



REXI-HC

DIRECT ACTING PRESSURE REGULATOR

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Control

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Being a Group means having the culture, expertise, service and products the Customer needs to succeed.

CPF Industriale, Geca and Tecnocontrol have been created to meet market demand in real time, to show credibility and structural strength.

It's true. We're a resilient group because in over 70 years we have been able to understand and bring technology, products and customer service in line with the real needs of our Customers, who have changed incredibly over time. We have placed extreme attention on listening, analysing and studying without interfering with the final goal: **Uncompromised Quality.**

Our Group is currently able to design, manufacture and sell in the OEM, Industrial Gas Companies, Plumbing and Heating, HVAC, Gas distribution, Gas Safety and Oil & Gas sectors and operates in 91 countries worldwide.





REXI-HC with Slam Shut valve

The **REXI-HC Series** is a direct-acting pressure regulator with balanced plug, or **REXI-HC/D** series pressure regulators is direct acting devices for low and medium pressure applications controlled by a diaphragm and counter spring, for low, medium and high pressures. Suitable for non-corrosive gases; thanks to the concept of a balanced plug, you can achieve a high flow rate coefficient, highly accurate (even at maximum flow rates), a lock up zone and relatively low lock up pressure, no internal leakage at zero flow rate and reduced response times.

The constancy of the regulated pressure and its accuracy, even with significant changes in the upstream pressure and/ or flow rate, make the **REXI-HC Series** regulator especially suitable for power distribution networks in civil and industrial plants. The basic version of the **REXI-HC Series** regulator is made according to European Standard **EN 334**, as a **Fail to Open regulator**.



REXI-HC without Slam Shut valve

The shut-off device can be calibrated for pressure increase, **Over Pressure Shut-Off (OPSO)** and/or for pressure decrease, **Under Pressure Shut-Off (UPS0)**. The two intervention modes can be calibrated independently by dedicated calibration springs: one spring for the maximum pressure intervention and the second spring for the minimum pressure intervention. **REXI-HC series can be supplied also without Slam Shut valve.**

The **REXI-HC Series** can be equipped with an incorporated relief valve that discharge the gas into the atmosphere when the regulator outlet pressure exceeds the set value. When the outlet pressure returns to below the set value, the relief valve closes again.

The **MONITOR** is a safety accessory that performs the functions of the service regulator when the main regulator fails. This is a regulator valve that is usually fully open during normal operation of the service regulator. The **MONITOR** is an emergency pressure regulator that is usually upstream, in the direction of the gas flow, of another pressure regulator that performs the function of a **SERVICE** regulator.

OPERATING FEATURES

Maximum inlet pressure (Pu) 20 bar

Outlet pressure (Pd) 5 mbar to 4,5 bar * (*refer to the table*)

Slam Shut valve OPSO 30 mbar to 6,0 bar * (*refer to the table*)
UPSO 6 mbar to 3,5 bar * (*refer to the table*)

Relief Valve Pd + 15 mbar to 3000 mbar * (*refer to the table*)

AC Accuracy class up to 5 (*depending on version and set point*)

SG Lock up class up to 10 (*depending on version and set point*)

Minimum operating differential pressure (Δp_{min1}) 100 mbar

Working Temperature - 20°C to + 60°C

Use Not Aggressive gases of three families - NG
LPG - Town Gas - Air

Dimension DN25 - DN40 - DN50
PN16/25 according to ISO 7005-1 and ISO 7005-2.
On Request ANSI Class 125 FF according to ASME B16.1

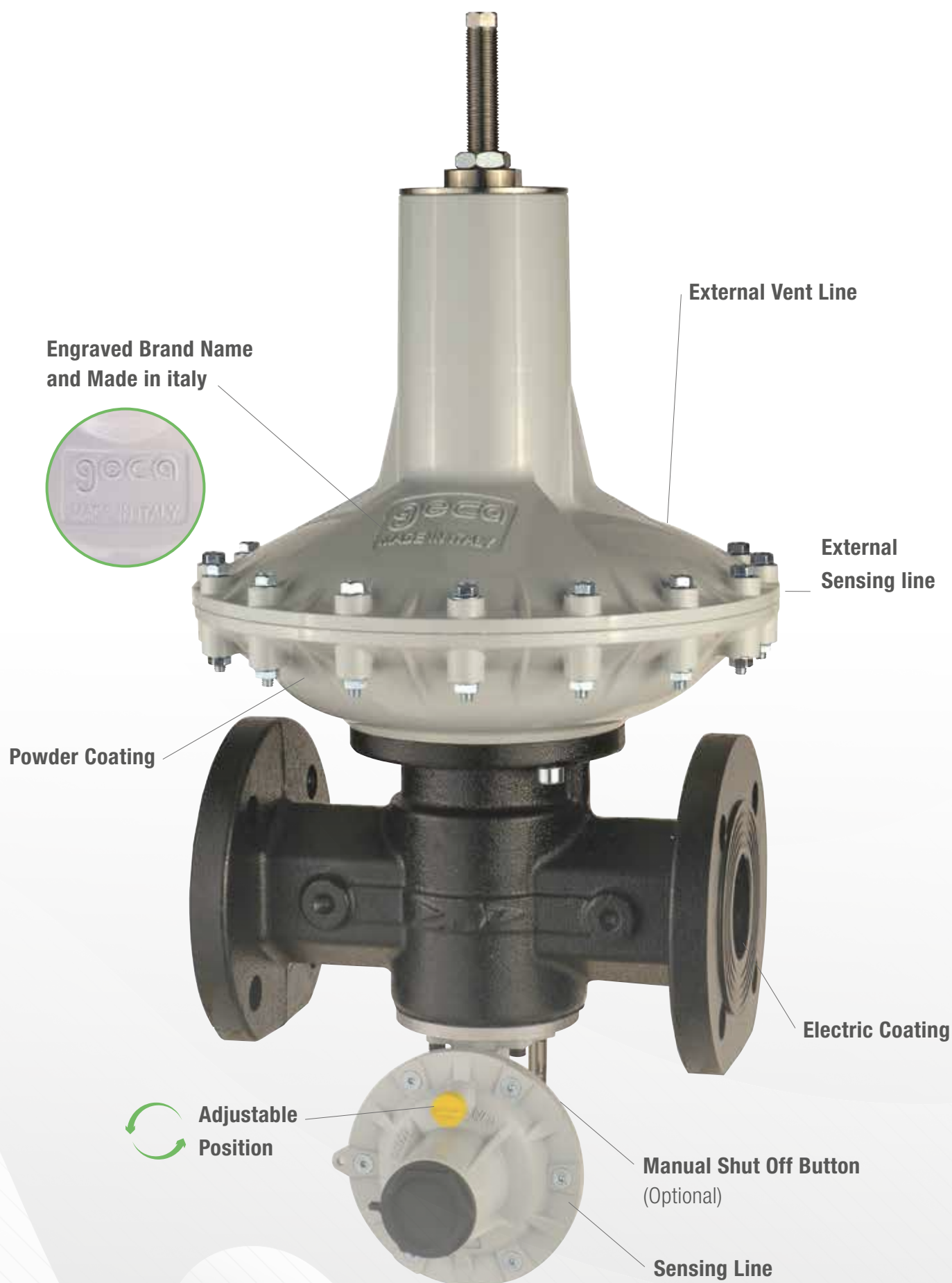
Body Cast Iron GJS 400-18
Aluminum EN46100
Painted

