





Contact our manufacturing plant for information on available models

## Applications:

- Pumps, laundry equipments.
- Irrigation. Compressors. Pollution control.
- Heating with medium or high pressure steam.
- Spraying. Irrigation.Air dryers. Water treatment.
- · Autoclaves. Industrial laundry equipments.

#### **Main characteristics**

Normally closed and normally open. Piston servo-operated action. Brass, stainless steel body. BSP or NPT threaded connections. Buna N seats for neutral fluids up to 80 °C and PTFE up to 180 ºC. Encapsulated coils. Shape A DIN 43650 Connection. IP65 and NEMA4 Protection.

#### Options:

- Energized coil indicator light.
- Explosion and / or weather proof coils and housings.
- Manual operator.

# Operating pressure differential

\*Advise: when using direct current (DC), a 25% reduction on the maximum operating pressure differential is expected

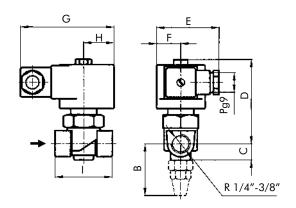
	Mini			Maximur	Maximum other fluids			
Туре	Minimum		PTFE seat El		t EPDM seat		Waximum	other nuids
	bar	psi	bar	psi	bar	psi	bar	psi
NC	0.1	1.5	10	150	3	45	15 *	225 *
NO	0.1	1.5	10	150	3	45	10	150

#### **Technical specifications - Brass body**

icomical opcomeducing Ended Body														
Ø Plow Weigh					Wei	aht	Maximum temp. and catalog № according to seat material							
Pipe	OII	IICE	Tac	tor		J	Buna "N"	Neoprene	EPDM	FKM	PTFE			
ins	mm ins. Kv Cv		kg	Lb	Dana IV	Mooprono	2. 5							
							80 °C / 176 °F	80 °C / 176 °F	145 °C / 293 °F	150 °C / 302 °F	180 °C / 356 °F			
	Normally closed													
1/4"	6	0.24	0.80	0.94	0.70	1.6	1390BA2	1390BN2	1390BE2	1390BV2	1390BT2			
3/8"	9	0.35	1.60	1.87	0.65	1.4	1390BA3	1390BN3	1390BE3	1390BV3	1390BT3			
1/2"	12	.47	2.35	2.75	0.90	2.00	1390BA4	1390BN4	1390BE4	1390BV4	1390BT4			
	Normally open													
1/4"	6	0.24	0.80	0.94	0.70	1.6	1390BA2INA	1390BN2INA	1390BE2INA	1390BV2INA	1390BT2INA			
3/8"	9	0.35	1.60	1.87	0.65	1.4	1390BA3INA	1390BN3INA	1390BE3INA	1390BV3INA	1390BT3INA			
1/2"	12	.47	2.35	2.75	0.90	2.00	1390BA4INA	1390BN4INA	1390BE4INA	1390BV4INA	1390BT4INA			

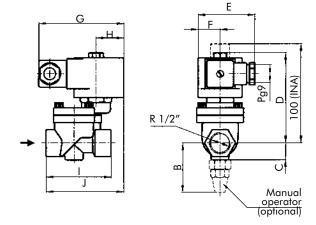


## General dimensions 1390



øΑ	В	С	D	Е	F	G	Н	I	J
R 1/4"	48	15	77	57	22	85	07	52	
R 3/8"	40	15	77	37		00	27	52	-
R 1/2"	50	17	91	57	22	85	27	65	78

Measurements:	mm



øΑ	В	С	D	Е	F	G	Н	ı	7
R 1/4"	1 00	0.59	3.03	2.24	0.07	2.25	1.06	2.05	
R 3/8"	1.89	0.59	3.03	2.24	0.07	3.33	1.00	2.05	-
R 1/2"	1.97	0.67	3.58	2.24	0.87	3.35	1.06	2.56	3.07

Measurements: ins.

#### **Special constructions**

Stainless steel body:

• AISI304: change letter **B** for **S** in the catalog №. Example: 1390ST4.

 AISI316: change letter B for I in the catalog №. Example: 1390IT4.

Options	Prefix	Suffix	Examples	
Water, weather and saline corrosion proof coils.	YC		<b>YC</b> 1390BA4	
Explosion and weather proof coils.	ZC		<b>ZC</b> 1390BA4	
Weather proof housing.	Y	<b>Y</b> 1390BA4		
Explosion and weather proof housing.	Z		<b>Z</b> 1390BA4	
Manual operator: (*)		- M	1390BA4 <b>-M</b>	
NPT connections		Т	1390BA4 <b>T</b>	
Energized coil indicator light	See co	oils.		

<sup>(\*)</sup> Only NC versions.

#### **Coil characteristics**

Electric power	Coil	Power	VA (vol	-amper)	Maxii tempe		Available	
supply	type	W	Inrush	Holding	°C	٥F	tensions	
AC 50 Hz	MF11C	11	40	22	155	311	1	
	MH11C	11	40	22	180	356	1	
AC 60 Hz	MF13C	13	45	27	155	311	2	
AC 60 FIZ	MH13C	13	45	27	180	356	2	
DC	MH19C	19	19	19	180	356	3	

 $\textbf{1-}(12,24,110,220,240) V \hspace{0.2cm} \textbf{2-}(12,24,110,120,220,240) V \hspace{0.2cm} \textbf{3-}(12,24,110,220) V$ 

#### **Recommendations for installation**

Place a strainer upstream the valve with a porosity ≤ 100m. Mount the valve in any position, preferably over horizontal pipeline with the coil upright. The valve input pressure must always be > than the pressure downstream from the valve. For the normally closed or normally open valve to open, the minimum pressure indicated in each model must be observed.

# Application according to seat material

Seat material	Buna "N"	Neoprene	EPDM	FKM	PTFE	
Maximum temperature	+80 °C / 176 °F	+80 °C / 176 °F	+145 °C / 293 °F	+150 °C / 302 °F	+180 °C / 356 °F	
Uses	Water, air, light oils. Neutral gases. Kerosene, low and medium vacuum	Oxygen, alcohol, argon, other non-corrosive light gases and liquids, Freon 12.	Water steam, hot water, acetone.	Benzene, naphta, aromatics, etc., hot gases, diesel oil.	Steam, hot oils, corrosive fluids.	