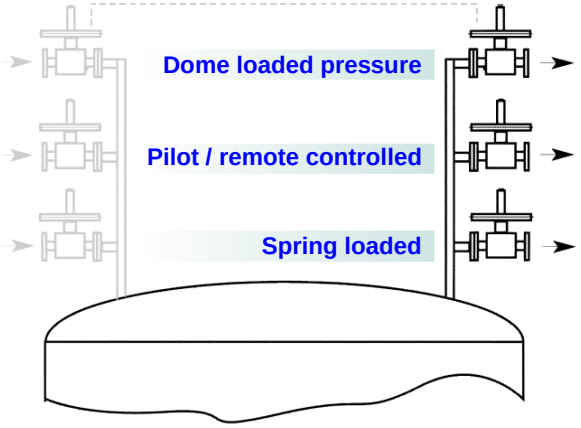
PR series are ideal medium pressure controllers for gases and liquids. The automatic controllers are used wherever pressure has to be kept constant or limited.
PR series medium pressure controllers are very easy to handle and maintain. They are primarily used in the chemical, pharmaceutical and food industry and applied in all industries demanding high corrosion resistance.
PR series medium pressure controllers regulate the secondary pressure (p2, behind the valve).

The following functional designs in SST and Hastelloy C are available:
- Dome loaded
- Dome loaded with pilot control
- Dome loaded with remote control
- Spring loaded

Details: http://www.zimmerli-inert.com/en/p-valve-series.html

Medium pressure / back pressure valve *0-16/40 bar*

PPR15	*DN15*	*PN40*
PPR25	*DN25*	*PN40*
PPR50	*DN50*	*PN16*
PPR100	*DN100*	*PN16*



User benefits

- Safe pressurization
- SST or Hastelloy C
- Long-term stability
- Robust
- Very long life cycles
- Permits high flow rates
- Seat / Kv: 1.5 … 70
- 0 ... 16 / 40 bar
  (details on request or as per data sheet)

For gases and liquids…

Medium pressure / back pressure relief valves are used wherever gases or liquids should be kept at a constant pressure.
Medium pressure / back pressure relief valves function without any external power supply. They control pressure within the bar range and are usually used in combination with a reducing valve. Input and output controllers are respectively aligned to each other.
Medium pressure / back pressure relief valves control the primary pressure (p1, in front of the valve).

The following functional designs are available in SST and Hastelloy C:
- Dome loaded
- Dome loaded with pilot control
- Dome loaded with remote control
- Spring loaded

Details: http://www.zimmerli-inert.com/en/p-valve-series.html

Reflux blocking valve

0-16/40 bar

PRR15	DN15	PN40
PRR25	DN25	PN40
PRR50	DN50	PN16
PRR100	DN100	PN16

PRR series reflux blocking valves are automatic controllers to prevent gas and liquid refluxes and are applied where respective refluxes must be avoided under any circumstances.
The devices are especially designed for applications in reactors, centrifuges, storage tanks and process vessels in the chemical and pharmaceutical industry or for other plants.

The tightness corresponds at least to VDI/VDE 2174. The blocking valves may be checked according to their function without dismantling the device via optional service connections. PRR series are vacuum-proof, manufactured in designs free of oil and grease and do not require any external power supply. The devices are available in SST or Hastelloy C.

- Seat / Kv: 1.5 … 70
- 0 … 16 / 40 bar (details on request or as per data sheet)

Details: http://www.zimmerli-inert.com/en/p-valve-series/reflux-blocking-valve.html

Vacuum limiter

+/- mbar

ZM-B/L15	DN15	PN40
ZM-B/L25	DN25	PN40
ZM-B/L50	DN50	PN16
ZM-B/L100	DN100	PN16

Vacuum limiters are automatic controllers for vacuum prevention and are applied where respective plants must be protected. In case the process pressure is too low, air or another gas is sucked in via the air valves.
The devices are especially designed for applications in reactors, centrifuges, storage tanks and process vessels in the chemical and pharmaceutical industry or for other plants and are available in SST or Hastelloy C.

- Seat / Kv: 1.5 … 70
- 0 … 16 / 40 bar (details on request or as per data sheet)

Details: http://www.zimmerli-inert.com/en/inline-valves/vacuum-limiter.html

ZIMMERLI Messtechnik AG, Schlossgasse 10, CH-4125 Riehen
E-Mail: info@zimmerliag.com
Fon: +41 61 645 98 00
Fax: +41 61 645 98 01
www.zimmerli-inert.com
www.zimmerliag.com