

➤ DryMASTER CheckValve

Keeps unwanted dripping under control

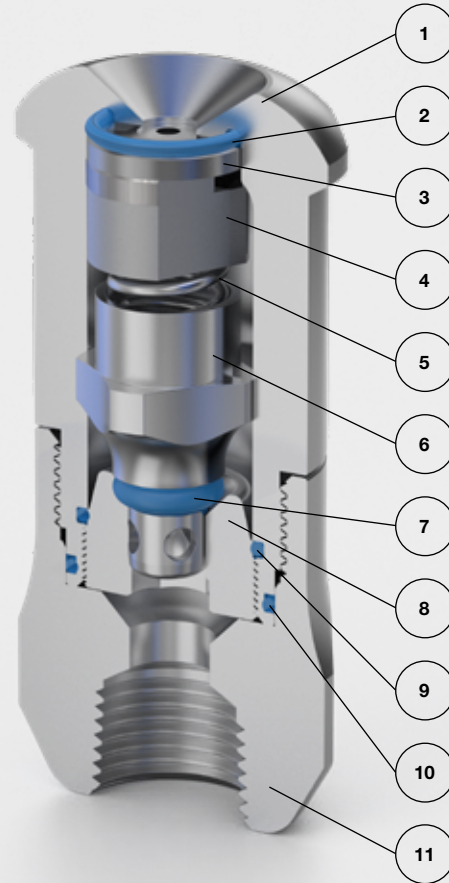
Dripping nozzles can hinder both process reliability and product quality. The DryMASTER CheckValve ensures that „off“ is really „off“. Lechler's DryMASTER CheckValve is designed to open at atomizing pressure, and shut off before the loss of atomization. It reliably prevents dripping due to latent line pressures and the resulting clumping in the end product. Furthermore, the check valve ensures that no flushing medium enters the cooling chamber or the fluid bed.

The compact and reliable DryMASTER CheckValve nozzles can be easily screwed into existing spray lances. Thanks to their sophisticated, hygienic design, they require very little maintenance and are very easy to clean.

Technical data:

- Over 900 orifice disc and swirl chamber combinations
- Flow range: 10–12,000 l/h
- Operating pressure: max. 465 bar at 20 °C (BP 1,000 bar, calculated)
- Operating temperature: max. 250 °C
- Spray angles: 50°–110° typical
- Droplet size: 30 µm to 220 µm typical

Additional configurations are available. Please contact the office for operating parameters outside of our published figures. Pressure and temperature charts available to download on our website.



Options



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Accessories



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No.	Component	Material All materials approved by FDA	Order No.	Variable	Description
1	DryMASTER CheckValve body	SS 316L	2DM.CV0.1Y.00.01.0		
2	O-ring for orifice disc	FDA FKM	095.015.79.12.22.0		Included in seal kit (item 14)
3	DryMASTER orifice disc Ø 0.40–5.60 mm	WNC carbide	2DM.xxx.27.00.00.0	xxx	In the order number xxx marks the diameter. It ranges from 0.40 to 5.60 mm in 0.05 mm increments. Example: an orifice disc with a diameter of 4.55 mm would be 2DM.455.27.00.00.0 Other sizes available on request
4	DryMASTER swirl chamber	WNC carbide	2DM.SCx.27.00.00.0	x	Swirl chamber size A to J for example, SCD
5	CheckValve spring	SS 302	095.013.15.06.90.0		
6	CheckValve seat body	SS 316L	2DM.CV0.1Y.00.03.0		
7	O-ring for CheckValve seat	FDA FKM	095.015.79.12.51.0		Included in seal kit (item 14)
8	DryMASTER CheckValve retainer	SS 316L	2DM.CV0.1Y.00.02.0		Threaded retainer to keep internal components positively retained
9	O-ring for CheckValve retainer	FDA FKM	095.015.79.12.57.0		Included in seal kit (item 14)
10	O-ring for CheckValve body	FDA FKM	095.015.79.12.23.0		Included in seal kit (item 14)
11	DryMASTER threaded adaptor	1/4" BSPT	SS 318LN	2DM.A00.B2.CD	For spray drying lances with threaded connection
		3/8" BSPT	SS 318LN	2DM.A00.B2.CF	
		1/2" BSPT	SS 318LN	2DM.A00.B2.CH	
		3/4" BSPT	SS 318LN	2DM.A00.B2.CL	
		1/4" NPT	SS 318LN	2DM.A00.B2.BD	
		3/8" NPT	SS 318LN	2DM.A00.B2.BF	
		1/2" NPT	SS 318LN	2DM.A00.B2.BH	
12	DryMASTER 45° butt weld adaptor	1/4" SCH.40	SS 318LN	2DM.A45.B2.W1.44.0	Adapter with 45°-angled welding inlet connection
		3/8" SCH.40	SS 318LN	2DM.A45.B2.W3.84.0	
		1/2" SCH.40	SS 318LN	2DM.A45.B2.W1.24.0	
		3/4" SCH.40	SS 318LN	2DM.A45.B2.W3.44.0	
		1/4" SCH.80	SS 318LN	2DM.A45.B2.W1.48.0	
		3/8" SCH.80	SS 318LN	2DM.A45.B2.W3.88.0	
		1/2" SCH.80	SS 318LN	2DM.A45.B2.W1.28.0	
13	DryMASTER butt weld adaptor	1/4" SCH.40	SS 318LN	2DM.A00.B2.W1.44.0	Adapter with butt weld inlet connection
		3/8" SCH.40	SS 318LN	2DM.A00.B2.W3.84.0	
		1/2" SCH.40	SS 318LN	2DM.A00.B2.W1.24.0	
		3/4" SCH.40	SS 318LN	2DM.A00.B2.W3.44.0	
		1/4" SCH.80	SS 318LN	2DM.A00.B2.W1.48.0	
		3/8" SCH.80	SS 318LN	2DM.A00.B2.W3.88.0	
		1/2" SCH.80	SS 318LN	2DM.A00.B2.W1.28.0	
14	DryMASTER CheckValve seal kit	FDA FKM	02D.MSP.79.00.01.0		Seal kit, including 100 O-rings for orifice disc and body (see 2 and 10), 20 pieces check valve seat O-ring (see 7), 20 pieces check valve retainer O-ring (see 8), food grade grease and disassembly tool