Diaphragms Reinforced NBR

O-rings Nitrile rubber

The REXI regulator is designed according to European standard EN 334.
The regulator reacts in opening (Fail Open) according to EN 334.
The product is certified according to European Directive 2014/68/EU (PED).

MAIN FEATURES



CODE	DESCRIPTION
Direct Acting with balanced plug - DN25-DN25 - with Relief Valve	
RGD25 - HC - LP - RV	Gas Regulator DN25 - DN25 - Pmax 10 bar - LP Version - Outlet Range 10 - 120 mbar - Relief Valve
RGD25 - HC - MP - RV	Gas Regulator DN25 - DN25 - Pmax 20 bar - MP Version - Outlet Range 70 - 350 mbar - Relief Valve
RGD25 - HC - HP - RV	Gas Regulator DN25 - DN25 - Pmax 20 bar - HP Version - Outlet Range 280 - 4500 mbar - Relief Valve
Direct Acting with balanced plug - DN40 - DN40 with Relief Valve	
RGD40 - HC - LP - RV	Gas Regulator DN40 - DN40 - Pmax 10 bar - LP Version - Outlet Range 10 - 120 mbar- Relief Valve
RGD40 - HC - MP - RV	Gas Regulator DN40 - DN40 - Pmax 20 bar - MP Version - Outlet Range 70 - 350 mbar - Relief Valve
RGD40 - HC - HP - RV	Gas Regulator DN40 - DN40 - Pmax 20 bar - HP Version - Outlet Range 280 - 4500 mbar - Relief Valve
Direct Acting with balanced plug - DN50 - DN50 with Relief Valve	
RGD50 - HC - LP - RV	Gas Regulator DN50 - DN50 - Pmax 10 bar - LP Version - Outlet Range 10 - 120 mbar - Relief Valve
RGD50 - HC - MP - RV	Gas Regulator DN50 - DN50 - Pmax 20 bar - MP Version - Outlet Range 70 - 350 mbar - Relief Valve
RGD50 - HC - HP - RV	Gas Regulator DN50 - DN50 - Pmax 20 bar - HP Version - Outlet Range 280 - 4500 mbar - Relief Valve
Direct Acting with balanced plug - DN25-DN25 - without Relief Valve	
RGD25 - HC - LP	Gas Regulator DN25 - DN25 - Pmax 10 bar - LP Version - Outlet Range 10 - 120 mbar
RGD25 - HC - MP	Gas Regulator DN25 - DN25 - Pmax 20 bar - MP Version - Outlet Range 70 - 350 mbar
RGD25 - HC - HP	Gas Regulator DN25 - DN25 - Pmax 20 bar - HP Version - Outlet Range 280 - 4500 mbar
Direct Acting with balanced plug - DN40 - DN40 without Relief Valve	
RGD40 - HC - LP	Gas Regulator DN40 - DN40 - Pmax 10 bar - LP Version - Outlet Range 10 - 120 mbar
RGD40 - HC - MP	Gas Regulator DN40 - DN40 - Pmax 20 bar - MP Version - Outlet Range 70 - 350 mbar
RGD40 - HC - HP	Gas Regulator DN40 - DN40 - Pmax 20 bar - HP Version - Outlet Range 280 - 4500 mbar
Direct Acting with balanced plug - DN50 - DN50 without Relief Valve	
RGD50 - HC- LP	Gas Regulator DN50 - DN50 - Pmax 10 bar - LP Version - Outlet Range 10 - 120 mbar
RGD50 - HC - MP	Gas Regulator DN50 - DN50 - Pmax 20 bar - MP Version - Outlet Range 70 - 350 mbar
RGD50 - HC - HP	Gas Regulator DN50 - DN50 - Pmax 20 bar - HP Version - Outlet Range 280 - 4500 mbar

Range mentioned in above description is the full range. It is possible to get with different springs. \ Please select the right spring from the table in the product catalogue.

For monitor version, put M before the product code.

