

SET144/RQ

P₁max:360mbar
DN100



8

SET144/RQ

P₁max:360mbar
DN65
DN80



7

SET144/RQ

P₁max:200mbar
P₁max:360mbar
DN25



5-6

SET144/RQ

P₁max:200mbar
DN15
DN20



4

Fast Open Solenoid Valve

SET144/SQ

P₁max:360mbar
DN100



12

SET144/SQ

P₁max:360mbar
DN65
DN80



11

SET144/SQ

P₁max:360mbar
DN25



10

SET144/SQ

P₁max:360mbar
P₁max:200mbar
DN15
DN20



9

Slow Open Solenoid Valve

SET144/SQ

P₁max:360mbar
DN40
DN50



16

SET145/SQ

P₁max:200mbar
DN40



15

SET144/RQ

P₁max:360mbar
DN40
DN50



14

SET145/RQ

P₁max:200mbar
DN40



13

Fast & Slow Open Solenoid Valve

SET148/SQ

P₁max:200mbar
DN40
DN50



19

Two - Capacity solenoid valve for gas

SET147

P₁max:360mbar
DN20



18

Normally Open Solenoid Valve

SET146

P₁max:5bar
DN40
DN50



17

Manual Reset Shut Off Solenoid Valve

SET245

P₁max:500mbar
DN15
DN20
DN25



23

SET203

P₁max:170mbar
DN20



22

SET201

P₁max:170mbar
DN15



Regulators

SET151 SET150

P₁max:5bar
DN25



20-21

SET150

P₁max:500mbar



Relief Valve

SET251

P₁max:1bar
DN65
DN80



27

SET252H

P₁max:5bar
DN40
DN50



26

SET252

P₁max:2bar
DN40
DN50



25

SET250

P₁max:2bar
DN25



24

Regulators

SET286

P₁max:500mbar
DN65
DN80



29

SET285

P₁max:500mbar
DN40
DN50



28

SET282

P₁max:500mbar
DN25



28

Gas/Air Ratio Control

SET275

P₁max:5bar
DN40
DN50



33

SET275

P₁max:5bar
DN40
DN50



32

Max. Pressure Shut Off Valve

SET271

P₁max:5bar
DN40
DN50



31

Lever Hand

SET353

P₁max:2bar,5bar
DN40
DN50



34

SET345

P₁max:2bar,5bar
DN15
DN20
DN25



34

SET304

P₁max:2bar
DN20



34

Filters

SET852(H)

P₁max:2bar,5bar
DN40
DN50



36

Regulator+Max. Pressure Shut Off Valve

SET351

P₁max:2bar,5bar
DN65
DN80
DN100



35

Filters

SET293

P₁max:10bar



39

SET292

P₁max:1.4bar



38

SET291

P₁max:17bar



37

Regulator for LPG

LOCSET



Jan 2025



41

SET950X

DN25



40

SET954

DN40
DN50



40

Accessories

تقدم لا يتوقف



SETAAK Company with 28 years of experience in mass production, has started an endless path to progress and success. SETAAK Gas Burner Controls are produced following international standards under the supervision of the gas controls and metallurgy laboratories with advanced and calibrated testing equipment.

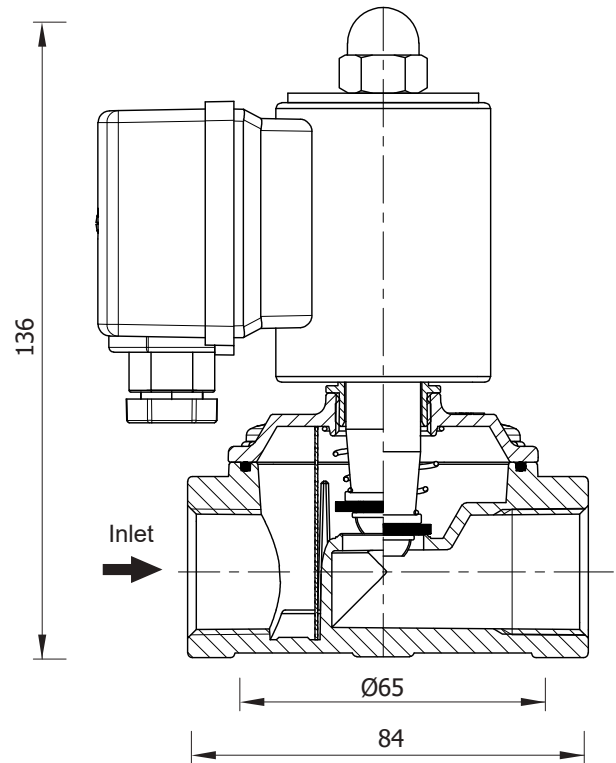
In addition, with more than 350 employees and dozens of specialized engineers, SETAAK has a strong research and development unit that has empowered the company to add at least 5 new products in the field of the Gas Line Controls to its product list for each year.



FAST OPENING SOLENOID VALVE

SET144/RQ

P_{1max}:200mbar/DN15,20



Normally Closed Automatic Fast Opening Solenoid Valve opens the flow of gas when the coil is electrically powered and closes when power is disconnected. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches.

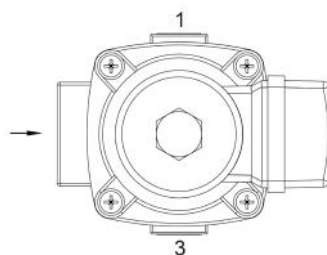
Specifications:

- INSO 6800 certification according to EN 161 – EN 13611
- Sealing force classification: A
- Mechanical resistance: Group 2
- Temperature range: -20 C to 60 C
- Gas type: NG, LPG, Town gas, AIR
- Supply voltage tolerance: -15% ... +10%
- Cable gland: PG09

- No. cycles/hour: ~1800 (ON time 1s - OFF time 1s)
- Energy saving: No
- Maximum operating pressure: 200 mbar
- Weight: 0.85 kg
- Opening time: <1 S
- Closing time: <1 S
- Protection rating: IP54
- Connections: DN15 (Rp 1/2), DN20 (Rp 3/4)
- Thread According to ISO 7-1, EN 10226
- Filtration element type: metal mesh according to INSO 6800

Supply Voltages	230 VAC,50-60Hz	***
	24 VAC,50-60Hz	According to order
	24 VDC	According to order

Example of ordering code	
Type	SET144
Fast opening(R) + adjustable Capacity (Q)	/RQ
Nominal size (Rp 3/4)	/DN20
Maximum operating pressure (200 mbar)	/020
Supply voltages	/A230
Status when off (Normally Closed)	/NC
Ordering code	SET144/RQ/DN20/020/A230/NC



Pressure Measuring Spots

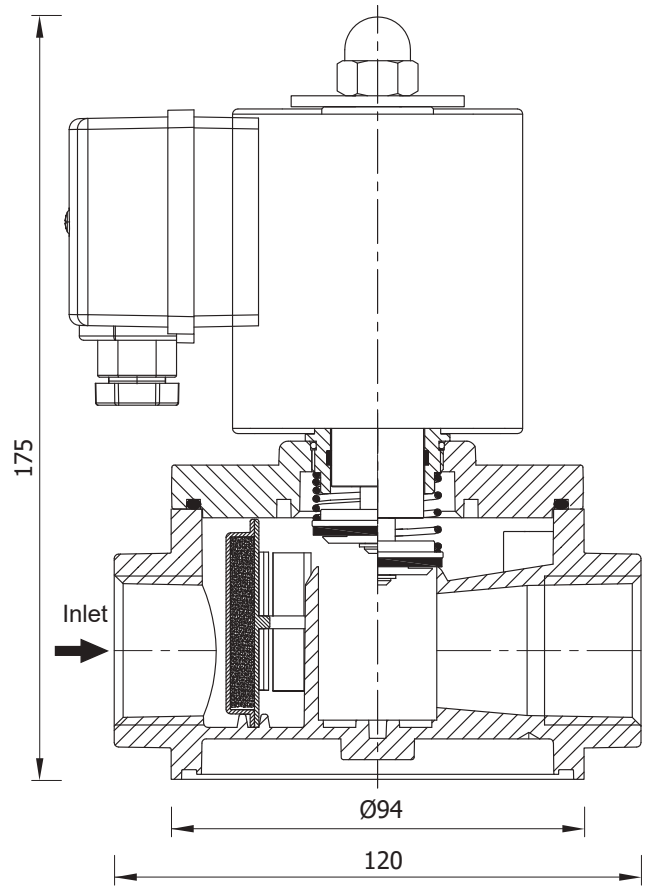
Use Connections (G1/4) instead Caps 1 or 3.

Top view (This is a schematic view)

FAST OPENING SOLENOID VALVE

SET144/RQ

P_{1max}:200mbar/DN25



Normally Closed Automatic Fast Opening Solenoid Valve opens the flow of gas when the coil is electrically powered and closes when power is disconnected. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches.

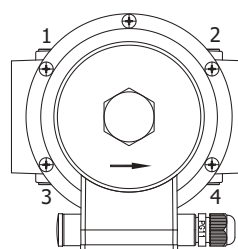
Specifications:

- INSO 6800 certification according to EN 161 – EN 13611
- Sealing force classification: A
- Mechanical resistance: Group 2
- Temperature range: -20 C to 60 C
- Gas type: NG, LPG, Town gas, AIR
- Supply voltage tolerance: -15% ... +10%
- Cable gland: PG09

- No. cycles/hour: ~1800 (ON time 1s - OFF time 1s)
- Energy saving: No
- Maximum operating pressure: 200 mbar
- Weight: 2 Kg
- Opening time: <1 S
- Closing time: <1 S
- Protection rating: IP54
- Connection: DN25 (Rp 1)
- Thread According to ISO 7-1, EN 10226
- Classification of filter: M5 (according to EN 779)

Supply Voltages	230 VAC,50-60Hz	***
	24 VAC,50-60Hz	According to order
	24 VDC	According to order

Example of ordering code	
Type	SET144
Fast opening(R) + adjustable Capacity (Q)	/RQ
Nominal size (Rp 1)	/DN25
Maximum operating pressure (200 mbar)	/020
Supply voltages	/A230
Status when off (Normally Closed)	/NC
Ordering code	SET144/RQ/DN25/020/A230/NC



Pressure Measuring Spots

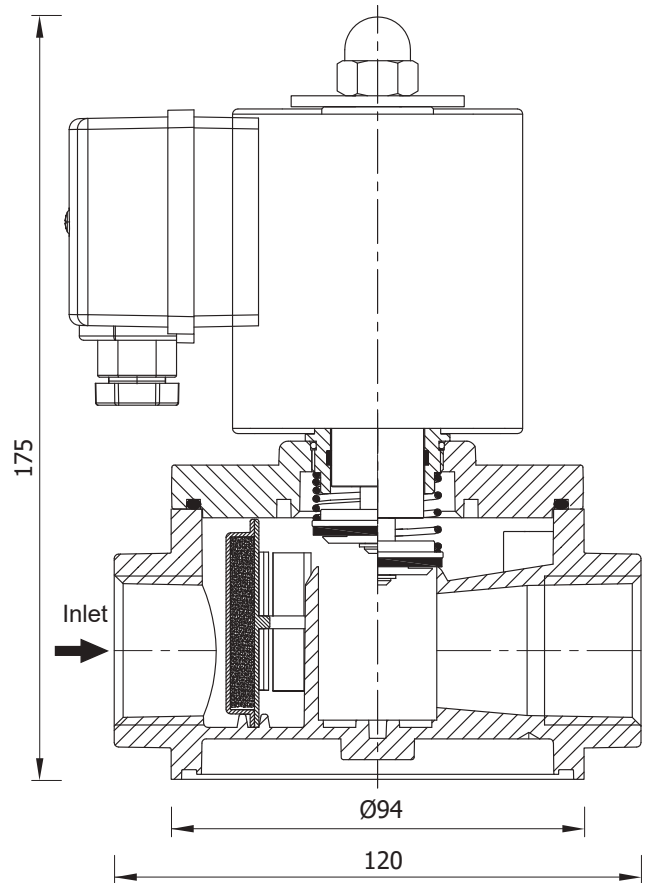
Use Connections (G1/4) instead Caps 1 or 3.

Top view (This is a schematic view)

FAST OPENING SOLENOID VALVE

SET144/RQ

P_{1max}:360mbar/DN25



Normally Closed Automatic Fast Opening Solenoid Valve opens the flow of gas when the coil is electrically powered and closes when power is disconnected. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches.

Specifications:

INSO 6800 certification according to EN 161 – EN 13611

Sealing force classification: A

Mechanical resistance: Group 2

Temperature range: -20 C to 60 C

Gas type: NG, LPG, Town gas, AIR

Supply voltage tolerance: -15% ... +10%

Cable gland: PG09

No. cycles/hour: ~1000 (ON time 1s - OFF time 2.5s)

Energy saving: Yes

Maximum operating pressure: 360 mbar

Weight: 2 Kg

Opening time: <1 S

Closing time: <1 S

Protection rating: IP54

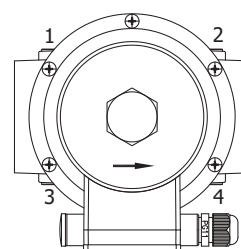
Connection: DN25 (Rp 1)

Thread According to ISO 7-1, EN 10226

Classification of filter: M5 (according to EN 779)

Supply Voltages	230 VAC,50-60Hz	***
	24 VAC,50-60Hz	According to order
	24 VDC	According to order

Example of ordering code	
Type	SET144
Fast opening(R) + adjustable Capacity (Q)	/RQ
Nominal size (Rp 1)	/DN25
Maximum operating pressure (360 mbar)	/036
Supply voltages	/A230
Status when off (Normally Closed)	/NC
Ordering code	SET144/RQ/DN25/036/A230/NC



Pressure Measuring Spots

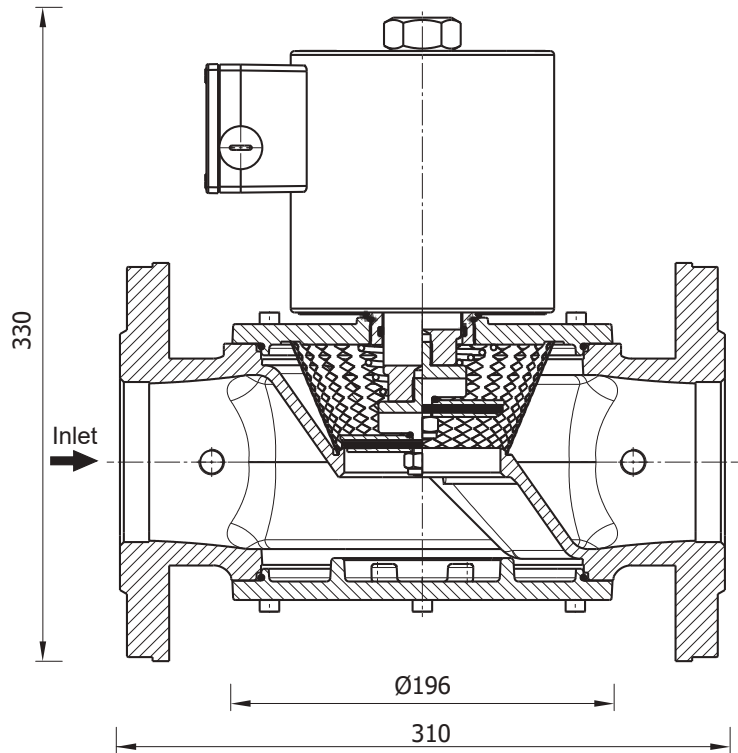
Use Connections (G1/4) instead Caps 1 or 3.

Top view (This is a schematic view)

FAST OPENING SOLENOID VALVE

SET144/RQ

P_{1max}:360mbar/DN65,80



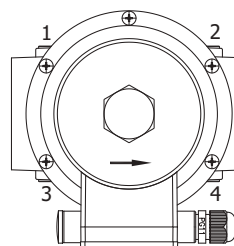
Normally Closed Automatic Fast Opening Solenoid Valve opens the flow of gas when the coil is electrically powered and closes when power is disconnected. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches.

