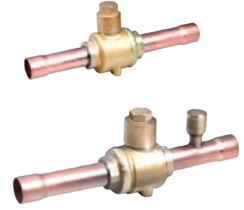


BALL VALVE SERIES SBV INSTRUCTIONS



Sanhua SBV series ball valves are applicable for commercial air conditioner, freezing/deep-freezing equipment or other refrigeration circuits in order to open and to shut the inner flow path by operating the valve stem. It can also be used as service valve for vacuum pumping and refrigerant injection etc. Models come with or without access fitting.



GENERAL SPECIFICATIONS

Applicable to fluids and refrigerants of GROUP 2 according to Directive 97/23/CE (29 May 1997) or GROUP A1 according to ANSI-ASHRAE 34-2010.

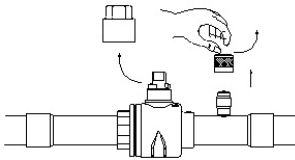
ERC

Temperature Range (TS): -40°F to +248°F (-40°C to +120°C)
Design Pressure (PS): 653 psi (45 bar)

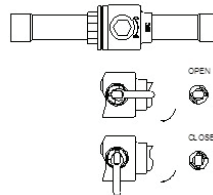
INSTALLATION INSTRUCTIONS: BALL VALVE SERIES SBV

PART 1: BRAZE VALVE

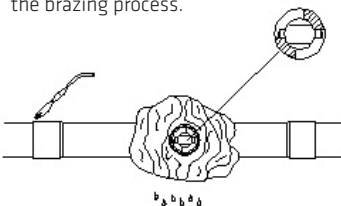
1 Remove cap and access cap (if present).



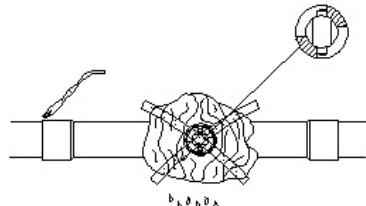
2 Move the stem to OPEN position.



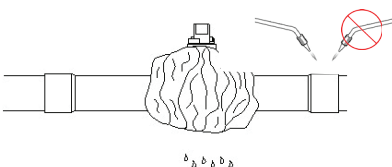
3 Braze the valve using specific alloy (SilFos 15). Use a wet rag on valve in open position during the brazing process.



4 **ATTENTION:** don't braze with valve in CLOSE position.



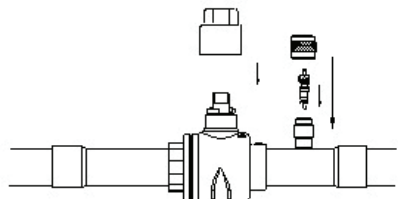
5 Braze using the shown torch position.



Max. 248°F (120°C)

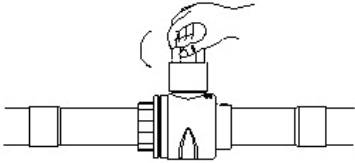


6 Install cap and access cap (if present).

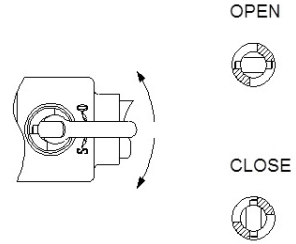


PART 2: OPEN/CLOSE VALVE

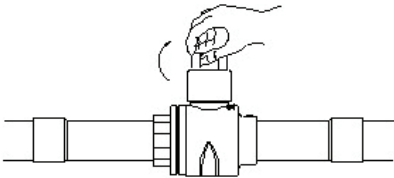
7 Remove cap.



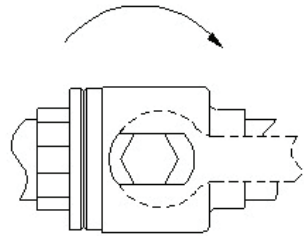
8 Move the stem in OPEN or CLOSE direction.



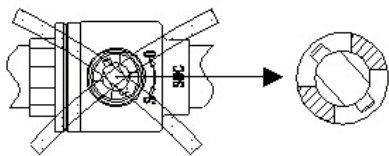
9 Tighten the cap manually.



