

Consumables and Spare Parts 2015

Mercury Intrusion Porosimetry



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Our prices exclude VAT and any taxes payable.  
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# Dilatometers

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## **Dilatometer CD 3**

Sample volume for sample ca. 15cm<sup>3</sup>

Dilatometer for solids > 3mmØ

Max. pore volume 500mm<sup>3</sup>

For porosimeter Pascal 140, 240, 440, MA120, 2000, 2000WS, 4000

Code No.: 27301100



## **Dilatometer CD 3P**

Sample Volume ca. 15cm<sup>3</sup>

Dilatometer for powder particles < 3mmØ

Max. pore volume 500mm<sup>3</sup>

For porosimeter Pascal 140, 240, 440, MA120, 2000, 2000WS, 4000

Code No.:27301200



## **Dilatometer Type CD 6**

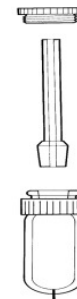
Sample volume ca. 35cm<sup>3</sup>

Dilatometer for solids > 6mmØ

Max. pore volume 2000mm<sup>3</sup>

For porosimeter Pascal 140, 240, MA120, 2000WS

Code No.: 27301300



## **Dilatometer Type CD 6 P**

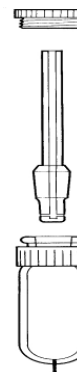
Sample volume ca. 35cm<sup>3</sup>

Dilatometer for powder particles < 6mmØ

Max. pore volume 2000mm<sup>3</sup>

For porosimeter Pascal 140, 240, MA120, 2000WS

Code No.: 27301400



## **Dilatometer small Volume**

Sample volume ca. 8cm<sup>3</sup>

Dilatometer for solids > 3mmØ

Max. pore volume 500mm<sup>3</sup>

Labelled, with integrated capillary opener

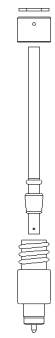
For Porosimeter Pascal 140, 240, 440, MA120, 2000, 2000WS, 4000

Code No.: 27320100



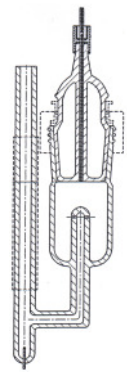
**Dilatometer small Volume P**

Sample volume ca. 8cm<sup>3</sup>  
dilatometer for powder particles < 3mmØ  
Max. pore volume 500mm<sup>3</sup>  
Labelled, with integrated capillary opener  
For porosimeter Pascal 140, 240, 440, MA120, 2000, 2000WS, 4000  
Code No.: 27320200



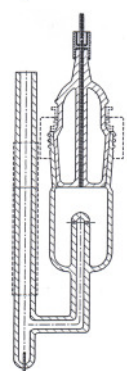
**Dilatometer-Ultramacropore-S-CD6**

Volume ca. 35cm<sup>3</sup>  
Special dilatometer for large pores and particles (25x25m)  
max. sample volume: 2000mm<sup>3</sup>  
For porosimeter MA120  
Code No.: 27301410



**Dilatometer-Ultramacropore-PASCAL**

Volume ca. 35cm<sup>3</sup>  
Special dilatometer for large pores and particles  
max. sample volume: 2000mm<sup>3</sup>  
For porosimeter Pascal 140  
Code No.: 27301601



# Spare Parts and Consumables

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## **Joint-Grease-KWS**

Special joint-grease for greasing the glass cone of all types of dilatometer

Can of 30 ml

Code No.: PD003704



## **Dilatometer - Opener Ø3mm**

Opener for the glass cone of all dilatometers with an inside capillary diameter of 3mm

For dilatometer type CD3, CD3P

Code No.: 31108008



## **Dilatometer - Opener Ø6mm**

Opener for the glass cone of all dilatometers with an inside capillary diameter of 6mm

For dilatometer type CD6, CD6P

Code No.: 31108006



## **O-Ring 000 for Opener**

Set of 2 Neoprene 90 SH O-Rings for Dilatometer/opener Ø3mm

Code No.: 29010200

## **O-Ring 2010 for Opener**

Set of 10 Silicon O-Rings for Dilatometer/opener Ø6mm

Code No.: 29030602

## **Digital Thermometer**

Digital Thermometer for an accurate determination of the temperature of the mercury

Code No.: PD003875

### **Calibration-Kit**

Calibration-kit (for all porosimeters useable) consisting of four proved volume calibration cuvettes. Tools to apply perfectly the joint grease.

Dilatometer - opener Ø3mm, dilatometer - opener Ø6mm and 30ml joint grease

Code No.: 19006251



### **Low-Pressure-Membrane**

Membrane to close calibration-volume

Only for Porosimeter Pascal 140

Package of: 10 Pieces.

Code No.: 28123050

### **High-Pressure-Membrane**

Membrane to close calibration-volume

For all high-pressure porosimeters

Package of: 10 Pieces.

Code No.: 28123055

### **Safety Tub for Porosimeter**

Stainless-Steel dyke (ca.550 x 600 x 50mm) for PASCAL 140, 240, 440

Code No.: PD003960

### **Laboratory Tub**

For safe work with mercury and storage of accessories.

