

Marketing Communiqué

February 29, 2008
Marketing Communiqué F-1041
Frédéric Faye – Customer Service Coordinator

Re: The chemical compatibility of Gilson Pipette components

In an on-going effort to pass on our pipette knowledge and answer the growing demands of our network, this Marketing Communiqué will provide you with the main information about the chemical compatibility of the Pipetman family parts.

On the following pages appear the exploded views of each Gilson pipette with its components given a number from 1 – 13. These numbers correspond to the various types of materials used to manufacture these components.

To determine the chemical compatibility of a given component:

1. Select the appropriate product.
2. Identify the number which corresponds to the component part in question.
3. Locate the number along the top of the chemical compatibility chart.
4. Scan down the list of chemicals to determine if the component is resistant or not.

So easy, it's child's play!

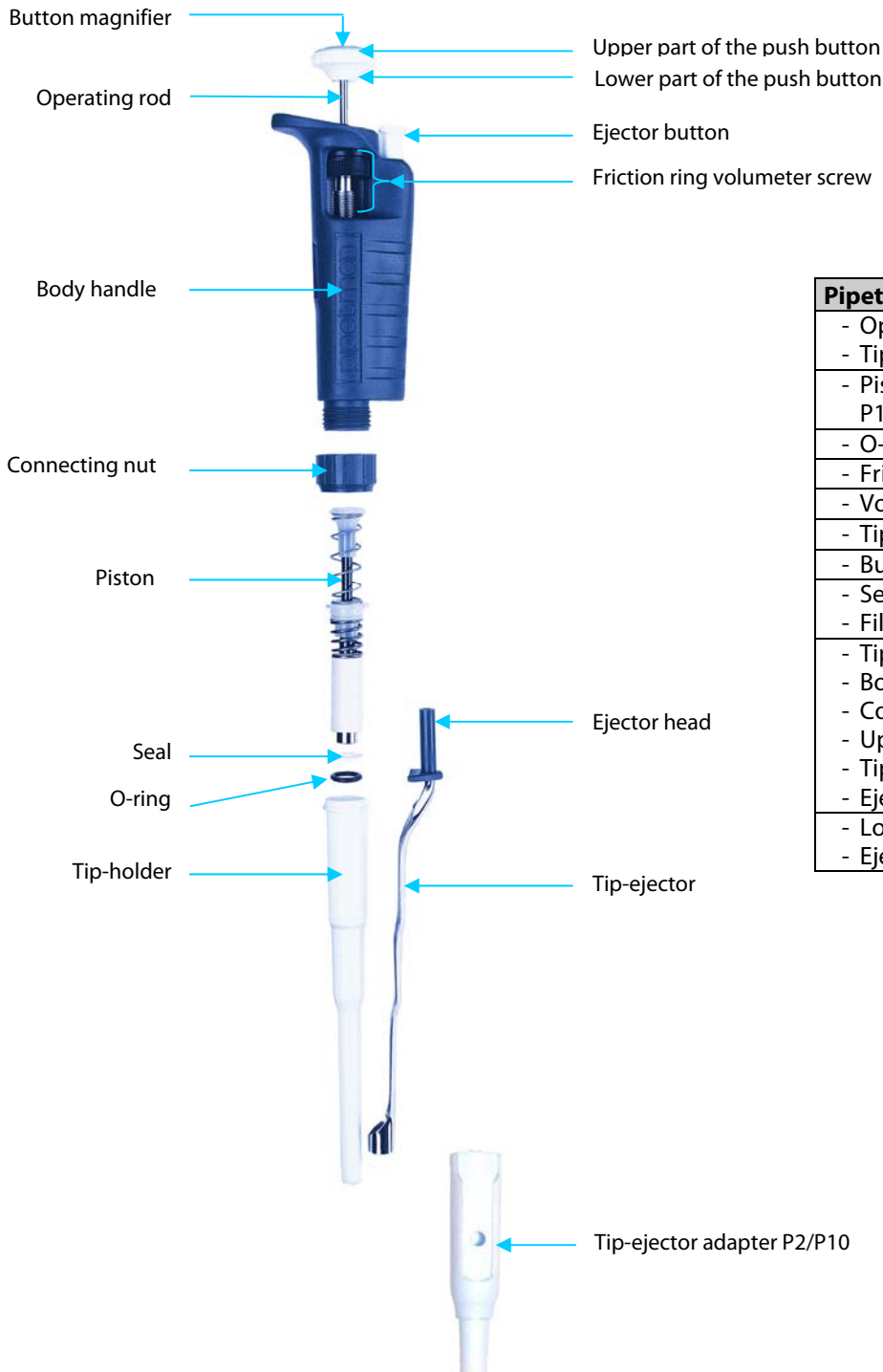
Materials

Chemical products		1	2	3	4	5	6	7	8	9	10	11	12	13
Acetamide		++	N/A	++	++	N/A	++	N/A	N/A	++	N/A	N/A	++	++
Ethyl acetate		++	+	-	++	++	++	++	++	++	++	+	N/A	++
Acetone		++	+	-	++	++	++	++	-	++	-	+	+	++
