

N.O. GAS SOLENOID VALVES WITH RESET

GRA Eng.

- Body in diecast aluminium
- NBR seals
- Screwed (DN 1/2" to 2") connections
- Flanged PN 16 (DN 65 to 100) connections



1. APPLICATION

Used, in conjunction with safety systems, for shut-off in gas feed pipes.

2. OPERATION

They can be opened only manually and remain open if not powered ; when powered they close.

3. MODELS

Code	Connect. DN	Power supply	Consum. W	P.max ⁽¹⁾ mbar	Orifice Ø mm	Flow m ³ /h ⁽²⁾		Certification
						0.5 mbar	1 mbar	
GRA 815	scr.d 1/2"	230 V ~	16	500	18	2.8	4	The current regulations do not require certification for N.O. valves
GRA 415	scr.d 1/2"	24 V ~/-	12	500	18	2.8	4	
GRA 215	scr.d 1/2"	12 V ~/-	12	500	18	2.8	4	
GRA 820	scr.d 3/4"	230 V ~	16	500	27	5.5	8	
GRA 420	scr.d 3/4"	24 V ~/-	12	500	27	5.5	8	
GRA 220	scr.d 3/4"	12 V ~/-	12	500	27	5.5	8	
GRA 825	scr.d 1"	230 V ~	16	500	27	8.3	13	
GRA 425	scr.d 1"	24 V ~/-	12	500	27	8.3	13	
GRA 225	scr.d 1"	12 V ~/-	12	500	27	8.3	13	
GRA 832	scr.d 1"1/4	230 V ~	16	500	45	14	20	
GRA 432	scr.d 1"1/4	24 V ~/-	12	500	45	14	20	
GRA 232	scr.d 1"1/4	12 V ~/-	12	500	45	14	20	
GRA 840	scr.d 1"1/2	230 V ~	16	500	45	19	28	
GRA 440	scr.d 1"1/2	24 V ~/-	12	500	45	19	28	
GRA 240	scr.d 1"1/2	12 V ~/-	12	500	45	19	28	
GRA 850	scr.d 2"	230 V ~	16	500	56	27	40	
GRA 450	scr.d 2"	24 V ~/-	12	500	56	27	40	
GRA 250	scr.d 2"	12 V ~/-	12	500	56	27	40	
GRA 865	flang. 65	230 V ~	19	500	80	55	80	
GRA 465	flang. 65	24 V ~/-	16	500	80	55	80	
GRA 265	flang. 65	12 V ~/-	16	500	80	55	80	
GRA 880	flang. 80	230 V ~	19	500	80	73	100	
GRA 480	flang. 80	24 V ~/-	16	500	80	73	100	
GRA 280	flang. 80	12 V ~/-	16	500	80	73	100	
GRA 8100	flang. 100	230 V ~	19	200	100	110	160	
GRA 4100	flang. 100	24 V ~/-	16	200	100	110	160	
GRA 2100	flang. 100	12 V ~/-	16	200	100	110	160	

(1) – Maximum working pressure

100 mbar = 10 kPa = 1,000 mmWG

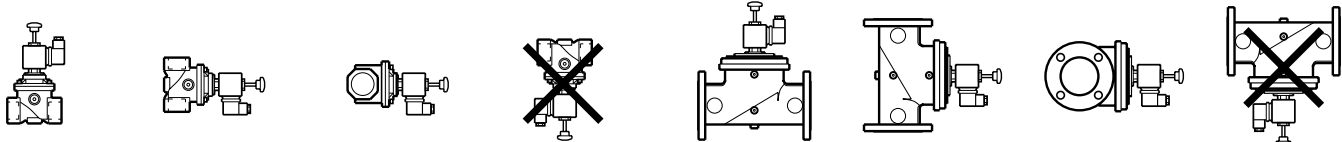
(2) – Natural gas flow with pressure drop of 0.5 mbar (5mmWG) and 1 mbar (10 mmWG)

