



# Operation and maintenance instructions

## Dry alarm valve DRV-1 with accelerator

Water supply pressure (bar)	Air supply set point (bar)	Pressure relief valve part number
Up to 10.0	3.5	131054
10.1 to 12.0	3.9	849833
12.1 to 14.0	4.3	849834
14.1 to 16.1	4.4	849835

### Operating Mode

Open valves: 2, 7, 8, 14, 15, 18, 22, 23, 24  
Closed valves: 3, 4, 11, 21

### To remove from service (see Operating Instructions chapter 8)

1. Close the main control valve (2)
2. Close the air supply shut-off valve (8)
3. Drain the system. Open the drain valves (3) and (4)
4. To re-instate, follow the commissioning process below

### Valve commissioning (see Operating Instructions chapter 7.2)

During each service of the valve it is recommended to grease the clapper sealing o-ring and spring seal.

5. Make sure that the main control valve (2) and drains (3) and (4) are closed
6. Ensure the dry valve has been reset (see Chapter 7 of the Installation manual) and is closed. Do not use tools to close the clapper
7. Open the air supply shut-off valve (8)
8. If compressed air escapes from the hose of the automatic drip check valve (12), the valve clapper is not closed properly and needs to be checked
9. Quickly open and close the main drain valve (3). The valve clapper should be closed
- 10.Slowly open the main control valve (2) and wait until the supply pressure gauge (10) displays full water supply pressure

### WARNING!

An excessively fast filling process can trip the valve and flood the sprinkler pipework.

- 11.Open the main control valve (2) fully
- 12.Carry out a leakage test according to local legal requirements
- 13.If water is constantly flowing from the hose of the automatic drip check valve (12), the groove seal of the valve disk is leaking. In this case, close the main control valve (2), release the compressed air fully and check or replace the O-rings and the guide ring of the valve disk.
- 14.In case of new systems, decommissioned systems, or if new equipment has been installed, test the system to check whether all the equipment functions properly.
- 15.The system is ready

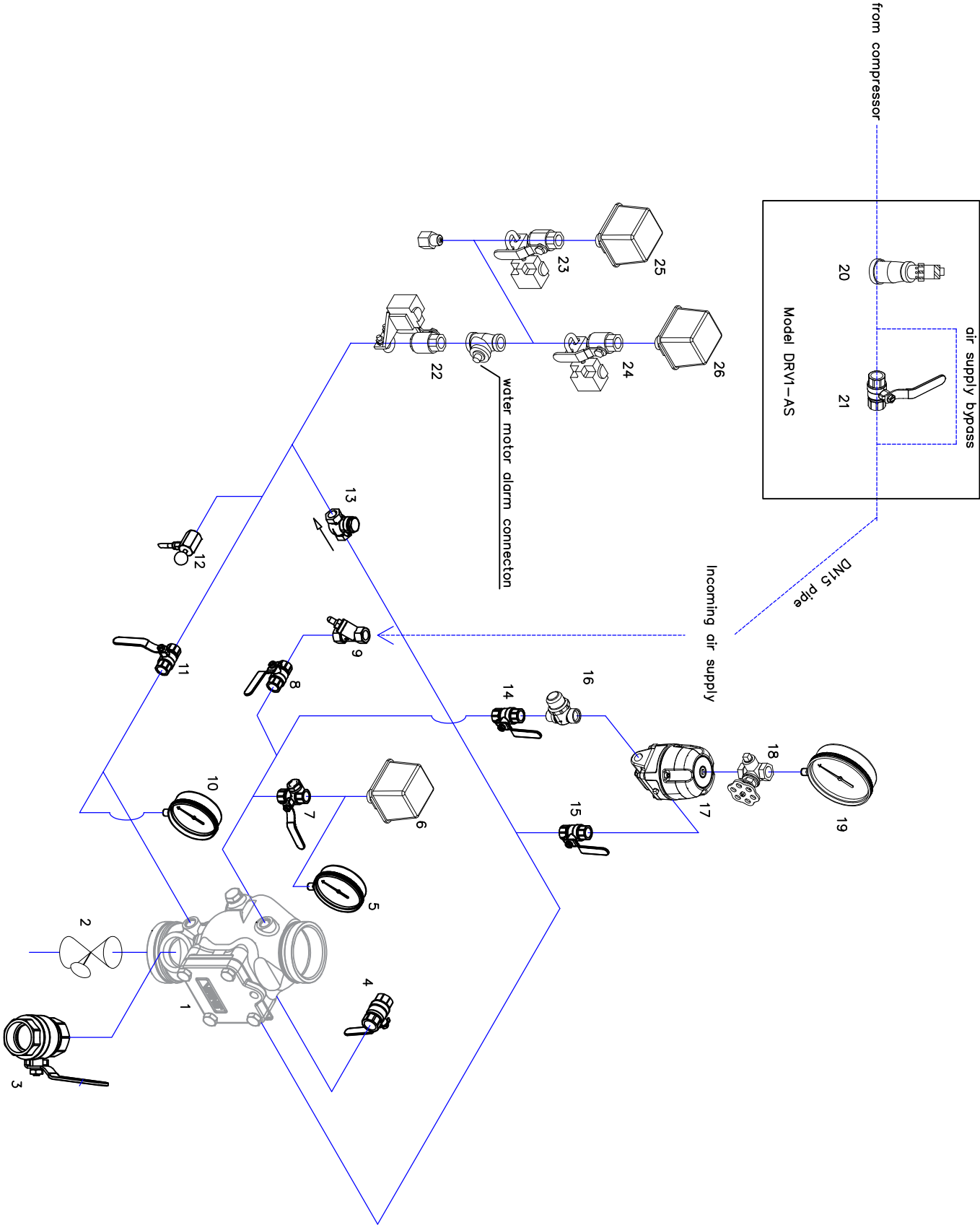
### Accelerator commissioning (see Operating Instructions chapter 7.3)

1. Commission the valve as described above
2. If following system activation then vent air from the accelerator using valve (18). After air is removed, carefully open the plug on the side of the accelerator housing and if water is detected remove, clean and dry the accelerator according to the manual. Replace the accelerator and plug (use sealant).
3. Close the vent valve (18)
4. Open the ball valve (14)
5. Wait until the pressure on gauge (19) matches the system air pressure (shown on (5) if used). Note: This process can take up to 10 minutes.
6. Open the ball valve (15)
7. The accelerator is ready

### Servicing and maintenance

For frequency and instruction on servicing refer to the operating instructions. A copy can be obtained from Viking - [www.viking-emea.com](http://www.viking-emea.com)

1	DRV1	10	Supply pressure gauge	20	Pressure relief valve
2	Control valve (n.o.)	11	Alarm test valve (n.c.)	21	Valve - bypass air filling (n.c) *
3	Main drain valve (n.c.)	12	Alarm line drain valve	22	Alarm shut off (n.o.)
4	System drain/vent (n.c.)	13	Intermediate chamber check valve	23, 24	Alarm pressure switch isolation (n.o.)
5	Air pressure gauge	14, 15	Accelerator isolation valves	25, 26	Alarm pressure switch
6	Air supervisory pressure switch	16	Strainer		
7	Valve with venting (n.o.)	17	D-2 Accelerator		
8	Air supply shut-off (n.o.)	18	Gauge vent valve		
9	Air supply check valve	19	Accelerator pressure gauge	*	For FM projects, use Model D-2



DRV-1 Instruction Plate - with Accelerator - Norwegian version		
Drawing No.:	Revision No.:	Date:
DRV1 - IP - 008	0	15.03.2021.