Acetonitrile		++	N/A	+	++	+	N/A	N/A	-	++	-	N/A	N/A	++
Acetic acid	20%	++	++	+	++	++	++	N/A	++	++	++	++	++	++
	50%	++	++	+	++	++	-	N/A	+	++	++	++	++	++
	100%	++	++	-	++	+	-	N/A	-	++	++	+	+	++
Hydrochloric acid	10%	-	++	++	++	++	-	++	++	++	++	++	++	++
	20%	-	+	+	++	++	-	+	++	++	++	++	+	++
	37%	-	-	-	++	++	-	-	+	++	++	++	-	++
Hydrofluoric acid	20%	+	+	-	++	+	-	+	++	++	++	++	+	++
	40%	-	+	-	++	-	-	-	+	++	++	++	+	++
Formic acid	100%	++	N/A	-	++	++	-	+	-	++	++	N/A	+	++
Nitric acid	10%	++	++	+	++	++	-	++	++	++	++	++	+	++
	30%	++	+	-	+	++	-	+	++	++	++	++	-	+
	65%	++	-	-	-	+	-	-	+	+	+	++	-	-
Phosphoric acid	20%	++	N/A	+	++	N/A	-	++	++	++	++	++	+	++
	85%	++	N/A	-	++	N/A	-	++	++	++	++	++	-	++
Propionic acid	50%	++	-	+	N/A	N/A	++	++	+	++	++	N/A	-	++
	100%	++	-	-	N/A	N/A	+	++	-	++	++	N/A	-	++
Sulfuric acid	20%	++	++	+	+	++	+	++	++	++	++	++	+	++
	50%	++	++	-	+	++	-	+	++	++	++	++	-	++
	95%	++	+	-	-	-	-	-	+	+	+	++	-	+
Trifluoroacetic acid	20%	++	N/A	-	N/A	N/A	+	N/A	++	++	++	N/A	++	++
	80%	++	N/A	-	N/A	N/A	-	N/A	+	++	++	N/A	+	++
	100%	++	N/A	-	N/A	N/A	-	N/A	-	++	++	N/A	-	++
Benzyl alcohol		++	++	-	N/A	N/A	+	N/A	-	++	++	++	-	++
Aniline		++	-	+	++	N/A	++	N/A	-	+	++	N/A	+	++
Butanol / Butyl alcohol		++	++	++	++	N/A	++	++	++	++	++	N/A	++	++