4. TECHNICAL DATA

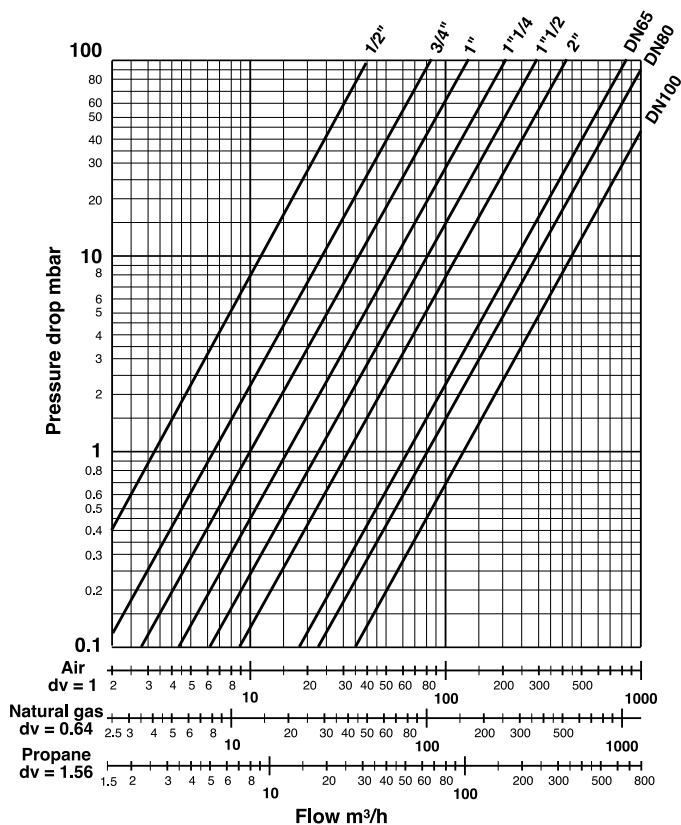
Power supply	230 V ~, 12 - 24 V ~/-	Closure time	≤ 1 s
Voltage tolerance	- 15 to + 10 %	Ambient temperature	- 15 °C to + 60 °C
Consumption	12 - 19 W	Construction :	
Protection	IP 54	- valve body	diecast aluminium
Cable entry gland	PG 11	- seals	NBR (UNI 4916 -74)
Connections :		- pressure spring	AISI 302 steel
GRA ..15 to ..50	Female screwed	- plug	chromium-plated Fe 37 steel
GRA ..65 to ..100	Flanged PN16		

5. INSTALLATION

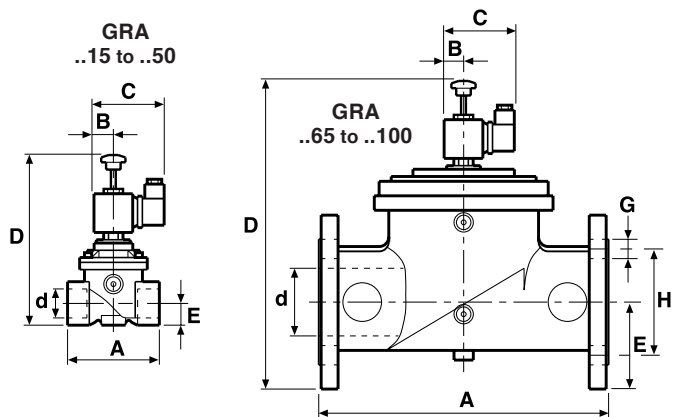
- It is preferable to position the valve downstream of the gas meter and outside the area traversed by the gas pipework.
- If positioned in the open air it must be protected from rain.
- Ensure that in the pipework there are no residues from soldering or from tapping or threading.
- Check the alignment of the pipework connections and ensure that they are not subject to vibrations.
- Pay attention to the flow direction marked on the valve body.
- Valve can be installed in any position except that with the coil facing downwards.
- Leave sufficient space for any future removal of the coil and around the valve itself for the circulation of air.
- Avoid absolutely using the coil as a lever; instead use appropriate tools on the seating of the valve body.
- On completion of the installation check the seals.
- Lift the reset knob to open the valve.
- Power the coil to check the closure. to re-open the valve the coil must not be powered.



6. PRESSURE DROP



7. OVERALL DIMENSION



Type	d DN	A mm	B mm	C mm	D mm	E mm	G mm	H mm	Wt kg
..15	1/2"	77	21	71	148	18	-	-	0.5
..20	3/4"	96	21	71	165	25	-	-	0.7
..25	1"	96	21	71	165	25	-	-	0.7
..32	1 1/4"	153	21	71	195	35	-	-	1.6
..40	1 1/2"	153	21	71	195	35	-	-	1.6
..50	2"	156	21	71	205	39	-	-	1.9
..65	65	305	21	71	350	90	4 x 18	145	8.2
..80	80	305	21	71	350	90	8 x 18	160	8.2
..100	100	350	21	115	435	130	8 x 18	180	15.5

8. ELECTRICAL CONNECTIONS & MAINTENANCE

The twin-wire power cable must be connected to the two poles of the rectifier terminal block housed in the union. To remove the coil, first switch off the power and turn off the gas then unscrew the reset knob and the round knurled nut on top of the coil housing.

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