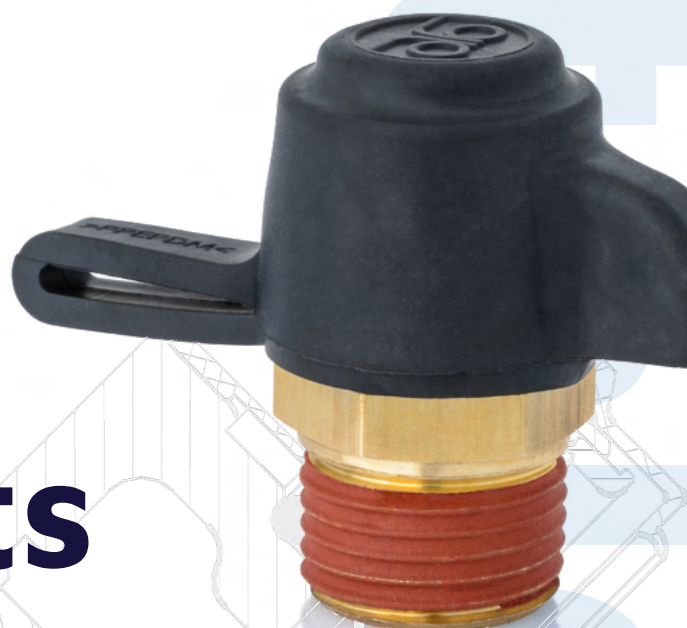


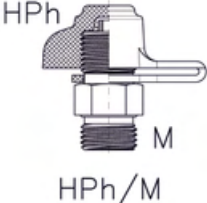
**MB
GROUP**

Test Points



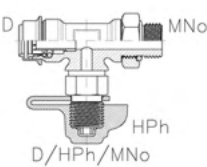
TEST POINTS

A valve that allows for the safe connection of diagnostic equipment such as a pressure gauge.

	NOTATION	HPh	M	
	HPhM16/M12	M16x1,5	M12x1,5	
	HPhM16/M16	M16x1,5	M16x1,5	
	HPhM16/M22	M16x1,5	M22x1,5	

HPh – connection fitting for test equipment (Test Point)

M – metric external thread, male, with O-ring seal

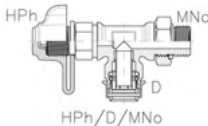
	NOTATION	D	HPh	M	
	8/HPhM16/M12	8x1	M16x1,5	M12x1,5	
	8/HPhM16/M16	8x1	M16x1,5	M16x1,5	
	8/HPhM16/M22	8x1	M16x1,5	M22x1,5	
	10/HPhM16/M22	10x1	M16x1,5	M22x1,5	
	12/HPhM16/M16	12x1,5	M16x1,5	M16x1,5	
	12/HPhM16/M22	12x1,5	M16x1,5	M22x1,5	

D – plug-in fitting for plastic tubing (polyamide tube)

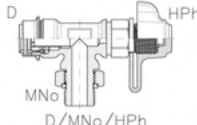
HPh – connection fitting for test equipment (Test Point)

M – metric external thread, male, with O-ring seal

TEST POINTS

	NOTATION	HPh	D	M	
	HPhM16/8/M16	HPhM16	8x1	M16x1,5	
	HPhM16/8/M22	HPhM16	8x1	M22x1,5	
	HPhM16/10/M16	HPhM16	10x1	M16x1,5	
	HPhM16/10x1,25/M16	HPhM16	10x1,25	M16x1,5	
	HPhM16/10x1, 5/M16	HPhM16	10x1,5	M16x1,5	
	HPhM16/12/M16	HPhM16	12x1,5	M16x1,5	
	HPhM16/12/M18	HPhM16	12x1,5	M18x1,5	
	HPhM16/12/M22	HPhM16	12x1,5	M22x1,5	
	HPhM16/15/M16	HPhM16	15x1,5	M16x1,5	
	HPhM16/15/M22	HPhM16	15x1,5	M22x1,5	

D – plug-in fitting for plastic tubing (polyamide tube)
HPh – connection fitting for test equipment (Test Point)
M – metric external thread, male, with O-ring seal