Chloroform		++	-	-	-	N/A	+	-	-	+	-	+	+	+
Cyclohexane		++	++	++	-	N/A	++	N/A	++	++	-	+	++	+
Diacetonol / diacetone alcohol		++	++	+	N/A	N/A	N/A	N/A	N/A	N/A	+	N/A	N/A	++
Dichloromethane / methylene chloride		++	+	-	-	N/A	-	-	-	+	++	++	++	+
Diethylene glycol		++	N/A	++	++	++	N/A	N/A	N/A	++	++	++	++	++
Dimethylformamide (DMF)		++	++	-	+	++	++	++	-	++	-	++	++	++
Dimethylsulfoxide (DMSO)		++	N/A	-	N/A	N/A	+	N/A	-	++	N/A	N/A	N/A	N/A
Dioxane (1,4)		++	++	-	+	N/A	++	++	-	++	+	N/A	++	+
Ethanol / ethyl alcohol		++	++	++	++	++	++	++	++	++	++	++	++	++
Petroleum ether		++	++	++	+	N/A	++	++	++	+	++	+	++	++
Formaldehyde		++	++	++	++	N/A	++	N/A	++	++	++	++	++	++
Hexane		++	N/A	++	-	+	++	++	++	+	++	+	++	++
Hydrogen peroxide	50%	++	N/A	+	++	N/A	++	++	++	++	++	++	++	++
Ammonium hydroxide	20%	++	++	++	++	N/A	N/A	+	-	++	N/A	++	++	++
Sodium hydroxide	10%	++	+	++	++	++	++	+	-	++	++	++	++	++
	40%	++	-	+	++	++	++	+	-	++	++	++	++	++
Sodium hypochlorite	15% Cl	+	N/A	+	++	++	++	++	++	++	++	++	-	+
Methanol / methyl alcohol		++	++	++	++	+	++	++	+	++	++	++	++	++
Methyl ethyl ketone		++	++	-	+	++	++	++	-	++	-	+	+	++
Pentane		++	N/A	++	-	N/A	N/A	N/A	++	++	++	+	++	N/A
Tetrahydrofuran (THF)		++	++	+	+	+	++	+	-	-	+	+		+
Urea		++	++	N/A	N/A	-	++	++	N/A	++	++	N/A	++	++

