

SAFETY VALVES SERIES 30 FOR CO₂ TRANSCRITICAL AND SUBCRITICAL SYSTEMS



CASTEL: SAFETY FIRST

We support the growth of our customers with reliable, durable, quality and technologically advanced products. With our large range of safety devices and their accessories for refrigeration and air conditioning plants you can find the product you need for every kind of application; fluorinated refrigerants (HCFC, HFC and HFO) and natural refrigerants (HC and CO₂).

WIDE RANGE



Castel proposes a wide range of safety valves for CO₂ Booster, Cascade and pumped liquid systems.

Safety valves series 30 are specifically designed to be suitable for CO₂ transcritical and subcritical systems with maximum working pressure up to 165 bar.



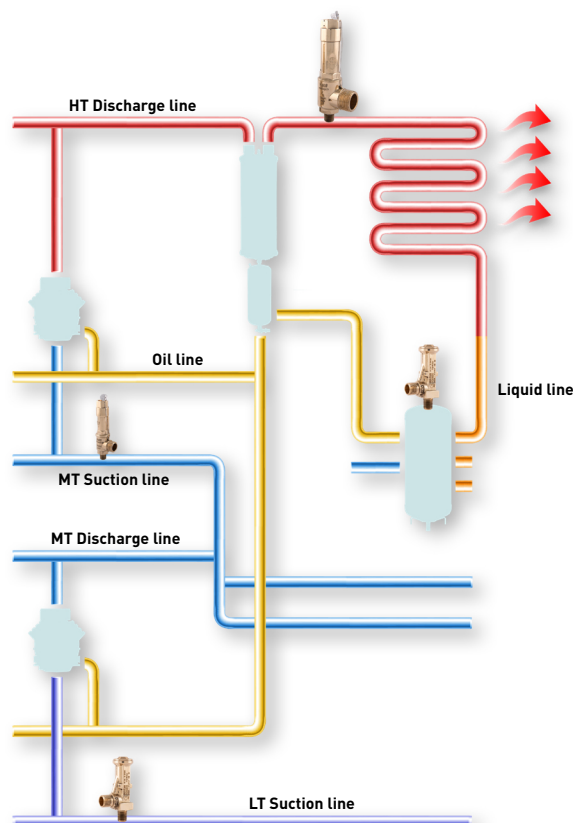
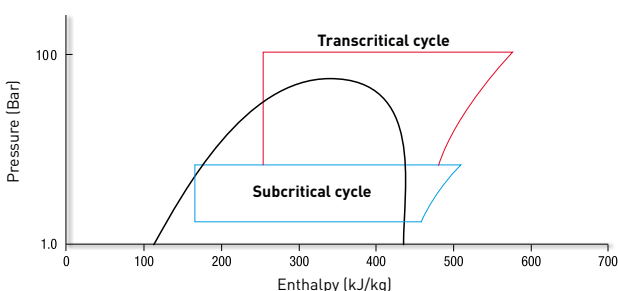
LARGE SETTING RANGE
10 TO 150 BAR



**CONNECTIONS 1/4", 3/8",
1/2", 3/4" AND 1" NPT**



**HIGH TEMPERATURE
RANGE**



Series 30 safety valves can be installed anywhere in the system thanks to the large setting range of 8 to 150 bar.