Specifications:

- INSO 6800 certification according to EN 161 – EN 13611
- Sealing force classification: A
- Mechanical resistance: Group 2
- Temperature range: -20 C to 60 C
- Gas type: NG, LPG, Town gas, AIR
- Supply voltages: 230 V/50-60 Hz
- Supply voltage tolerance: -15% ... +10%
- Cable gland: PG 11

- No. cycles/hour: ~195 (ON time 5s - OFF time 13.5s)
- Energy saving: YES
- Maximum operating pressure: 360 mbar
- Weight: DN65: 13.7Kg DN80:14.2Kg
- Opening time: <1 S
- Closing time: <1 S
- Protection rating: IP65
- Connections: DN65, DN80
- Flange According to ISO 7005, DIN 1092-4
- Filtration element type: metal mesh according to INSO 6800

Example of ordering code	
Type	SET144
Fast opening(R) + adjustable Capacity (Q)	/RQ
Nominal size	/DN80
Maximum operating pressure (360 mbar)	/036
Supply voltages	/A230
Status when off (Normally Closed)	/NC
Ordering code	SET144/RQ/DN80/036/A230/NC

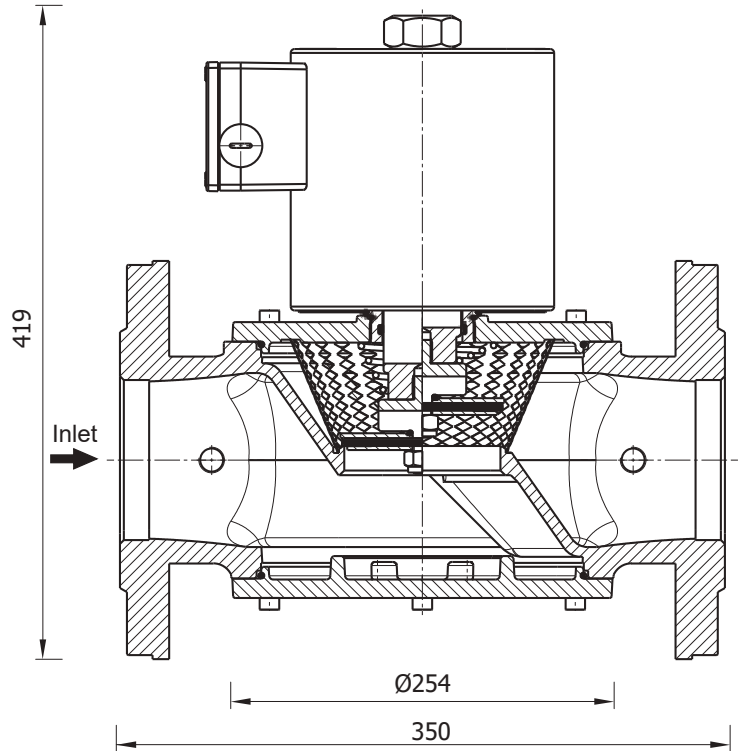


Pressure Measuring Spots
Use Connections (G1/4)
to measure pressure in all positions
Top view (This is a schematic view)

FAST OPENING SOLENOID VALVE

SET144/RQ

P_{1max}:360mbar/DN100



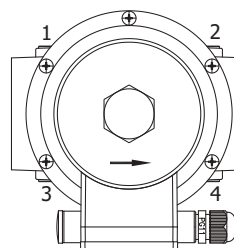
Normally Closed Automatic Fast Opening Solenoid Valve opens the flow of gas when the coil is electrically powered and closes when power is disconnected. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches.

Specifications:

- INSO 6800 certification according to EN 161 – EN 13611
- Sealing force classification: A
- Mechanical resistance: Group 2
- Temperature range: -20 C to 60 C
- Gas type: NG, LPG, Town gas, AIR
- Supply voltages: 230 V/50-60 Hz
- Supply voltage tolerance: -15% ... +10%
- Cable gland: PG 11

- No. cycles/hour: ~195 (ON time 5s - OFF time 13.5s)
- Energy saving: YES
- Maximum operating pressure: 360 mbar
- Weight: 31Kg
- Opening time: <1 S
- Closing time: <1 S
- Protection rating: IP65
- Connection: DN100
- Flange According to ISO 7005, DIN 1092-4
- Filtration element type: metal mesh according to INSO 6800

Example of ordering code	
Type	SET144
Fast opening(R) + adjustable Capacity (Q)	/RQ
Nominal size (Rp 4)	/DN100
Maximum operating pressure (360 mbar)	/036
Supply voltages	/A230
Status when off (Normally Closed)	/NC
Ordering code	SET144/RQ/DN100/036/A230/NC

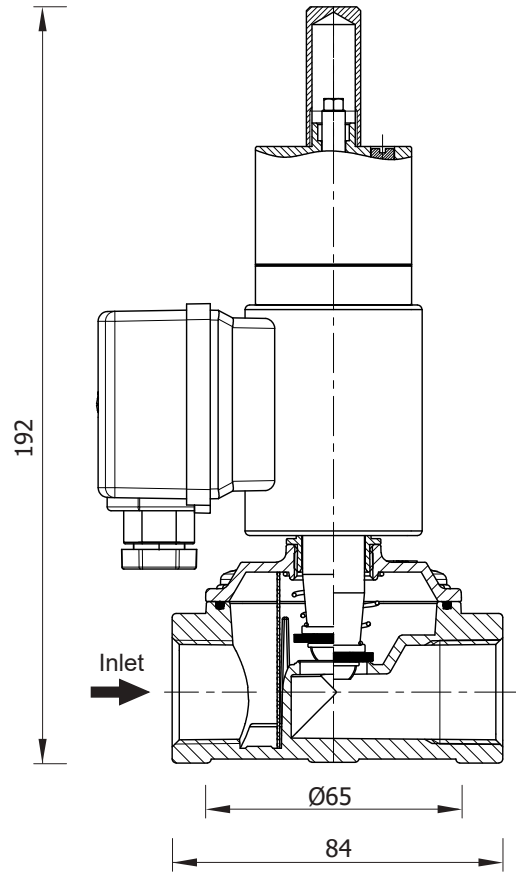


Pressure Measuring Spots
 Use Connections (G1/4)
 to measure pressure in all positions
 Top view (This is a schematic view)

SLOW OPENING SOLENOID VALVE

SET144/SQ

P1max:200mbar/DN15,20
 P1max:360mbar/DN15,20



Normally Closed Automatic Slow Opening Solenoid Valve opens the flow of gas when the coil is electrically powered and closes when power is disconnected. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches.

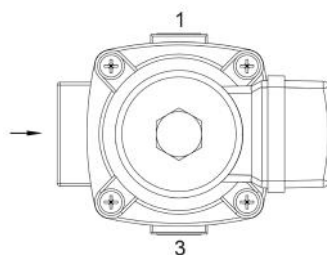
Specifications:

- INSO 6800 certification according to EN 161 – EN 13611
- Sealing force classification: A
- Mechanical resistance: Group 2
- Temperature range: -20 C to 60 C
- Gas type: NG, LPG, Town gas, AIR
- Supply voltage tolerance: -15% ... +10%
- Cable gland: PG 09

- No. cycles/hour: ~100 (ON time 10s - OFF time 25s)
- Energy saving: YES
- Maximum operating pressure: 200 mbar / 360 mbar
- Weight: 0.95 kg
- Opening time adjustment: between 0.5 and 30 seconds ± 20% (T= 25 °C / V=230V)
- Closing time: <1 S
- Protection rating: IP54
- Connections: DN15 (Rp 1/2), DN20 (Rp 3/4)
- Thread According to ISO 7-1, EN 10226
- Filtration element type: metal mesh according to INSO 6800

Supply Voltages	230 VAC,50-60Hz	***
	24 VAC,50-60Hz	According to order
	24 VDC	According to order

Example of ordering code	
Type	SET144
Slow opening(S) + adjustable Capacity (Q)	/SQ
Nominal size (Rp 1/2)	/DN15
Maximum operating pressure (360 mbar)	/036
Supply voltages	/A230
Status when off (Normally Closed)	/NC
Ordering code	SET144/SQ/DN15/036/A230/NC



Pressure Measuring Spots

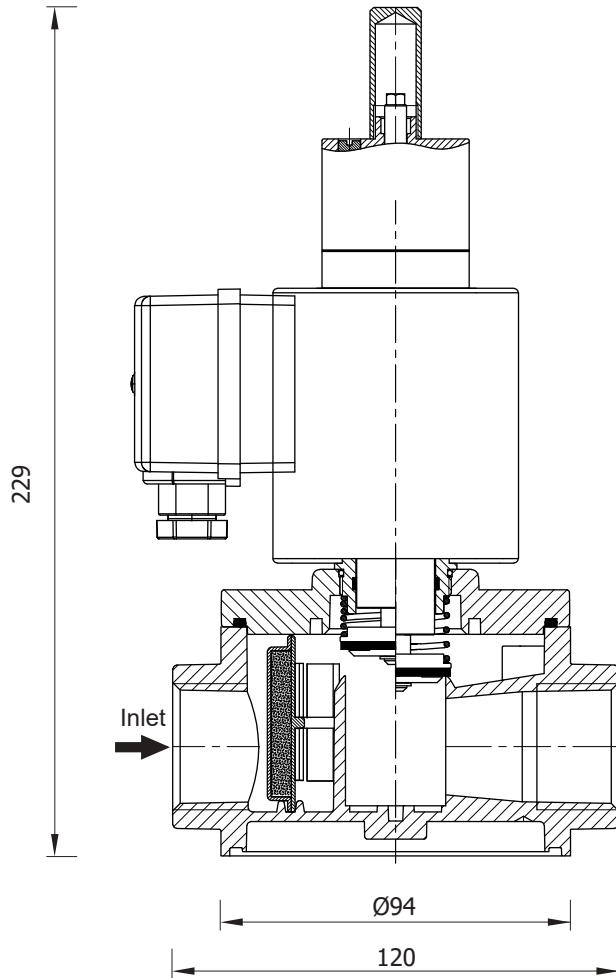
Use Connections (G1/4) instead Caps 1 or 3.

Top view (This is a schematic view)

SLOW OPENING SOLENOID VALVE

SET144/SQ

P_{1max}:360mbar/DN25



Normally Closed Automatic Slow Opening Solenoid Valve opens the flow of gas when the coil is electrically powered and closes when power is disconnected. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches.

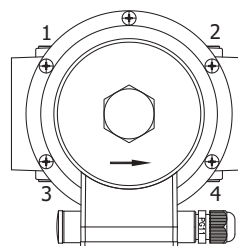
Specifications:

- INSO 6800 certification according to EN 161 – EN 13611
- Sealing force classification: A
- Mechanical resistance: Group 2
- Temperature range: -20 C to 60 C
- Gas type: NG, LPG, Town gas, AIR
- Supply voltage tolerance: -15% ... +10%
- Cable gland: PG 09

- No. cycles/hour: ~100 (ON time 10s - OFF time 25s)
- Energy saving: YES
- Maximum operating pressure: 360 mbar
- Weight: 2.2Kg
- Opening time adjustment: between 0.5 and 30 seconds ± 20% (T= 25 °C / V=230V)
- Closing time: <1 S
- Protection rating: IP54
- Connection: DN25 (Rp 1)
- Thread According to ISO 7-1, EN 10226
- Classification of filter: M5 (according to EN 779)

Supply Voltages	230 VAC,50-60Hz	***
	24 VAC,50-60Hz	According to order
	24 VDC	According to order

Example of ordering code	
Type	SET144
Slow opening(S) + adjustable Capacity (Q)	/SQ
Nominal size (Rp 1)	/DN25
Maximum operating pressure (360 mbar)	/036
Supply voltages	/A230
Status when off (Normally Closed)	/NC
Ordering code	SET144/SQ/DN25/036/A230/NC



Pressure Measuring Spots

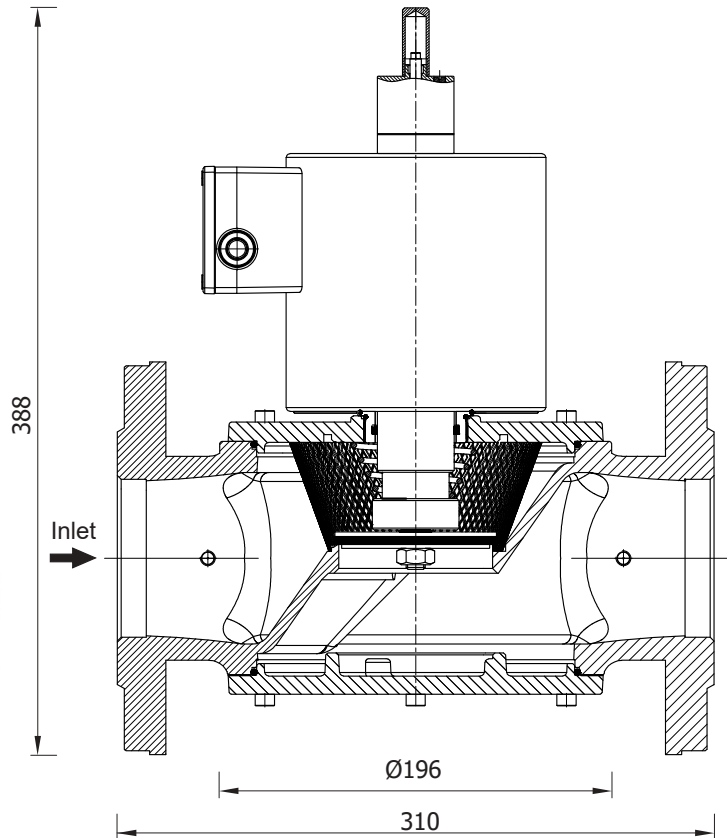
Use Connections (G1/4) instead Caps 1 or 3.

Top view (This is a schematic view)

SLOW OPENING SOLENOID VALVE

SET144/SQ

P_{1max}:360mbar/DN65,80



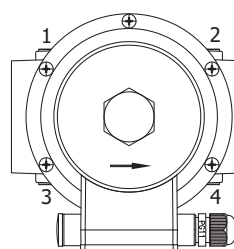
Normally Closed Automatic Slow Opening Solenoid Valve opens the flow of gas when the coil is electrically powered and closes when power is disconnected. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches.

Specifications:

- INSO 6800 certification according to EN 161 – EN 13611
- Sealing force classification: A
- Mechanical resistance: Group 2
- Temperature range: -20 C to 60 C
- Gas type: NG, LPG, Town gas, AIR
- Supply voltages: 230 V/50-60 Hz
- Supply voltage tolerance: -15% ... +10%
- Cable gland: PG 11

- No. cycles/hour: ~90 (ON time 10s - OFF time 30s)
- Energy saving: Yes
- Maximum operating pressure: 360 mbar
- Weight: DN65: 14Kg DN80:14.5Kg
- Opening time adjustment: between 0.5 and 30 seconds ± 20% (T= 25 °C / V=230V)
- Closing time: <1 S
- Protection rating: IP65
- Connections: DN65, DN80
- Flange According to ISO 7005, DIN 1092-4
- Filtration element type: metal mesh according to INSO 6800

Example of ordering code	
Type	SET144
Slow opening(S) + adjustable Capacity (Q)	/SQ
Nominal size	/DN80
Maximum operating pressure (360 mbar)	/036
Supply voltages	/A230
Status when off (Normally Closed)	/NC
Ordering code	SET144/SQ/DN80/036/A230/NC

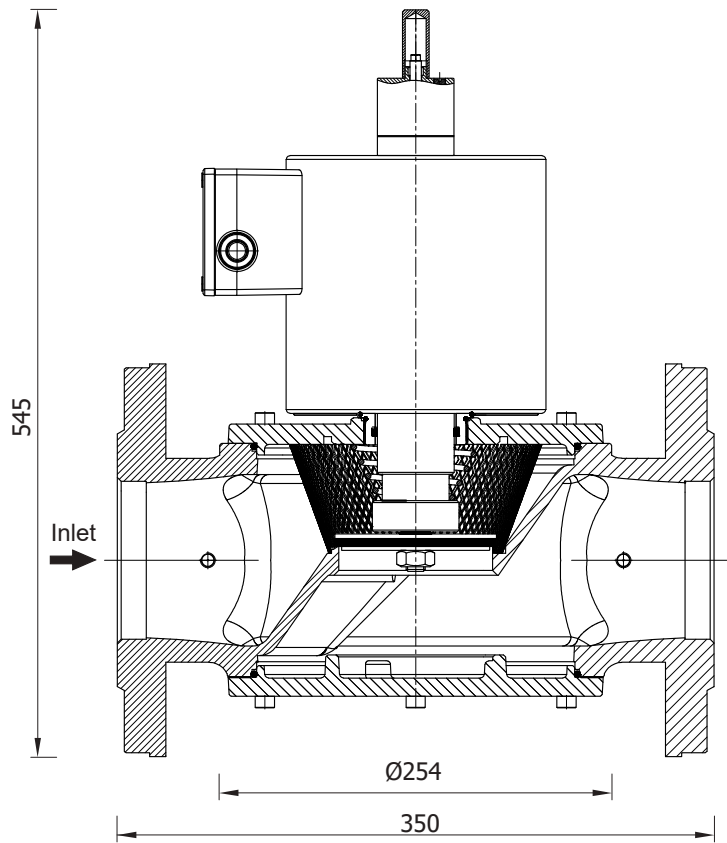


Pressure Measuring Spots
Use Connections (G1/4) to measure pressure in all positions
Top view (This is a schematic view)

SLOW OPENING SOLENOID VALVE

SET144/SQ

P_{1max}:360mbar/DN100



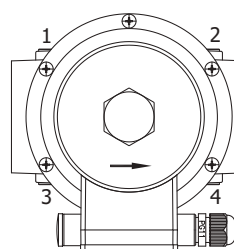
Normally Closed Automatic Slow Opening Solenoid Valve opens the flow of gas when the coil is electrically powered and closes when power is disconnected. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches.