CODE	DESCRIPTION
Direct Acting - DN25-DN25 - with Relief Valve	
RGD25 - HC/D - LP - RV	Gas Regulator DN25 - DN25 - Pmax 10 bar - LP Version - Outlet Range 10 - 120 mbar - Relief Valve
RGD25 - HC/D - MP - RV	Gas Regulator DN25 - DN25 - Pmax 20 bar - MP Version - Outlet Range 70 - 350 mbar - Relief Valve
RGD25 - HC - HP - RV	Gas Regulator DN25 - DN25 - Pmax 20 bar - HP Version - Outlet Range 280 - 4500 mbar - Relief Valve
Direct Acting - DN40 - DN40 with Relief Valve	
RGD40 - HC/D - LP - RV	Gas Regulator DN40 - DN40 - Pmax 10 bar - LP Version - Outlet Range 10 - 120 mbar- Relief Valve
RGD40 - HC/D - MP - RV	Gas Regulator DN40 - DN40 - Pmax 20 bar - MP Version - Outlet Range 70 - 350 mbar - Relief Valve
RGD40 - HC/D - HP - RV	Gas Regulator DN40 - DN40 - Pmax 20 bar - HP Version - Outlet Range 280 - 4500 mbar - Relief Valve
Direct Acting - DN50 - DN50 with Relief Valve	
RGD50 - HC/D- LP - RV	Gas Regulator DN50 - DN50 - Pmax 10 bar - LP Version - Outlet Range 10 - 120 mbar - Relief Valve
RGD50 - HC /D- MP - RV	Gas Regulator DN50 - DN50 - Pmax 20 bar - MP Version - Outlet Range 70 - 350 mbar - Relief Valve
RGD50 - HC/D - HP - RV	Gas Regulator DN50 - DN50 - Pmax 20 bar - HP Version - Outlet Range 280 - 4500 mbar - Relief Valve
Direct Acting - DN25-DN25 - without Relief Valve	
RGD25 - HC/D - LP	Gas Regulator DN25 - DN25 - Pmax 10 bar - LP Version - Outlet Range 10 - 120 mbar
RGD25 - HC/D- MP	Gas Regulator DN25 - DN25 - Pmax 20 bar - MP Version - Outlet Range 70 - 350 mbar
RGD25 - HC/D- HP	Gas Regulator DN25 - DN25 - Pmax 20 bar - HP Version - Outlet Range 280 - 4500 mbar
Direct Acting - DN40 - DN40 without Relief Valve	
RGD40 - HC/D - LP	Gas Regulator DN40 - DN40 - Pmax 10 bar - LP Version - Outlet Range 10 - 120 mbar
RGD40 - HC/D - MP	Gas Regulator DN40 - DN40 - Pmax 20 bar - MP Version - Outlet Range 70 - 350 mbar
RGD40 - HC/D - HP	Gas Regulator DN40 - DN40 - Pmax 20 bar - HP Version - Outlet Range 280 - 4500 mbar
Direct Acting - DN50 - DN50 without Relief Valve	
RGD50 - HC/D- LP	Gas Regulator DN50 - DN50 - Pmax 10 bar - LP Version - Outlet Range 10 - 120 mbar
RGD50 - HC/D - MP	Gas Regulator DN50 - DN50 - Pmax 20 bar - MP Version - Outlet Range 70 - 350 mbar
RGD50 - HC/D - HP	Gas Regulator DN50 - DN50 - Pmax 20 bar - HP Version - Outlet Range 280 - 4500 mbar

Range mentioned in above description is the full range. It is possible to get with different springs. \ Please select the right spring from the table in the product catalogue.
For monitor version, put M before the product code.

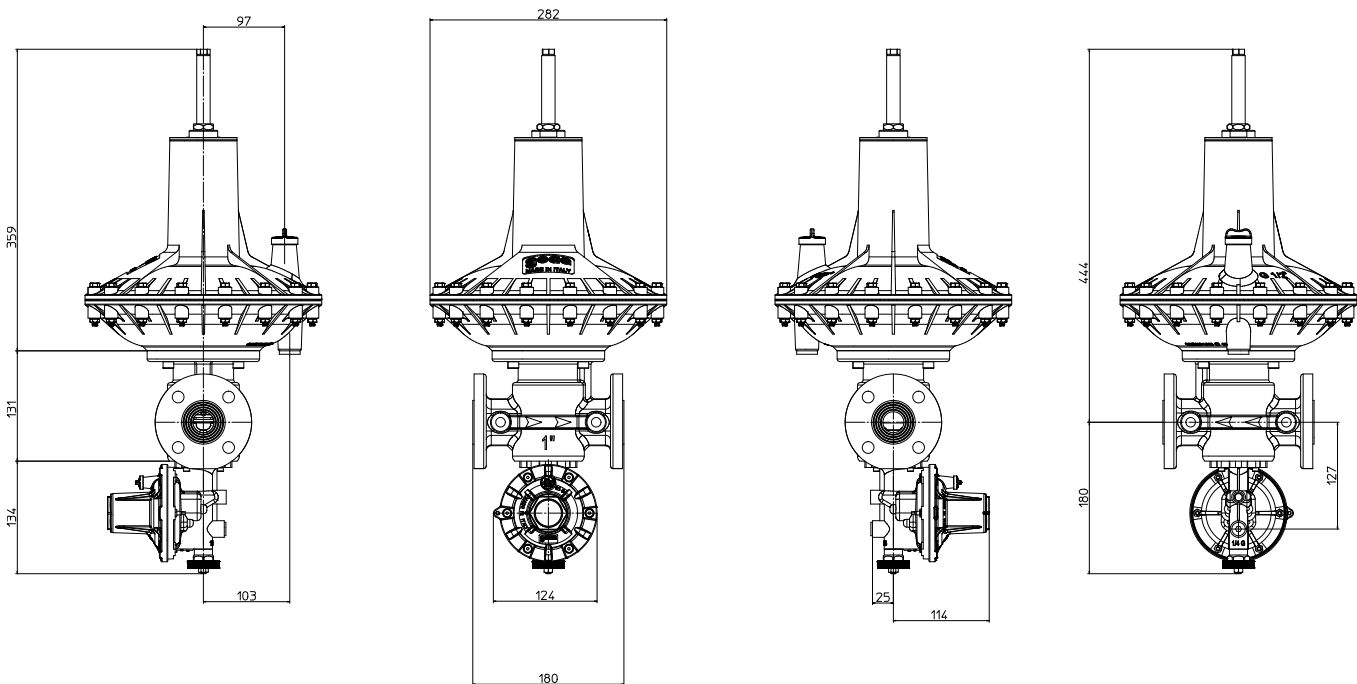
CODE	DESCRIPTION
Slam Shut Valve for RG Regulator - OPSO/UPS0	
SSV - LP	Slam Shut valve for RG Regulator LP Version - OPSO range 30 - 180 mbar / UPSO range 6 - 60 mbar
SSV - MP	Slam Shut valve for RG Regulator MP Version - OPSO range 50 - 850 mbar / UPSO range 6 - 500 mbar
SSV - HP	Slam Shut valve for RG Regulator HP Version - OPSO range 180 - 5500 mbar / UPSO range 60 - 3500 mbar