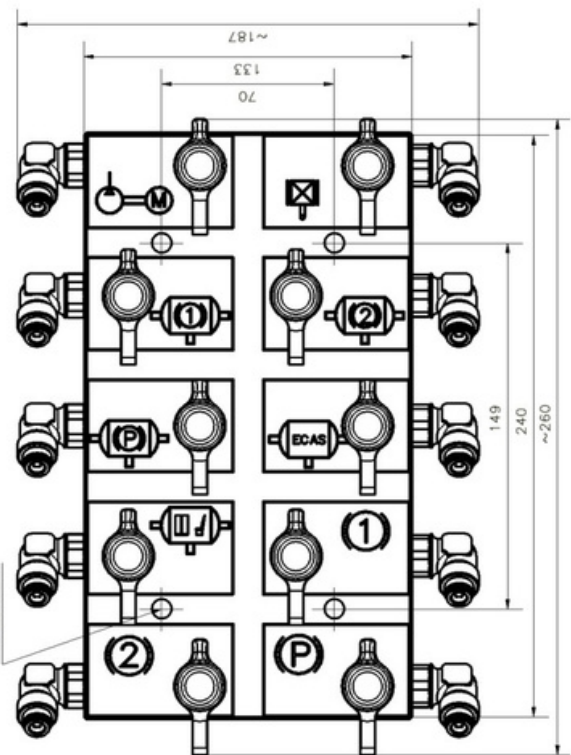
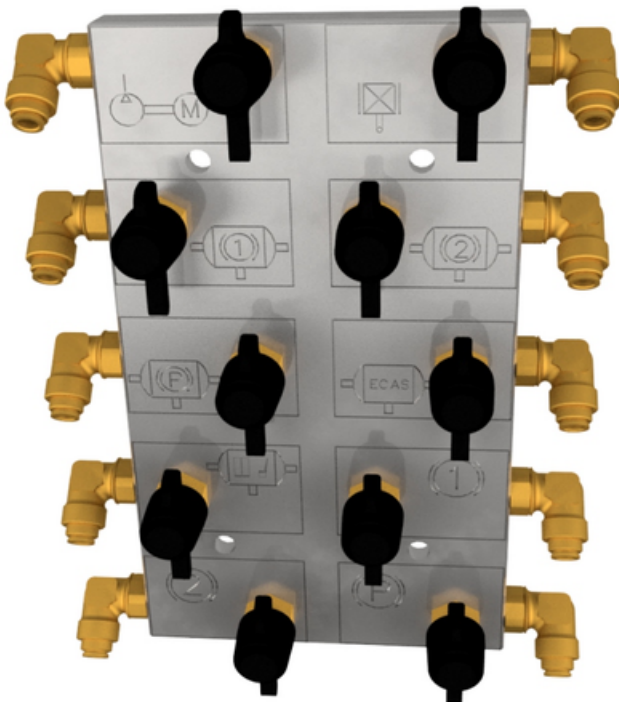
	NOTATION	D	M	HPh	
	HPhM16/M16/8	8x1	M16x1,5	M16x1,5	
	HPhM16/M22/8	8x1	M22x1,5	M16x1,5	
	HPhM16/M22/12	12x1,5	M22x1,5	M16x1,5	
	HPhM16/M22/15	15x1,5	M22x1,5	M16x1,5	

D – plug-in fitting for plastic tubing (polyamide tube)
M – metric external thread, male, with O-ring seal
HPh – connection fitting for test equipment (Test Point)

YOUR NOTES

TEST POINT BLOCKS

A block containing test points, often with pictograms that facilitate the identification of the element or line they concern.



ENGINEERING GUIDE

Assembly & Disassembly Guide

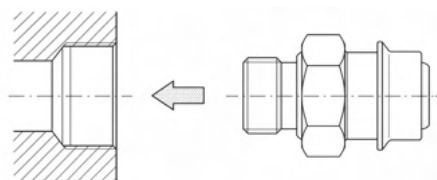
Our development and QA capability is housed entirely within our Sulechów (Poland) facility. Zero external dependence means direct engineering control and a market-leading 7-day concept-to-prototype development cycle.

PTC FITTINGS: ASSEMBLY

1

Screw the fitting into the socket.

Before you begin, ensure that both the fitting and the socket are completely free of any dirt or debris. Once they are clean, carefully screw the fitting into the socket until it is securely fastened.



2

Prepare the pipe

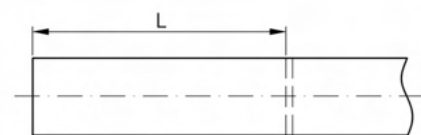
Begin by cutting the pipe at a precise right angle to its axis, making sure that any deviation from the perpendicular does not exceed a 10-degree tolerance. Once the cut is complete, verify that the surface is entirely smooth and free of any dirt, debris, or visible scratches.