Specifications:

- INSO 6800 certification according to EN 161 – EN 13611
- Sealing force classification: A
- Mechanical resistance: Group 2
- Temperature range: -20 C to 60 C
- Gas type: NG, LPG, Town gas, AIR
- Supply voltages: 230 V/50-60 Hz
- Supply voltage tolerance: -15% ... +10%
- Cable gland: PG 11

- No. cycles/hour: ~90 (ON time 10s - OFF time 30s)
- Energy saving: Yes
- Maximum operating pressure: 360 mbar
- Weight: 32.5Kg
- Opening time adjustment: between 0.5 and 30 seconds ± 20% (T= 25 °C / V=230V)
- Closing time: <1 S
- Protection rating: IP65
- Connection: DN100
- Flange According to ISO 7005, DIN 1092-4
- Filtration element type: metal mesh according to INSO 6800

Example of ordering code	
Type	SET144
Slow opening(S) + adjustable Capacity (Q)	/SQ
Nominal size	/DN100
Maximum operating pressure (360 mbar)	/036
Supply voltages	/A230
Status when off (Normally Closed)	/NC
Ordering code	SET144/SQ/DN100/036/A230/NC

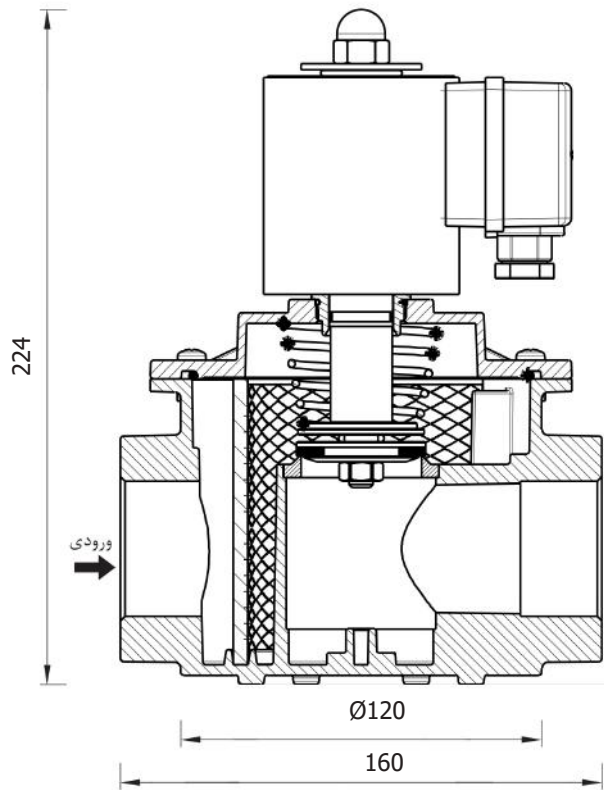


Pressure Measuring Spots
 Use Connections (G1/4)
 to measure pressure in all positions
 Top view (This is a schematic view)

FAST OPENING SOLENOID VALVE

SET145/RQ

P_{1max}:200mbar/DN40



Normally Closed Automatic Fast Opening Solenoid Valve opens the flow of gas when the coil is electrically powered and closes when power is disconnected. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches.

In order to convert it into a flanged valve, A series of Integrated Flanges SET954 should also be ordered

Specifications:

INSO 6800 certification according to EN 161 – EN 13611

Sealing force classification: A

Mechanical resistance: Group 2

Temperature range: -20 C to 60 C

Gas type: NG, LPG, Town gas, AIR

Supply voltage tolerance: -15% ... +10%

Cable gland: PG09

No. cycles/hour: ~195 (ON time 5s - OFF time 13.5s)

Energy saving: Yes

Maximum operating pressure: 200 mbar

Weight: 2.5 kg

Opening time: <1 S

Closing time: <1 S

Protection rating: IP54

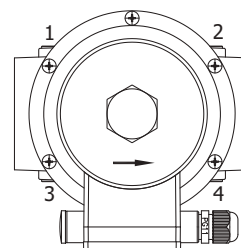
Connection: DN40 (Rp 1 1/2)

Thread According to ISO 7-1, EN 10226

Classification of filter: Synthetic fiber according to EN 779

Supply Voltages	230 VAC,50-60Hz	***
	24 VAC,50-60Hz	According to order
	24 VDC	According to order

Example of ordering code	
Type	SET145
Fast opening(R) + adjustable Capacity (Q)	/RQ
Nominal size (Rp 1 1/2)	/DN40
Maximum operating pressure (200 mbar)	/020
Supply voltages	/A230
Status when off (Normally Closed)	/NC
Ordering code	SET145/RQ/DN40/020/A230/NC



Pressure Measuring Spots

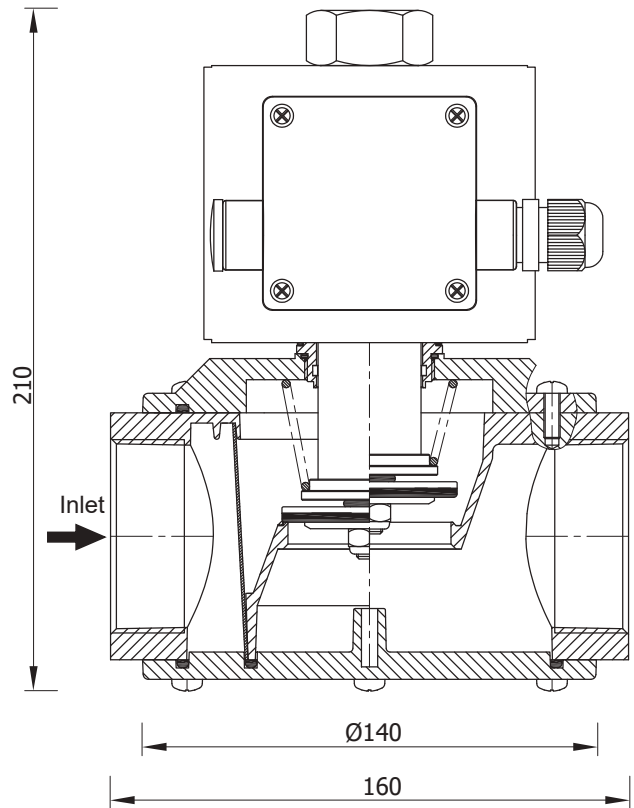
Use Connections (G1/4) instead Caps 1 or 3.

Top view (This is a schematic view)

FAST OPENING SOLENOID VALVE

SET145/RQ

P_{1max}:360mbar/DN40,50



Normally Closed Automatic Fast Opening Solenoid Valve opens the flow of gas when the coil is electrically powered and closes when power is disconnected. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches.

In order to convert it into a flanged valve, A series of Integrated Flanges SET954 should also be ordered

Specifications:

INSO 6800 certification according to EN 161 – EN 13611

Sealing force classification: A

Mechanical resistance: Group 2

Temperature range: -20 C to 60 C

Gas type: NG, LPG, Town gas, AIR

Supply voltage tolerance: -15% ... +10%

Cable gland: PG11

No. cycles/hour: ~195 (ON time 5s - OFF time 13.5s)

Energy saving: Yes

Maximum operating pressure: 360 mbar

Weight: 6.5 kg

Opening time: <1 S

Closing time: <1 S

Protection rating: IP65

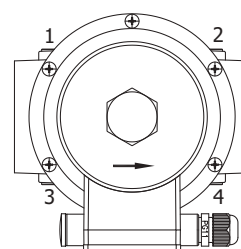
Connections: DN40 (Rp 1 1/2), DN50 (Rp 2)

Thread According to ISO 7-1, EN 10226

Filtration element type: metal mesh according to EN 779

Supply Voltages	230 VAC,50-60Hz	***
	24 VAC,50-60Hz	According to order
	24 VDC	According to order

Example of ordering code	
Type	SET145
Fast opening(R) + adjustable Capacity (Q)	/RQ
Nominal size (Rp 2)	/DN50
Maximum operating pressure (360 mbar)	/036
Supply voltages	/A230
Status when off (Normally Closed)	/NC
Ordering code	SET145/RQ/DN50/036/A230/NC



Pressure Measuring Spots

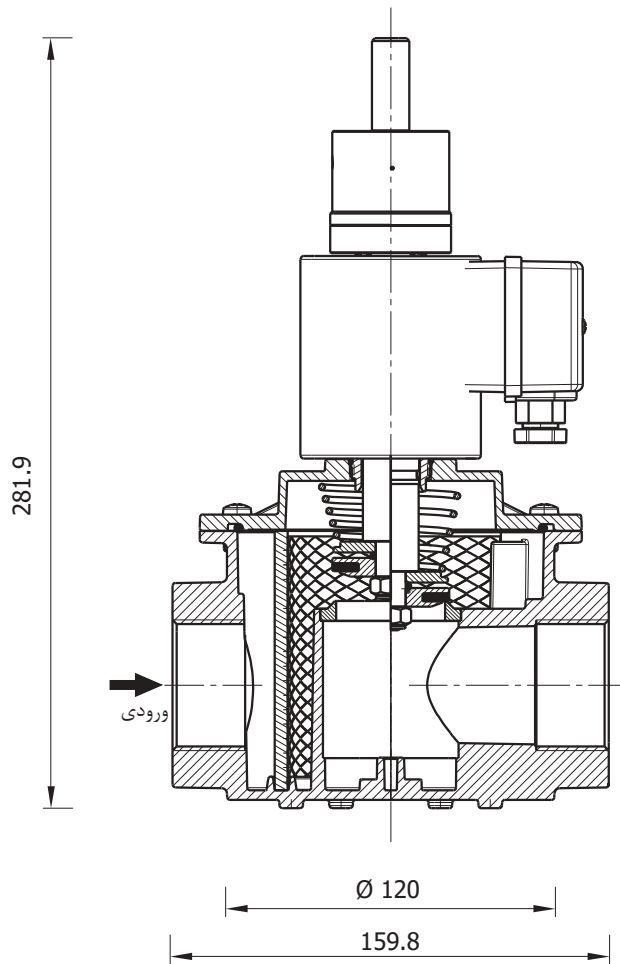
Use Connections (G1/4) instead Caps 1 or 3.

Top view (This is a schematic view)

SLOW OPENING SOLENOID VALVE

SET145/SQ

P_{1max}:200mbar/DN40



Normally Closed Automatic Slow Opening Solenoid Valve opens the flow of gas when the coil is electrically powered and closes when power is disconnected. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches. In order to convert it into a flanged valve, A series of Integrated Flanges SET954 should also be ordered

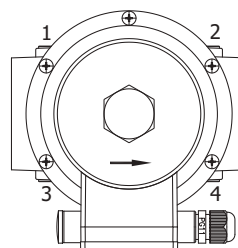
Specifications:

- INSO 6800 certification according to EN 161 – EN 13611
- Sealing force classification: A
- Mechanical resistance: Group 2
- Temperature range: -20 C to 60 C
- Gas type: NG, LPG, Town gas, AIR
- Supply voltage tolerance: -15% ... +10%
- Cable gland: PG 09

- No. cycles/hour: ~100 (ON time 10s - OFF time 25s)
- Energy saving: Yes
- Maximum operating pressure: 200 mbar
- Weight: 2.5 kg
- Opening time adjustment: between 0.5 and 30 seconds ± 20% (T= 25 °C / V=230V)
- Closing time: <1 S
- Protection rating: IP54
- Connection: DN40 (Rp 1 1/2)
- Thread According to ISO 7-1, EN 10226
- Classification of filter: Synthetic fiber according to EN 779

Supply Voltages	230 VAC,50-60Hz	***
	24 VAC,50-60Hz	According to order
	24 VDC	According to order

Example of ordering code	
Type	SET145
Slow opening(S) + adjustable Capacity (Q)	/SQ
Nominal size (Rp 1 1/2)	/DN40
Maximum operating pressure (200 mbar)	/020
Supply voltages	/A230
Status when off (Normally Closed)	/NC
Ordering code	SET145/SQ/DN40/020/A230/NC



Pressure Measuring Spots

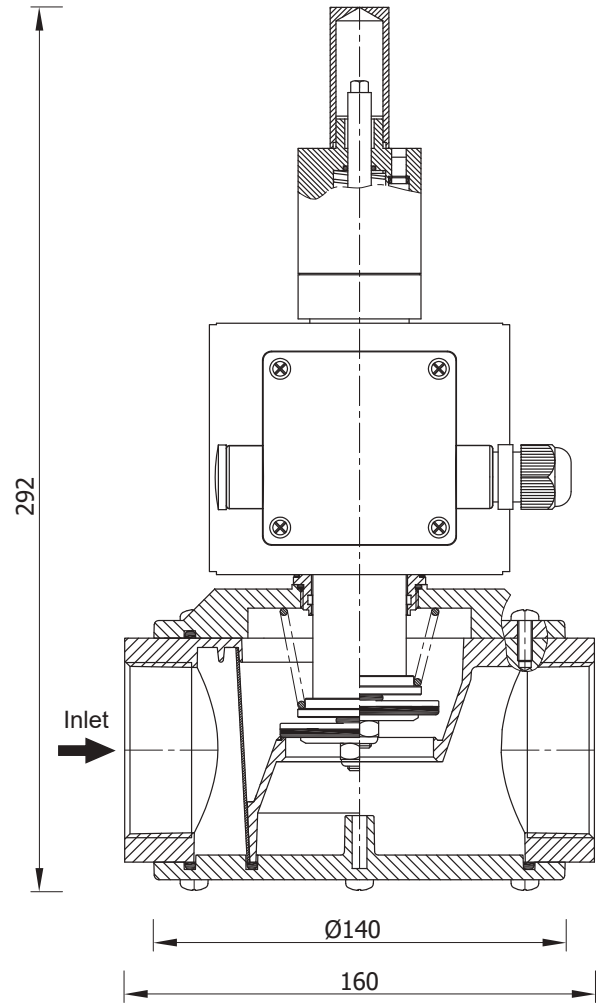
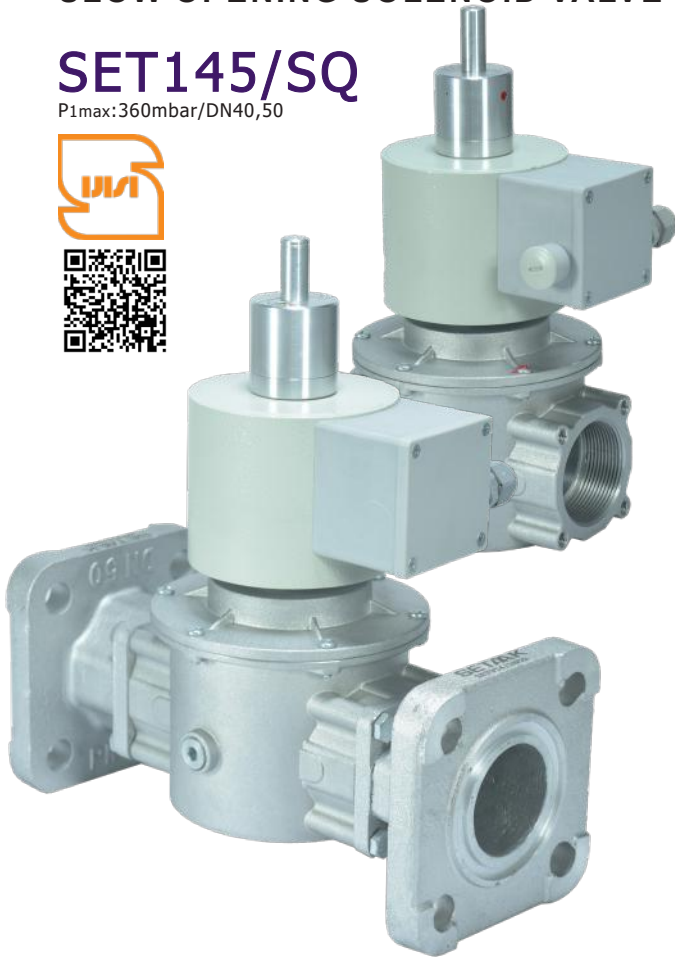
Use Connections (G1/4) instead Caps 1 or 3.

