

Automated Dispensing
How to Choose the Right Head

Dosing heads are suitable for dispensing a wide range of substances with varying particle characteristics: size, shape, surface texture, density and susceptibility to electrostatic charging. Use the table overleaf to choose the dosing head that matches your powder characteristics and target dose amount.

90% of all substances can be dosed using the standard dosing heads. The first three standard heads in the table meet most users’ needs and are typically selected according to the target dose amount.

For further advice and guidance, please do not hesitate to contact your local METTLER TOLEDO representative.





Keep Substances Contained
Simple and Safe Storage Solutions

To avoid cross-contamination, one powder dosing head is dedicated to one substance or lot number for the duration of its lifetime. The dosing head is simply attached to the storage vial and samples are identified safely via the built-in RFID chip.



The optional transport/storage boxes protect your dosing heads when not in use and ensure that valuable and toxic substances remain safe. The transport container is impact resistant and water tight for safe storage.

	Transportbox large	Transportbox small
		
Description*	Transport boxes with 125 ml storage vials. Set of 10	Transport boxes with 16 ml storage vials. Set of 10
Dosing Head	QH012	QH008
Part no	30036965	30139824

* For compatible dosing heads, please see the selection table

The Easy Way to Get Started

Our starter kit contains a selection of dosing heads for you to determine which heads best suit your different samples.

Starterkit (30132792): Set of 8 dosing heads

- 1 x QH008-BNMW
1 x QH008-BNMP
1 x QH012-LNLW
1 x QH012-LNLT
- 1 x QH002-CNMW
1 x QH012-LNCT
1 x QH010-CNMW
1 x QH012-LNJW

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For more information

METTLER TOLEDO Group
Laboratory Weighing
Local contact: www.mt.com/contacts

Subject to technical changes
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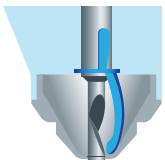
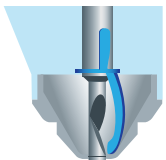
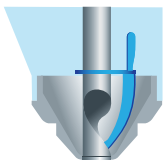
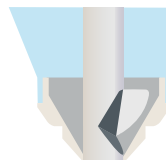
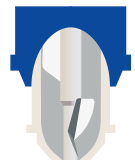


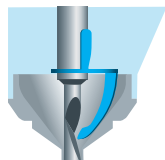
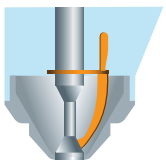
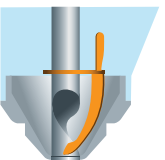
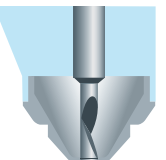
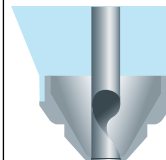
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Powder Dosing Heads
Selection Guide



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Dosing Heads Overview

Powder Characteristics		Standard Dosing Heads						Special Dosing Heads					
		 QH008-BNMW Ø2.5 mm dosing pin with pushing stirrer	 QH012-LNMW Ø2.5 mm dosing pin with pushing stirrer	 QH012-LNLW Ø4.0 mm dosing pin with pushing stirrer	 QH012-LNJW Ø6.5 mm dosing pin with fixed pad- dles stirrer	 QH002-CNMW Ø2.5 mm dosing pin with fixed pad- dles stirrer	 QH010-CNMW Ø2.5 mm dosing pin with fixed pad- dles stirrer	 QH008-BNMP Ø2.5 mm dosing pin with pushing stirrer Pinocchio 1mm nose	 QH012-LNMP Ø2.5 mm dosing pin with pushing stirrer Pinocchio 1mm nos	 QH012-LNCT Ø4.0 mm dosing pin with loosening stirrer	 QH012-LNLT Ø4.0 mm dosing pin with loosening stirrer	 QH012-LNMX Ø2.5 mm dosing pin	 QH012-LNLX Ø4 mm dosing pin
Flowability	Fast/free flowing	•	•	•	•	•	•	•	•			•	•
	Slow/poor flowing	•	•	•				•	•	•	•		
Target Dose	1 mg – 200 mg	•	•			•	•	•	•			•	
	200 mg – 1 g			•						•	•		•
	1 g – 5 g				•					•			
Particle Size	Large > 1 mm			•	⚠	⚠	⚠			•	•		•
	Medium ~1 mm	•	•	•				•	•	•	•	•	•
	Fine > 300 nm	•	•	•	•	•	•	•	•	•	•	•	•
Optical Characteristics	Very low density / fluffy / lyophilisates				•					•			
	Compacting / slightly sticky				⚠					•	•		
	High density	•	•		⚠							•	
	Electrostatically charged				•	•	•						
Product Specifications	Part no (Package quantity)	11141533 (10)	11141532 (10)	11150145 (10)	30366317 (10)	30083440 (30) 30098264 (90) 30244518 (500)	30132790 (10) 30132791 (40) 30046355 (150)	11150120 (10)	11150118 (10)	11150171 (10)	11150170 (10)	30112276 (10)	11150155 (10)
	Maximum capacity	8 ml	12 ml	12 ml	12 ml	2 mL (fill to maximal 2/3 capacity)	10 ml	8 ml	12 ml	12ml	12ml	12ml	12ml
	Food contact materials	•	•	•				•	•	•	•	•	•
	Thread size	18-400 thread	38-400 thread	38-400 thread	38-400 thread			18-400 thread	38-400 thread	38-400 thread	38-400 thread	38-400 thread	38-400 thread
	Minimum opening of target vial Ø (mm)	8	8	12	18	8	8	5	5	12	12	8	12
	Recommended doses	250	250	250	250	36	36	250	250	250	250	250	250
	Set of 10 transport boxes with 10 16 ml storage vials (30139824)	•						•					
	Set of 10 transport boxes with 10 125 ml storage vials (30036965)		•	•	•				•	•	•	•	•
	Material	POM, PMP, Stainless Steel	POM, PMP, Stainless Steel	POM, PMP, Stainless Steel	POM, PMP, PP	PP	PP	POM, PMP, Stainless Steel	POM, PMP, Stainless Steel	POM, PMP, Stainless Steel	POM, PMP, Stainless Steel	POM, PMP, Stainless Steel	POM, PMP, Stainless Steel

⚠ Not suitable for use with hard, compacting or sticky powders, or powders with large particle sizes.