3

Calculate final dimensions

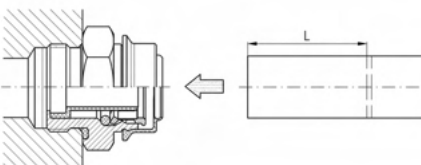
When calculating your final dimensions, keep in mind that the specific pipe length (L) must be pressed entirely into the socket of the fitting (Tab.1). Accurate measurement of this insertion depth is essential to ensure the joint is fully seated and remains structurally sound.



4

Assemble the pipe

Slide the pipe through the protective cap and the clamping sleeve. Continue pushing the pipe forward until it reaches the internal stop and you encounter a firm resistance.



Tab.1

Pipe diameter Ø [mm]	6	8	12	15
Pipe length in connector with cap L [mm]	22.5	22.5	22	24.5
Pipe length in connector without cap L [mm]	18	18	19	20

ENGINEERING GUIDE

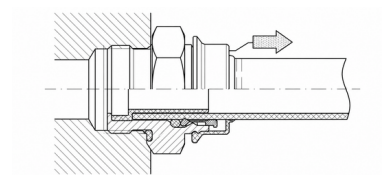
Assembly & Disassembly Guide

PTC FITTINGS: DISASSEMBLY

1

Remove the protective cap

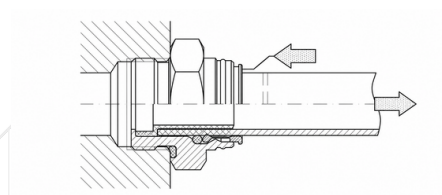
Remove the blue protective cap from the fitting's end to expose the clamping sleeve (brass ring). It is not possible to press the ring without first removing the cap.



2

Remove the pipe

To disconnect the joint, apply firm and consistent pressure to the clamping sleeve to release its internal grip. While holding the sleeve in this position, pull the pipe steadily away from the fitting until it is fully released.

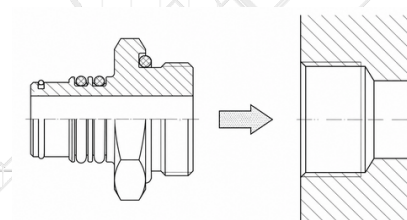


ROTARY FITTINGS: ASSEMBLY

1

Install the screw plug

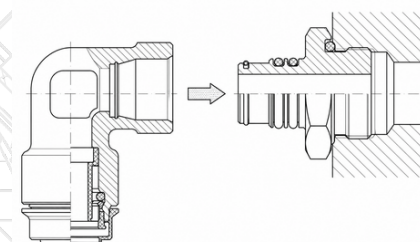
Prior to assembly, verify that the socket is completely free of any dirt or contaminants. Once cleanliness is confirmed, thread and tighten the screw plug of the rotary fitting into the socket until it is fully secured.



2

Insert the fitting

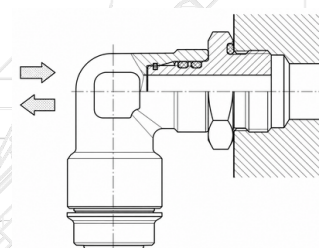
Insert the body of the fitting into the screw plug that you have previously mounted. Apply firm, steady pressure until you encounter strong resistance, which indicates that the fitting is correctly seated within the plug.



3

Check the fitting is mounted properly

To ensure the fitting is securely installed, perform several up-and-down movements on the entire assembly. This manual verification confirms that the internal locking mechanisms are fully engaged and that the connection is stable.



ABOUT US

MB Group is a family-owned manufacturing enterprise with over 20 years of automotive experience, ranking among Europe's top four producers of pneumatic fittings. Operating globally through MB Pneumatyka in Poland and MBP PVT in India, we specialise in safety-critical, precision-made fittings for all pneumatics systems, including braking and air suspension systems in trucks, trailers, agricultural vehicles, tractor trailers, and buses.

Components where reliability is non-negotiable.

Rather than offering standard catalogue components alone, we provide customised engineering solutions tailored to individual client requirements. We work together with our customers on their pneumatic layout to provide a tailored solution that is both lighter and more cost-effective.

Where the world's largest pneumatic manufacturers require years to develop a custom component, we can take a concept to a finished prototype in as little as 7 working days. Our commitment to quality is backed by IATF 16949:2016 certification, the international standard for automotive supply chains.

Our product range includes pneumatic push-in fittings, distribution manifolds, modular plastic manifolds, test points, drain valves, and polyamide tubes.



WHY PARTNER WITH US

Message from the Founder

The question I ask of every decision, would we be comfortable if our client could see exactly what we are doing and why?

MB Pneumatyka was established in 2002. For over two decades, this company has built its reputation on a single, consistent principle: quality matters most when no one is watching.