Top view (This is a schematic view)

SLOW OPENING SOLENOID VALVE

SET145/SQ

P1max:360mbar/DN40,50



Normally Closed Automatic Slow Opening Solenoid Valve opens the flow of gas when the coil is electrically powered and closes when power is disconnected. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches. In order to convert it into a flanged valve, A series of Integrated Flanges SET954 should also be ordered

Specifications:

INSO 6800 certification according to EN 161 – EN 13611

Sealing force classification: A

Mechanical resistance: Group 2

Temperature range: -20 C to 60 C

Gas type: NG, LPG, Town gas, AIR

Supply voltage tolerance: -15% ... +10%

Cable gland: PG 11

No. cycles/hour: ~90 (ON time 10s - OFF time 30s)

Energy saving: Yes

Maximum operating pressure: 360 mbar

Weight: 8.5 kg

Opening time adjustment: between 0.5 and 30 seconds ± 20% (T= 25 °C / V=230V)

Closing time: <1 S

Protection rating: IP65

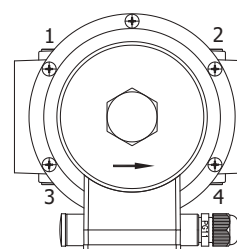
Connections: DN40 (Rp 1 1/2), DN50 (Rp 2)

Thread According to ISO 7-1, EN 10226

Filtration element type: metal mesh according to EN 779

Supply Voltages	230 VAC,50-60Hz	***
	24 VAC,50-60Hz	According to order
	24 VDC	According to order

Example of ordering code	
Type	SET145
Slow opening(S) + adjustable Capacity (Q)	/SQ
Nominal size (Rp 2)	/DN50
Maximum operating pressure (360 mbar)	/036
Supply voltages	/A230
Status when off (Normally Closed)	/NC
Ordering code	SET145/SQ/DN50/036/A230/NC



Pressure Measuring Spots

Use Connections (G1/4) instead Caps 1 or 3.

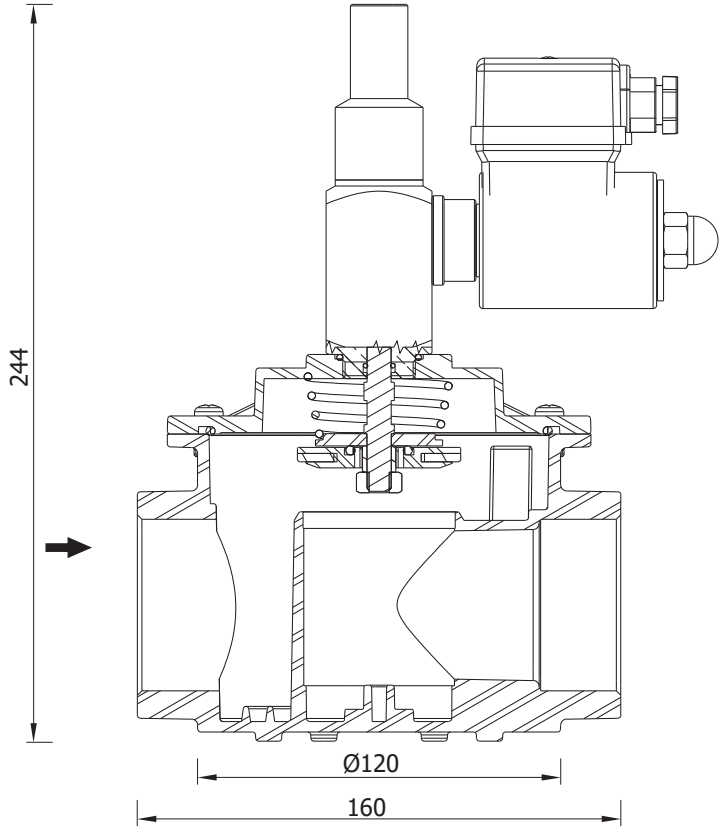
Top view (This is a schematic view)

MANUAL RESET SHUT OFF SOLENOID VALVE

NEW

SET146

P_{1max}:5bar/DN40,DN50



Normally Opened Manual Reset Shut Off Solenoid Valve closes the flow of gas when the coil is electrically powered and is just manually reset when the solenoid is off. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches. In order to convert it into a flanged valve, A series of Integrated Flanges SET954 should also be ordered

Specifications:

INSO 22107 certification according to EN 161 – EN 13611

Sealing force classification: A

Mechanical resistance: Group 2

Temperature range: -20°C to 60°C

Gas type: NG, LPG, Town gas, AIR

Supply voltage : 230 V / 50-60 Hz

Supply voltage tolerance: -15% ... +10%

Cable gland: PG 09

No. cycles/hour: ~100 (ON time 10s - OFF time 25s)

Energy saving: Yes

Maximum operating pressure: 5bar

Weight: 2 kg

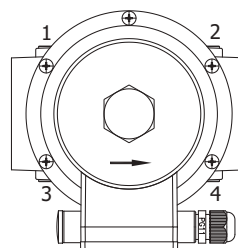
Closing time: <1 S

Protection rating: IP54

Connections: DN40 (Rp 1 1/2) DN50 (Rp 2)

Thread According to ISO 7-1, EN 10226

Example of ordering code	
Type	SET146
Nominal size (Rp 1 1/2)	/DN40
Maximum operating pressure (5bar)	/5
Supply voltages	/A230
Status when off (Normally opened)	/NA
Ordering code	SET146/DN40/5/A230/NA



Pressure Measuring Spots

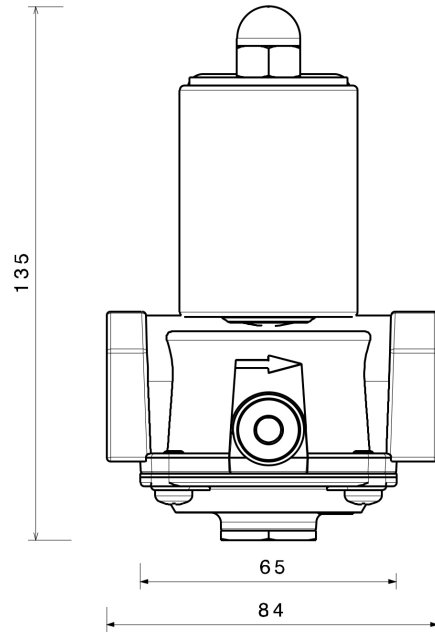
Pos.4 factory option.

Top view (This is a schematic view)

AUTOMATIC NORMALLY OPEN SOLENOID VALVE (RELEIF VALVE)

SET147

P1max:360mbar/DN20



Normally Opened Automatic Solenoid Valve closes the flow of gas when the coil is electrically powered and opened when power is disconnected. It can be controlled by thermostats, switches, etc. In addition, you can control it by CPI switches.

Specifications:

- Certification according to EN 161 – EN 13611
- Mechanical resistance: Group 2
- Temperature range: -20°C to 60°C
- Gas type: NG, LPG, Town gas, AIR
- Supply voltage tolerance: -15% ... +10%
- Cable gland: PG09

- No. cycles/hour: ~1800 (ON time 1s - OFF time 1s)
- Energy saving: No
- Maximum operating pressure: 360 mbar
- Weight: 0.85 kg
- Opening time: <1 S
- Closing time: <1 S
- Protection rating: IP54
- Connection: DN20 (Rp 3/4)
- Thread According to ISO 7-1, EN 10226
- Filtration element type: metal mesh according to INSO 6800

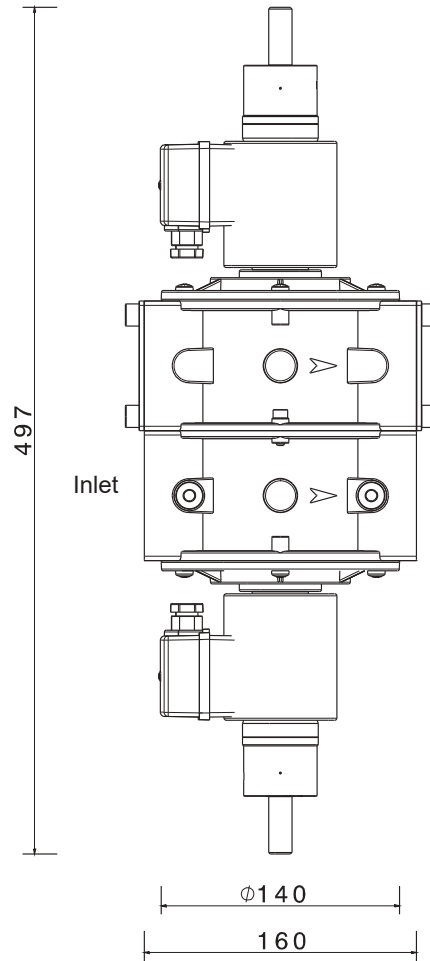
Supply Voltages	230 VAC,50-60Hz	***
	24 VAC,50-60Hz	According to order
	24 VDC	According to order

Example of ordering code	
Type	SET147
Nominal size (Rp 3/4)	/DN20
Maximum operating pressure (360 mbar)	/036
Supply voltages	/A230
Status when off (Normally opened)	/NA
Ordering code	SET147/DN20/036/A230/NA

TWO – STAGE SOLENOID VALVE FOR GAS

SET148/SQ

P_{1max}:200mbar/DN40



Normally Closed Automatic Slow Opening Two-stage Solenoid Valve opens the minimum flow that can be adjusted by user when one of the coils is electrically powered(the first stage).in the following it opens the maximum adjusted flow by user when both of the coils are electrically powered(the second stage). and it closes when its coils are off. It can be controlled by thermostats, switches, etc.

Specifications:

INSO 6800 certification according to EN 161

Sealing force classification: A

Mechanical resistance: Group 2

Temperature range: -20°C to 60°C

Gas type: NG, LPG, Town gas, AIR

Supply voltage tolerance: -15% ... +10%

Cable gland: PG 09

No. cycles/hour: ~100 (ON time 10s - OFF time 25s)

Energy saving: YES

Maximum operating pressure: 200 mbar

Weight: 6Kg

Opening time adjustment: between 0.5 and 30 seconds ± 20% (T= 25 °C / V=230V)

Closing time: <1 S

Protection rating: IP54

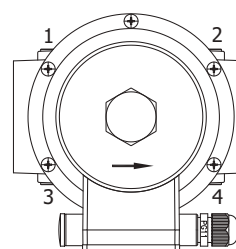
Connection: DN40 (Rp 1 1/2)

Thread According to ISO 7-1, EN 10226

Classification of filter:INSO 6800

Supply Voltages	230 VAC,50-60Hz	***
	24 VAC,50-60Hz	According to order
	24 VDC	According to order

Example of ordering code	
Type	SET148
Slow opening(S) + adjustable Capacity (Q)	/SQ
Nominal size (Rp 1 1/2)	/DN40
Maximum operating pressure (200 mbar)	/020
Supply voltages	/A230
Status when off (Normally Closed)	/NC
Ordering code	SET148/SQ/DN40/020/A230/NC



Pressure Measuring Spots

Use Connections (G1/4)

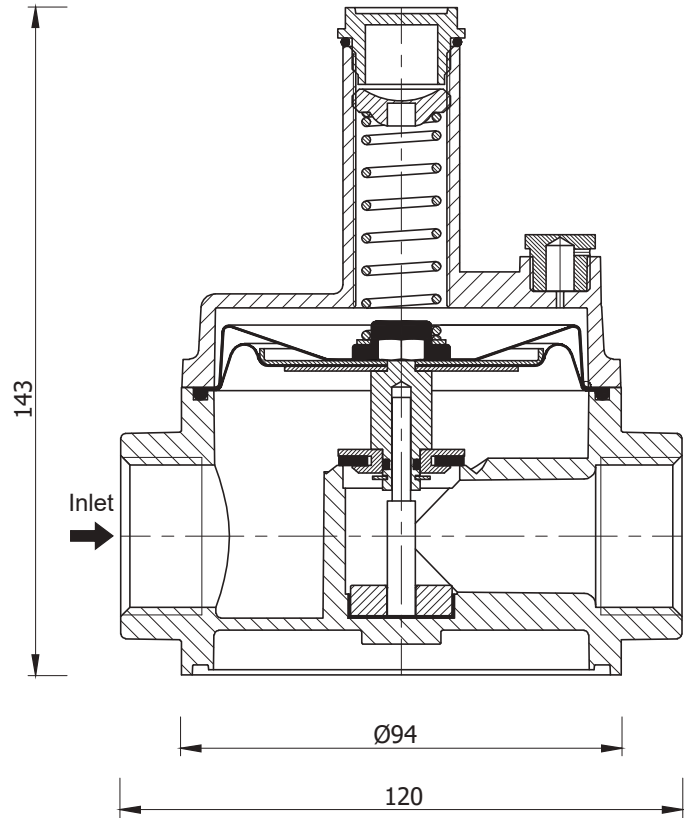
to measure pressure in all positions

Top view (This is a schematic view)

RELIEF VALVE

SET150

P1max:500mbar/DN25



Low Pressure Relief Valve SET150 opens when the pressure exceeds the allowable pressure and discharges pressure peaks outside into the air. It is necessary to use it if the gas speed is more than 30 m/s.

Specifications:

- INSO 22107 certification
- Performance in accordance with WI-016
- Temperature range: -15°C to 60°C
- Weight: 0.66 kg
- Gas type: NG, LPG, Town gas, AIR
- Connection: DN25 (Rp 1)
- Thread According to ISO 7-1, EN 10226
- Max. inlet pressure: 500 mbar

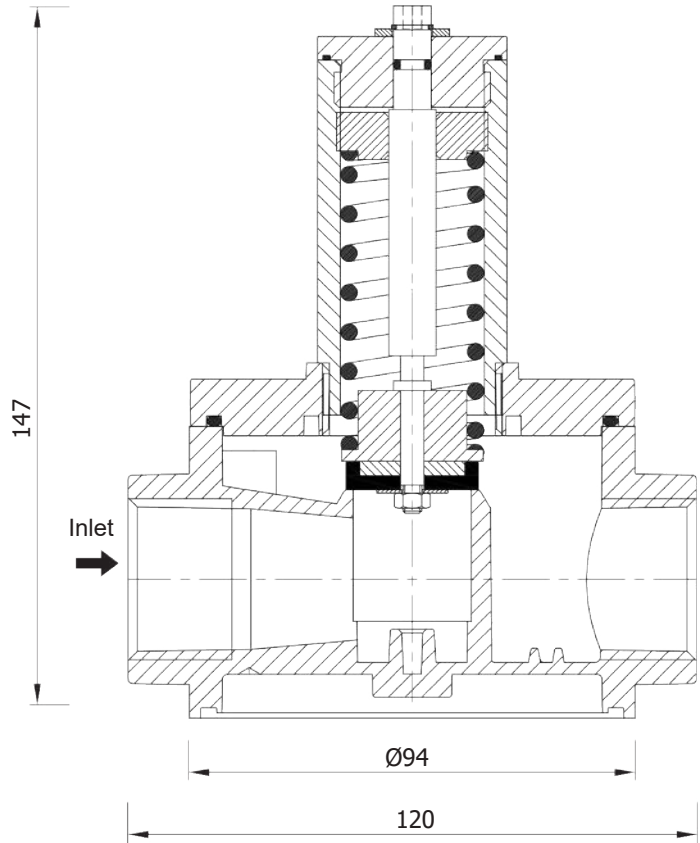
Example of ordering code	
Type	SET150
Nominal size (Rp 1)	/DN25
Outlet pressure (50-450 mbar)	/50450
Ordering code	SET150/DN25/50450

Spring code	Color	P(mbar)
SR10 /17x66/100	Red	15 – 30
SB13 /17x66/110	Blue	25 – 70
SY20 /17x54/90	Yellow	50 - 450

RELIEF VALVE

SET151

P1max:5bar/DN25



High pressure relief valve SET151 opens when the pressure exceeds the allowable pressure and discharges pressure peaks outside into the air. This valve immediately closes as the pressure drops to under the set pressure.

Specifications:

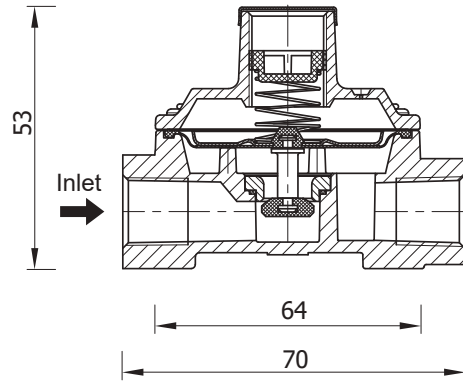
- INSO 22107 certification
- Performance in accordance with WI-016
- Temperature range: -15°C to 60°C
- Weight: 0.85 kg
- Gas type: NG, LPG, Town gas, AIR
- Connection: DN25 (Rp 1)
- Thread According to ISO 7-1, EN 10226
- Max. inlet pressure: 5bar

Example of ordering code	
Type	SET151
Nominal size (Rp 1)	/DN25
Outlet pressure (0.3-5 bar)	/035
Ordering code	SET151/DN25/035

REGULATOR

SET201

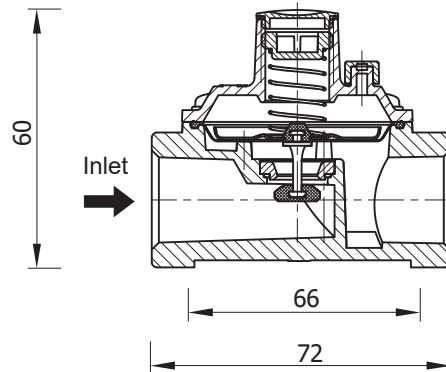
P1max:170mbar/DN15



Example of ordering code	
Type	SET201
Nominal size (Rp 1/2)	/DN15
Maximum inlet pressure (170 mbar)	/017
Outlet Pressure(20-30mbar)	/2030
PTN spot(pos. 4)	/T4
Ordering code	SET201/DN15/017/2030/T4

SET203

P1max:170mbar/DN20



Example of ordering code	
Type	SET203
Nominal size (Rp 3/4)	/DN20
Maximum inlet pressure (170 mbar)	/017
Outlet Pressure(20-30mbar)	/2030
PTN spot(pos. 4)	/T4
Ordering code	SET203/DN20/017/2030/T4

Gas pressure closing regulator SET201,203 with inlet proof pressure 250 mbar and operating inlet pressure 170 mbar use for low capacities. Due to its limited qualified outlet pressure range, it is usable for small consumers such as pilot light.

