

SIN

USE

- 4-tube systems for automatic summer/winter switching
- adjusting of radiant ceilings, fan coils and chilled beams (terminal units)

KEY FEATURES

- fast push connection with of the actuator
- Kv selection disc
- overpressure discharge system

VERSIONS AND TECHNICAL FEATURES



DN	Connections	PN	Kv _s MAX * [m³/h]	Code
15	Rp 1/2" F	16	1,25	SC6A15F
15	G 3/4" M	16	1,25	SC6B15M
20	Rp 3/4" F	16	2,8	SC6B20F
20	G 3/4" M	16	2,8	SC6B20M

6-way

* value with no disc added

Versions with conical or Eurocono connections available on request.

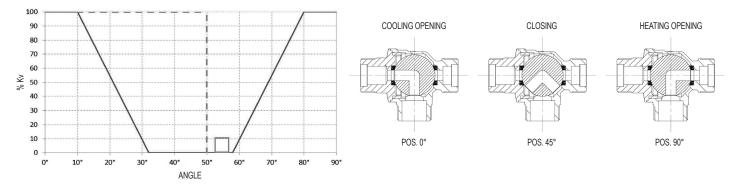
TECHNICAL FEATURES			
Fluid type	Water (max 50% glycol)		
Fluid temperature	+5°C+100°C		
Rated pressure	16 bar		
Δp max	2 bar		
Characteristic curve	Linear, with regulation disc		
Total operating angle	90°		
Operating angle of the first section	0°32°		
Angle of "neutral zone"	32°58°		
Operating angle of the second section	58°90°		
Leakage class EN12266-1/12 – P12	Class A		





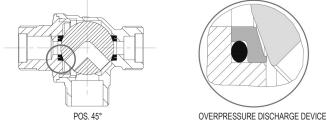
OPERATION

The 6-way valve consists of two three-way ball valves which are moved simultaneously by the same control rod. Therefore, a single 6-way motorized valve replaces four 2-way motorized valves, simplifying the control and installation. With the 6-way valves you can therefore change the state (hot/cold) and the complete hydraulic insulation of the terminal unit from the distribution, when required.

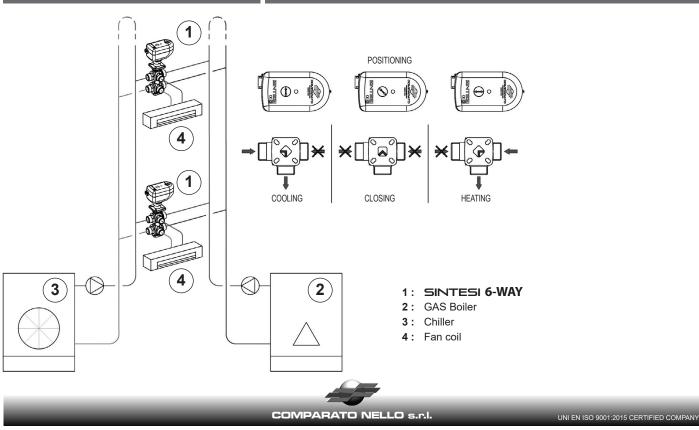


OVERPRESSURE DISCHARGE SYSTEM

When the valve is in the closed position (position 45°) the hydraulic circuit between the terminal unit and the valve is disconnected from the expansion vessels: in this condition, the room temperature may rise and consequently also the pressure in the section may increase due to pressure in the section due to the natural expansion of the fluid. For this reason, the valve is fitted with a system that allows the overpressure to be relieved on the distribution circuit.

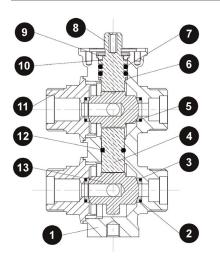


EXAMPLE OF USE





MATERIAL USED



1	BODY	CW602N (EN 12167) CuZn36Pb2As NICKEL PLATED		
		CW602N (EN 12167) CuZn36Pb2As		
2	O-RING	EPDM - PEROX		
3	SIDE SEAL	PTFE		
4	ROD	CW614N (EN 12164) CuZn39Pb3 CHROMED		
5	BALL	CW617N (EN 12165) CuZn40Pb2 CHROMED		
6	ANTI-FRICTION RING	PTFE		
7	O-RING	EPDM - PEROX		
8	MAIN ROD	CW614N (EN 12164) CuZn39Pb3 CHROMED		
9	SEEGER	PHOSPHOR BRONZE		
10	ANTI-FRICTION RING	PTFE		
11	CONNECTION	CW602N (EN 12167) CuZn36Pb2As NICKEL PLATED		
		CW602N (EN 12167) CuZn36Pb2As		
12	O-RING	EPDM - PEROX		
13	BALL	CW617N (EN 12165) CuZn40Pb2 CHROMED		