I have led this business since the beginning. In that time, the industry around us has changed enormously - supply chains have globalised, margins have compressed, and the pressure to cut corners has never been greater. Our answer to that pressure has not changed. The question I ask of every decision is the same one I have always asked: would we be comfortable if our client could see exactly what we are doing and why? That is not a rhetorical question in a supply chain, where shortcuts rarely surface until something goes wrong on the road.

We are not the largest manufacturer in this industry. We do not aim to be. What we offer is something larger manufacturers struggle to match: the agility to take a client's engineering problem and return a working solution in days, not years. Every fitting we make goes into a pneumatic system like braking system or an air suspension. Every one of them must work, every time, under conditions that include extreme cold & heat, road vibration, and corrosive road salts over hundreds of thousands of kilometres.

This catalogue is a record of what that commitment produces. We hope it earns your confidence.

Małgorzata Bieniaszewska Founder, MB Pneumatyka



WHY PARTNER WITH US

IATF 16949 & 100% Leak Testing Protocols

MB Pneumatyka holds **IATF 16949:2016** certification - the standard for the automotive supply chain. This mandatory requirement for Tier 1 and Tier 2 manufacturers is a threshold that the majority of local Polish competitors do not meet.

STATISTICAL PROCESS CONTROL (SPC)

Quality is built in, not inspected in, through documented Poka-Yoke error prevention.



RIGOROUS QUALITY VALIDATION

Rigorous quality validation and testing protocols compliant with AIAG, SAE & ISO standards.



AUTOMATED SERIAL PRODUCTION

Repeatability across high-volume supply.



SAFETY-CRITICAL RELIABILITY

Zero-defect philosophy in fittings for braking and suspension systems.

Sample test results for push-in fittings:

Static Leakage	$\leq 3.5 \text{ cm}^3/\text{min}$ across all temperatures
Dynamic Leakage	$\leq 4 \text{ cm}^3/\text{min}$ at -40°C ; $\leq 1 \text{ cm}^3/\text{min}$ at -20°C / 0°C ; $\leq 0.5 \text{ cm}^3/\text{min}$ at $+20^\circ\text{C}$ and above
High Temperature	No damage; leakage $\leq 0.5 \text{ cm}^3/\text{min}$ at $+20^\circ\text{C}$
Vibration Resistance	No external damage; leakage $\leq 0.5 \text{ cm}^3/\text{min}$ at $+20^\circ\text{C}$
Corrosion Resistance	No corrosion affecting function; leakage $\leq 0.5 \text{ cm}^3/\text{min}$
Tube Pull-Out Force	Pull-out force exceeds minimum tube retention force under all operating conditions

WHY PARTNER WITH US

In-House R&D and Testing Labs

CONCEPT TO PROTOTYPE IN 7 DAYS

PROBLEM

Standard prototyping cycles at Tier-1 suppliers take months or even years. This "bureaucratic drag" and reliance on external hand-offs delay your time-to-market.

CAPABILITY

- We produce complex geometries in one setup, eliminating time lost to multi-machine recalibration.
- Design, validation, and production are co-located in MB Pneumatyka Headquarters. We don't wait for external CAD approvals or third-party engineering.
- As a family-owned business, we bypass the multi-level sign offs. Our "ready-to-act" culture treats prototyping as a core service, not an interruption to production.



GUARANTEE

Concept to finished prototype in as little as 7 working days. The same process can take months or even years at larger, less agile pneumatic manufacturers.

FIT-AND-FORGET RELIABILITY

PROBLEM

CV braking systems face extreme cycles (-40°C to $+80^{\circ}\text{C}$), constant vibration, and corrosive salts over lives of 1M+ km.

CAPABILITY

- Climate chambers (-40°C to $+105^{\circ}\text{C}$),
- Salt spray chambers (480h ISO 9227),
- Vibration rigs (5g, 10–150 Hz).



GUARANTEE

Every MB Pneumatyka fitting is validated across the full operating envelope before release to production.



Małgorzata Bieniaszewska

Founder / Sales Director

☎ +48 660 751 010

✉ m.bieniaszewska@mbgroup.com.pl

Amelia Roman

Business Development Manager

☎ +48 660 352 081

✉ a.roman@mbgroup.com.pl

Krzysztof Max

Business Development Manager

☎ +48 533 323 461

✉ k.max@mbgroup.com.pl

Barbara Bałys

Key Account Manager

☎ +48 530 020 231

✉ b.bałys@mbgroup.com.pl

Nandhini Vembaiyan

Business Development Manager

MBP PVT India

☎ +91 7016811572

☎ +48 532 567 185

✉ n.vembaiyan@mbgroup.com.pl

mbgroup.com.pl