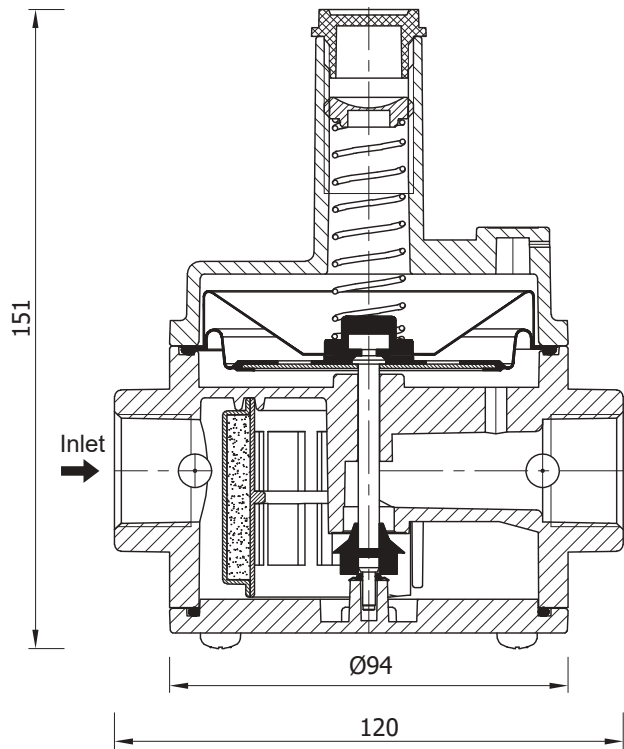
Specifications:

INSO 6027-1 certification according to EN 88-1
 Classification: Class A, Group 2
 Temperature range: -15°C to 60°C
 Gas type: NG, LPG, Town gas, AIR
 Connections: DN15(Rp1/2), DN20(Rp3/4)
 Thread According to ISO 7-1, EN 10226
 Max. Inlet pressure: 170 mbar
 outlet pressure adjustment range(p2): 20-30 mbar
 Min Operating inlet pressure: Pz + 10 mabr
 Weight: SET201, 0.2 kg SET203, 0.26 kg

REGULATOR

SET245

P1max:500mbar/DN15,20,25



Gas pressure closing regulator SET245 and regulator with built-in filter SET245/F are designed for inlet pressure up to 500mbar and use for low capacities. Check the Capacity diagram before ordering.

Specifications:

INSO 6027-1 certification according to EN 88-1

Classification: Class A, Group 2

Temperature range: -15°C to 60°C

Gas type: NG, LPG, Town gas, AIR

Connections: DN15(Rp1/2),DN20(Rp3/4),DN25(Rp 1)

Thread according to ISO 7-1, EN 10226

Max. inlet pressure: 500 mbar

Weight: 0.7 kg

Regulators with built-in filter SET245/F:

Filtration: 50 µm (on request other filtration qualities)

Filtration area: 4400 mm²

Filter dusting: according to EN 779

Classification of Filter: M5 (According to EN779-2012)

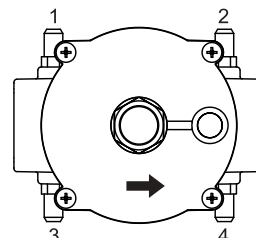
In the order code for:

- Inlet pressure up to 100 mbar code 01
- Inlet pressure 100-200 mbar code 02
- Inlet pressure 200-300 mbar code 03
- Inlet pressure 300-400 mbar code 04
- Inlet pressure 400-500 mbar code 05

Spring Selection Table

Spring code	Color	P1(mbar)					P2(mbar)
		0-100	100-200	200-300	300-400	400-500	
SR10 /17x66/100	Red	14-30	16-30				
SB13 /17x66/110	Blue	20-60	20-60	16-60	16-60	16-60	
SY20 /17x54/90	Yellow			60-180	60-200	60-200	

Example of ordering code	
Type	SET245
With filter	/F
Nominal size (Rp 3/4)	/DN20
Maximum inlet pressure (500 mbar)	/05
Outlet pressure (16-60 mbar)	/1660
PTN spot (pos. 3&4)	/T34
Ordering code	SET245/F/DN20/05/1660/T34



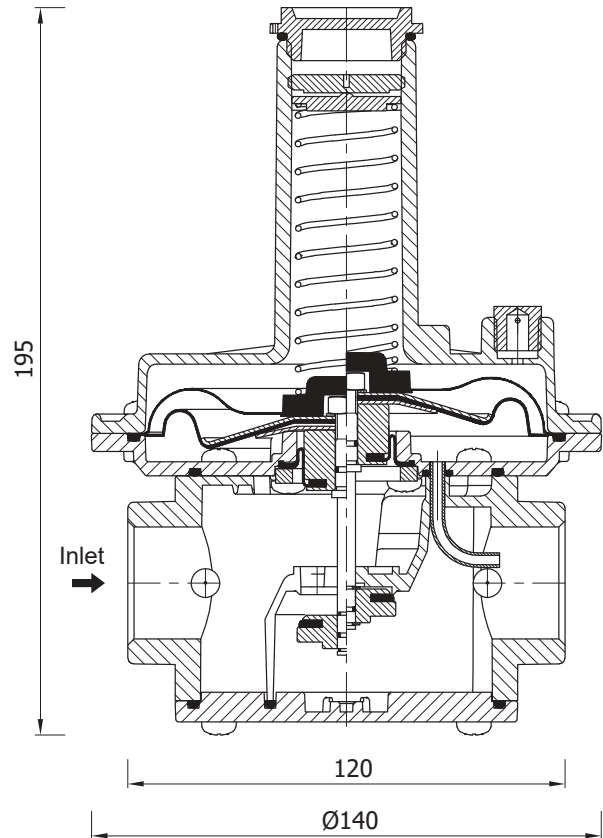
Pressure Tapping Nipples
Pos.4 factory option.

Top View (This is a schematic view)

REGULATOR

SET250

P1max: 2bar/DN15, DN20, DN25



Gas pressure closing regulator SET250 has upper capacity and better quality compared to SET245 and with inlet pressure up to 500mbar, 0.5-1bar and 1-2bar. In order to convert it into a flanged regulator, two Rotating Flanges SET950X should also be ordered

Specifications:

INSO 6027-1 certification according to EN 88-1

Classification: Class A, Group 2 (P1=0-500mbar)

In accordance with EN88-2

Classification: Accuracy class AC20, Closing pressure class SG30, Group 2 (P1=0.5-2mbar)

Temperature range: -15°C to 60°C

Gas type: NG, LPG, Town gas, AIR

Weight: 1.15 kg

Connections: DN15(Rp1/2), DN20(Rp3/4), DN25(Rp 1)

Thread According to ISO 7-1, EN 10226

Operating pressure range:

1: up to 500 mbar

2: 0.5-1 bar

3: 1-2 bar

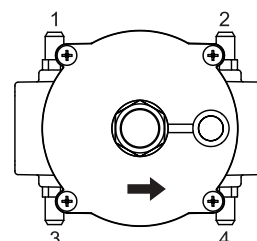
In the order code for:

- Inlet pressure up to 500 mbar code 05
- Inlet pressure 0.5-1 bar code 1
- Inlet pressure 1-2 bar code 2

Spring Selection Table

Spring code	Color	P1(bar)		P2(mbar)
		Up to 2bar		
SYD15/29x85/120	Yellow-black	8 - 35		
SYR16/29x115/105	Yellow-red	35 - 70		
SYG22/29x100/115	Yellow-green	70 - 150		
SYB25/29x140/170	Yellow-blue	150 - 180		

Example of ordering code	
Type	SET250
Nominal size (Rp 1)	/DN25
Max. Inlet pressure (500 mbar)	/05
Outlet pressure (35-70 mbar)	/3570
PTN spot (pos. 4)	/T4
Ordering code	SET250/DN25/05/3570/T4



Pressure Tapping Nipples

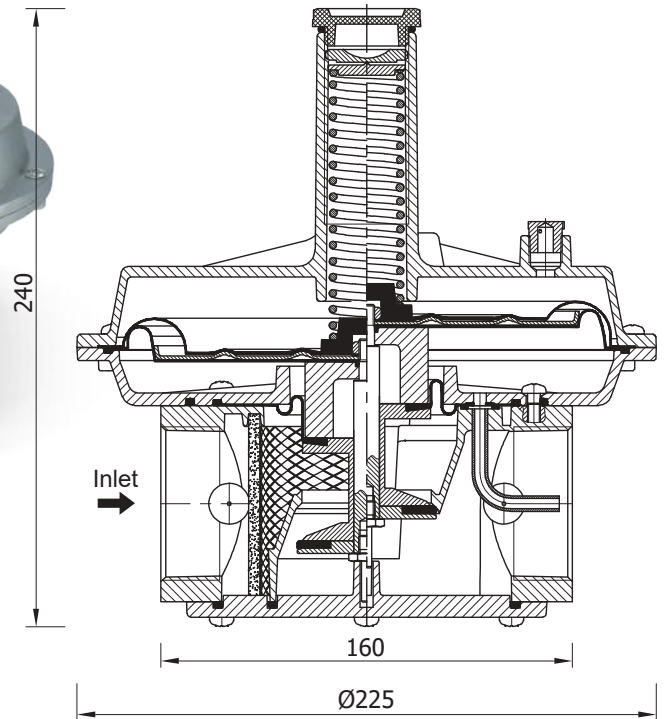
Pos.4 factory option

Top View (This is a schematic view)

REGULATOR

SET252

P1max:2bar/DN40,50



Gas Pressure Closing Regulator SET252 and filter regulator SET252/F with inlet pressure up to 500mbar, 0.5-1bar and 1-2bar. In order to convert it into a flanged regulator, A series of Integrated Flanges SET954 should also be ordered.

Specifications:

INSO 6027-1 certification according to EN 88-1
 Classification: Class A, Group 2 (P1=0-500mbar)
 In accordance with EN88-2
 Classification: Accuracy class AC20, Closing pressure class SG30, Group 2 (P1=0.5-2 bar)
 Temperature range: -15°C to 60°C
 Gas type: NG, LPG, Town gas, AIR

Connections: DN40 (Rp 11/2), DN50 (Rp 2)
 Thread According to ISO 7-1, EN 10226

Operating pressure range:

- 1: up to 500 mbar
- 2: 0.5-1 bar
- 3: 1-2 bar

Regulators with built-in filter SET252/F:

Filtration: 50 µm (on request other filtration qualities)
 Filtration area: 15600 mm²
 Filter dusting: according to EN 779
 Weight: 3.4 kg

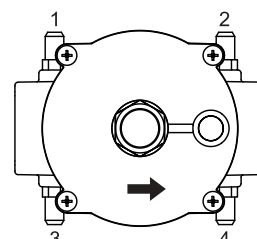
In the order code for:

- Inlet pressure up to 500 mbar code 05
- Inlet pressure 0.5-1 bar code 1
- Inlet pressure up to 1-2 bar code 2

Spring Selection Table

Spring code	Color	P ₁ (bar)			P ₂ (mbar)
		0.5	0.5 - 1	1 - 2	
SO16/29x115/140	Orange	8 - 13	-	-	
SB20/29x140/160	Blue		13 - 20		
SG20/29x140/130	Green		15 - 25		
SR22/29x140/135	Red		25 - 43		
SD25/29x150/140	Black		43 - 70		
SY25/29x150/180	Yellow		33 - 58		
SS30/29x140/180	Silver		55 - 110		
SW35/29x125/140	White		90 - 200		

Example of ordering code	
Type	SET252
With filter	/F
Nominal size (Rp 2)	/DN50
Max. Inlet pressure (500 mbar)	/05
Outlet pressure (33-58 mbar)	/3358
PTN spot (pos. 4)	/T4
Ordering code	SET252/F/DN50/05/3358/T4



Pressure Tapping Nipples

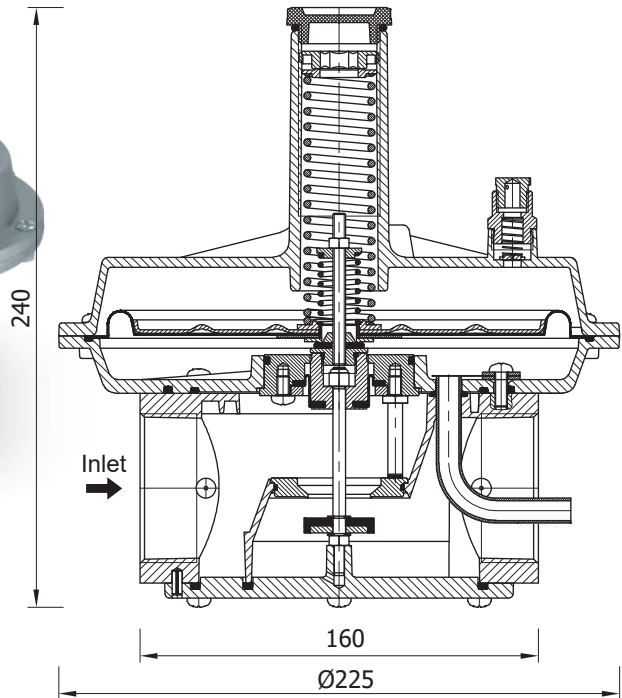
Pos.4 factory option

Top View (This is a schematic view)

REGULATOR

SET252H

P1max:5bar/DN40,50



Gas Pressure Closing Regulator SET252H with inlet pressure up to 5bar. An inner relief valve flows gas outwards if overpressure occurs downstream of the regulator. This regulator provides preset and uniform outlet pressure from low to high capacities. In order to convert it into a flanged regulator, A series of Integrated Flanges SET954 should also be ordered.

Specifications:

In accordance with EN 88-2

Classification: Accuracy class AC20, Closing

pressure class SG30, Group 2

Temperature range: -15°C to 60°C

Gas type: NG, LPG, Town gas, AIR

Weight: 3.5 kg

Connections: DN40 (Rp 1 1/2), DN50 (Rp 2)

Thread According to ISO 7-1, EN 10226

Breathing hole connection: G 1/4

Operating pressure range: 0.5 – 5 bar

Safety factor: f-4 (5×4=20 bar In accordance with INSO 22107)

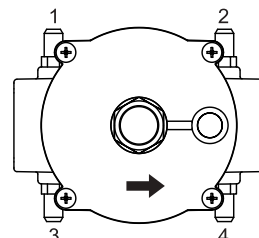
Spring Selection Table

Spring color	P ₂ (mbar)	Color	Spring code	DfWau (mbar)	Color
SYG22/29X100/120	10 - 22	Yellow-Green	SO13/17x40/60	10 - 20	Orange
SBR22/29X140/180	17 - 32	Brown-Red	SB18/18,4x45/85	15 - 40	Blue
SBY25/29X155/160	32 - 60	Brown-Yellow	SB18/18,4x45/85	15 - 40	Blue
SBY32/29X123/155	50 - 95	Brown-Blue	SY20/17x54/90	40 - 80	Yellow
SW35/29X125/140	85 - 180	White	SY20/17x54/90	40 - 80	Yellow
SC45/29X98/80	150 - 350*	Colorless	SR25/18x50/85	50 - 120	Red
SBD45/29,4X95/90	300 - 500*	Brown-Black	SR25/18x50/85	50 - 120	Red
SBG50/29x110/90	500 - 750*	Brown-Green	SR25/18x50/85	50 - 120	Red

With reinforced diaphragm*

The range of differential relief spring, proportional to the outlet pressure

Example of ordering code	
Type	SET252H
Nominal size (Rp 2)	/DN50
Max. Inlet pressure (5 bar)	/5
Outlet pressure (85-180 mbar)	/85180
PTN spot (pos. 4)	/T4
Ordering code	SET252H/DN50/5/85180/T4



Pressure Tapping Nipples

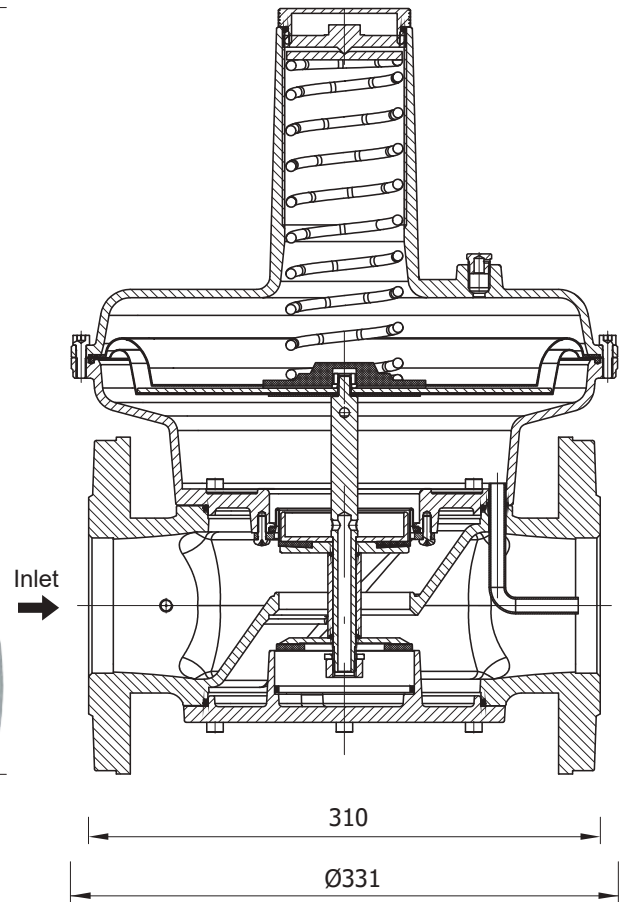
Pos.4 factory option

Top View (This is a schematic view)

REGULATOR

SET251

P1max: 1bar/DN65, DN80



Gas pressure closing regulator SET251 with inlet pressure up to 500 mbar, 0.5-1 bar. This regulator provides preset and uniform outlet pressure from low to high capacities.

