



CHAPTER 8 SHUT-OFF VALVES IN SERIES 3064, 3064N, AND 3064E



APPLICATIONS

Please remember that the operation of pressure equipment and pressure assemblies is not covered by Directive 2014/68/EC; rather, it is regulated by the national legislation of the Member States of the European Union. Therefore, the various Member States have issued laws that call for periodic inspection of pressure equipment and pressure assemblies. Italy issued Ministerial Decree 329 dated 01/12/2004 regarding the provisions for the installation and use of pressure equipment and pressure assemblies that comply with Directive 97/23/EC.

Any intervention for periodic inspection or replacement of an installed safety device becomes very difficult if the protected vessel is not equipped with a shut-off valve. Shut-off valves in series 3064, 3064N and 3064E installed between the protected vessel and the safety valve,

between the protected vessel and the safety valve, allow the device to be disassembled for inspection or replacement without blowing off all the refrigerant fluid from an entire section of the system.

The valves in this chapter can be used with the same fluids foreseen for safety valves series 3030, 3060, 3061 and 3065, specifically:

- a. Valves in series 3064 can be used with the following refrigerant fluids:
 - HCFC (R22)
 - HFC (R134a, R32, R404A, R407C, R410A or R507)
 - HFO and HFO/HFC mixtures (R1234yf, R1234ze, R448A, R449A, R450A or R452A)
- b. Valves in series 3064N can be used with the following refrigerant fluids:
 - HFC (R134a, R32, R404A, R407C, R410A or R507)
 - HFO and HFO/HFC mixtures (R1234yf, R1234ze, R448A, R449A, R450A or R452A)
 - HC (R290, R600, R600a)

CAUTION! Valves in series 3064N <u>cannot</u> be installed on systems that use HCFC (R22) refrigerants or other refrigerants blended with mineral oils or alkylbenzenes.

 Valves in series 3064E can be used only with refrigerant fluid R744.

CONSTRUCTION

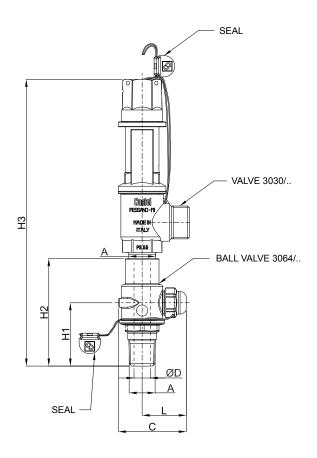
Valves in series 3064, 3064N and 3064E are supplied by Castel in the open position and the spindle cap protection is sealed with a Castel lead seal. Any operation to close the valve requires causes the tampering with the seal and must be performed exclusively by:

- staff authorized to work on the system
- an operator of a competent inspection body

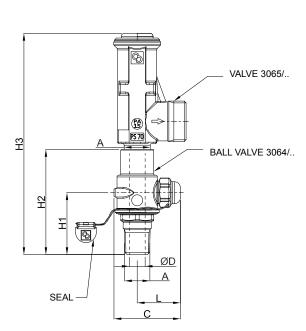
These persons will be responsible for the subsequent re-opening of the valve and the application of a new cap seal with their own lead seal.

The main parts of the valves in series 3064, 3064N, and 3064E are made from the following materials:

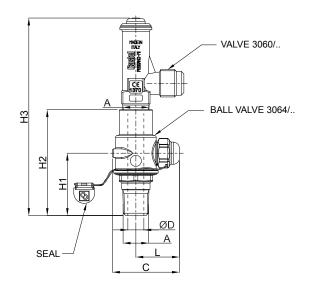
- Hot forged brass EN 12420 CW 617N for the body
- Hot forged brass EN 12420 CW 617N, chromium plated, for the ball
- Steel, with proper surface protection, for the spindle.
- P.T.F.E. for the ball seat gaskets
- Chloroprene rubber (CR) for outlet seal gaskets in valves series 3064
- Hydrogenated nitrile butadiene rubber (HNBR) for outlet seal gaskets in valves series 3064N
- Ethylene propylene diene monomer rubber (EPDM) for outlet seal gaskets in valves series 3064E
- Hot forged brass EN 12420 CW 617N for the protective cap of the spindle



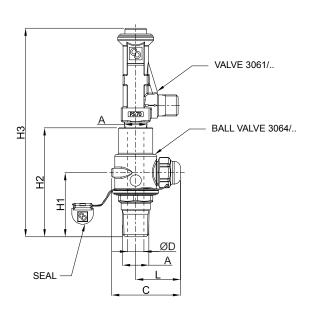
 $3064/44 \rightarrow 3030/44C$ $3064/88 \rightarrow 3030/88C$ $3064N/44 \rightarrow 3030/44C$ $3064N/88 \rightarrow 3030/88C$ $3064E/44 \rightarrow 3030/44C$ $3064E/88 \rightarrow 3030/88C$



