



**Valvole solenoidi**  
**Solenoid Valves**  
**Válvulas solenoid**  
**Váluval solenóides**



# Indice Index Índice Índice

VALVOLE SOLENOIDI AD AZIONE DIRETTA, A MEMBRANA, A PISTONE  
SOLENOID VALVES DIRECT ACTION, DIAPHRAGM PILOT OPERATED, PISTON PILOT OPERATED  
VÁLVULAS SOLENOID ACCIÓN DIRECTA, SERVOMANDO DE MEMBRANA, SERVOMANDO DE PISTÓN  
VÁLVULAS SOLENOÍDES AÇÃO DIRETA, SERVOCOMANDO COM MEMBRANA, SERVOCOMANDO COM PISTÃO

pag. 3 - 5

BOBINE  
COILS  
BOBINAS  
BOBINAS

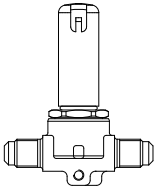
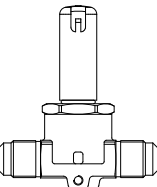
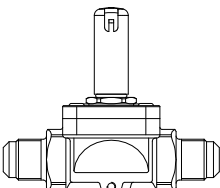
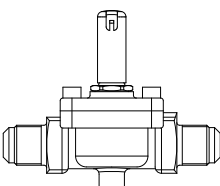
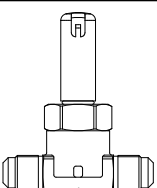
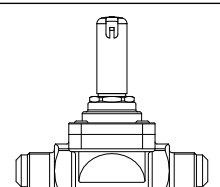
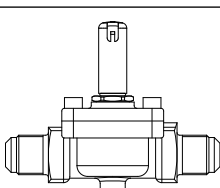
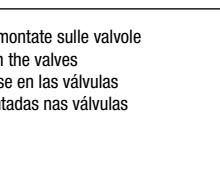
pag. 6

CONNETTORI  
CONNECTORS  
CONECTORES  
CONECTORES

pag. 7

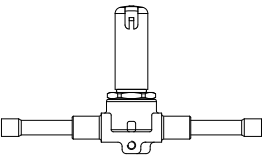
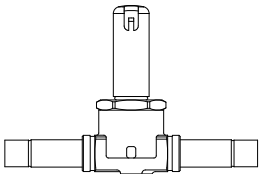
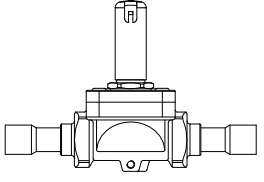
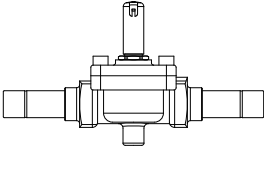
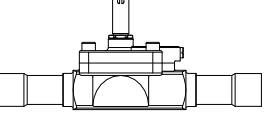


VALVOLE SOLENOIDI N.C. ATTACCHI SAE FLARE SENZA BOBINA  
 N.C. SOLENOID VALVES SAE FLARE CONNECTIONS WITHOUT COILS  
 VÁLVULAS SOLENOIDE N.C. UNIONES SAE FLARE SIN BOBINA  
 CONEXÕES FLARE SAE DAS VÁLVULAS SOLENOÍDES SEM BOBINAS

Principio di funzionamento Operating principle Principio de funcionamiento Princípio de funcionamento	Disegno Drawing Dibujo Desenho	N° catalogo Part number N° catálogo N° catálogo	Tipo Bobina Coil Type Tipo Bobina Tipo de Bobina(1)	Attacchi SAE Flare Connections SAE Flare Uniones SAE Flare Conexões SAE Flare	Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pz Package pcs Paquete de n° piezas Embalagem
							Min	Max	
Azione diretta Direct acting Acción directa Ação direta		1020/2S	HF2 HF3 HM2 HM3	1/4"	0.18	45	-35	+110	18
		1020/3S	HM4 CM2	3/8"	0.23				
Servocomando a membrana		1064/3S		3/8"	0.80	45	-35	+105	18
		1064/4S		1/2"					
Diaphragm pilot operated		1070/4S	HF2 HF3 HM2 HM3	1/2"	2.20	45	-35	+105	24
		1070/5S	HM4 CM2	5/8"	2.61				
Servomando de membrana		1090/5S		5/8"	3.80	45	-35	+105	14
		1090/6S		3/4"	4.80				
Servocomando a pistone		1034/3S		3/8"	1.00	45	-35	+110	18
		1034/4S		1/2"					
Piston pilot operated		1040/4S	HF2 HF3 HM2 HM3	1/2"	2.40	45	-35	+110	24
		1040/5S	HM4 CM2	5/8"	3.00				
Servomando de pistón		1050/5S		5/8"	3.80	45	-35	+110	14
		1050/6S		3/4"	4.80				
Servocomando com pistão		1050/5S		5/8"	3.80	45	-35	+110	14
		1050/6S		3/4"	4.80				