LEGEND:

- ++: No chemical degradation: Constant exposure causes no damage.
- +: Medium resistance to chemical agents: Some effects after 7 days of constant exposure to the reagent. Depending on the plastic, the effect may be crazing, cracking, loss of strength or discoloration. Solvents may cause softening, swelling and permeation losses.
- : Low resistance to chemical agents: Not recommended, immediate and severe effects.
- N/A: No data available.

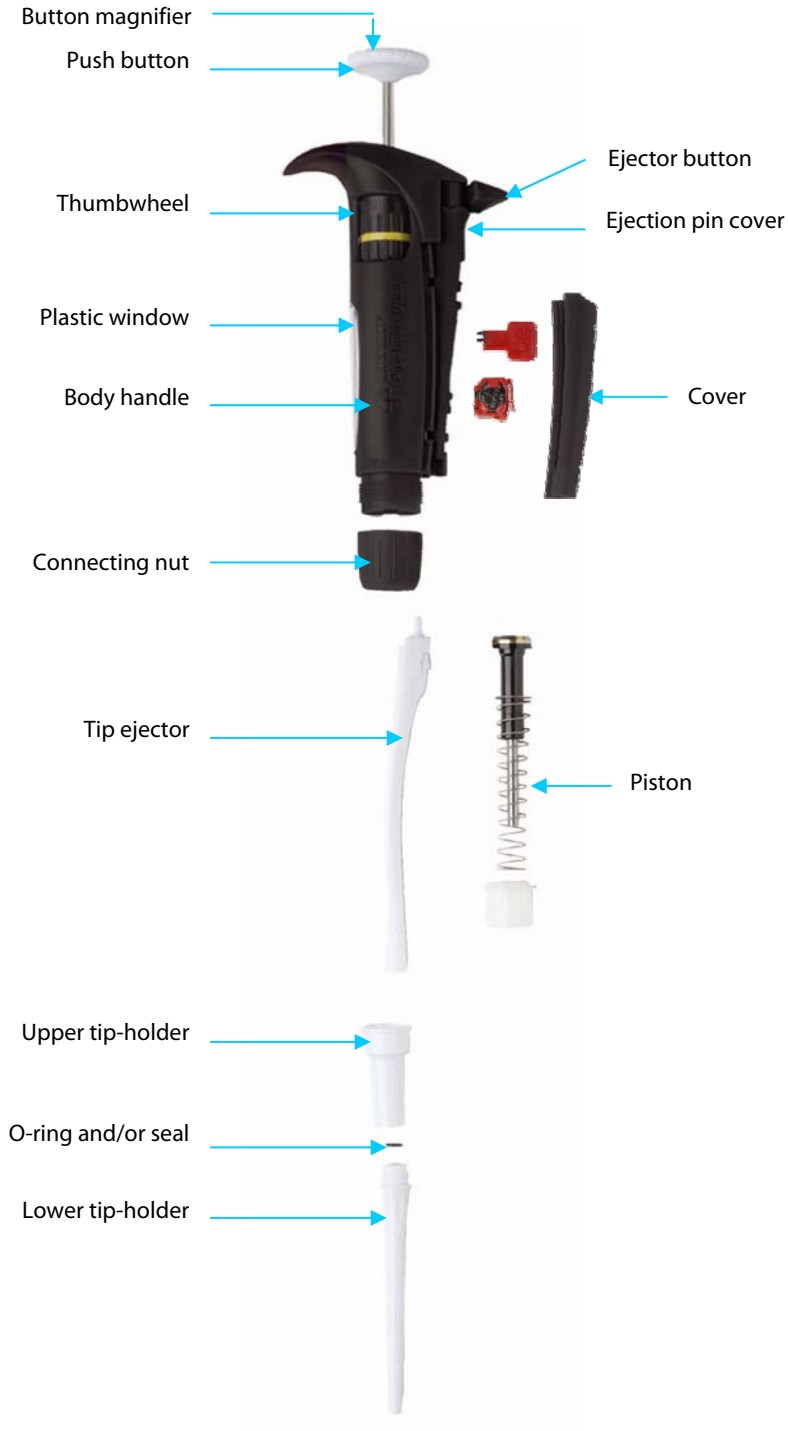
PIPETMAN® parts



Pipetman Classic parts	Materials
- Operating rod - Tip-Ejector	1
- Pistons P2, P10, P20, P100, P200, P1000, P5000, P10ml	1+2
- O-ring	3
- Friction ring	6
- Volumeter screw	1
- Tip Holder P20, P100, P5000, P10mL	7
- Button magnifier	8
- Seal, - Filter P5000, P10mL	9
- Tip Holder P2, P10, P200, P1000 - Body handle - Connecting nut - Upper part of the push button - Tip ejector adapter P2-P10 - Ejector head	10
- Lower part of the push button - Ejector button	12