Specifications:

INSO 6027-1 certification according to EN 88-1
 Classification: Class A, Group 2 (P1=0-500mbar)
 In accordance with EN 88-2
 Classification: Accuracy class AC20, closing pressure class 5630, Group 2 (P1=0.5-1bar)
 Closing Temperature range: -15°C to 60°C
 Gas type: NG, LPG, Town gas, AIR

Connections: DN65/DN80

Max. Inlet pressure: 1 bar

Weight: 13.7 kg

Operating pressure range:

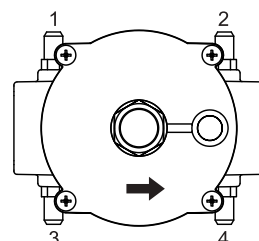
- 1: up to 500 mbar code 05
- 2: 0.5-1 bar code 1

Flange According to ISO 7005, DIN 1092-4

Spring Selection Table

Spring code	Color	P ₂ (mbar)
SG40/66.5x155/160	Green	10-18
SD45/70x200/145	Black	13-27
SR50/70x200/135	Red	22-58
SR50/70x205/160	Yellow	50-130
SY60/70x217/105+SB55/54.5x195/125	Yellow-Blue	130-200

Example of ordering code	
Type	SET251
Nominal size (Rp 3)	/DN80
Max. Inlet pressure (500mbar)	/05
Outlet pressure (50-130 mbar)	/50130
PTN spot (All positions.)	/TT
Ordering code	SET251/DN80/05/50130/TT



Pressure Tapping Nipples

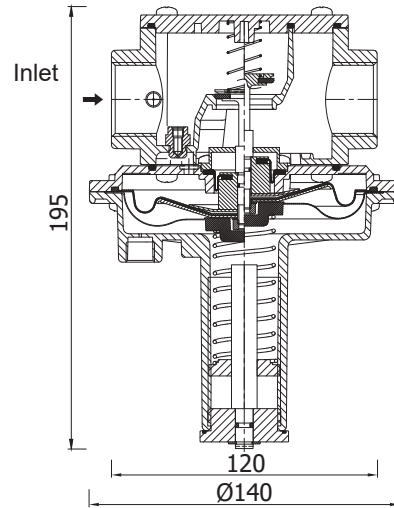
All positions available.

Top View (This is a schematic view)

AIR/GAS RATIO CONTROL

SET282

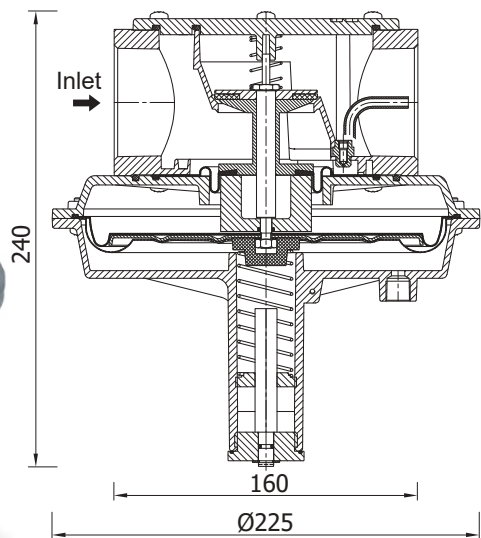
P1max:500mbar/DN15,DN20,DN25



AIR/GAS RATIO CONTROL

SET285

P1max:500mbar/DN40,DN50



Gas/Air Ratio Control SET282, 285 can be used as:

- 1- Zero pressure regulator, keeps the downstream pressure uniform from low to high capacities.
- 2- Air/gas ratio Control, keeps the air/gas ratio constant even when changing the air pressure. Choosing the suitable control and its installation depends on pressure ratio. There are three main pressure ratio:
 - Air/Gas pressure in a ratio of 1:1
 - Air/Gas pressure from 1:2 ratio to 1:10 ratio
 - Air/Gas pressure from 2:1 ratio to 10:1 ratio

In order to convert it into a flanged regulator, A series of Integrated Flanges SET954 or SET950X should also be ordered.

Specifications:

INSO 6027-1 certification according to EN 88-1

Classification: Class A, Group 2 (P1=0-500mbar)

Temperature range: -15°C to 60°C

Gas type: NG, LPG, Town gas, AIR

Connections:

SET282/DN15 (Rp1/2), SET282/DN20 (Rp 3/4),

SET282/DN25 (Rp 1)

SET285/DN40 (Rp 1 1/2), SET285/DN50 (Rp 2)

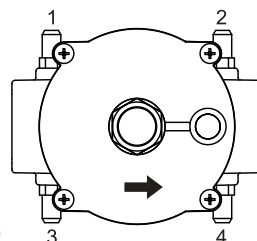
Weight: SET282, 1.2 kg SET285, 3.4 kg

Thread According to ISO 7-1, EN 10226

Max. Inlet pressure: 500 mbar

Outlet pressure range: 2-120 mbar

Example of ordering code	
Type	SET282
Nominal size (Rp 1)	/DN25
Air/Gas ratio(10:1)	/101
PTN spot (pos. 4)	/T4
Ordering code	SET282/DN25/101/T4



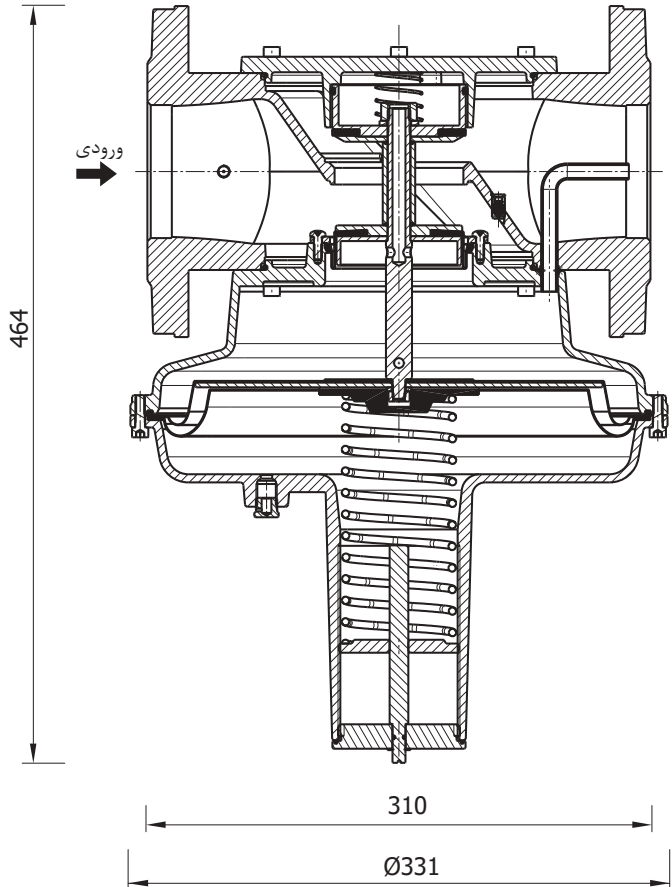
Pressure Tapping Nipples
pos.4 factory option

Top View (This is a schematic view)

AIR/GAS RATIO CONTROL

SET286

P1max:500mbar/DN65, DN80



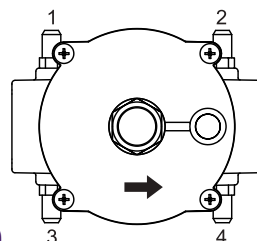
Air/Gas Ratio Control SET26 can be used as:

- 1- Zero pressure regulator, keeps the downstream pressure uniform from low to high capacities.
- 2- Air/gas ratio Control, keeps the air/gas ratio constant even when changing the air pressure. Choosing the suitable control and its installation depends on pressure ratio. There are three main pressure ratio:
 - Air/Gas pressure in a ratio of 1:1
 - Air/Gas pressure from 1:2 ratio to 1:10 ratio
 - Air/Gas pressure from 2:1 ratio to 10:1 ratio
 In order to convert it into a flanged regulator, A series of Integrated Flanges SET954 should also be ordered.

Specifications:

- INSO 6027-1 certification according to EN 88-1
- Classification: Class A, Group 2 (P1=0-500mbar)
- Temperature range: -15 C to 60 C
- Gas type: NG, LPG, Town gas, AIR
- Connections: DN65/DN80
- Flange according to ISO 7005, DIN 1092-4
- Weight: 13.7 kg
- Max. Inlet pressure: 500 mbar
- Outlet pressure range: 2-120 mbar

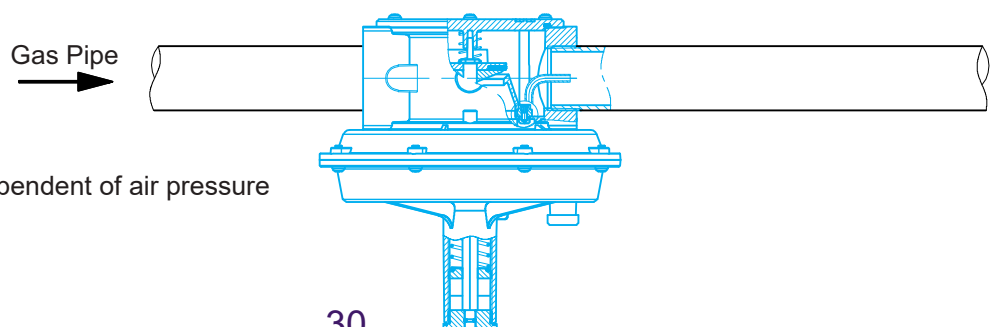
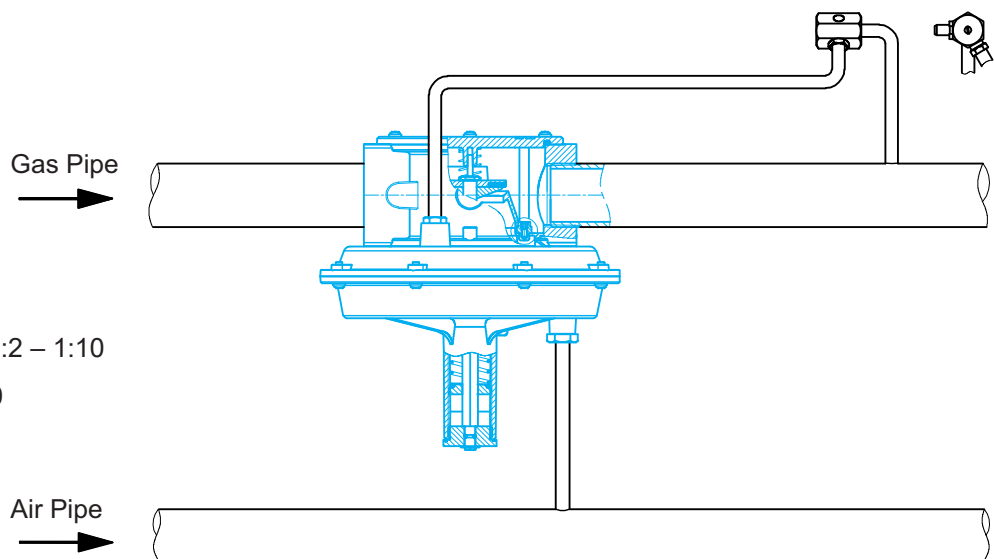
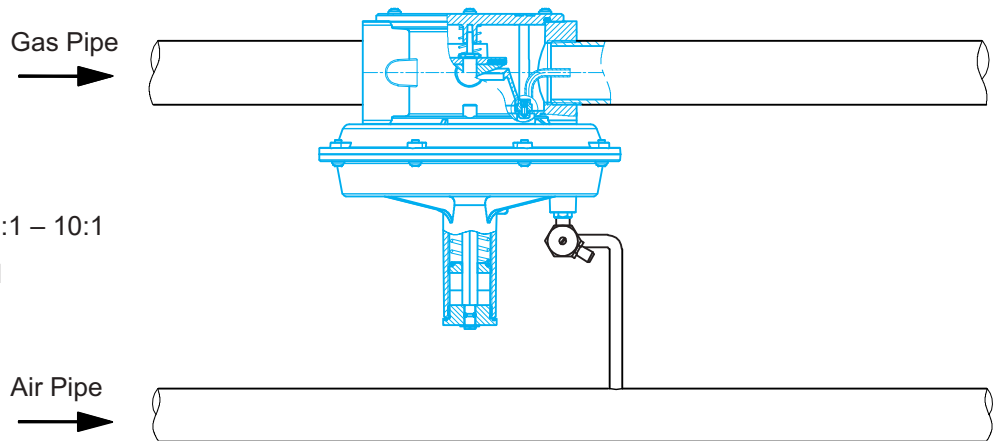
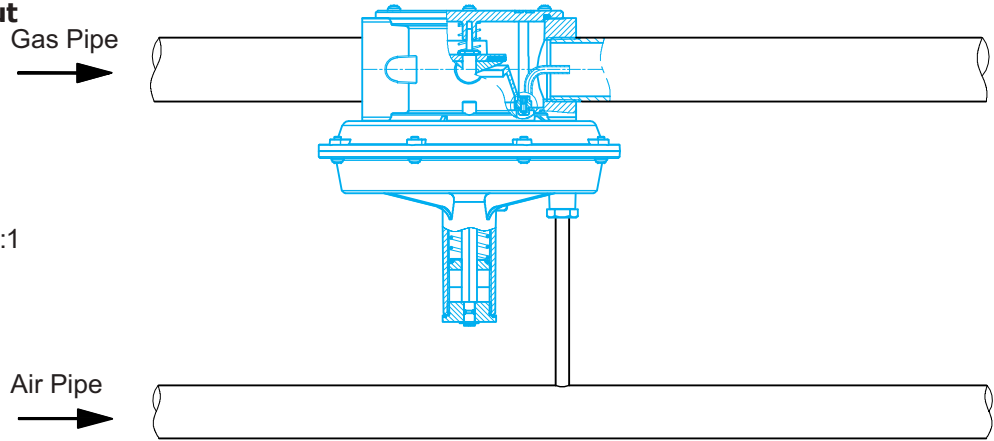
Example of ordering code	
Type	SET286
Nominal size (Rp 3)	/DN80
Air/Gas ratio(10:1)	/101
PTN spot (pos. 4)	/T4
Ordering code	SET286/DN80/101/T4



Pressure Tapping Nipples pos.4 factory option

Top View (This is a schematic view)