Plastic tub solvent resistant, Dimension (400 x 500 x 80mm)

Code No.: PD003950

### **Dielectric-Oil for High-Pressure**

High-pressure oil

For porosimeters 240, 440, Model 2000, 2000WS, 4000

Content: 1l

Code No.: 30802900

### **Rapid-Cleaner**

To clean dilatometers. Perfect for removal of grease, oil and mercury (dilution ca. 1 : 40)

Content: 500ml

Code No.: PD003830



### ***Mercury – Siphon***

To separate sample particles from mercury and filtration

Code-No.: PD003750



### ***Mercury-Devil***

To absorb spilled small mercury drops  
incl. Collection-Cup

Code No.: PD003840



### ***Mercury-Pliers***

To pick up larger mercury droplets

Code No.: PD003870



### ***Iodine-Carbon Absorbent***

Absorbent of mercury-vapour, Iodine of 5%.

Package of: 250g

Code No.: PD003880

### ***Mercury-Emergency Kit***

Fast absorber (Mercurisorb Roth®) plus complete consumables for safe disposal of mercury

Code No.: PD003890



### ***Mercury***

Mercury for all porosimeters, purity 99,9995%  
package: 1 kg

Code No.: PD003862

### ***Containment Vessel for Mercury***

Containment vessel – storage container (250 ml) for mercury

Code No.: 24014544

### ***Flexible Tube for Peristaltic Pump***

For Pascal 140

2 pieces.

Code No.: 39106200

***Tube-Set for Pascal 140***

Complete tube-set for porosimeter Pascal 140

Code No.: PD003900

***Tube-Set for Pascal 240/440***

Complete tube-set for porosimeter Pascal 240/440

Code No.: PD003910

***Container for Mercury Contaminated Residues and Samples***

Container for collecting used Mercury and samples

Volume 6,4l

Code No.: PD003940

***Syringe-Set for Dilatometer***

Syringe with extra large drain (70mm)

To fill and empty capillaries

Package of 5 Pieces.

Code No.: PD003930

***Outlet Filter for Pump***

Oil vapour filter incl. adsorption trap (complete.)

Code No.: 28113400

***Replacement Cartridge for Oil Vapour Filter***

Outlet filter for pump

Code No.: 28113510


***Exchange Cartridge for Adsorption Trap***

Outlet Filter for Pump

Code No.: 28113505



# O-Rings

				
<b>Article Description/ Code-No.:</b>	<b>Line Ø d2</b>	<b>Inside Ø d1</b>	<b>Material</b>	<b>Quantities</b>
<b>O-Ring 2087</b> For autoclaves of models Pascal 440, 2000, 4000 <b>Code-No.: 29030020</b>	1,78mm	21,95mm	Neoprene75 SH	10
<b>O-Ring 2087XL</b> For autoclaves of models Pascal 440, 2000, 4000 <b>Code-No.: 29031220XL</b>			Neoprene 75 SH	10
<b>O-Ring 3150</b> For autoclave models 2000WS und Pascal 240 <b>Code-No.: 29030059</b>	2,62mm	37,77mm	Neoprene 75 SH	10
<b>O-Ring 3068</b> Seal for electrode holder of model WS / 2000 / PAS 240 / PAS 440 <b>Code-No.: 29030040</b>	2,62mm	17,13mm	Neoprene 75 SH	10
<b>O-Ring 000</b> O-Ring for dilatometer/opener Ø 3mm <b>Code-No.: 29010200</b>	9,75mm	1,00mm	Neoprene 90 SH	2
<b>O-Ring 2010</b> O-Ring for dilatometer/opener Ø 6mm <b>Code-No.: 29030602</b>	1.78mm	2.57mm	Silicon	10
<b>Flat-Seal 16,5 x 5 x 3 mm</b> To seal the capillaries in Pascal 140, Macropore 120 and dilatometer filling device <b>Code-No.: 29033031</b>	16.5mm	5mm	Silicon	2
<b>Complete Sealing Set for Autoclave Head</b> Set of O-Rings; 2 Back-Up-Rings <b>Code-No.: 19006095</b>				1
<b>Center Ring for Electrode</b> Supporting ring for centering the electrode CD3 und CD6 <b>Code No.: 29002796</b>			Neoprene	2

# Certificated Reference Materials

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## **PM-120 CRM ( $\alpha$ -Al<sub>2</sub>O<sub>3</sub>)**

Specified pore volume at 200MPa 546,8 mm<sup>3</sup>/g ± 12,2 mm<sup>3</sup>/g  
Average pore diameter (median) (D<sub>50</sub>) 228,0 nm ± 5,9 nm  
Package of 15g

Code No.: PD003510

## **PM-121 CRM (Porous Glass Beads I)**

Specified pore volume at 200MPa 621,9 mm<sup>3</sup>/g ± 12,9 mm<sup>3</sup>/g  
Average pore diameter (median) (D<sub>50</sub>) 15,1 nm ± 0,2 nm  
Package of 12g

Code No.: PD003520

## **PM-122 CRM (Porous Glass Beads II)**

Specified pore volume at 200MPa 922,6 mm<sup>3</sup>/g ± 17,5 mm<sup>3</sup>/g  
Average pore diameter (D<sub>50</sub>) 139,0 nm ± 3,7 nm  
Package of 10g

Code No.: PD003530

## **PM-123 CRM (Filter Tubes)**

Specified pore volume at 1,4 MPa 99,52 mm<sup>3</sup>/g ± 3,44 mm<sup>3</sup>/g  
Average pore diameter (D<sub>50</sub>) 3052 nm ± 153 nm  
Package of 6 pieces

Code No.: PD003540

## Request for an offer of spare parts

Please send requests for spare parts via e-mail (shop@porotec.de) or fax (+49 6192 2969035).

Please don't hesitate to contact us with further questions.

### Customer

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Company

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E-Mail

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Telephone number

Product	Code No.	Quantity