Presentation non contractuel

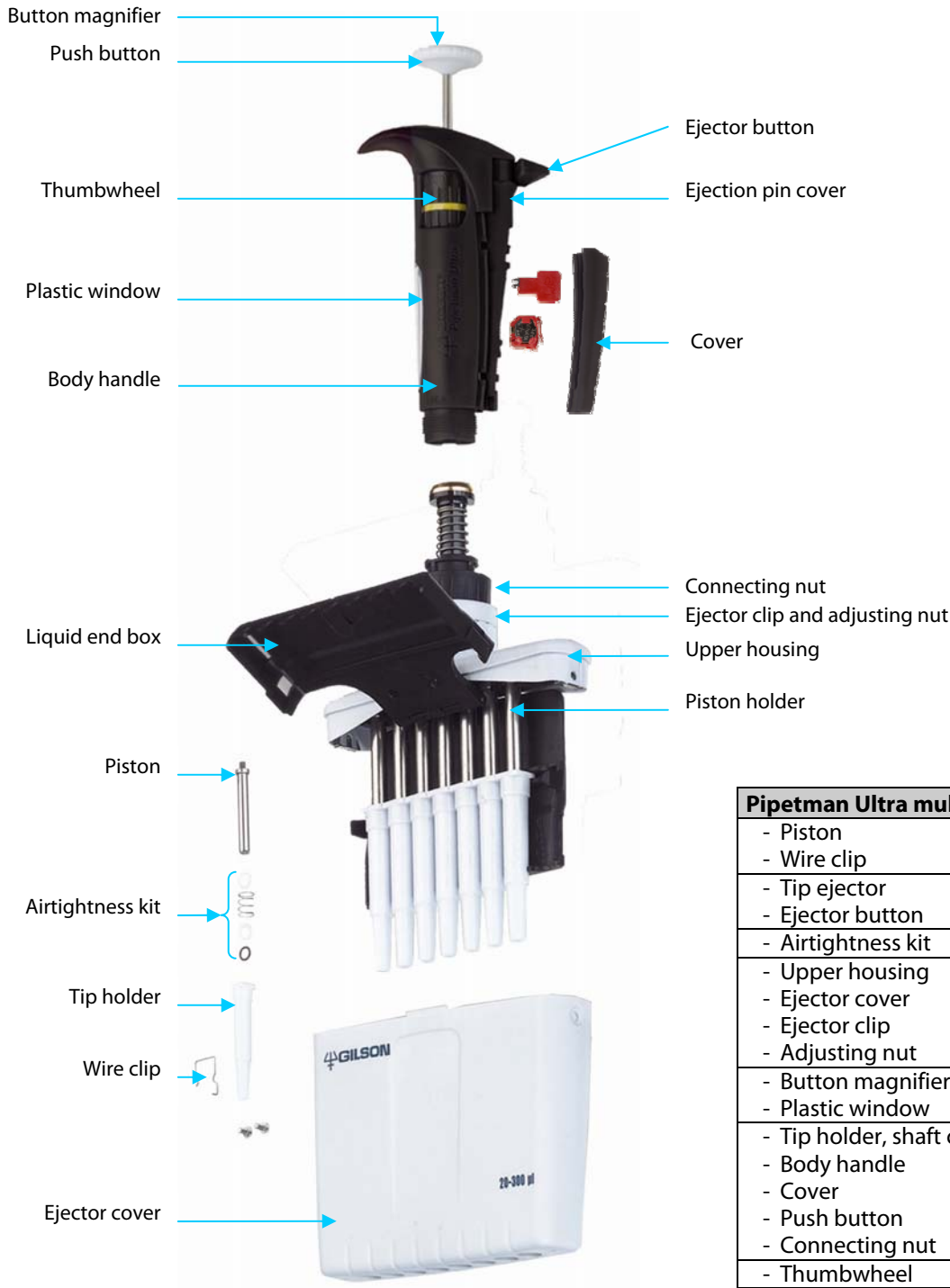
PIPETMAN® ULTRA single channel parts



Pipetman Ultra single channel parts	Materials
- Return spring	1
- Operating rod	1
- Piston U2, U10, U20, U100, U200, U1000, U5000, U10ml	1+2
- O-ring U20, U100, U200, U1000	3
- O-ring U5000, U10ml	4
- Ejector button for Ultra	6
- Tip ejector U5000, U10mL	7
- Tip Holder U5000, U10mL	7
- Button magnifier	8
- Plastic window	8
- Seal U2, U10, U20	9
- Tip holder U2, U10, U20, U100, U200, U1000	10
- Body handle	10
- Cover	10
- Push button	10
- Connecting nut	10
- Tip Ejector U2, U10, U20, U100, U200, U1000	10
- Ejection pin cover	12
- Thumbwheel	12

Presentation non contractuel

PIPETMAN® ULTRA multichannel parts



Pipetman Ultra multichannel parts	Materials
- Piston	1
- Wire clip	
- Tip ejector	6
- Ejector button	
- Airtightness kit	1+3
- Upper housing	7
- Ejector cover	
- Ejector clip	
- Adjusting nut	
- Button magnifier	8
- Plastic window	
- Tip holder, shaft coupling	10
- Body handle	
- Cover	
- Push button	
- Connecting nut	
- Thumbwheel	12
- Liquid end box	6
- Piston holder	