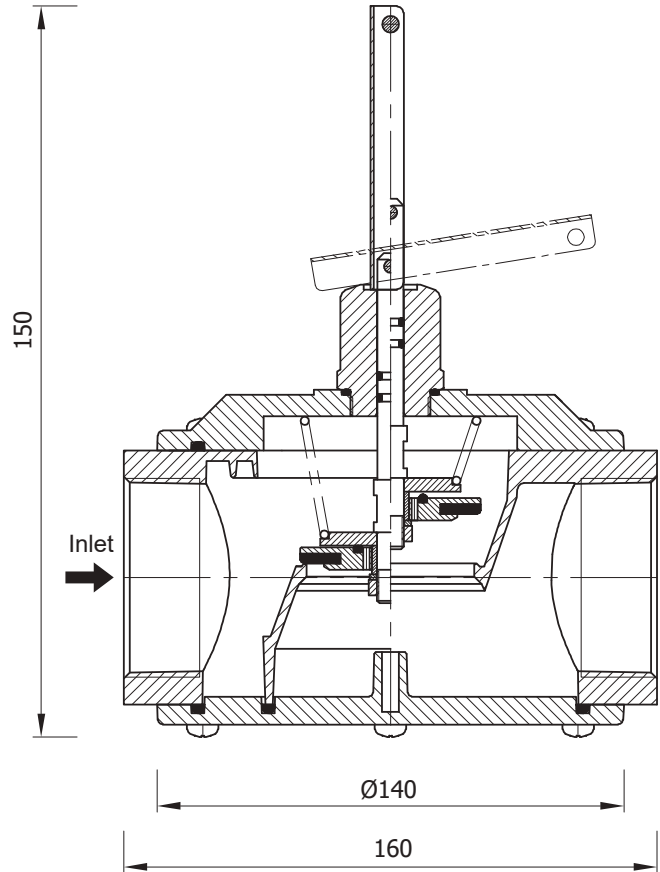
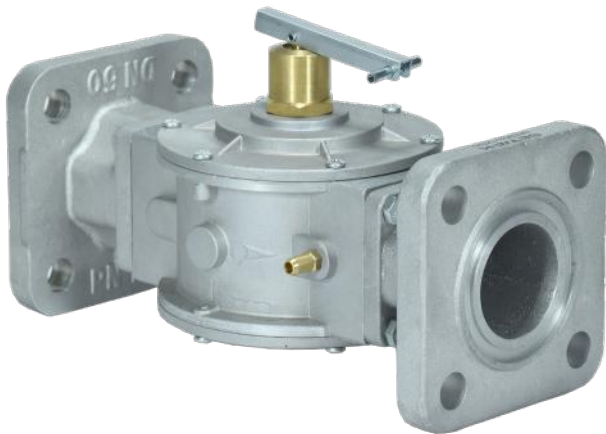
Different Types of Layout



LEVER HAND VALVE

SET271

P1max:5bar/DN40,DN50

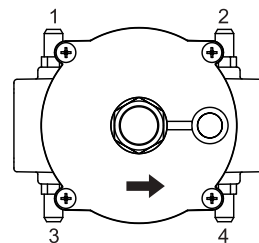


Lever Hand Valve allows to open or close the flow inside the pipe manually. Due to its well-designed passage, it has a small load loss and the remote interception operation makes the closing easier and faster than traditional ball valves. For the remote actuation of the valve a special kit must be used. This valve can handle pressure up to 5bar. In order to convert it into a flanged valve, A series of Integrated Flanges SET954 should also be ordered.

Specifications:

- INSO 22107 certification according to WI 017
- Sealing force classification: A (according to INSO 6800)
- Temperature range: -15°C to 60°C
- Gas type: NG, LPG, Town gas, AIR
- Weight: 2 kg
- Connections: DN40 (Rp 1 1/2), DN50 (Rp 2)
- Thread According to ISO 7-1, EN 10226
- Max. Inlet pressure: 5bar

Example of ordering code	
Type	SET271
Nominal size (Rp 2)	/DN50
Maximum inlet pressure (5 bar)	/5
PTN spot (pos. 4)	/T4
Ordering code	SET271/DN50/5/T4

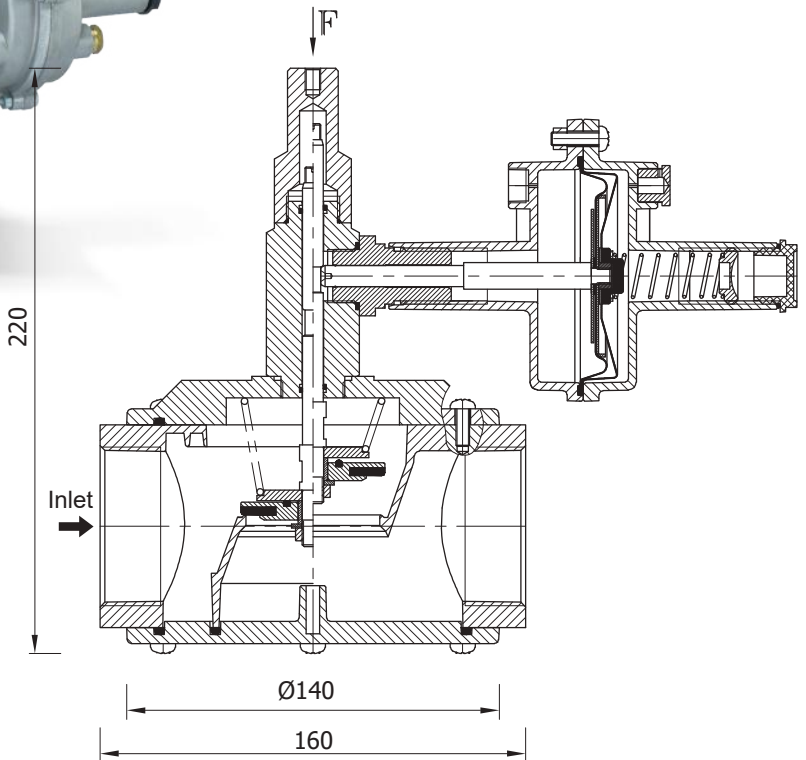
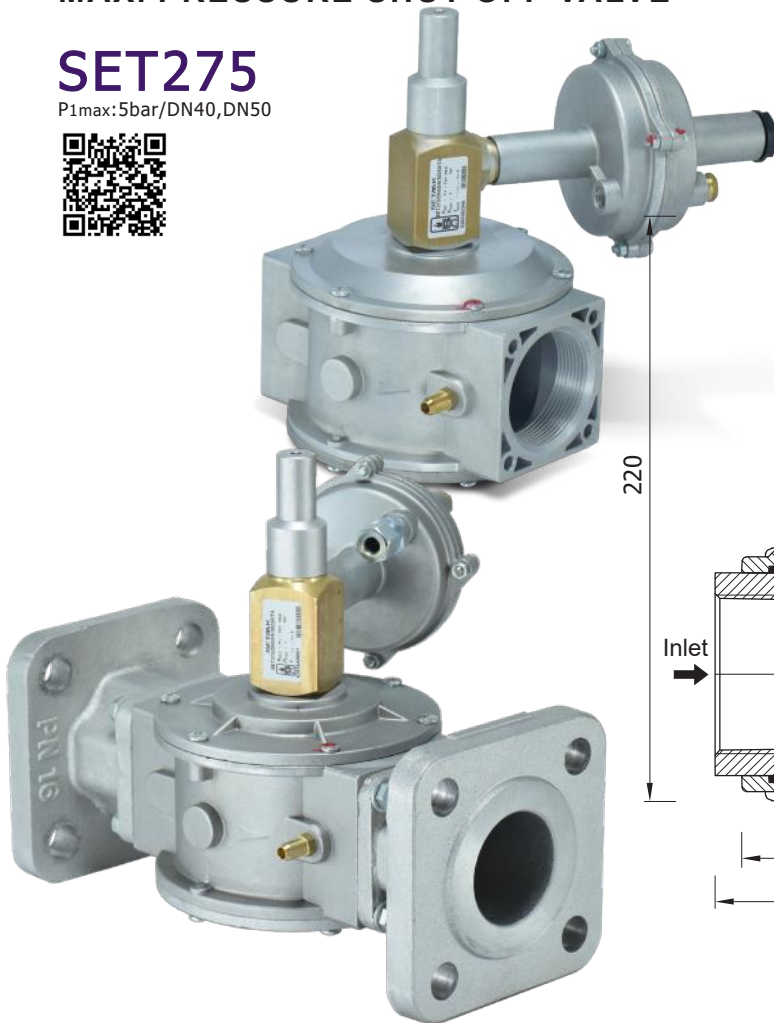


Pressure Tapping Nipples
pos.4 factory option
Top View (This is a schematic view)

MAX. PRESSURE SHUT OFF VALVE

SET275

P_{max}: 5bar/DN40, DN50



Max. Pressure Shut Off Valve shuts off gas flow upstream in order to make the entire system safe. When the pressure exceeds the set pressure, the valve closes automatically. The valve can only be opened manually and this must only be after solving the problem that caused the closure. In order to convert it into a flanged Shut Off Valve, A series of Integrated Flanges SET954 should also be ordered.

Specifications:

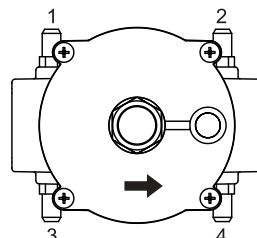
- INSO 22107 certification
- Sealing force classification: A (according to INSO 6800)
- Temperature range: -15°C to 60°C
- Gas type: NG, LPG, Town gas, AIR
- Connections: DN40 (Rp 1 1/2), DN50 (Rp 2)
- Thread According to ISO 7-1, EN 10226
- Weight: 3 kg
- Max. Inlet pressure: 5 bar
- Sensor hole connection: DN8 (G1/4)
- In accordance with DIN ISO 228
- Closing time: <1 S

Spring For the Shut Off Setting

Spring code	color	P(mbar)
SY20/17x57/90	Yellow	30-250
SR25/18x50/80	Red	120-450
SC15/9x52/19+SR25/18x50/80	Colorless-Red	200-800*

* Reinforced diaphragm

Example of ordering code	
Type	SET275
Nominal size (Rp 2)	/DN50
Max. Inlet pressure (5 bar)	/5
Outlet pressure (30-250 mbar)	/30250
PTN spot (pos. 4)	/T4
Ordering code	SET275/DN50/5/30250/T4

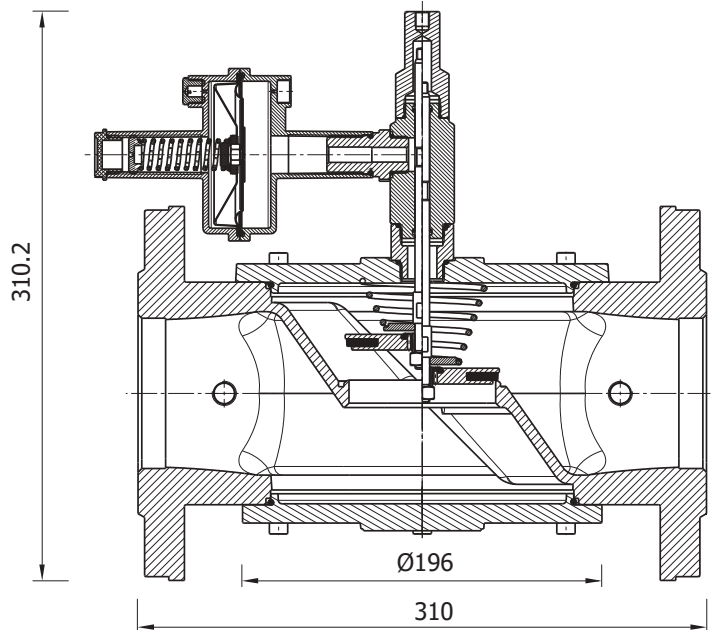


Pressure Tapping Nipples
pos.4 factory option
Top View (This is a schematic view)

MAX. PRESSURE SHUT OFF VALVE

SET275

P1max:5bar/DN65,DN80



Max. Pressure Shut Off Valve shuts off gas flow upstream in order to make the entire system safe. When the pressure exceeds the set pressure, the valve closes automatically. The valve can only be opened manually and this must only be after solving the problem that caused the closure. In order to convert it into a flanged Shut Off Valve, A series of Integrated Flanges SET954 should also be ordered.

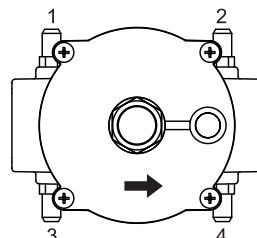
Specifications:

- INSO 22107 certification
- Sealing force classification: A (according to INSO 6800)
- Temperature range: -15°C to 60°C
- Gas type: NG, LPG, Town gas, AIR
- Connections: DN65, DN80
- Flange According to ISO 7005, DIN 10924
- Weight: DN65: 8 kg DN80: 8.5 kg
- Max. Inlet pressure: 5 bar
- Sensor hole connection: DN8 (G1/4)
- In accordance with DIN ISO 228
- Closing time: <1 S

Spring For the Shut Off Setting

Spring code	color	P(mbar)
SY20/17x57/90	Yellow	30-450

Example of ordering code	
Type	SET275
Nominal size (Rp 3)	/DN80
Max. Inlet pressure (5 bar)	/5
Outlet pressure (30-450 mbar)	/30450
PTN spot (pos. 4)	/T4
Ordering code	SET275/DN80/5/30450/T4



Pressure Tapping Nipples pos.4 factory option
Top View (This is a schematic view)

FILTERS

Gas Filters are producing in different varieties including SET351, SET353, SET304 and SET345 with inlet pressure up to 2 or 5 bar. The large filter element area in SETAAK filter reduces the pressure drop and achieve greater capacity

Specifications:

INSO 22107 certification according to EN 13611

Classification: Group 2

Temperature range: -15°C to 60°C

Gas type: NG, LPG, Town gas, AIR

Thread According to ISO 7-1, EN 10226

Flanged connections in accordance with ISO 7005-PN16

Max. Operating pressure range:

1: up to 2 bar

2: 2-5 bar

Filter specifications

Material of filtration element: Synthetic washable fibers

Classification of filter: M5 (according to EN779-2012)

Trapping efficiency: 95%

Filtration: 50 µm (on request other filtration qualities)

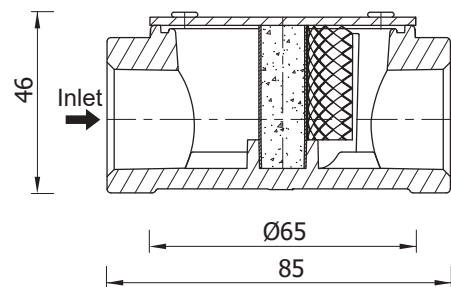
Atmospheric just efficiency: 50-55%

SET304

P1max:2bar/DN20



Weight: 0.23 kg
Connections: Rp3/4
filter area: 1500 mm²

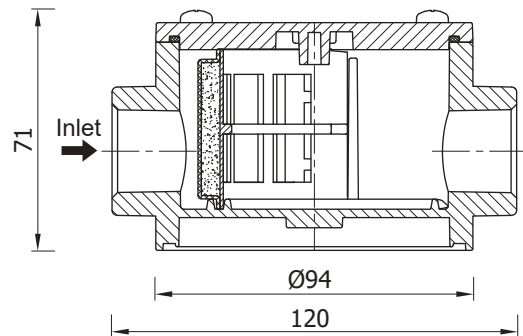


SET345

P1max:2bar,5bar/DN15,DN20,DN25



Weight: 0.44 kg
Connections: Rp1/2,3/4,1
filter area: 4400 mm²

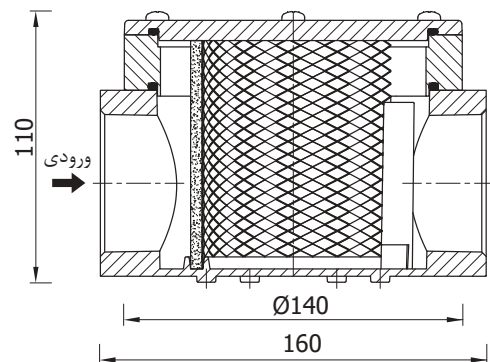


SET353

P1max:2bar,5bar/DN40,DN50



Weight: 1.6 kg
Connections: Rp1 1/2,2
filter area: 20000 mm²
In order to convert it into a flanged Filter, A series of Integrated Flanges SET954 should also be ordered.

