



WELDING INSTRUCTIONS

VB-20 series

02-2024



www.tecval.es

C/Colom, 519 Pol.Can Parellada

08228-TERRASSA

Barcelona (Spain)

TERRASSA, Friday, February 9, 2024

Mr. Joan Viñas (Technical Manager)

Mr. Joan Ferran (General Director)

Mr. Narcís Ferran (Sales Manager)

WELDING INSTRUCTIONS

VB-20 series

Manual Ball Valves

1 Open the valve.



2 Remove this bolt.



3 Loosen the remaining bolts.



4 Swing out the center body.



5 Remove O'Ring and seats.



6 Warp center body.



7 Welding.



8 Cooling processes. Reassemble O'ring Seat



9 Swing back the center body.



10 Insert bolt.



11 Torque body bolts.



Tightening order



	1 st pass	2 nd pass	3 rd pass
DN 15	0,5 Nm	3 Nm	10 Nm
DN 20	1 Nm	7 Nm	25 Nm
DN 32	2 Nm	10 Nm	35 Nm
DN 40	3 Nm	17 Nm	55 Nm

WELDING INSTRUCTIONS

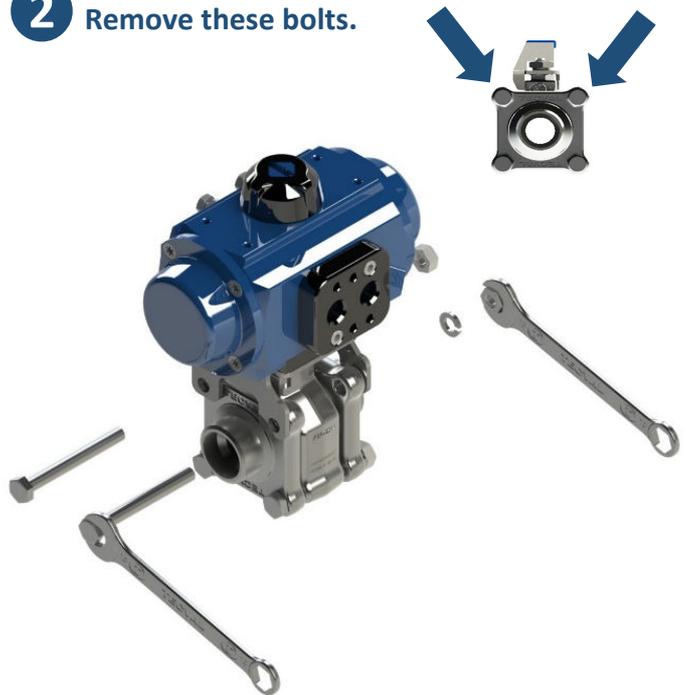
VB-20 series

Actuated Ball Valves

1 Open the valve.



2 Remove these bolts.



3 Remove Actuator + Connector.



4 Loosen the remaining bolts.



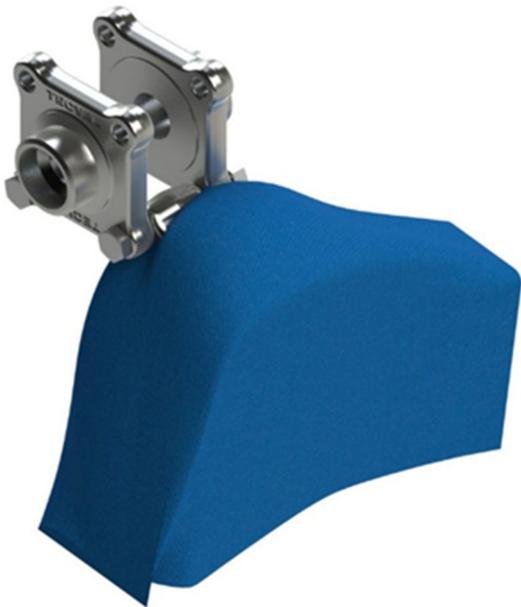
5 Swing out the center body.