(1) : bobine che possono essere montate sulle valvole  
 (1) : coils that can be mounted on the valves  
 (1) : bobinas que pueden montarse en las válvulas  
 (1) : Bobinas que podem ser montadas nas válvulas

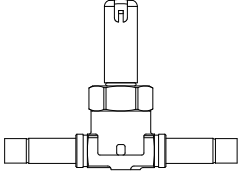
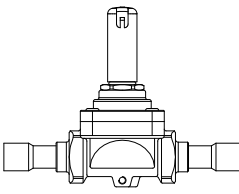
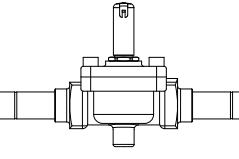
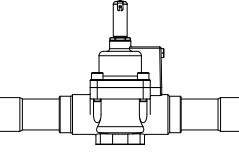
VALVOLE SOLENOIDI N.C. ATTACCHI ODS SENZA BOBINA  
 N.C. SOLENOID VALVES ODS CONNECTIONS WITHOUT COILS  
 VÁLVULAS SOLENOIDE N.C. UNIONES ODS SIN BOBINA  
 CONEXÕES ODS DAS VÁLVULAS SOLENÓIDES SEM BOBINAS

Principio di funzionamento Operating principle Principio de funcionamiento Princípio de funcionamento	Disegno Drawing Dibujo Desenho	N° catalogo Part number N° catálogo N° catálogo	Tipo Bobina Coil Type Tipo Bobina Tipo de Bobina(1)	Attacchi ODS Ø Connections ODS Ø Uniones ODS Ø Conexões ODS Ø		Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pz Package pcs Paquete de n° piezas Embalagem						
				[in.]	[mm]			Min	Max							
Azione diretta Direct acting Acción directa Ação direta		1028/2S	HF2	1/4"	-	0.15	45	-35	+110	24						
		1028/2S.E	HF3	1/4"	-	0.23										
		1028/3S	HM2	3/8"	-											
		1028/M10S	HM3 HM4 CM2	-	10											
Servocomando a membrana Diaphragm pilot operated Servomando de membrana Servocomando com membrana		1068/3S	HF2 HF3 HM2 HM3 HM4 CM2	3/8"	-	0.80	45	-35	+105	24						
		1068/M10S		-	10											
		1068/M12S		-	12											
		1068/4S		1/2"	-											
		1078/M12S	HF2 HF3 HM2 HM3 HM4 CM2	-	12	2.20	45	-35	+105	17						
		1078/4S		1/2"	-											
		1078/5S		5/8"	16	2.61										
		1079/7S		7/8"	22											
		1098/5S	HF2 HF3 HM2 HM3 HM4 CM2	5/8"	16	3.80	45	-35	+105	14						
		1098/6S		3/4"	-	4.80										
		1098/7S		7/8"	22	5.70										
		1099/9S		1.1/8"	-											
				1078/9S	HF2 HF3 HM2 HM3 HM4 CM2	1.1/8"					-	10.00	45	-35	+105	1
				1079/11S		1.3/8"					35					

(1) : bobine che possono essere montate sulle valvole  
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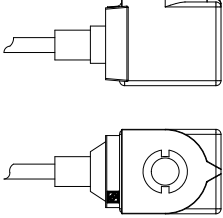
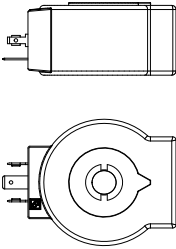
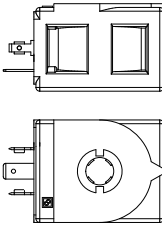
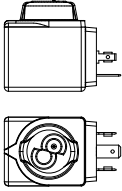
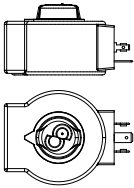


**VALVOLE SOLENOIDI N.C. ATTACCHI ODS SENZA BOBINA**  
**N.C. SOLENOID VALVES ODS CONNECTIONS WITHOUT COILS**  
**VÁLVULAS SOLENOIDE N.C. UNIONES ODS SIN BOBINA**  
**CONEXÕES ODS DAS VÁLVULAS SOLENÓIDES SEM BOBINAS**