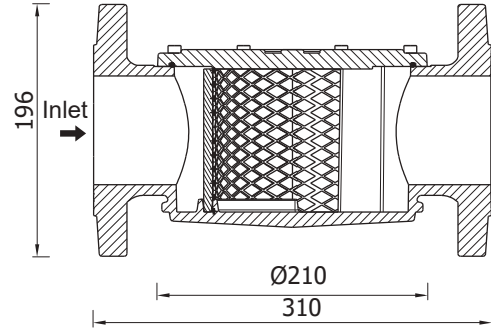


SET351

P1max: 2bar, 5bar/DN65



Weight: 6.7 kg
 Connection: DN65
 ISO 7005
 DIN EN 1092-19
 filter area: 37500 mm²

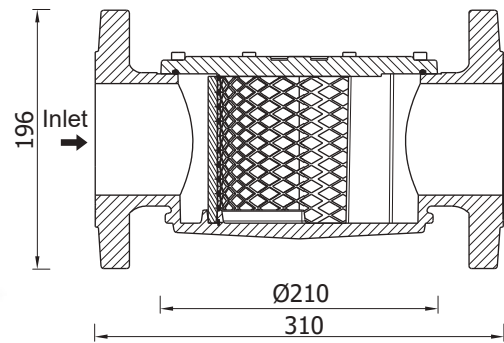


SET351

P1max: 2bar, 5bar/DN80



Weight: 6.5 kg
 Connections: DN80
 ISO 7005
 DIN EN 1092-19
 filter area: 37500 mm²

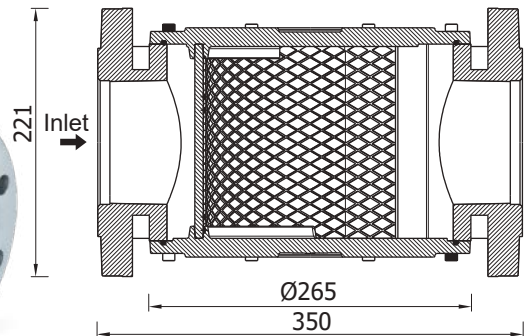


SET351

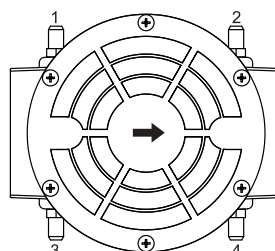
P1max: 2bar, 5bar/DN100



Weight: 10.8 kg
 Connections: DN100
 ISO 7005
 DIN EN 1092-19
 filter area: 75000 mm²



Example of ordering code	
Type	SET353
Nominal size (Rp 2)	/DN50
Maximum inlet pressure (5 bar)	/5
Max. spot (pos. 3&4)	/T34
Ordering code	SET353/DN50/5/T34



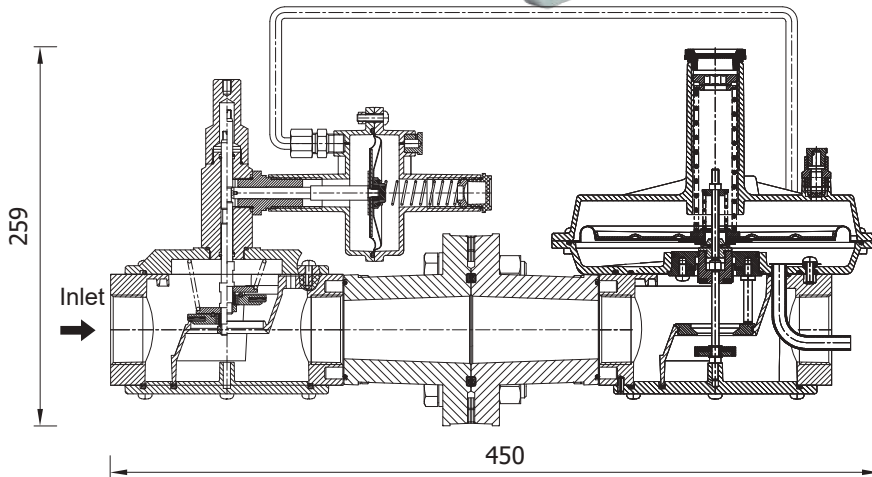
Pressure Tapping Nipples
 Up to DN50 without PTN.
 Pos.3&4 factory option for larger than DN50.

Top View (This is a schematic view)

REGULATOR-MAX. PRESSURE SHUT OFF VALVE UNIT

SET852H

P1max:5bar/DN40, DN50



Regulator - Max. Pressure Shut Off Valve Unit SET852(H) with inlet pressure up to 5 bar includes a Max. Pressure Shut Off Valve SET275, and a Regulator SET252(H), gas line connections, and required Sensor line connections.

The main advantages of this unit are: 1- Easy installation is the main benefit of this unit. 2- Reduce the risk of human error and ensure proper assembling of parts. 3- Use standard connections with high reliability. In order to convert it into a flanged regulator, A series of Integrated Flanges SET954 should also be ordered.

Specifications:

Regulator SET252(H) in accordance with EN 88-1 (EN88-2)

Max. Pressure Shut Off Valve SET275 in accordance with INSO 22107

Temperature range: -15°C to 60°C

Weight: 8.5 Kg

Gas type: NG, LPG, Town gas, AIR

Connections: DN40 (Rp 1 1/2), DN50 (Rp 2)

Thread According to ISO 7-1, EN 10226

Operating pressure range: 0.5 – 5 bar

Sensor hole connection: DN8 (G1/4)

In accordance with DIN ISO 228

Product Type	P1	P2(mbar)	(mbar)	
SET852	Up to 500mbar (Code 05)	8-13	30-250	
		13-20		
		15-25		
		25-43		
		43-70		
		33-58		
SET852H	0.5-5 bar (Code 5)	55-110	120-450	
		90-200		
		10-22		30-250
		17-32		
		32-60		
		50-95		200-800*
		85-180		
150-350*				
300-500*				
		500-750*		

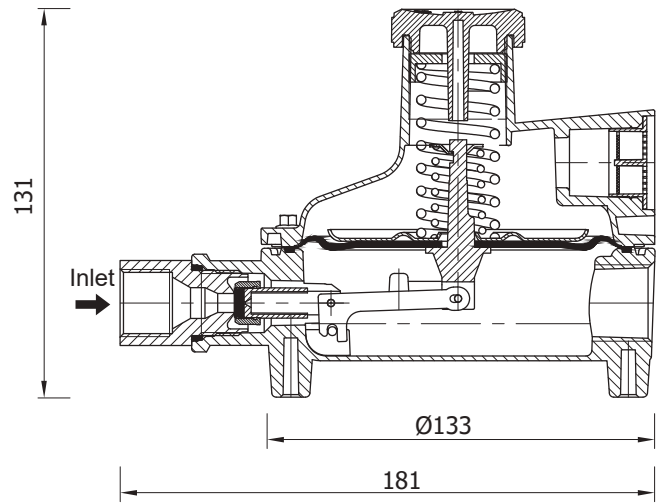
With reinforced diaphragm*

Example of ordering code	
Type	SET852H
Nominal size (Rp 2)	/DN50
Maximum inlet pressure (0.5-5 bar)	/5
Outlet pressure (85-180 mbar)	/85180
PTN spot	/T4
Ordering code	SET852H/DN50/5/85180/T4

HIGH PRESSURE FIRST STAGE REGULATOR

SET291

P_{1max}: 17.5bar



First stage regulator SET291 Provides accurate first stage regulation in two-stage bulk tank systems. Reduce tank pressure to an intermediate pressure of 1 to 10 PSIG(70-700 mbar). Also used to supply high pressure burners for applications like industrial furnaces or boilers. In addition, there is an incorporated integral relief valve for added system protection. In this model bonnet vent positioned over outlet to avoid icing and contamination by foreign material.

Specifications:

- Thread According to EN 16129 and UL144
- Temperature range: -30°C to 60°C
- Gas type: LPG, Propane, Butane
- Weight: 1.3 Kg
- Max. Inlet pressure: 250 PSIG, 17.5 bar

Ordering Information

Ordering Code ●	Adjustment Range mbar (PSIG)	Factory Delivery Pressure mbar (PSIG)	Input connection	Output connection	Orifice Size mm(inch)
SET291/1212/1	70-350(1-5)	350(5)	1/2F. NPT	1/2F. NPT	6.4 (1/4)
SET291/1212/2 *	350-700(5-10)	700(10)			
SET291/P12/1	70-350(1-5)	350(5)	F. POL **	3/4F. NPT	
SET291/P12/2 *	350-700(5-10)	700(10)			
SET291/P34/1	70-350(1-5)	350(5)			
SET291/P34/2 *	350-700(5-10)	700(10)			

* Produced according to customer's order.

** Equivalent to CGA510 and NGO-HL 0.885-14

50 kg/h of propane is in a condition where the outlet pressure drop is 20% relative to the set pressure and the inlet pressure is equal to the set outlet pressure plus 20 PSIG.

Warning: When used for final stage pressure control, it must have an integral relief valve or a separate relief valve must be specified.

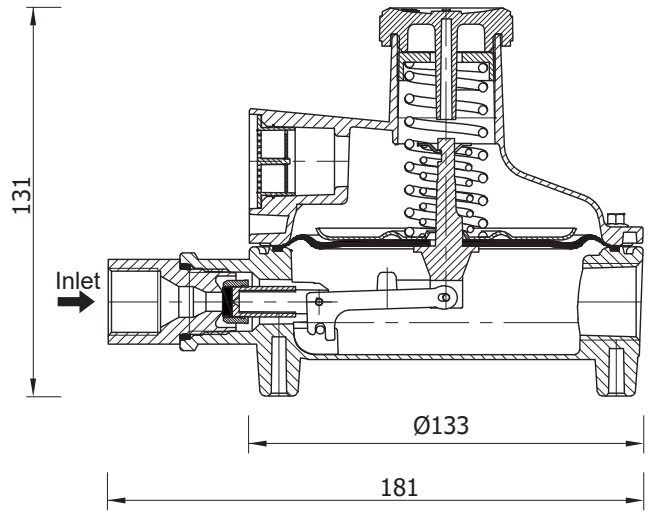
Warning: In a fixed pipe system, regulators installed indoors require a vent line to the outside air. Regulator has 3/4" F.NPT thread for vent piping.

Measuring the output pressure: Built in pressure tap has plugged 1/8" F.NPT outlet. Plug can be removed with a 3/16" hex allen wrench.

**LOW PRESSURE SECOND STAGE
REGULATOR**

SET292

P_{1max}:1.4bar



Designed to reduce first stage pressure of 5 to 20 PSIG down to burner pressure, normally 11" w.c. Ideal for medium commercial installations, multiple cylinder installations and normal domestic loads. Its large vent helps prevent blockage. Also, Here is an incorporated integral relief valve for added system protection.

Specifications:

- Thread According to EN 16129 and UL144
- Temperature range: -30°C to 60°C
- Gas type: LPG, Propane, Butane
- Weight: 1.3 Kg
- Max. Inlet pressure: 20 PSIG, 1.4 bar

Ordering Information

Ordering Code	Adjustment Range mbar (PSIG)	Factory Delivery Pressure mbar (PSIG)	Input connection	Output connection	Orifice Size mm(inch)
SET292/1212	23-33 (9"-13")	28 (11")	1/2F. NPT	1/2F. NPT	6.4 (1/4)
SET291/1234				3/4F. NPT	
SET291/3434			3/4F. NPT		

20 kg/hr of propane based on 700 mbar (10 psig) inlet pressure and 23 mbar (9" w.c.) outlet pressure.

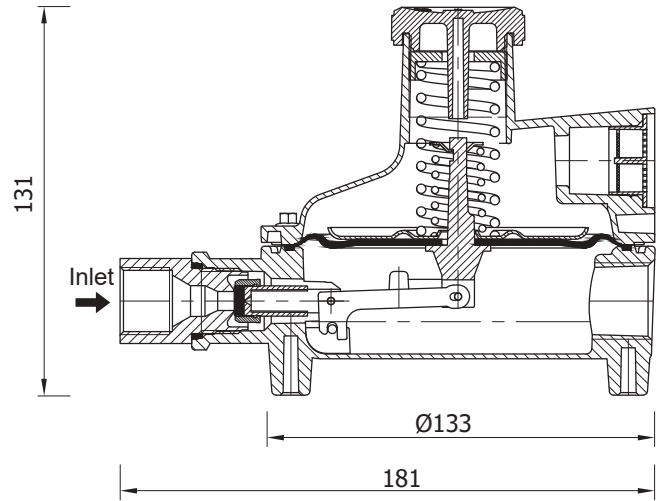
Warning: In a fixed pipe system, regulators installed indoors require a vent line to the outside air. Regulator has 3/4" F.NPT thread for vent piping.

Measuring the output pressure: Built in pressure tap has plugged 1/8" F.NPT outlet. Plug can be removed with a 3/16" hex Allen wrench.

TWIN STAGE REGULATOR

SET293

P_{max}:10bar



Designed to reduce pressure up to 10 bar down to burner pressure, normally 11" w.c. Ideal for medium commercial installations, multiple cylinder installations and normal domestic loads. Its large vent helps prevent blockage. However, this regulator has limitations, such as lower capacity in comparison with two stage system.

Specifications:

- According to EN 16129 and UL144
- Temperature range: -30°C to 60°C
- Gas type: LPG, Propane, Butane
- Weight: 1.3 Kg
- Max. Inlet pressure: 150 PSIG, 10 bar

Ordering Information

Ordering Code	Adjustment Range mbar (PSIG)	Factory Delivery Pressure mbar (PSIG)	Input connection	Output connection	Orifice Size mm(inch)
SET293/1212/2333	23-33 (9"-13")	28 (11")	1/2F. NPT	1/2F. NPT	6.4 (1/4)
SET293/1234/2333				3/4F. NPT	
SET293/3434/2333			3/4F. NPT		



14 kg/hr of propane based on 4 bar (60 psig) inlet pressure and 23 mbar (9" w.c.) outlet pressure.

Warning: In a fixed pipe system, regulators installed indoors require a vent line to the outside air. Regulator has 3/4" F.PTN thread for vent piping.

Measuring the output pressure: Built in pressure tap has plugged 1/8" F.PTN outlet. Plug can be removed with a 3/16" hex Allen wrench.

ACCESSORIES

Specifications:

Ordering code	Dimensions mm	Weight Kg	Description	Product Type
SET950X/DN25	Ø70x40	1.3	Rotating flange SET950X with Flange interface are suitable for converting threaded DN25 regulators, controls, relief valves and etc. Into a flanged one.	SET950X 
SET954/DN40	136x130x88	2.5	integrated flange SET954 is de ined to convert SETAAK threaded DN40,50 products into a flanged control.This product is specifically for SETAAK controls and includes two sets of integrated flanges, M8(x8)screws with washers, M16(x8) screws with washers and nuts, O-rings (x2) and sealing washers(x2).	SET954 
SET954/DN50	136x130x88	2.2		

LOCSET ANAEROBIC ADHESIVE

Anaerobic adhesive is used for various purposes such as sealing of threaded connections, surface sealing, and retaining coaxial parts like bearings. They have different strengths, including easy, medium, and hard opening. They also vary in concentration and temperature. They start to stick only after being placed between two metal surfaces with low looseness. These adhesives have a shelf life of at least one year in the air and room temperature and are available in packages of 50 and 250 grams or more.



Ordering code	Color	Strength class	Maximum temperate	Concentration	Description
LOCSET1131	●	Low	150	Medium	Low strength thread locking, For sealing of screws and thread connections, even for fine threads and grub screws, Easy to loosen.
LOCSET1231	●	Medium	150	Medium	Medium strength thread locking, sealing of thread and pipe connection, The standard product for securing of threads and sealing of threads, especially for sealing gas and oil pipe connections, With lubricating effect, Can be loosen.
LOCSET1231T	●	Medium	220	Medium	Medium strength thread locking, sealing of thread and pipe connection, The standard product for securing of threads and sealing of threads, especially for sealing gas and oil pipe connections, with lubricating effect, can be loosen.
LOCSET1331	●	High	150	Medium	High strength (permanent) thread locking and sealing, For bonding of coaxial parts like bearings, Locking and sealing of high temperature to 220 c resistance, Disassembly difficult.
LOCSET1523	●	High	220	Low	High strength (permanent) thread locking and sealing, low viscosity, for bonding of coaxial parts, bearing and bushings, Locking and sealing connection with high temperature to 220 c resistance, disassembly difficult.
LOCSET1531	●	High	220	Medium	High strength (permanent) thread locking and sealing, medium viscosity, For bonding of coaxial parts, bearing and bushings, Locking and sealing connection with high temperature to 220 c resistance, Disassembly difficult.
LOCSET2238	●	Medium	150	High	Medium strength and high viscosity for sealing of threads and pipe connection, Replace hemp and Teflon tape, Especially for sealing gas and oil pipe connections, Can be loosen.
LOCSET2241	○	Medium	150	Super high	Medium strength and high viscosity based on PTFE, For securing and sealing of pipe fittings and metal thread connections, replaces hemp and Teflon tape, with lubricating effect, Can be loosen
LOCSET2338	●	High	150	Super high	High strength and high viscosity, For sealing of thread and pipe connections, and sealing of surfaces, especially in the field of hydraulics resistance pressure up to 65 bar, Also for fastening of coaxial parts, bushings, bearings and shaft-hub-connections, Disassembly difficult.
LOCSET3247	●	Medium	150	Pasty	Low strength and high viscosity for sealing of surfaces, flanges and pipe connections, Run resistance even when applied on vertical surfaces, Easy to detach.
LOCSET4433	●	Super high	175	Rather high	Bonding agent with super strength and high viscosity for fastening of coaxial components, bearings, bushings, and shaft-hub connections, permanent thread locking and sealing of thread connection, Level out uneven surfaces and gaps up to 0.3 mm, Very fast curing, With high heat resistance, Disassembly extremely difficult.

- Note:**
- 1- Color is not a specific sign of strength, concentration or etc.
 - 2- In the case of the first experience, it is recommended to choose an adhesive with a strength of one degree weaker than you mean.
 - 3- Contact the sales agents or the central sales unit for additional technical information.