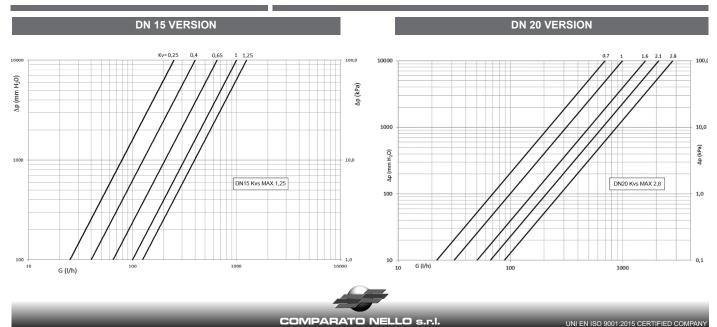
KVS DISCS

The 6-way valve is supplied in the configuration which guarantees the maximum value of Kvs, i.e. of flow rate, for each of the two sections. The flow rates for each of the two sections are actually different: the heating flow rates are normally lower than the cooling flow rates due to the different ΔT . For this reason, each valve is supplied with a kit consisting of 4 pairs of perfectly interchangeable discs through which it is possible to manage the choice of the Kvs values. On the surface of each disc there's a permanent notice indicating the predetermined Kvs value. According to the installer's preferences (and to the designer's instructions) select the appropriate discs for the two sections. This solution provides maximum flexibility and convenience.



	DN 15	DN 20
KV _S MAX	1,25	2,8
	1,0 - 0,65	2,1 - 1,6
KV _S DISCS	0,4 - 0,25	1 - 0,7

PRESSURE DROPS

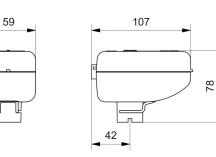


3



OVERALL SIZE

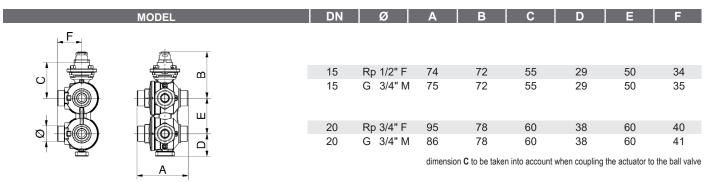
ACTUATOR





- SINTESI SMART
- SINTESI SMART MODBUS
- SINTESI DC

BALL VALVE



COMBINATION WITH THE SINTESI ACTUATOR

FUNCTION	2 / 3 POINT SINTESI	PROPORTIONAL SINTESI SMART	SINTESI SMART MODBUS	2 POINTS / 3 POINTS / 3 POSITIONS SINTESI DC
Switching 0° - 90°	\checkmark		\checkmark	\checkmark
Switching and closing 0°- 45°- 90°		\checkmark	\checkmark	\checkmark
Switching, adjustment and closing 0°- 45°- 90°		\checkmark	\checkmark	

EXAMPLE OF SPECIFICATIONS

6-WAY BRASS BALL VALVE • CW602N UNI EN12167, PTFE seals, PN16, G3/4" M connections. Operating temperature +5°C... +100°C. Fluid type water with glycol max. 50%. Overpressure discharge system. Possibility of installation of discs for the Kvs values adjustment. Connection to the actuator with a Sintesi fast connection. Version: 6-WAY DN15 - G3/4" M - Kvs max 1.25.

Brand: COMPARATO

Code: SC6B15M





In order to provide an up-to-date service, Comparato Nello S.r.I. reserves the right to modify technical data, drawings, graphs and photos of this data sheet at any time, without prior notice HYDROTHERMAL SYSTEMS



COMPARATO NELLO s.r.I. 17014 CAIRO MONTENOTTE (SV) ITALIA VIALE DELLA LIBERTÀ • LOCALITÀ FERRANIA • Tel. +39 019 510.371 - FAX +39 019 517.102 www.comparato.com e-mail:info@comparato.com

UNI EN ISO 9001:2015 CERTIFIED COMPANY