6 Remove O'Ring and Seats.



7 Warp center body.



8 Welding.



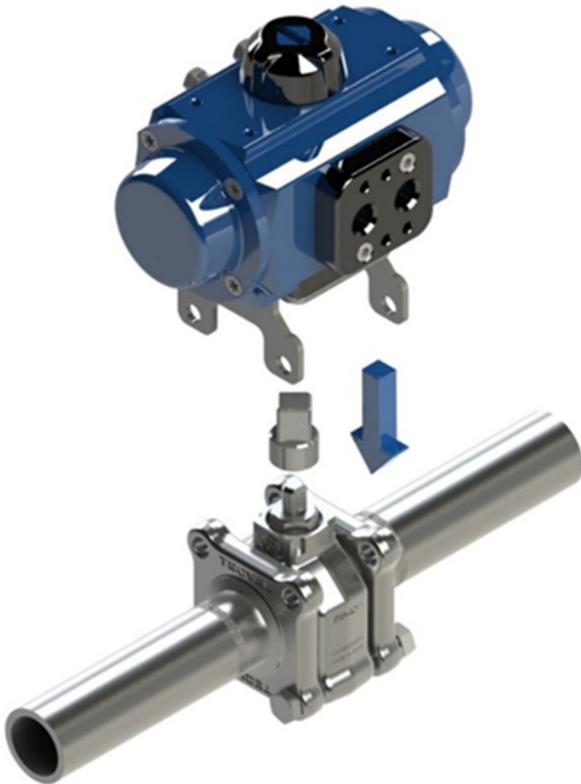
9 Cooling processes. Reassemble O'ring Seat.



10 Swing Back Center Body.



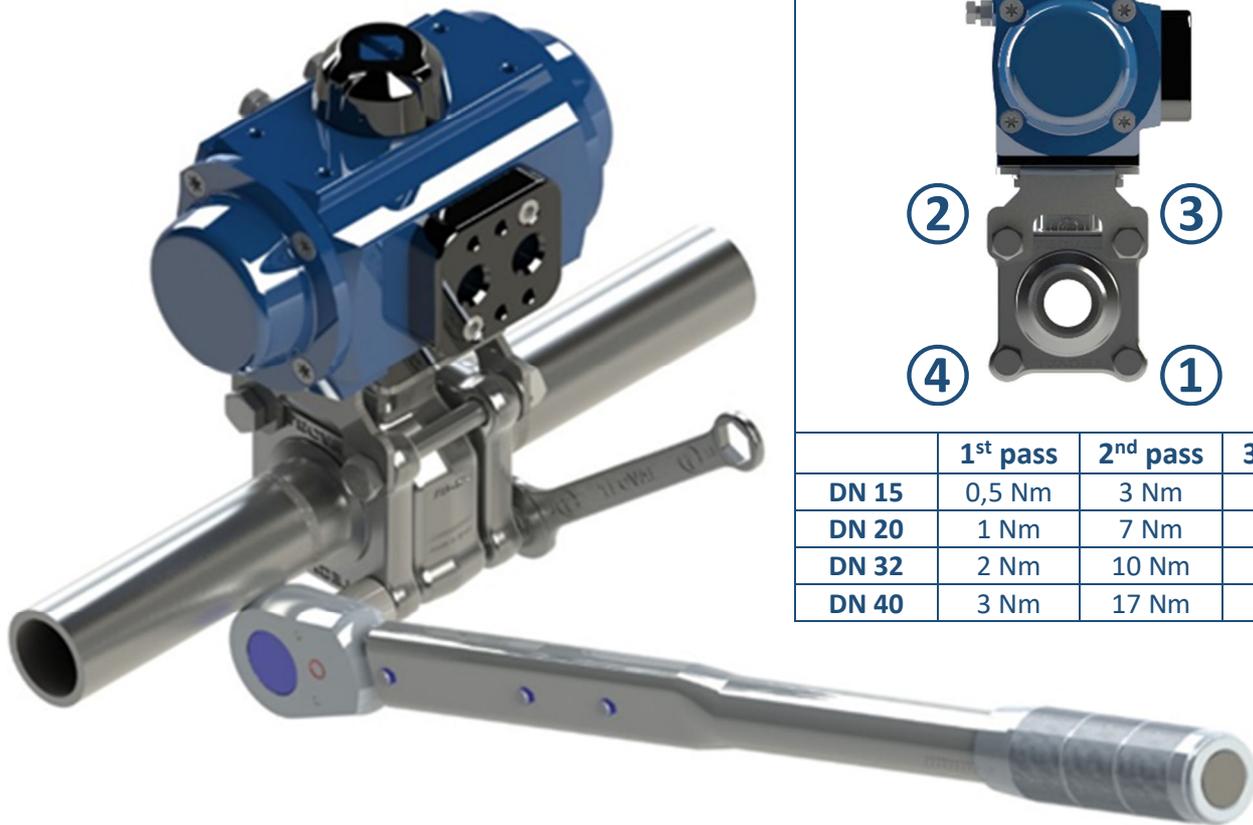
11 Insert Actuator + Connector.



12 Insert Fasteners.



13 Torque body bolts.



Tightening order



	1 st pass	2 nd pass	3 rd pass
DN 15	0,5 Nm	3 Nm	10 Nm
DN 20	1 Nm	7 Nm	25 Nm
DN 32	2 Nm	10 Nm	35 Nm
DN 40	3 Nm	17 Nm	55 Nm