Slam Shut Valve for RG Regulator - OPS0	
SSV - LP - OPS0	Slam Shut valve for RG Regulator - LP Version - Only OPS0 range 30 - 180 mbar
SSV - MP - OPS0	Slam Shut valve for RG Regulator - MP Version - Only OPS0 range 50 - 850 mbar
SSV - HP - OPS0	Slam Shut valve for RG Regulator - HP Version - Only OPS0 range 180 - 6000 mbar

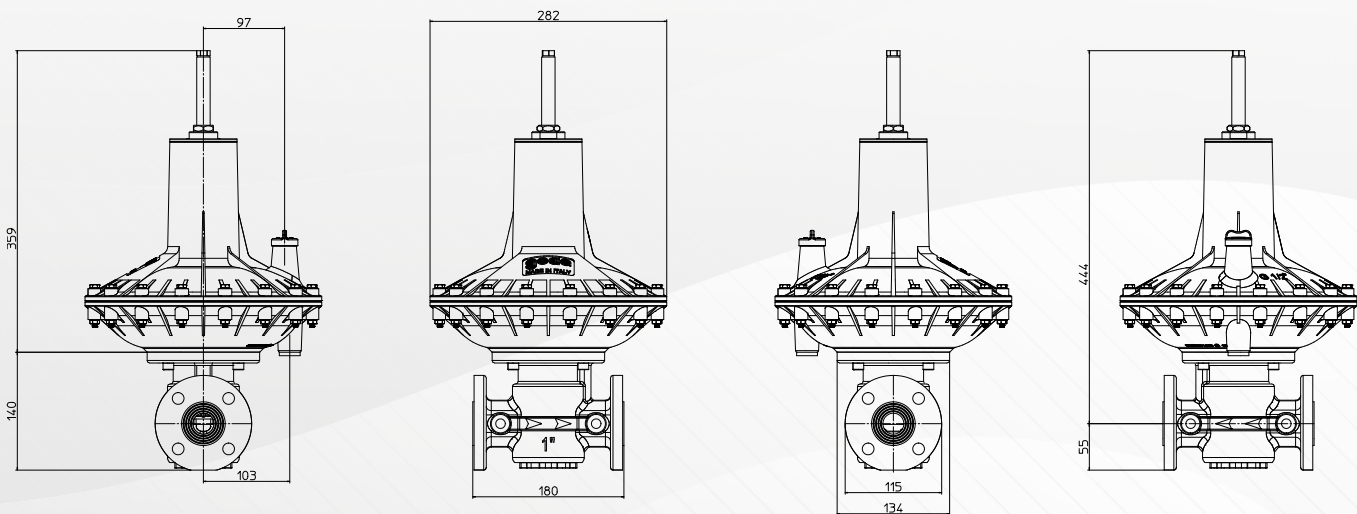
Slam Shut Valve for RG Regulator - UPS0	
SSV - LP - UPS0	Slam Shut valve for RG Regulator - LP Version - Only UPS0 range 6 - 60 mbar
SSV - MP - UPS0	Slam Shut valve for RG Regulator - MP Version - Only UPS0 range 6 - 500 mbar
SSV - HP - UPS0	Slam Shut valve for RG Regulator - HP Version - Only UPS0 range 60 - 3500 mbar

CODE	COLOR	RANGE (mbar)	TYPE OF PRODUCT
OUTLET			
SPN-RG-H C	Neutral	5 - 13	BP/MP
SPY-RG-HC	Yellow	10 - 18	BP/MP
SPG-RG-HC	Green	15 - 30	BP/MP
SPLB-RG-HC	Light blue	25 - 50	BP/MP
SPW-RG-HC	White	40 - 75	BP/MP
SPOR-RG-HC	Orange	60 - 120	BP/MP
SPB-RG-HC	Blue	100 - 170	MP
SPR-RG-HC	Red	145 - 270	MP
SPBK-RG-HC	Black	230 - 350	MP
SPW-RG-HC - HP	White	280 - 720	HP
SPG-RG-HC - HP	Green	590 - 1000	HP
SPLB-RG-HC-HP	Light blue	840 - 1250	HP
SPOR-RG-HC-HP	Orange	1050 - 2300	HP
SPPU-RG-HC-HP	Purple	2000 - 4500	HP
RELIFE VALVE			
SPLB-RV	Light Blue	15 - 40	LP
SPG-RV	Green	40 - 110	LP
SPR-RV	Red	80 - 1100	MP/HP
SPBK-RV	Black	1000 - 3000	HP
OPSO			
SPR-OPSO	Red	30 - 100	LP/MP
SPLB-OPRO	Light Blue	80 - 350	LP/MP
SPG-OPSO	Green	150 - 500	LP/MP
SPG-OPSO	Green	200 - 850	HP
SPB-OPSO	Blue	650 - 1200	HP
SPY-OPSO	Yellow	1000 - 1800	HP
SPPU-OPSO	Purple	1600 - 3000	HP
SPW-OPSO	White	2200 - 4000	HP
SPBK-OPSO	Black	3500 - 6000	HP
UPS0			
SPLB-UPS0	Light Blue	6 - 60	LP/MP
SPR-UPS0	Red	60 - 500	MP/HP
SPBK-UPS0	Black	500 - 1000	HP
SPY-UPS0	Yellow	1000 - 2000	HP
SPB-UPS0	Blue	2000 - 3500	HP

