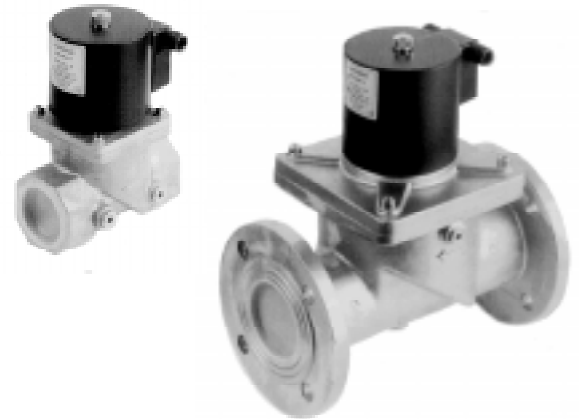


N.C. GAS SOLENOID VALVES

GNC Eng.



- **Constructed to DIN standards; European approval EN 161, Class A, Group 2.**
- **Body in diecast aluminium; NBR seals.**
- **Screwed (DN 1/2" to 2") and 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

When powered they open, without power they close. Ideal for continuous service (continuously powered). During normal operation the temperature of the coil can reach 70°C.

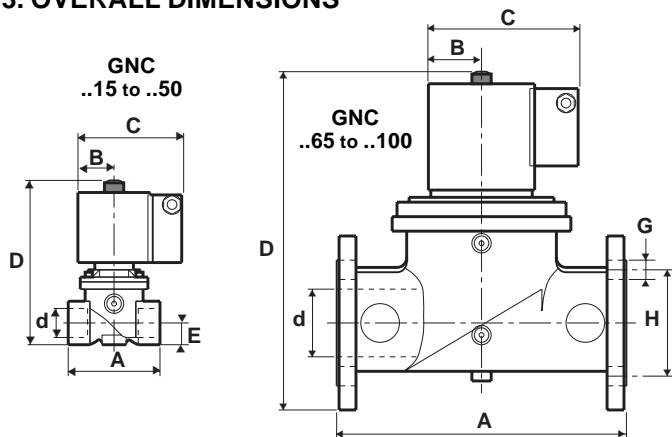
Code	Connect. DN	Power supply	Consum. W	P.max ⁽¹⁾ mbar	Orifice Ø mm	Flow m ³ /h ⁽²⁾		Certification GASTEC PIN :
						0.5 mbar	1 mbar	
GNC 815	scr.d 1/2"	230 V ~	25	200	18	2.8	4	63 AQ 1350 - 10/95
GNC 415	scr.d 1/2"	24 V ~/-	16	200	18	2.8	4	
GNC 215	scr.d 1/2"	12 V ~/-	16	200	18	2.8	4	
GNC 820	scr.d 3/4"	230 V ~	45	360	27	5.5	8	63 AQ 1350 - 10/95
GNC 420	scr.d 3/4"	24 V ~/-	30	200	27	5.5	8	
GNC 220	scr.d 3/4"	12 V ~/-	30	200	27	5.5	8	
GNC 825	scr.d 1"	230 V ~	45	360	27	8.3	13	63 AQ 1350 - 10/95
GNC 425	scr.d 1"	24 V ~/-	30	200	27	8.3	13	
GNC 225	scr.d 1"	12 V ~/-	30	200	27	8.3	13	
GNC 832	scr.d 1"1/4	230 V ~	80	360	45	14	20	63 AQ 1350 - 10/95
GNC 432*	scr.d 1"1/4	24 V ~/-	65	200	45	14	20	
GNC 232*	scr.d 1"1/4	12 V ~/-	65	200	45	14	20	
GNC 840	scr.d 1"1/2	230 V ~	80	360	45	19	28	63 AQ 1350 - 10/95
GNC 440*	scr.d 1"1/2	24 V ~/-	65	200	45	19	28	
GNC 240*	scr.d 1"1/2	12 V ~/-	65	200	45	19	28	
GNC 850	scr.d 2"	230 V ~	80	360	56	27	40	63 AQ 1350 - 10/95
GNC 450*	scr.d 2"	24 V ~/-	65	130	56	27	40	
GNC 250*	scr.d 2"	12 V ~/-	65	130	56	27	40	
GNC 865	flang. 65	230 V ~	190	200	80	55	80	63 AQ 1350 - 10/95
GNC 465	flang. 65	24 V ~/-	150	200	80	55	80	
GNC 880	flang. 80	230 V ac	190	200	80	73	100	63 AQ 1350 - 10/95
GNC 480	flang. 80	24 V ~/-	150	200	80	73	100	
GNC 8100	flang. 100	230 V ~	280	200	100	110	160	63 AQ 1350 - 10/95
GNC 4100*	flang. 100	24 V ~	200	200	100	110	160	

