

'DOCK/ CHEMICALS

SEMICONDUCTORS DECISION

'BUBBLER

200

100
50

PACKAGING
& DELIVERY

8000ccm CYL.



Cr₁₇Ni₁₂Mo₃

Stainless Steel Bubbler Portfolio

'BUBBLER

MO-Bubbler series

'DOCK/ BUBBLER

PRODUCT DATASHEET

'DOCK/ BUBBLER

- **SUPERIOR QUALITY**
- **DIFFERENT TYPES**
- **VERSATILE IN USE**
- **CUSTOMIZATION POSSIBLE**

DIFFERENT TYPES

DOCK/CHEMICALS offers different types of bubblers serving the specific requirements of our clients. All of our bubblers feature diaphragm valves - several reputable manufacturers are qualified for DOCK/BUBBLERS. All bubbler are available with manual and pneumatic valves. Also special ALD valve setup and high temperature valves are available.

DOCK/10-SERIES

For standard high purity metalorganics DOCK/ offers its DOCK/10-series of cylinders. Those span from 150ml to 3950ml in volume and are suitable for all group-III, majority of group-V, dopant, ALD and CVD chemicals. The 10-series features dual valve configuration and the 20-series an additional purge valve for more efficient line purging. The 50- series features dual containment setup. Bubbler of this series do have a flat bottom and all types are internally electropolished. DOCK/HEATEXCHANGERS are available for selected dimensions of this series.

DOCK/100-SERIES

The DOCK/100-series is a higher quality containment especially designed for metalorganics which are available in EPIGRADE™ purity. For those bubblers not only the electropolishing procedure is carried out to a higher standard but uniquely the final orbital weld also gets electropolished leading this series to the ultimate of bubbler manufacturing technology. Also in this series a purge valve configuration in the 200er version is available for all sizes. The DOCK/100-series starts with 400ml in volume and goes up to 56l in size.

DOCK/HEATEXCHANGERS are available for selected dimensions of this series.

DOCK/500-SERIES

Special 5-valve configuration – two manual and three pneumatic valves for increased safety. The 500-series is otherwise manufactured to the same standard as the 100er series.

Your CUSTOMIZED DOCK/BUBBLER – If you are in need for a specific customized design, please contact us. We are pleased to discuss and offer all options.

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'BUBBLER



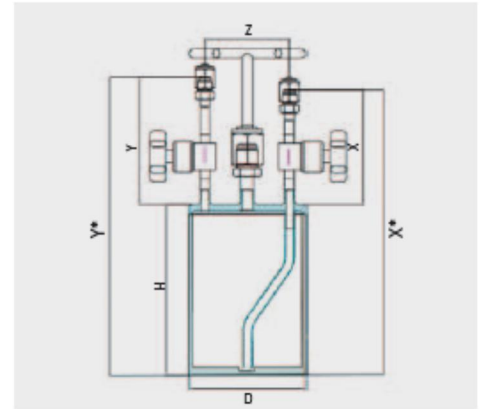
PRODUCT DATASHEET

www.dockchemicals.com

'DOCK/ BUBBLER

10 SERIES

- Standard Bubbler Quality
- EG – Electronic Grade Specified



BUBBLER DIMENSIONS & SPECIFICATION

Product Code	DOCK/ 10. 150	DOCK/ 10. 400	DOCK/ 10. 600	DOCK/ 10. 1000	DOCK/ 10. 3000	DOCK/ 10. 3950
Diameter D (mm)	51	76	76	102	152	152
Corpus Height H (mm)	108	108	168	168	194	249
Diptube X (mm)	127	127	127	127	127	127
Diptube overall height X* (mm)	235	235	295	295	321	376
Vapor Space Y (mm)	140	140	140	140	140	140
Vapor Space overall height Y* (mm)	248	248	308	308	334	389
Vapor/Diptube Z (mm)	83	83	83	83	83	83
Volume (ccm)	150	400	600	1000	3000	3950
Tare weight (appr.) (g)	700	1800	2000	2500	5900	7900
Connections	1/4" male VCR	1/4" male VCR	1/4" male VCR	1/4" male VCR	1/4" male VCR	1/4" male VCR
Handle	-	-	-	-	•	•
Heatexchanger option	-	-	-	-	•	•

Additional purge valve available in 20er-series.

QUALITY STANDARDS

- Stainless steel TP316L (Cr₁₇Ni₁₂Mo₃)
- Electropolished (Ra ≤ 0,80 μm)
- Orbital welded
- Diaphragm valves (pneumatic on request)
- Helium leak checked
< 4.5 x 10⁻⁹ mbar l/s
- Inspection port 1/2" VCR® male
- Refillable on request
- Flat bottom
- ALD valve setup optional
- Dual containment in 50er series
- Level, Temp, Pressure sensors

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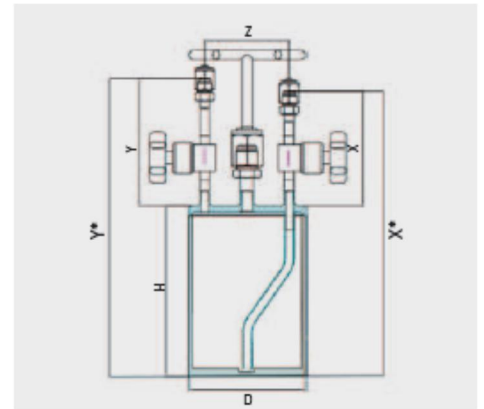
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'DOCK/ BUBBLER

100 SERIES

- Superior Bubbler Quality
- EPIGRADE™ Specified



BUBBLER DIMENSIONS & SPECIFICATION

Product Code	DOCK/ 100. 400	DOCK/ 100. 400.J	DOCK/ 100. 1300	DOCK/ 100. 3150	DOCK/ 100. 3200	DOCK/ 100. 8000	DOCK/ 100. 22000	DOCK/ 100. 56000
Diameter D (mm)	63	63	114	168	114	168	168	273
Corpus Height H (mm)	145	145	170	170	400	400	1070	1040
Diptube X (mm)	139	115	114	114	114	114	114	114
Diptube overall height X* (mm)	284	260	284	284	514	514	1184	1154
Vapor Space Y (mm)	152	115	127	127	127	127	127	127
Vapor Space overall height Y* (mm)	297	260	297	297	527	527	1197	1167
Vapor/Diptube Z (mm)	83	50	83	83	83	83	83	83
Volume (ccm)	400	400	1300	3150	3200	8000	22000	56000
Tare weight (appr.) (g)	1600	1600	3250	5200	5000	8850	17250	35000
Connections	1/2" male VCR	1/2" male VCR	1/4" male VCR	1/4" male VCR	1/4" male VCR	1/4" male VCR	1/4" male VCR	1/4" male VCR
Handle	-	-	•	•	•	•	•	•
Heatexchanger option	-	-	•	•	•	•	•	•

Additional purge valve available in 200er-series.

QUALITY STANDARDS

- Stainless steel TP316L [Cr₁₇Ni₁₂Mo₃]
- ULTRON® electropolished
HE 175 8VN spec. (Ra < 0,25 µm)
- Orbital welded GATW (TIG) spec.
- Helium leak checked
< 4.5 x 10⁻⁹ mbar l/s
- Refillable
- Inspection port 1/2" VCR® male
- Constant wall thickness and round shaped bottom for best thermal transfer (except Do.100.400 & Do.100.400.J)

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