Presentation non contractuel

PIPETMAN® CONCEPT single channel parts



Push Button

Ejector button

Body Handle

Plastic window

Connecting nut



Tip ejector



Piston



Upper tip-holder



O-ring and/or seal



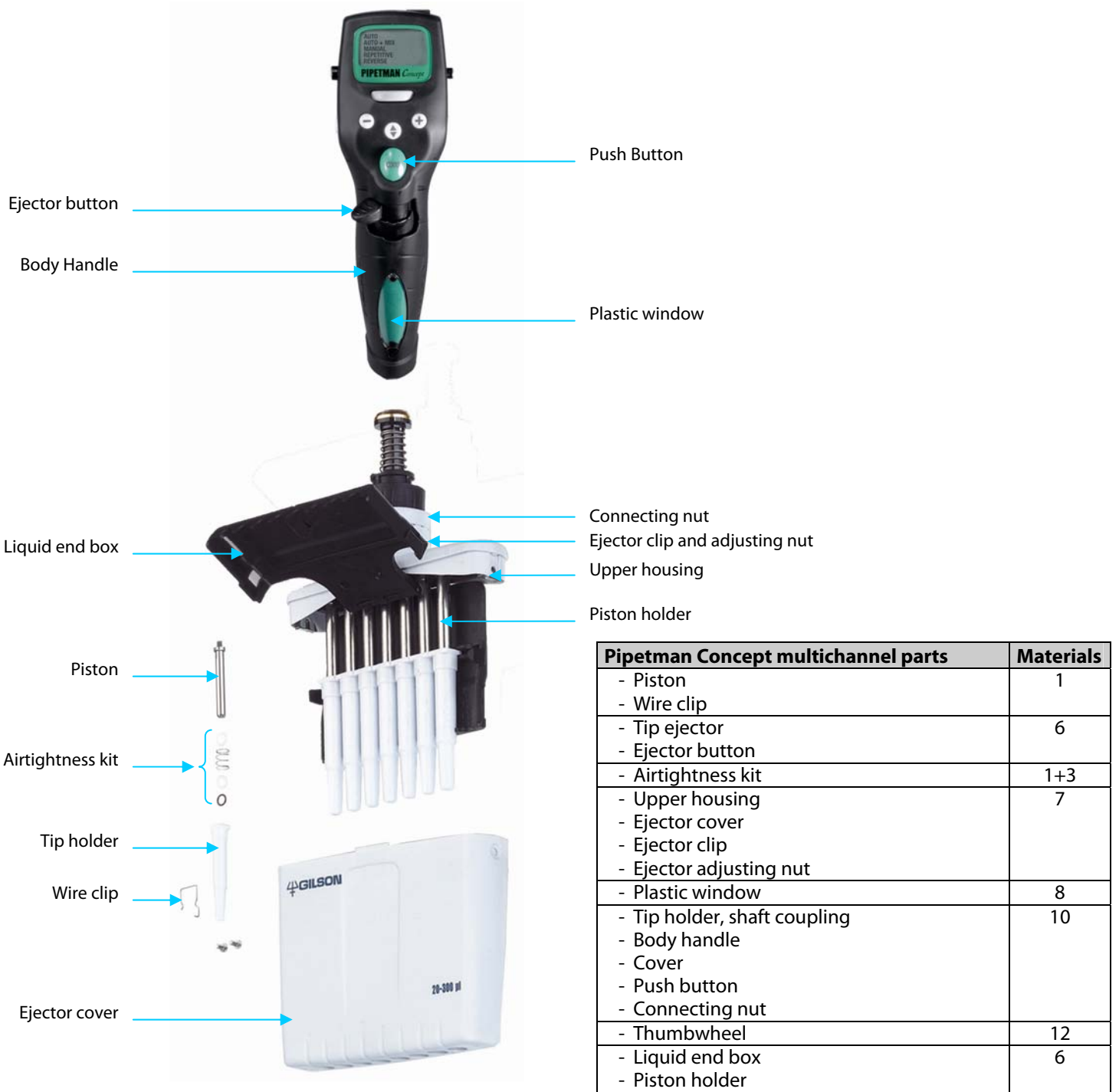
Lower tip-holder



Pipetman Concept single channel parts	Materials
- Return spring	1
- Operating rod	1
- Piston C2, C10, C20, C100, C200, C1000, C5000, C10ml	1+2
- O-ring C20, C100, C200, C1000	3
- O-ring C5000, C10ml	4
- Ejector button	6
- Tip ejector C5000, C10mL	6
- Tip Holder C5000, C10mL	7
- Plastic window	8
- Seal C2, C10, C20	9
- Tip holder C2, C10, C20, C100, C200, C1000	10
- Body handle	10
- Cover	10
- Push button	10
- Connecting nut	10
- Tip Ejector C2, C10, C20, C100, C200, C1000	10
- Ejection pin cover	12
- Thumbwheel	12

