

## BELIMO ACTUATED BALL VALVE INSTRUCTION SET v1.4

Model numbers of applicable products to be used with Instructions:

Belimo R215/LRU230;      Belimo R220/LRU230  
 AF02-1/2-LRU230;      AF02-3/4-LRU230

1. Wiring of Belimo Valve to a DIGICHEM for **BLEED** function via Conductivity control:

DIGICHEM Model:	Belimo Wire	Digichem Terminal Number:
DIGICHEM Series II	L (Brown/Red) L (White) N (Blue/Black)	Terminal R1 or R3 (Mains Active) Terminal R5 (Sol. Active O/P) Terminal R7 (Sol. Neutral)
DIGICHEM Series III & IV	L (Brown/Red) L (White) N (Blue/Black)	Terminal R1 or R3 (Mains Active) Terminal R9 (Sol. Active O/P) Terminal R10 (Sol. Neutral)
DIGICHEM Series XP2 Incl. DIGICHEM-ORP-XP2	L (Brown/Red) L (White) N (Blue/Black)	Terminal R1 or R3 (Mains Active) Terminal R5 (Sol. Active O/P) Terminal R6 (Sol. Neutral)
DIGICHEM Plus+ GEN I	L (Brown/Red) L (White) N (Blue/Black)	Terminal 35 (Mains Active) Terminal 34 (Sol. Active O/P) Terminal 51 (Sol. Neutral)
DIGICHEM Plus+ GEN II (i.e. version with USB socket on front fascia)	L (Brown/Red) L (White) N (Blue/Black)	Terminal 31 (Mains Active) Terminal 30 (Sol. Active O/P) Terminal 46 (Sol. Neutral)

- Wiring of Belimo Valve to a DIGICHEM for **BROMINATOR** dosing function via ORP control:

DIGICHEM Model:	Belimo Wire	Digichem Terminal Number:
DIGICHEM Series II	N/A	
DIGICHEM Series III & IV	N/A	
DIGICHEM-ORP-XP2	L (Brown/Red) L (White) N (Blue/Black)	Terminal R1 or R3 (Mains Active) Terminal R11 (ORP Active O/P) Terminal R12 (ORP Neutral)
DIGICHEM Plus+ GEN I	L (Brown/Red) L (White) N (Blue/Black)	Terminal 35 (Mains Active) Terminal 30 or 31 (ORP/Bio B Active O/P) Terminal 47 or 48 (ORP/Bio B Neutral)
DIGICHEM Plus+ GEN II (i.e. version with USB socket on front fascia)	L (Brown/Red) L (White) N (Blue/Black)	Terminal 35 (Mains Active) Terminal 26 or 27 (ORP/Bio B Active O/P) Terminal 42 or 43 (ORP/Bio B Neutral)

2. Note that the Belimo valve is rated at IP54, therefore an enclosure is recommended for weatherproofing.
3. The Belimo valve is required to be powered constantly, as upon power loss, the valve will retain it's original position. It is NOT Spring Return!

Please be cautioned, as the system will continuously bleed if the valve is opened and power loss occurs.

4. With the DIGICHEM output **off**, the valve will **Close** (as per factory supply)
5. With the DIGICHEM output **on**, the valve will **Open** (as per factory supply)
6. The black circle on top of the valve is a screw driver slot to control the direction. This can also be achieved by turning it with your finger nail –

With the arrow at Y2, the valve will normally close (as per factory Supply).  
With the arrow at Y1, the valve will normally open.

7. The running time of the valve is 90 Seconds from fully Open to fully Closed and visa versa.
8. The actuator has a specification of 5Nm Torque