

TECHNICAL DATA SHEET

CoE Dispenser & Beauty Mass Pumps

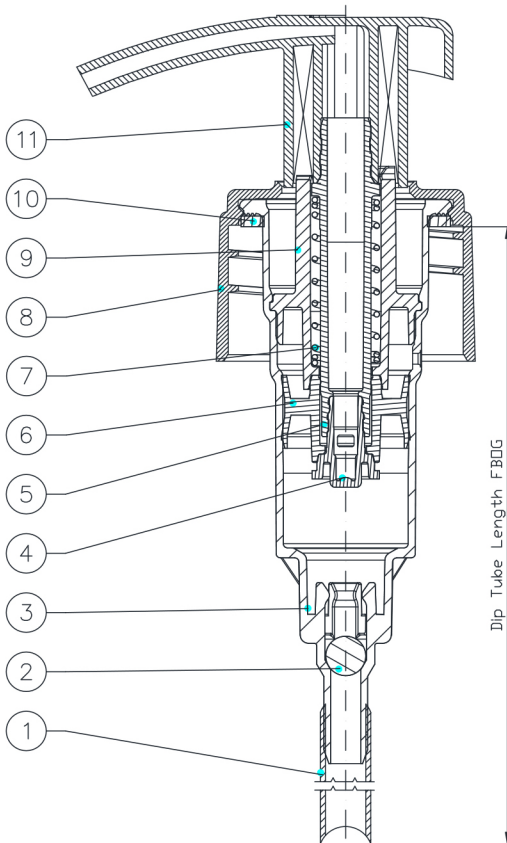
Doc. nr.: TDS002
Issue Date: 30-Ago-21
Revision: 5.

◆ = Characteristic changed in this revision

Item Description: GSA / GSSA / GSA HV / GSSA HV

Dimensions and materials

FEATURE	VALUE
Overall dimensions	According to the technical drawing of the specific pump configuration
Dip tube length FBOG (From Bottom Of Gasket)	Up to 149 mm $\pm 1,0$ from 150 to 250 mm $\pm 1,5$ over 250 mm $\pm 2,0$
Dip tube curvature	Up to 100mm FBOG $\pm 15^\circ$ from 101 to 250 mm $\pm 20^\circ$
Materials	According to the table of raw material of the specific pump configuration