Principio di funzionamento Operating principle Principio de funcionamiento Princípio de funcionamento	Disegno Drawing Dibujo Desenho	N° catalogo Part number N° catálogo N° catálogo	Tipo Bobina Coil Type Tipo Bobina Tipo de Bobina(1)	Attacchi ODS Ø Connections ODS Ø Uniones ODS Ø Conexões ODS Ø		Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pz Package pcs Paquete de n° piezas Embalagem
				[in.]	[mm]			Min	Max	
<p>Servocomando a pistone</p> <p>Piston pilot operated</p> <p>Servomando de pistón</p> <p>Servocomando com pistão</p>		1038/3S	HF2 HF3 HM2 HM3 HM4 CM2	3/8"	-	1.00	45	-35	+110	24
		1038/M10S		-	10					
		1038/M12S		-	12					
		1038/4S		1/2"	-					
		1048/M12S		-	12	2.40	45	-35	+110	14
		1048/4S		1/2"	-					
		1048/5S		5/8"	16	3.00				
		1049/7S		7/8"	22					
		1058/5S		5/8"	16	3.80	45	-35	+110	14
		1058/6S		3/4"	-	4.80				
		1058/7S		7/8"	22	5.70				
		1059/9S		1.1/8"	-					
		1098/9S		1.1/8"	-	10	45	-35	+110	1
		1099/11S		1.3/8"	35					
		1078/11S		1.3/8"	35					
		1079/13S		1.5/8"	-	16				
		1079/M42S		-	42					
		1078/13S		1.5/8"	-	25				
		1078/M42S		-	42					
		1079/17S		2.1/8"	54					

- (1) : bobine che possono essere montate sulle valvole  
(1) : coils that can be mounted on the valves  
(1) : bobinas que pueden montarse en las válvulas  
(1) : Bobinas que podem ser montadas nas válvulas



Disegno Drawing Dibujo Desenho	Tipo Bobina Coil Type Tipo Bobina Tipo de Bobina	N° catalogo Part number N° catálogo N° catálogo	Tensione Voltage Tensión Tensão [V]	Frequenza Frequency Frecuencia Frequência [Hz]	Potenza Power Potencia Potência [W]	Lunghezza cavo Cable lenght Longitud cable Comprimento do cabo [m]	Confezione n° pz Package pcs Paquete de n° piezas Embalagem
	CM2 (1)	9110/RA2	24	50/60	8	1	10
		9110/RA4	110				
		9110/RA6	220/230				
		9110/RA7	240				
	HM3	9120/RD1	12 D.C.	-	20	-	45
		9120/RD2	24 D.C.		22		
		9120/RD3	27 D.C.				
		9120/RD4	48 D.C.				
		9120/RD6 (2)	220 RAC				
	HM4 (1)	9160/RA2	24	50/60	8	-	90
		9160/RA4	110				
		9160/RA6	220/230				
		9160/RA7	240				
	HF2	9300/RA2	24	50/60	8	-	30
		9300/RA4	110				
		9300/RA6	220/230				
		9300/RA7	240				
		9300/RA8	380				
	HF3	9320/RA6	220/230	50/60	12	-	18
		9320/RD1	12 D.C.		20		
		9320/RD2	24 D.C.				
		9320/RD3	27 D.C.				
		9320/RD4	48 D.C.				

Note:

(1): bobina dotata di ricambio G9150/R97

(1): coil with spare part G9150/R97

(1): bobina con repuesto G9150/R97

(1): bobina com peça sobressalente G9150/R97

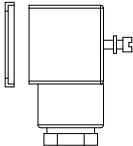
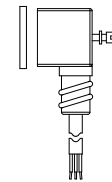
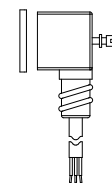
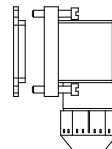
(2) Utilizzare esclusivamente con connettore raddrizzatore 9150/R45

(2) Use only with 9150/R45 connector / rectifier

(2) Utilizar exclusivamente con conector rectificador 9150/R45

(2) Utilizar exclusivamente com conector retificador 9150/R45

CONNETTORI  
CONNECTORS  
CONECTORES  
CONECTORES

Disegno Drawing Dibujo Desenho	N° catalogo Part number N° catálogo N° catálogo	Grado di protezione Degree of protection Grado de protección Grau de proteção	Lunghezza cavo Cable lenght Longitud cable Comprimento do cabo [m]	Confezione n° pz Package pcs Paquete de n° piezas Embalagem
	9150/R02	IP 65	-	240
	9150/R45 (1)			1
	9150/R90 (1)	IP 65	2	1
	9900/X66	IP 65	1	50
	9900/X84		1,5	50
	9900/X73		2	30
	9900/X55		3	25
	9900/X54		5	25
	9900/X93 <b>N</b>		10	15
	9901/X41 <b>N</b>		15	15
	9155/R01	IP 65 / IP 68	-	120
	9155/R02		1	1

Note:

- (1) Connettore/Raddrizzatore: tensione d'alimentazione 220/230V AC  
(1) Connector/Rectifier: supply voltage 220/230V AC  
(1) Conector/Rectificador: tensión de alimentación 220/230V AC  
(1) Conector/Retificador: tensão de alimentação 220/230V CA



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.



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