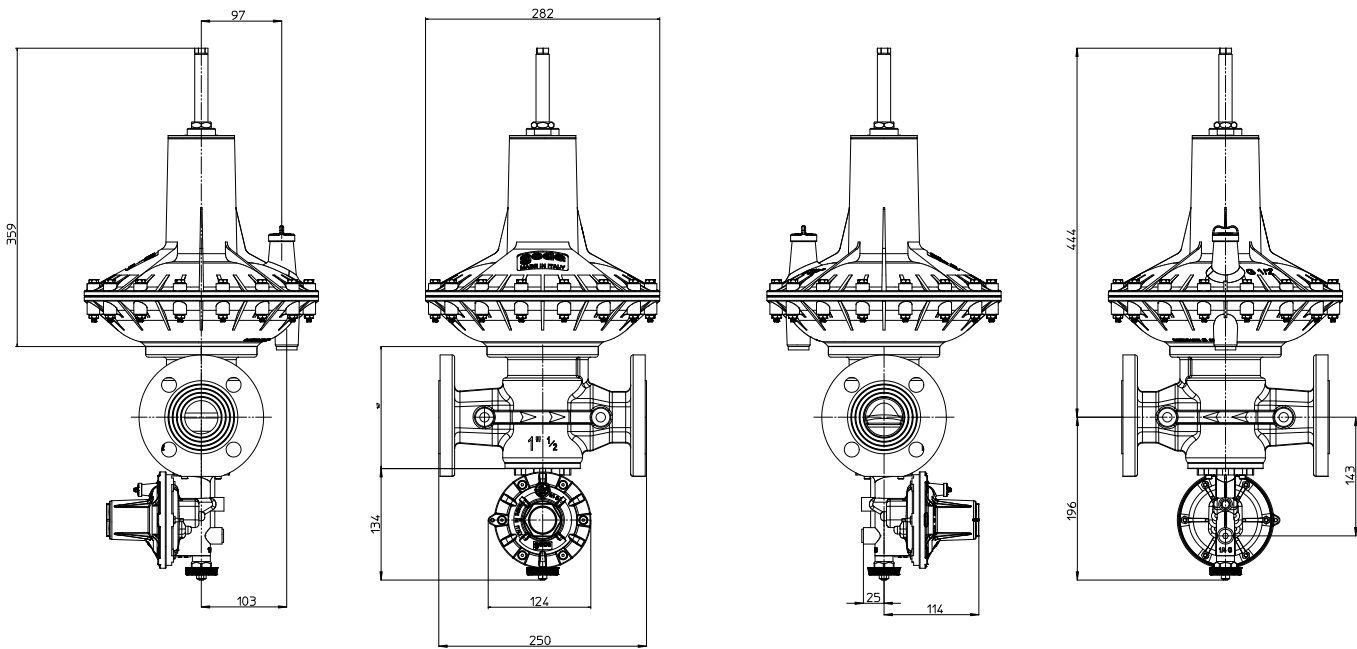
Gas Regulator with SSV - DN25 - DN25



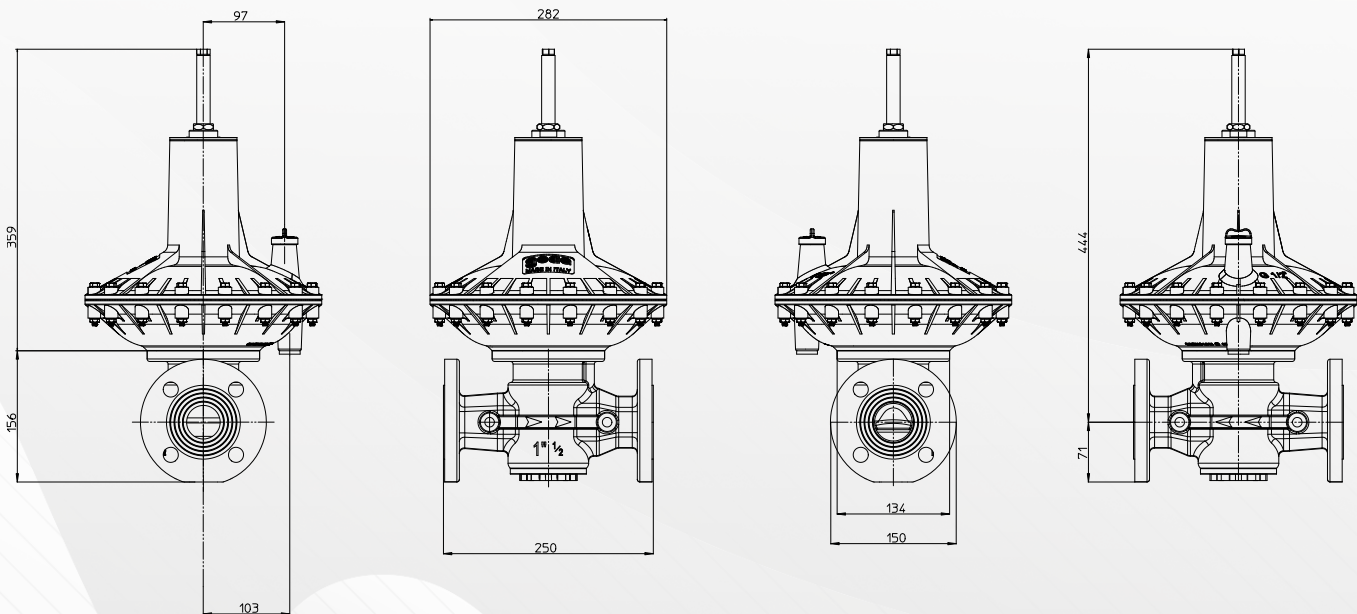
Gas Regulator without SSV - DN25 - DN25



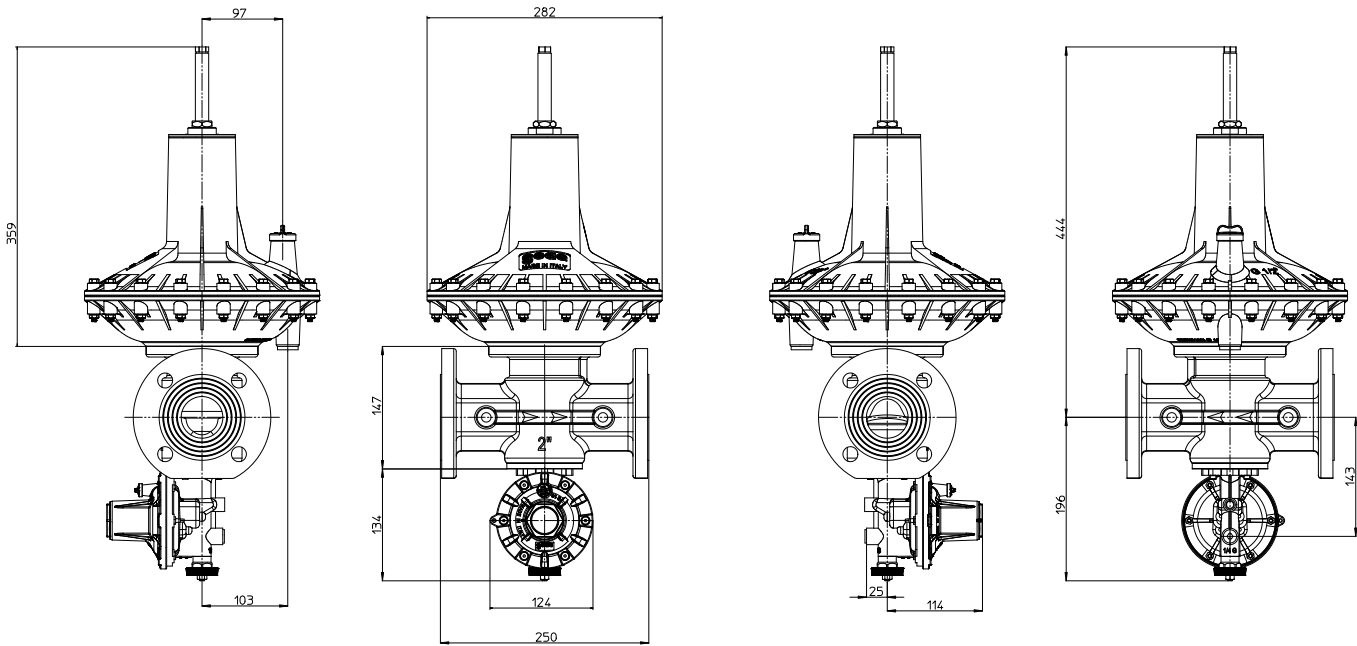
Gas Regulator with SSV - DN40 - DN40



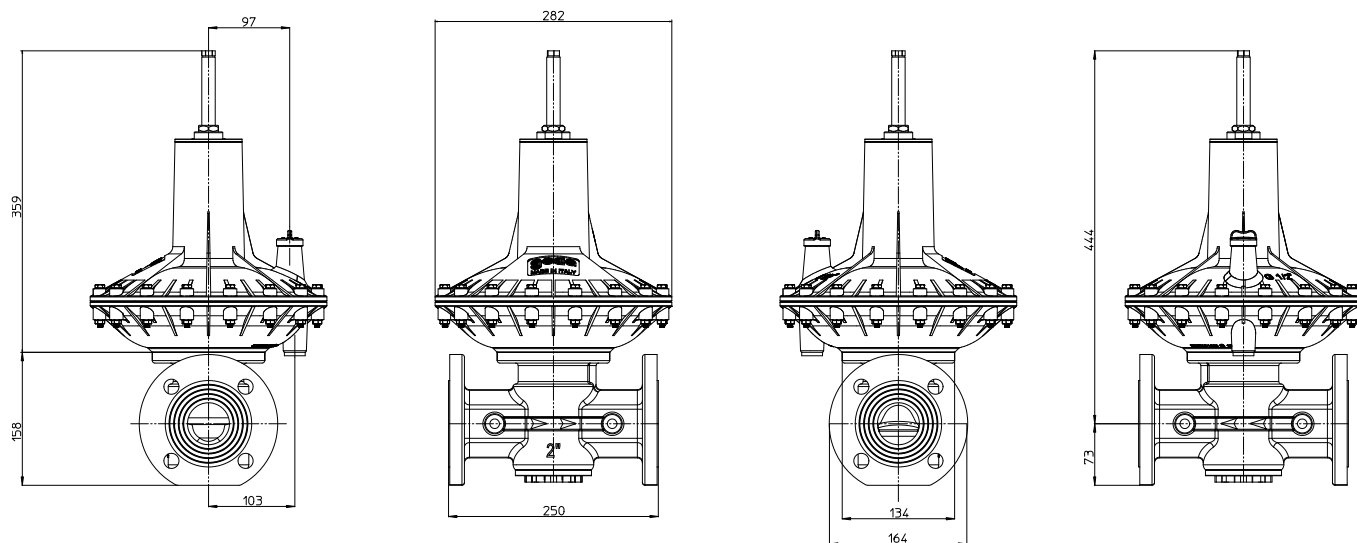
Gas Regulator without SSV - DN40 - DN40



Gas Regulator with SSV - DN50 - DN50