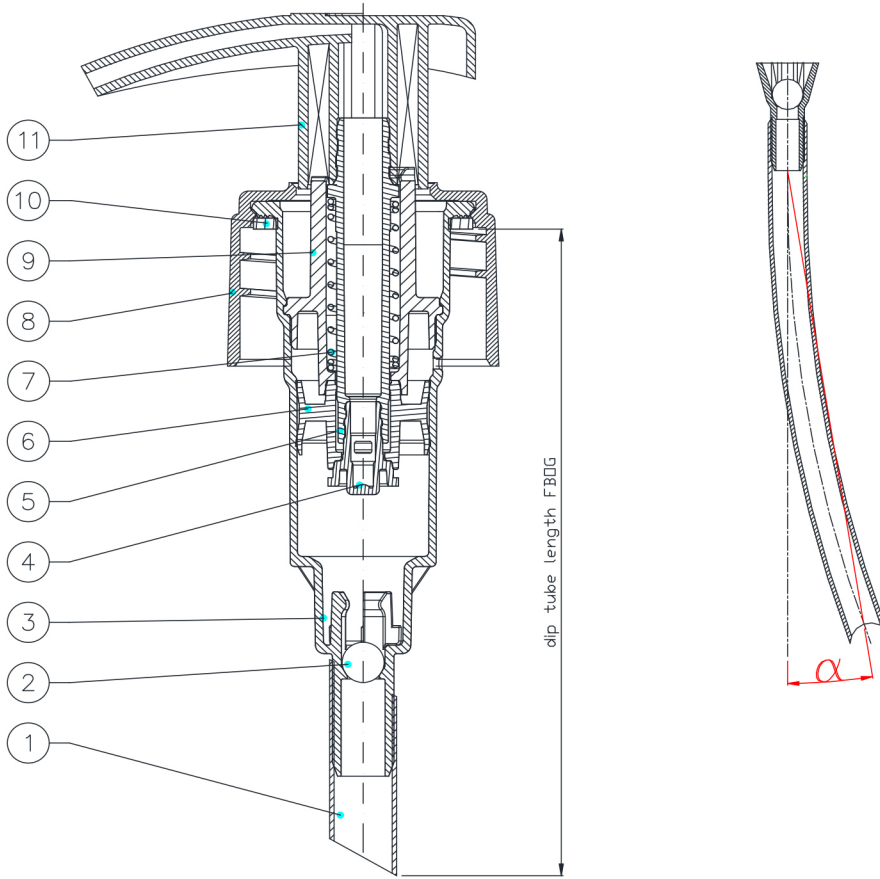


Ref.	COMPONENT
1	DIP TUBE
2	BALL
3	HOUSING
4	SEAL RETAINER
5	STEM
6	PISTON
7	SPRING
8	FIXTURE
9	RETAINER
10	EXTERNAL GASKET
11	ACTUATOR

GSA 1.2 cc / 2 cc

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GSA HV 2 cc

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Functional features

FEATURE	VALUE	TEST METHOD / CONDITIONS	
Number of strokes to prime	7 strokes MAX	60 ÷ 90 actuations per minutes Dip tube length 150 mm FBOG	
Dosage	0,8cc ± 10% 1,2cc ± 10% 2cc ±10%	60 ÷ 90 actuations per minutes Average of 10 consecutive strokes Dip tube length = 150 mm FBOG	
Vacuum sealing	no visible leakage on absorbent paper	Vacuum conditions: 5 min @ 200 mbar Pumps not primed, laid down on paper Test media: water	
Actuator pull off force	> 40N (> 20N for BIO resins) > 80N High retention actuators (> 40N for BIO resins)	Dynamometer speed: 250 mm/min	
Dip tube pull off force	> 10N	Dynamometer speed: 250 mm/min	
Max actuation load without product	< 28N < 35N for shower-proof version	Load measured at 80% of the total stroke	
Breakdown load (causing a permanent damage to the pump)	> 300N > 200 N (for actuator Vita)	Dynamometer speed: 250 mm/min	
Torque to Open	0,1 ÷ 0,5 N*m		
Max product viscosity	< 50000 cP (*)		
Actuator Vita lid open force	4 ÷ 14 N	Dynamometer speed: 250 mm/min	
Hinge durability of Vita Actuator	No breakage after 100 opening/closing cycles	Manually open the lid until it hits the bottle, then completely close the lid	◆

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Recommendations and Comments

The product is guaranteed to comply with the specification for a year period from the delivery date.

GENERAL RECOMMENDATION FOR HANDLING, STORAGE AND USE

Storage conditions	<i>Temperature 5 ÷ +40 °C</i> <i>Humidity 30 to 80% RH</i> <i>Sunlight exposure TO BE AVOIDED</i>		
Recommended closure application torque range	<i>1,13 ÷ 1,69 N*m for 24/...</i> <i>1,24 ÷ 1,92 N*m for 28/...</i> <i>2,1 ÷ 2,6 N*m for ratchet closure</i>	The reported values have to be considered as a general reference range. The optimal value has to be fixed according to actual bottle and to the torqueing process/device	
Recommended snapping force for GSSA (snap-on version)	250 ÷ 350 N	To be adapted according to the actual packaging resistance	
Max Top Load for storage / transportation	50N	For static load applied on the actuator axis	
Usage recommendations	Not for use in upside-down position		

NOTES

The reported functional features are supposed to be tested according to the protocols, which key points are recalled in the above table case by case. Please, contact our technical support for further details or in case the full protocols are needed.

Unless explicitly indicated, the test media is a neutral liquid representing the typical products used with this pump (e.g. glycerol). These specifications do not take into account any possible chemical compatibility issue with the customer formulations.

(*) The maximum product viscosity admitted is a very rough specification valid for shear-thinning products which viscosity is measured at low shear rates. The real performance has to be checked with the actual pump configuration.