 $3064/44 \rightarrow 3065/4C$ $3064N/44 \rightarrow 3065/4C$ $3064E/44 \rightarrow 3065/4C$



 $3064/22 \rightarrow 3060/..C$ $3064/33 \rightarrow 3060/..C$ $3064/44 \rightarrow 3060/..C$ $3064N/22 \rightarrow 3060/..C$ $3064N/33 \rightarrow 3060/..C$ $3064N/44 \rightarrow 3060/..C$ $3064E/22 \rightarrow 3060/..C$ $3064E/33 \rightarrow 3060/..C$ $3064E/44 \rightarrow 3060/..C$



 $3064/22 \rightarrow 3061/2C$ $3064/33 \rightarrow 3061/3C$ $3064/44 \rightarrow 3061/4C$ $3064N/22 \rightarrow 3061/2C$ $3064N/33 \rightarrow 3061/3C$ $3064N/44 \rightarrow 3061/4C$ $3064E/22 \rightarrow 3061/2C$ $3064E/33 \rightarrow 3061/3C$ $3064E/44 \rightarrow 3061/4C$

	TABLE 23: General characteristics, dimensions and weights of valves series 3064																
				TS [°C]		TA [°C]				Dime	Inlet		Risk				
Catalogue Number	Designed for valve	Kv Factor [m³/h]	PS [bar]	min	max	min	max	ØD	А	С	L	H ₁	H ₂	H ₃	connection wrench torque (min/max) [Nm]	Weight [g]	Category according to PED Recast
	3060/23C	2,5						7	1/4" NPT	47	32	45		147			
3064/22	3060/24C												74		10/15	216	
	3061/2C													157			Art. 4.3
	3060/33C	- 5	80		+150	-40	+50	10	3/8" NPT	47	32	45		147	14/20	208	
3064/33	3060/34C												74	147			
3004/33	3060/36C													163			
	3061/3C			-40										154			
	3060/45C	10										51		165			
	3060/46C								4 (01)					176]		
3064/44	3061/4C							13	1/2" NPT	54	35		86	168	21/30	334	
	3065/4C													188			
	3030/44C													235			
3064/88	3030/88C	20						20	1" NPT	78	52	70	119	323	50/65	871	

	TABLE 24: General characteristics, dimensions and weights of valves series 3064N																
	Designed for valve	Kv Factor [m³/h]	PS [bar]	TS [°C]		TA [°C]				Dime	Inlet		Risk				
Catalogue Number				min	max	min	max	ØD	А	С	L	H ₁	H ₂	H ₃	connection wrench torque (min/max) [Nm]	Weight [g]	Category according to PED Recast
	3060/23C							7	1/4" NPT	47	32	45		147	10/15		
3064N/22	3060/24C	2,5											74	147		216	
	3061/2C													157			
	3060/33C		80			-40	+50	10	3/8" NPT	47	32	45		147	14/20	208	Art. 4.3
3064N/33	3060/34C	5		-40	+150								74	147			
300411/33	3060/36C													163			
	3061/3C													154			
	3060/45C										35	51		165			
	3060/46C	10												176]		
3064N/44	3061/4C							13	1/2" NPT	54			86	168	21/30	334	
	3065/4C													188			
	3030/44C													235			

	TABL	TABLE 25: General Characteristics, dimensions and weights of valves series 3064E															
	Designed for valve	Kv Factor [m³/h]		TS [°C]		TA [°C]				Dime	Inlet		Risk				
Catalogue Number			PS [bar]	min	max	min	max	ØD	A	С	L	H ₁	H ₂	H ₃	connection wrench torque (min/max) [Nm]	Weight [g]	Category according to PED Recast
3064E/22	3060/23C							7	1/4" NPT	47	32	45	74	147	10/15		
	3060/24C	2,5												177		216	
	3061/2C													157			
	3060/33C			-40	+150	-40	+50	10	3/8" NPT	47	32	45		147	14/20	208	Art. 4.3
3064E/33	3060/34C	5	120										74	147			
3004L/33	3060/36C													163			
	3061/3C													154			
	3060/45C							13		54		51	86	165		334	
	3060/46C	10												176	1		
3064E/44	3061/4C								1/2" NPT		35			168	21/30		
	3065/4C								NPI					188			
	3030/44C													235			
3064E/88	3030/88C	20	80					20	1" NPT	78	52	70	119	323	50/65	871	

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