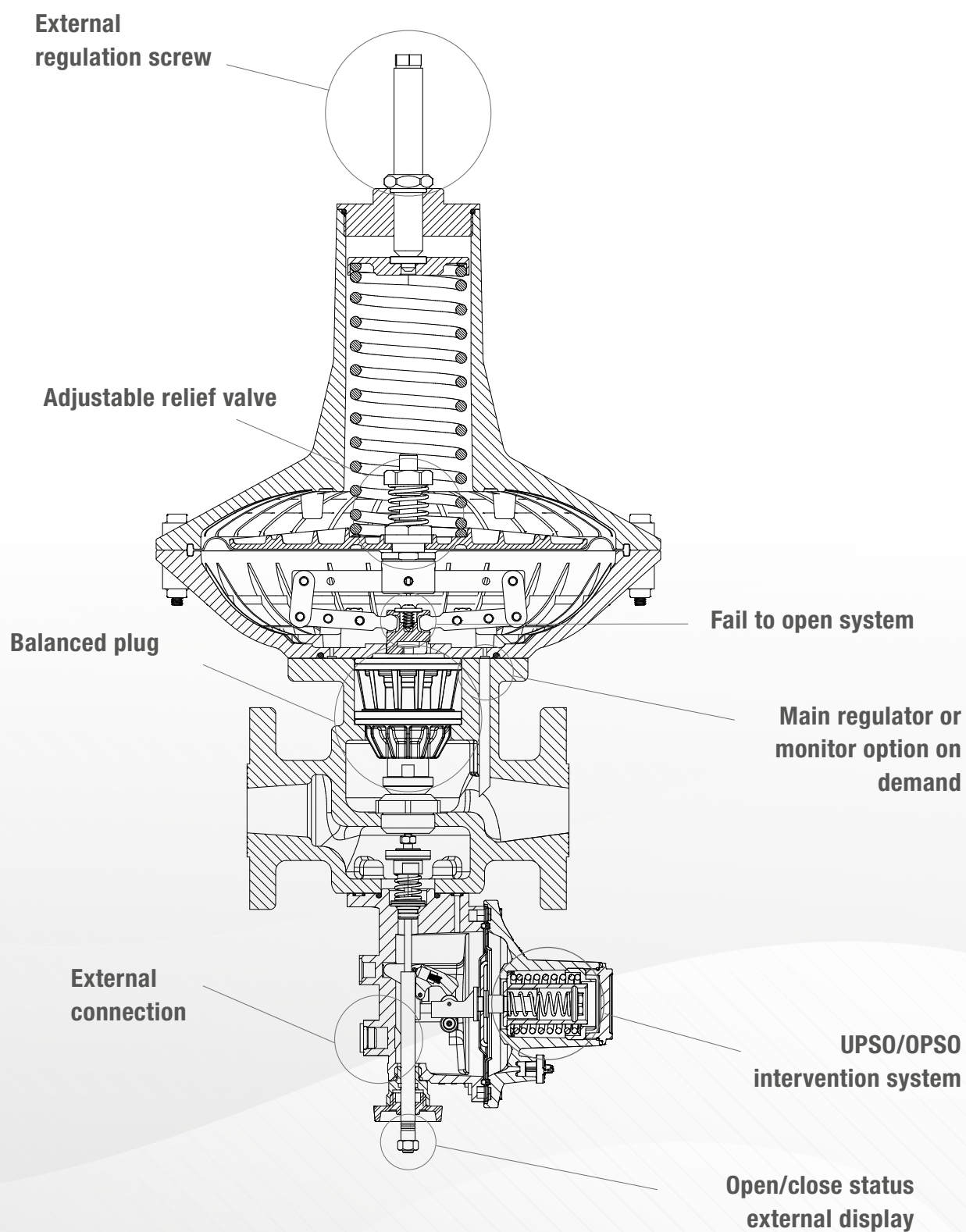


Gas Regulator with SSV - DN50 - DN50



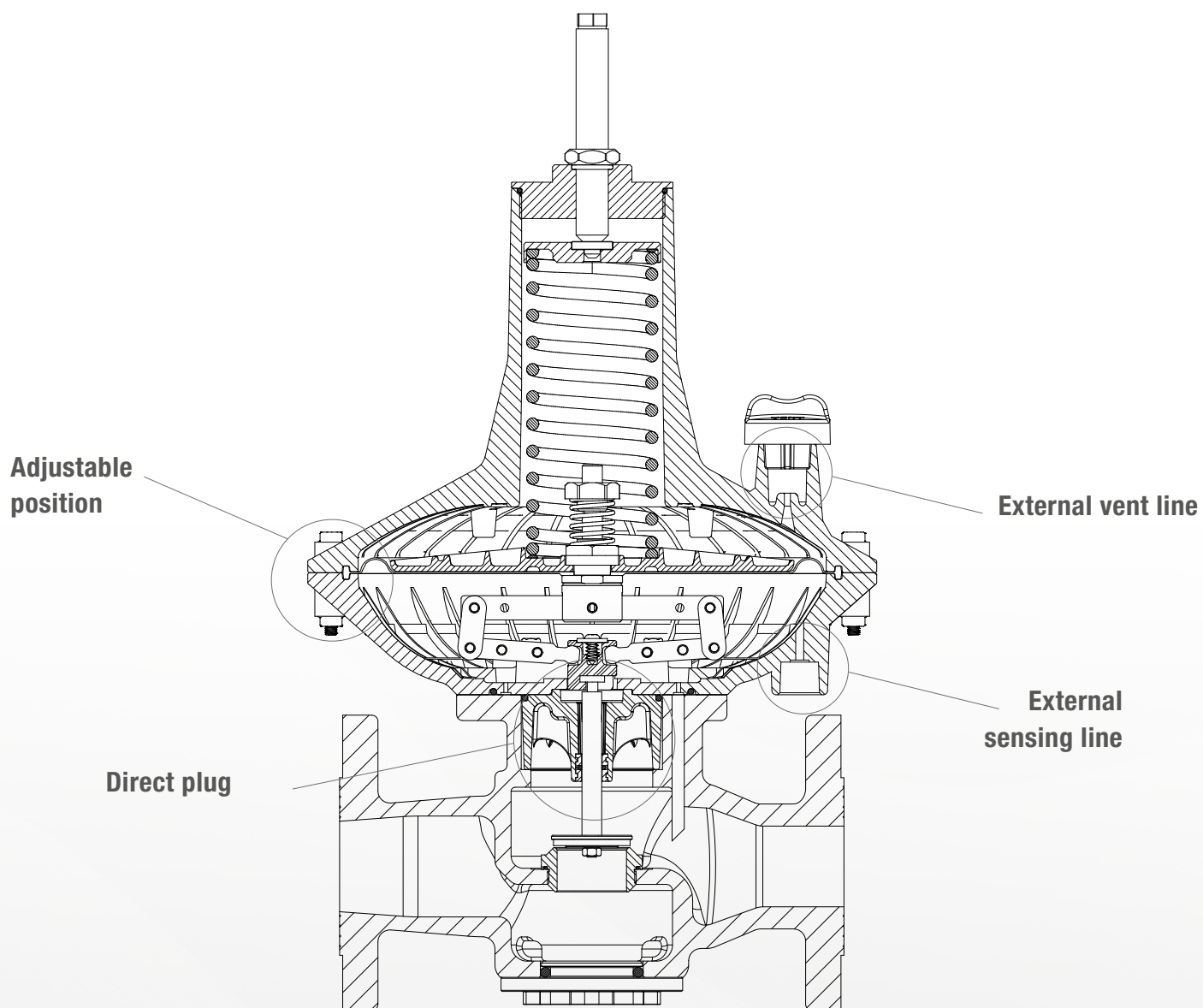
TECHNICAL DRAWING

REXI-HC Gas Regulator Direct Acting with balanced plug



TECHNICAL DRAWING

REXI-HC/D Gas pressure regulator direct acting



FLOW CAPACITY

DN25-DN25 / Capacity Nm³/h / (Conversion in Kg/h = Multiply by 1,2)

REXI - HC - DN25 - DN25 - LP VERSION RANGE FROM 10 MBAR TO 120 MBAR

Inlet Pressure	Outlet Pressure				
	20 mbar	25 mbar	40 mbar	60 mbar	85 mbar
0,5 bar	162	160	155	158	157
1 bar	247	249	256	259	249
2 bar	407	410	419	415	398
5 bar	641	657	705	725	689
10 bar	864	842	776	721	686
15 bar	543	569	649	702	683
20 bar	354	419	615	727	680