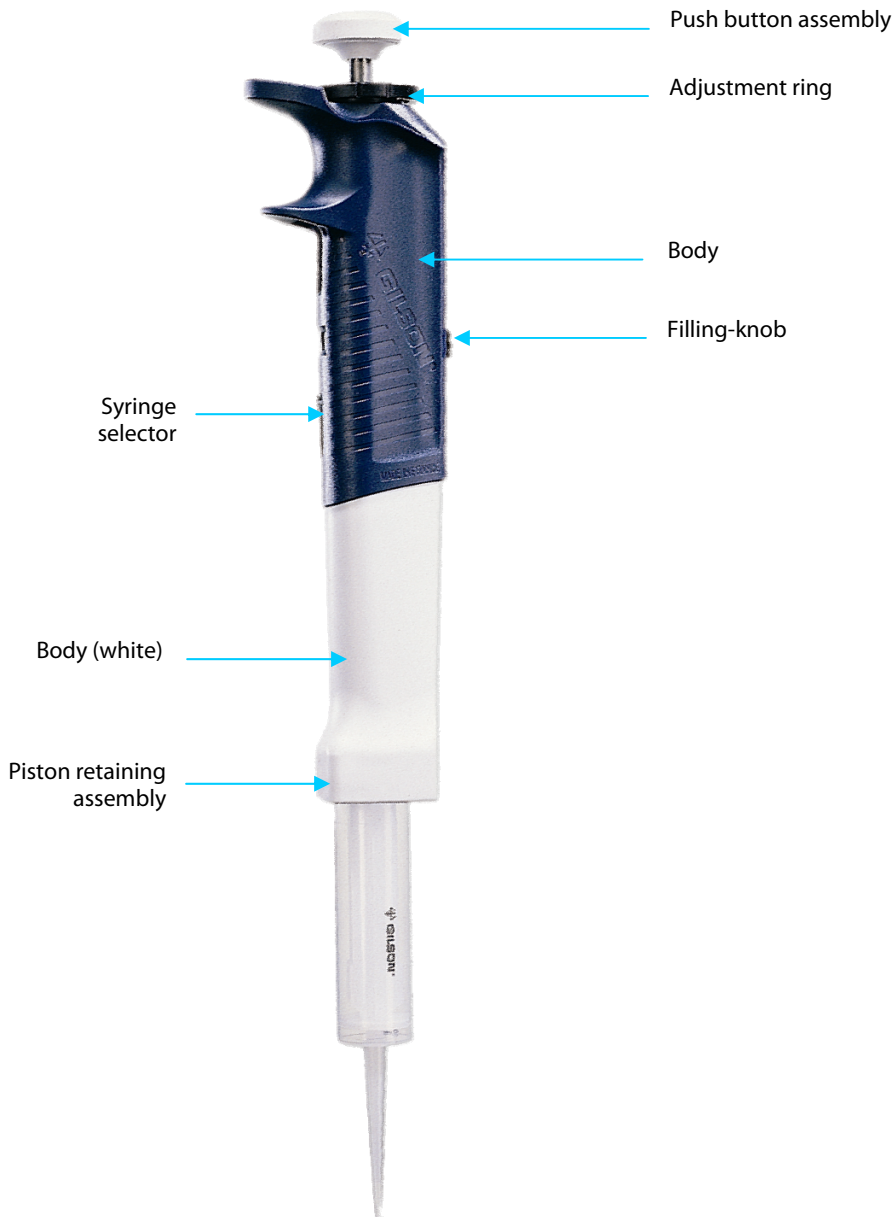
Presentation non contractuel

PIPETMAN® CONCEPT multichannel parts



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DISTRIMAN® parts



Distriman parts	Materials
- Piston retaining assembly	1
- Syringe selector	8
- Adjustment ring	12
- Filling-knob	
- Push button assembly	
- Body (blue)	
- Retaining spring	
- Body (white)	10

Presentation non contractuel

MICROMAN® parts



Microman Parts	Materials
- Capillary holder M10, M100	7
- Button Magnifier	8
- Capillary holder M25, M50, M250, M1000	10
- Upper part of the push button	
- Body handle	
- Locking cap	
- Lower part of the push button	12
- Operating rod	1
- Return spring	
- Clamp assembly	

Presentation non contractuel

Your contact



Should you have any questions regarding this Technical Bulletin, please contact:
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