

COMPACT SOLENOID VALVES SERIES 1007 AND 1008

FOR REFRIGERATION APPLICATIONS
THAT USE HFC, HFO AND HC REFRIGERANTS





FUTURE PROOF TECHNOLOGY

The Compact Solenoid Valve is an essential component for those looking for a reliable, versatile and compact solution for all types of applications in the refrigeration and air conditioning field.

Features

Castel proposes a wide range of Compact Solenoid Valves 1007 and 1008 series compatible with refrigerants HFC, HFO and HC.

They are light-weight solenoid valves designed for applications where space is a priority. They are typically applied in:

- * Ice making machines
- * Ice cream machines
- * Slush dispenser machines
- * Freezers
- * Vending machines
- * Plug-in cabinets
- * Dehumidifiers
- * Air-conditioners

Benefits

- Easy installation
- Reliability and precision
- High Performance up to 150°C
- For humid environments
- Versatile and Innovative Solution
- Approved for lower-GWP refrigerants, including Hydrocarbon fluids

Why choose New Compact Solenoid Valve

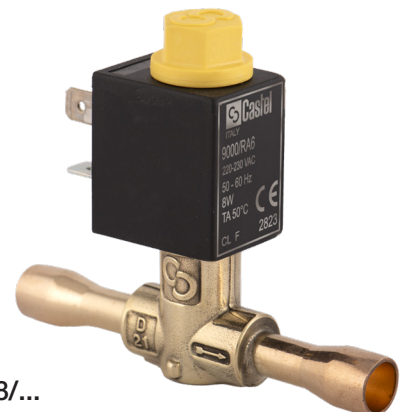
Compatibility with all types of refrigerants: This Compact Solenoid Valve is suitable for all types of refrigerants, making it a universal and versatile choice. Whether for commercial or industrial applications, its ability to operate with any refrigerant distinguishes it as a highly reliable solution.

Specific Applications: Due to its versatility and durability, it is ideal for appliances such as ice makers, ice cream machines and plug-in cabinets. In these applications, the valve ensures consistent and safe performance, ensuring precise control of refrigerant fluids.

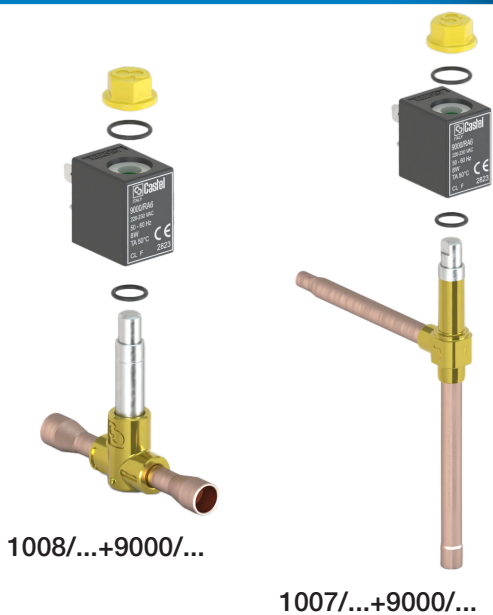
Ideal Installation for Hot Gas Bypass and Defrost: The Compact Solenoid Valve is perfect for managing hot gas bypass operations and defrost functions, common in refrigeration systems. Its efficiency in controlling these critical processes allows for stable temperatures and efficient work cycles, increasing the longevity of the systems.



1007/...









1008/...



Construction

The Compact Solenoid Valves 1007 and 1008 series represent a highly versatile and innovative solution thanks to their compact and small-sized structure, which makes them ideal for a wide range of applications. This type of valve has been designed to guarantee maximum efficiency even in small spaces, making them perfect for complex systems with limited installation possibilities.