REXI - HC - DN25 - DN25 - MP VERSION RANGE FROM 70 MBAR TO 350 MBAR

Inlet Pressure	Outlet Pressure				
	100 mbar	150 mbar	200 mbar	250 mbar	300 mbar
0,5 bar	143	143	138	124	110
1 bar	237	247	237	228	219
2 bar	398	426	388	398	407
5 bar	660	660	660	708	755
10 bar	657	657	657	705	751
15 bar	655	655	655	702	748
20 bar	653	653	653	699	746

REXI - HC - DN25 - DN25 - HP VERSION RANGE FROM 280 TO 4,5 BAR

Inlet Pressure	Outlet Pressure				
	500 mbar	1000 mbar	2000 mbar	3000 mbar	4000 mbar
0,5 bar	-	-	-	-	-
1 bar	171	-	-	-	-
2 bar	312	294	-	-	-
5 bar	661	718	586	548	510
10 bar	818	1.034	1.317	1.255	1.191
15 bar	814	1.052	1.639	1.717	1.796
20 bar	811	1.054	1.680	1.979	2.277

• Recommended max flow rate.

• Above capacity are calculated with external sensing line.

FLOW CAPACITY

DN40 - DN40 / Capacity Nm³/h / (Conversion in Kg/h = Multiply by 1,2)

REXI - HC - DN40 - DN40 - LP VERSION RANGE FROM 10 MBAR TO 120 MBAR

Inlet Pressure	Outlet Pressure				
	20 mbar	25 mbar	40 mbar	60 mbar	85 mbar
0,5 bar	418	416	411	386	332
1 bar	635	635	635	605	530
2 bar	947	962	1.009	1.040	1.040
5 bar	943	1.038	1.320	1.563	1.697
10 bar	939	1.064	1.439	1.690	1.690
15 bar	795	943	1.387	1.683	1.683
20 bar	559	748	1.305	1.677	1.677

REXI - HC - DN40 - DN40 - MP VERSION RANGE FROM 70 MBAR TO 350 MBAR

Inlet Pressure	Outlet Pressure				
	100 mbar	150 mbar	200 mbar	250 mbar	300 mbar
0,5 bar	380	380	380	351	323
1 bar	650	663	587	587	587
2 bar	1.040	1.040	947	994	1.041
5 bar	1.536	1.603	1.510	1.510	1.510
10 bar	1.556	1.690	1.596	1.643	1.691
15 bar	1.549	1.683	1.590	1.637	1.683
20 bar	1.610	1.677	1.677	1.677	1.677

REXI - HC - DN40 - DN40 - HP VERSION RANGE FROM 280 TO 4,5 BAR

Inlet Pressure	Outlet Pressure				
	500 mbar	1000 mbar	2000 mbar	3000 mbar	4000 mbar
0,5 bar	-	-	-	-	-
1 bar	470	-	-	-	-
2 bar	795	796	-	-	-
5 bar	1.698	1.604	1.749	1.561	1.373
10 bar	1.785	1.692	1.881	1.819	1.757
15 bar	1.852	1.685	1.874	1.843	1.843
20 bar	1.864	1.678	1.960	1.919	1.878

• Recommended max flow rate.

• Above capacity are calculated with external sensing line.

FLOW CAPACITY

DN50 - DN50 / Capacity Nm³/h / (Conversion in Kg/h = Multiply by 1,2)

REXI - HC - DN50 - DN50 - LP VERSION RANGE FROM 10 MBAR TO 120 MBAR

Inlet Pressure	Outlet Pressure				
	20 mbar	25 mbar	40 mbar	60 mbar	85 mbar
0,5 bar	493	490	480	460	427
1 bar	758	750	727	697	663
2 bar	993	1.064	1.277	1.325	1.088
5 bar	990	1.124	1.525	1.819	1.886
10 bar	1.089	1.220	1.615	1.877	1.877
15 bar	842	1.013	1.528	1.870	1.870
20 bar	606	816	1.444	1.863	1.863

REXI - HC - DN50 - DN50 - MP VERSION RANGE FROM 70 MBAR TO 350 MBAR

Inlet Pressure	Outlet Pressure				
	100 mbar	150 mbar	200 mbar	250 mbar	300 mbar
0,5 bar	380	380	380	351	323
1 bar	650	663	587	587	587
2 bar	1.040	1.040	947	994	1.041
5 bar	1.536	1.603	1.510	1.510	1.510
10 bar	1.556	1.690	1.596	1.643	1.691
15 bar	1.549	1.683	1.590	1.637	1.683
20 bar	1.610	1.677	1.677	1.677	1.677

REXI - HC - DN50 - DN50 - HP VERSION RANGE FROM 280 TO 4,5 BAR

Inlet Pressure	Outlet Pressure				
	500 mbar	1000 mbar	2000 mbar	3000 mbar	4000 mbar
0,5 bar	-	-	-	-	-
1 bar	512	-	-	-	-
2 bar	947	947	-	-	-
5 bar	2.359	2.360	1.796	1.798	1.800
10 bar	2.348	2.349	4.232	4.237	4.241
15 bar	2.338	2.340	4.215	4.219	4.223
20 bar	2.330	2.331	4.199	4.203	4.207

• Recommended max flow rate.

• Above capacity are calculated with external sensing line.

NOTES

PRODUCT RANGE OVERVIEW



GAS GOVERNOR

- Aluminum body
- From 1/2" to DN100
- 500 mbar / 1 bar / 2 bar / 5 bar



AUTOMATIC GAS VALVE

- Aluminum body
- From 1/2" to DN150
- 360 mbar / 6 bar
- Fast opening / Fast closing
- Slow opening / Fast closing



GAS FILTER

- Aluminum body
- From 1/2" to DN200
- 6 bar / 10 bar



GAS SOLENOID VALVE

- Normally open or normally close
- 550 mbar or 6 bar
- From 1/2" to DN200
- 230 Vac – 12 Vdc/Vac – 24 Vdc/Vac / 110 Vac
- Manual / Automatic reset



Our policy of continuous product improvement, the features and data shown are subject to change without notice. The images of the products and accessories are only indicative. Graphic colors of the products may differ from reality.



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