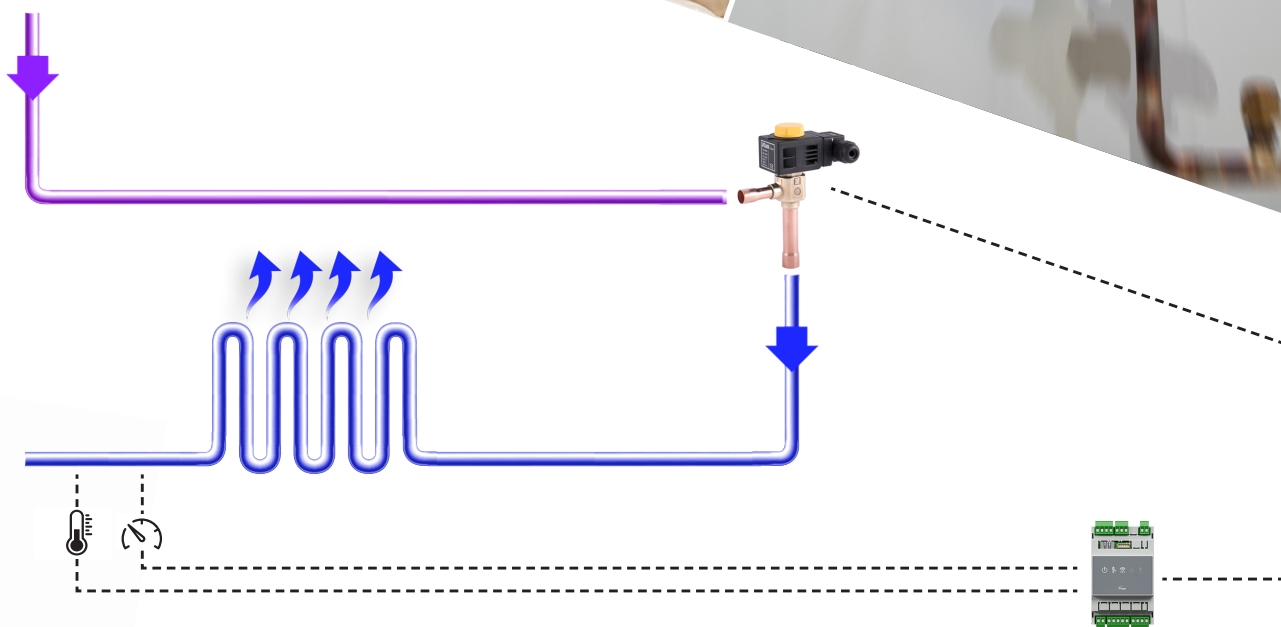


PWM 2028

THE PULSING PART OF THE CIRCUIT





((NECTOR ((NEXUS

The collaboration from Castel's 2028 expansion valves with PEGO electrical panels and modular electronics, has generated a complete **plug & play solution**, that can work **with a lot of different system design**. Now, with a single component, we can manage the refrigeration system.

The wide availability of electronics with integrated expansion valve control makes it **easy to select and install the correct components**.





Part number	Connections		Orifice	Kv (M ³ /h)	Range	PS [bar]	MWP	TS [°C]		Approval
	In	out						Min	Max	
2028N/3	3/8"	1/2"	from 0 to 6	from 0,0027 to 0,113	Polyhedra	50 bar	-	-40°C	100°C	Art 4.3 PED
2028N/M10	10 mm	12 mm								
2028N/4	1/2"	5/8"	From 7 to 9	from 0,2 to 0,25						
2028N/M12	12 mm	16 mm								
2028E/3	3/8"	1/2"	from 0 to 6	from 0,0027 to 0,113	GoGreen	90 bar	-	-50°C	100°C	Art 4.3 PED
2028E/M10	10 mm	12 mm								
2028E/4	1/2"	5/8"	From 7 to 9	from 0,2 to 0,25						
2028E/M12	12 mm	16 mm								
2028C/3	NEW	3/8"	from 0 to 6	from 0,0027 to 0,113	Multigas	90 bar	1035	-80°C	60°C	Art 4.3 PED
2028C/M10	NEW	10 mm								
2028C/4	NEW	1/2"	12 mm	16 mm						
2028C/M12	NEW	12 mm								

Part number	Orifice Type	Orifice Size [mm]	REFRIGERANT															
			R134a	R32	R404A	R407C	R410A	R1234ze	R1234yf	R448A	R449A	R450A	R452A	R290	R600	R600a	R23	R744
9151#/R61	00	0,3	0,22	0,49	0,21	0,29	0,34	0,17	0,16	0,27	0,27	0,19	0,21	0,3	0,19	0,19	0,37	0,58
9150#/R63	01	0,5	0,79	1,75	0,74	1,03	1,21	0,62	0,58	0,98	0,97	0,69	0,76	1,06	0,68	0,70	1,5	2,09
9150#/R64	02	0,7	1,57	3,48	1,47	2,04	2,40	1,23	1,16	1,96	1,92	1,38	1,52	2,11	1,34	1,39	3,0	4,16
9150#/R65	03	0,8	1,86	4,13	1,75	2,42	2,84	1,46	1,37	2,32	2,27	1,63	1,80	2,51	1,59	1,64	3,52	4,93
9150#/R66	04	1,1	3,01	6,68	2,83	3,92	4,60	2,36	2,22	3,75	3,68	2,64	2,91	4,05	2,57	2,66	5,74	7,98
9150#/R67	05	1,3	5,15	11,43	4,84	6,71	7,88	4,05	3,80	6,42	6,30	4,52	4,98	6,94	4,40	4,55	9,77	13,65
9150#/R68	06	1,7	7,14	15,84	6,71	9,30	10,92	5,61	5,26	8,90	8,73	6,27	6,90	9,62	6,11	6,31	13,54	18,93
9150#/R69	07	2,3	11,26	24,98	10,58	14,66	17,22	8,84	8,30	14,03	13,77	9,88	10,88	15,17	9,63	9,95	21,45	29,85
9150#/R78	08	2,5	13,57	30,11	12,75	17,67	20,75	10,66	10,00	16,91	16,60	11,91	13,11	18,28	11,60	12,00	25,78	35,98
9150#/R79	09	2,7	15,05	33,39	14,14	19,60	23,02	11,82	11,09	18,76	18,40	13,21	14,54	20,27	12,87	13,31	28,57	39,90

Rated capacities are based on:
- Evaporating temperature T_{evap} = + 5 °C
- Condensing temperature T_{cond} = + 32 °C
- Refrigerant liquid temperature ahead of valve T_{liq} = + 28 °C

Rated capacities are based on:
- Evaporating temperature T_{evap} = -25 °C
- Condensing temperature T_{cond} = 0 °C
- Refrigerant liquid temperature ahead of valve T_{liq} = -4 °C

iCastel®



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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