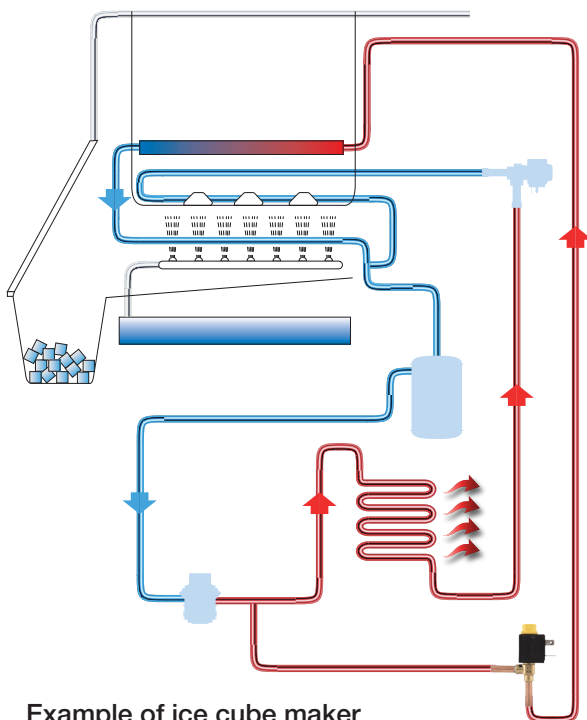
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SUITABLE FOR USING WITH HFC, HFO AND HC REFRIGERANTS, CLASSIFIED A1, A2L AND A3
- 
**LARGE TEMPERATURE RANGE
-40°C UP TO 150°C**
- 
ANGLE AND STRAIGHT COPPER CONNECTIONS 1/4" TO 3/8"
- 
LONG TERMINALS ANGLE VERSION
- 
**HELIUM TEST 100% OF PRODUCTIONS
SAFEGUARDS AND GUARANTEES HIGH EFFICIENCY OF SYSTEM**
- 
COIL IP67 WITH CONNECTOR AND O-RING

Examples of installation

The Compact Solenoid Valves can be installed in liquid, suction, and discharge lines. They are also suitable for rapid defrosting cycles and/or short hot gas injection cycles like icemakers and ice cream machines. For example Ice machines work through a simple process. Water, placed in a tank, is cooled until it freezes. Once the ice cubes form, the hot gas by-pass valve comes into action, playing an essential role: it allows the release of hot gas into the system, facilitating the detachment of the ice without damaging the components.

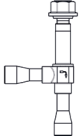
The main benefits are:

- Efficiency and speed:** the release of the cubes is automatic and fast
- Energy saving:** optimizes the cooling and defrosting cycles



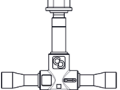


N.C. COMPACT SOLENOID VALVES ANGLE CONNECTIONS

Drawing	Part number	Coil Type (1)	Connections ODS	Kv [m ³ /h]	PS [bar]	TS [°C]		Packaging pcs
			Ø [in.]			min.	max.	
	1007/2S16H	SM2	1/4"	0,09	35	-40	+150	110
	1007/3S16H		3/8"	0,09				
	1007/2S20H		1/4"	0,14				
	1007/3S20H		3/8"	0,14				
	1007/2S24H		1/4"	0,2				
	1007/3S24H		3/8"	0,2				


(1) Coils that can be mounted on the valves
Longer connections available on request

N.C. COMPACT SOLENOID VALVES STRAIGHT CONNECTIONS

Drawing	Part number	Coil Type (1)	Connections ODS	Kv [m ³ /h]	PS [bar]	TS [°C]		Packaging pcs
			Ø [in.]			min.	max.	
	1008/2S16H	SM2	1/4"	0,09	35	-40	+150	110
	1008/3S16H		3/8"	0,09				
	1008/2S22H		1/4"	0,16				
	1008/3S22H		3/8"	0,16				

(1) Coils that can be mounted on the valves

COILS

Drawing	Part number	Coil Type	Voltage [V]	Frequency [Hz]	Power [W]	Packaging pcs
	9000/RA2H	SM2	24	50/60	8	110
	9000/RA6H		220/230			

CONNECTORS

Drawing	Part number	Degree of protection	Packaging pcs
	9149/R01	IP67	10

POLYHEDRA



ISO 14001

Castel has always been aware of environmental sustainability issues and gives its contribution to a cleaner environment, supplying the refrigeration and air conditioning industry with state-of-the-art and environment-friendly technology. With its commitment and steady research in its laboratories, Castel has developed a whole range of products using natural refrigerants, which reduce emissions to the minimum. The large range of products belonging to the Castel "GoGreen" line has been developed to be used in CO₂ (R744) filled systems.

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