(1) - Maximum working pressure 100 mbar = 10 kPa = 1,000 mm WG

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

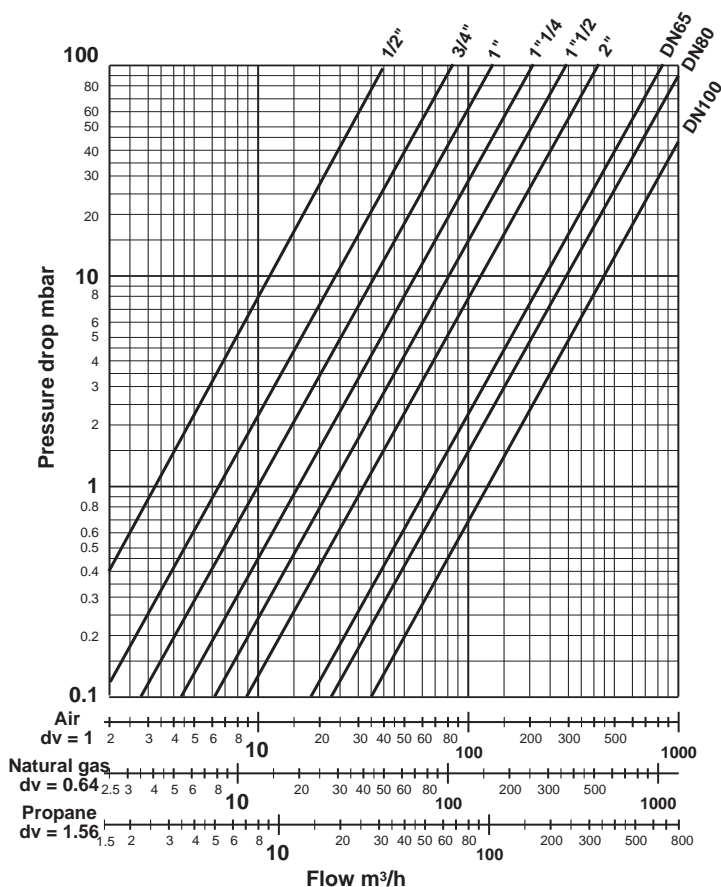
(*) - Approved in Class "B"

3. OVERALL DIMENSIONS



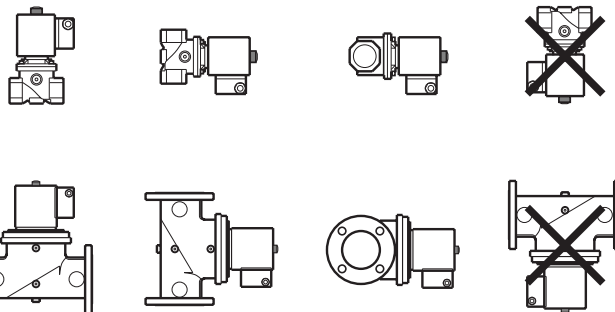
Type	d DN	A mm	B mm	C mm	D mm	E mm	G mm	H mm	Wt kg
..15	1/2"	77	33	96	140	18	-	-	1.4
..20	3/4"	96	44	108	164	25	-	-	2.5
..25	1"	96	44	108	164	25	-	-	2.5
..32	1"1/4	153	51	128	220	35	-	-	5.7
..40	1"1/2	153	51	128	220	35	-	-	5.7
..50	2"	156	51	128	230	39	-	-	6.0
..65	65	308	58	143	355	85	4 x19	145	12.5
..80	80	308	58	143	355	85	8 x19	160	13.0
..100	100	350	80	188	492	130	8 x19	180	37.0

5. PRESSURE DROP



4. 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.



6. ELECTRICAL CONNECTIONS & MAINTENANCE

The twin-wire power cable must be connected to the two poles of the rectifier terminal block housed in the wiring box.

To remove the coil, first switch off the power and turn off the gas then unscrew the round knurled nut on top of the coil housing. In many cases the coils damaged by excessive voltages have only one or more rectifier diodes burnt out; if the resistance at the heads of the winding is about 2 kΩ for 1/2", 1 kΩ for 3/4" - 1", 600Ω for 1"1/4 - 1"1/2 - 2", 285Ω for 65-80, replace only the rectifier.

7. TECHNICAL DATA

Power supply	230 V ~, 12 - 24 V ~/-
Voltage tolerance	- 15 to + 10 %
Consumption (see table)	16 to 280 W
Protection	IP 54
Cable entry gland	PG 11
Connections:	
GNC ..15 to 50	Female screwed
GNC ..65 to 100	Flanged PN16
Opening time	4 s
Closure time	≤ 1 s
Ambient temperature	- 15 °C to + 60 °C
Coil temperature	about 70 °C
Construction :	
- valve body	diecast aluminium
- seals	NBR (UNI 4916 -74)
- pressure spring	AISI 302 steel
- plug	chromium-plated Fe 37 steel

20132 Milan Head Office & Sales
via San G.B. De La Salle 4/a Tel. 02/2593641 - 2 - 3 - 4
Telefax. 02/2593645

25048 Edolo (BS) Factory
via Gen. Treboldi 190/192 Tel. 0364/71480 - 71988
Telefax. 0364/72615

UK SALES & SERVICE
COSTER ENVIRONMENTAL CONTROLS LTD
5 Shaftesbury Street South
Sir Francis Ley Industrial Park
Derby
DE23 8YH
Telephone : 01332 200555
Fax : 01332 204181

ISO 9002 / EN 29002

CISQ/CSQ cert. n° 9115.COEE

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