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CHAPTER 2 VALVES WITH SCREW SHUTTER FOR REFRIGERATION PLANTS THAT USE HC REFRIGERANTS



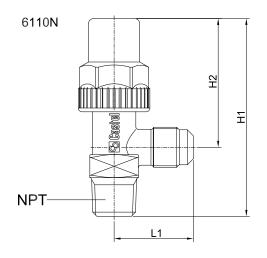
this chapter <u>cannot</u> be installed with mineral oils or alkylbenzenes.

RECEIVER VALVES

Receiver valves for HC are two-way valves with 90° connections, type 6110N.

The main parts are manufactured with the following materials:

- Hot forged brass EN 12420 CW 617N for the body
- Steel, with proper surface protection, for the spindle.
- Hydrogenated nitrile butadiene rubber (HNBR) and aramid fibres for packing gland seal.
- Glass-reinforced PBT for the protective cap that covers the spindle.



APPLICATIONS

The valves illustrated in this chapter have been developed by Castel for all those refrigeration applications that use the following HC refrigeration fluids: R290, R600, R600a, belonging to Group 1, defined in Article 13, Chapter 1, Point (a) of Directive 2014/68/EU, with reference to EC Regulation No. 1272/2008.

CAUTION! Valves with screw shutter illustrated in

TABLE 19: General characteristics of receiver valves for HC refrigerants											
Catalogue Number	Connections		Kv Factor	PS	TS [°C]		TA [°C]		Risk Category according to		
	SAE Flare	NPT	[m³/h]	[bar]	min.	max.	min.	max.	PED Recast		
6110N/22	1/4"	1/4"	0,44	45	-40	+150	-40	+50	Art. 4.3		
6110N/33	3/8"	3/8"	1,35								
6110N/43	1/2"	3/8"	2,40								

TABLE 20: Dimensions and weights of receiver valves for HC refrigerants									
Catalogue Number		Woight [g]							
Catalogue Nullibel	H ₁	H ₂	L,	Weight [g]					
6110N/22	72	48	27,5	110					
6110N/33	77	50	31	140					
6110N/43	88	55,5	34,5	220					

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