THE SMALL AND POWERFUL SAFETY VALVE 3061E



LARGE SETTING RANGE
60 TO 150 BAR



CONNECTIONS 1/4",
3/8" AND 1/2" NPT

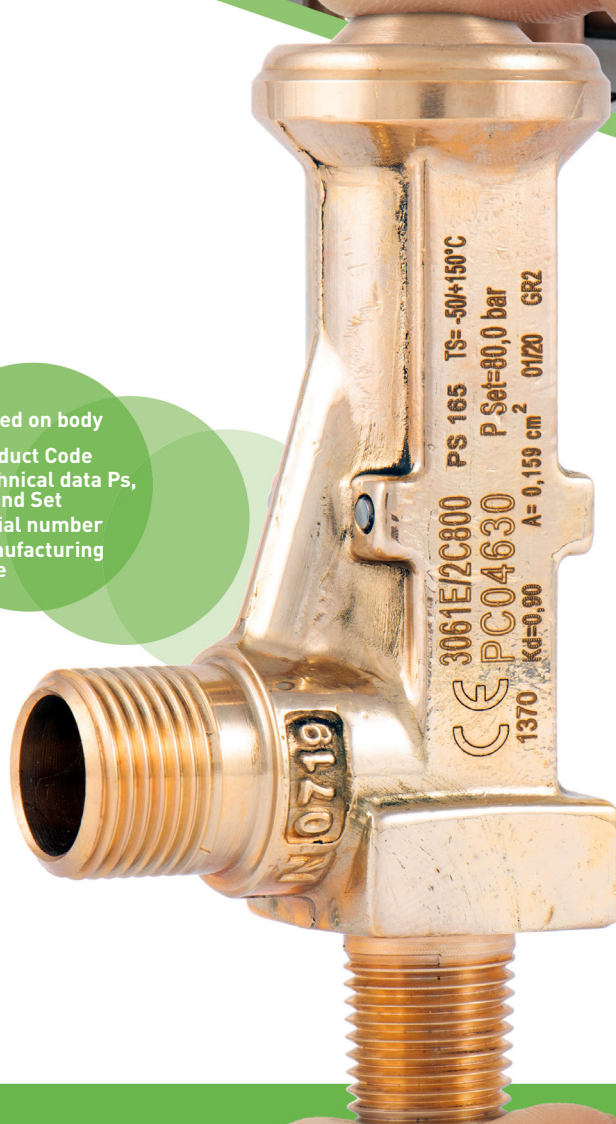
Construction

Body: squared, obtained through hot moulding and subsequent machining.

Piston: machined from bar stock and fitted with a seal that ensures the required degree of tightness on the valve seat. The seal is made from PTFE. This material maintains good strength during the valve's estimated service life.

Spring: it opposes the pressure and the fluid dynamic forces, and always ensures closing of the valve following pressure relief.

- Marked on body
- Product Code
- Technical data Ps, Ts and Set
- Serial number
- Manufacturing date



The safety valves in series 30 are safety devices according to the definition given in Article 2, Point 4 of 2014/68/EU Directive and are the subject of Article 4, Point 1.d) of aforesaid Directive.



	Drawing	Part number	Connections		Orifice section [mm ²]	Discharge coefficient Kd	Set pressure range [bar]	PS [bar]	TS [°C]		Package pcs
			IN	OUT					min	max	
SUBCRITICAL		3030/88C	1" NPT	1.1/4" G	298	0,83	8 → 50	55	-50	+150	8
		3030/66C	3/4" NPT	3/4" G	113	0,9					15
		3030/44C	1/2" NPT	3/4" G	113	0,9					
		3030/44G (1)	1/2" G	3/4" G	113	0,9					
		3060/46C	1/2" NPT	3/4" G	78,5	0,93	9 → 50	55	-50	+120	45
		3060/36C	3/8" NPT	3/4" G	78,5	0,92					
		3060/45C	1/2" NPT	5/8" SAE	70,9	0,45					
		3060/34C	3/8" NPT	1/2" SAE	38,5	0,69					
		3060/33C	3/8" NPT	3/8" SAE	38,5	0,63					
		3060/24C	1/4" NPT	1/2" SAE	38,5	0,69					
3060/23C		1/4" NPT	3/8" SAE	38,5	0,63						
	3061/2C	1/4" NPT	3/8" G	44,2	0,89	11 → 60	70	-50	+150	18	
	3061/3C	3/8" NPT	1/2" G								
	3061/4C	1/2" NPT	1/2" G								
	3065/4C	1/2" NPT	1" G	132,7	0,87	11 → 60	70	-50	+150	24	
	3065/6C	3/4" NPT	1" G								
TRANS-CRITICAL		NEW 3061E/2C	1/4" NPT	3/8" G	15,9	0,90	60 → 150	165	-50	+150	18
		NEW 3061E/3C	3/8" NPT	1/2" G							
		NEW 3061E/4C	1/2" NPT	1/2" G							
	3030E/36C	3/8" NPT	3/4" G	38,5	0,97	60 → 150	165	-50	+150	15	
	3030E/46C	1/2" NPT	3/4" G								
	3030E/410C	1/2" NPT	1.1/4" G	95,0	0,91					8	
	3030E/610C	3/4" NPT	1.1/4" G								

LOOKING FOR MORE SAFETY DEVICES?



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GO GREEN

R744 • NATURAL REFRIGERANT



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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