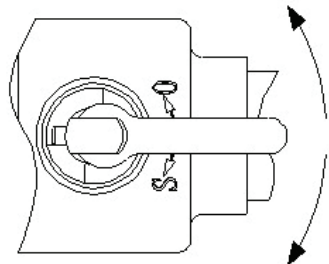
10 Tighten cap using a torque wrench respecting the maximum torque value. See Table 1.*



11 Check the stem position: it must be only in: FULLY OPEN or FULLY CLOSED position.

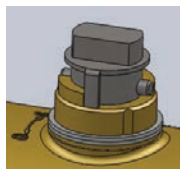


12 Move the stem respecting the maximum torque value. See table 1.**



- 13** Please follow below steps to add the anti-rotation device
- 13a. Select the right model of the anti-rotation device based on the ball valve size
- 13b. Remove the cap
- 13c. Place the stop ring on the stem as shown in the picture: Open position or Closed Position
- 13d. Tighten manually the new cap present in the anti-rotation kit substituting the old one.
- 13e. Tighten the cap using a torque wrench respecting the maximum torque value. See table 1.*

OPEN POSITION



CLOSED POSITION

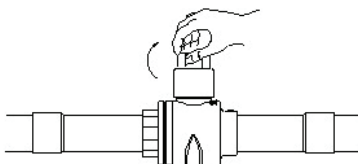
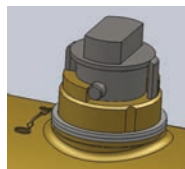


TABLE 1

VALVE SIZE	6	10	12	15	16	18	22	28	35	42	54	64	80	89	105	108
Connection diameter (mm)																
Torque valve for cap*	13.5 ~20Nm															
Max torque valve for stem**	≤7						≤15			≤30			≤40			

ADDITIONAL LANGUAGES

Step	Español	Français
1	Sacar el cabezal de la válvula y el de la conexión para manómetro (si tiene).	Dévisser les embouts protégeant le carré de manœuvre et la prise de charge (si présente).
2	Mover el eje a la posición OPEN (abierto).	Manœuvrer la tige carrée sur la position OPEN (ouvert).
3	Soldar la válvula usando una aleación específica (SilFos 15). Poner un paño húmedo sobre la válvula en posición abierta durante el proceso de soldadura.	Braser les tubes de connection en utilisant un alliage spécifique (type SilFos 15). Placer un chiffon mouillé sur le corps de vanne en position ouverte pendant le brasage.
4	ATENCIÓN: no soldar con la válvula en posición CLOSE (cierra).	ATTENTION: Ne pas braser la vanne en position CLOSE (fermé).
5	Soldar usando la llama como se muestra.	Braser en utilisant la position de torche recommandée sur le schéma.
6	Instalar los cabezales de la válvula y de la conexión para manómetro (si tiene).	Replacer les embouts protégeant le carré de manœuvre et la prise de charge (si présente).
7	Sacar el cabezal.	Retirer l'embout du carré de manœuvre.
8	Mover el eje de la válvula en la dirección OPEN o CLOSE.	Manœuvrer la tige carrée sur la position OPEN (ouvert) ou CLOSE (fermé).
9	Colocar el cabezal y cerrar manualmente.	Serrer manuellement l'embout de protection.
10	Ajustar el cabezal con una llave inglesa, respetando los valores máximos de Par de ajuste en la Tabla 1.*	Serrer l'embout à l'aide d'une clef dynamométrique selon le couple préconisé (tab.1) * Contrôler la position du carré de manœuvre: il ne doit être qu'en position complètement ouvert ou complètement fermé.

ADDITIONAL LANGUAGES

Step	Español	Français
11	Comprobar la posición del eje que deber estar solamente: TODO ABIERTO o TODO CERRADO .	Contrôler la position du carré de manœuvre: il ne doit être qu'en position complètement ouvert ou complètement fermé.
12	Mover el eje respetando los valores máximos del Par de ajuste de la tabla 1.**	Manœuvrer la tige carrée en respectant les couples préconisés (tab.1). **



TECHNICAL SUPPORT

For additional technical information and to learn more about Sanhua's full product line, please visit sanhuausa.com.

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