



Data Sheet

**Flexible Quick Disconnects with Quick Disconnect Cables
for Cavity Pressure Sensors**

Standard Variants and Variants for Floating Mold Inserts



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1 Product Description

1.1 Flexible Quick Disconnects

Many molding parts are not produced directly in the mold platen, but with the aid of mold inserts. This facilitates the production of the cavities and handling during maintenance. However, the use of cavity pressure and cavity temperature sensors is often limited here due to space constraints. In addition, the handling of the connection cables of permanently installed sensors is impractical when installing and removing mold inserts.

Flexible quick disconnects for cavity pressure sensors from PRIAMUS allow mold inserts to be installed and removed by a simple plug-in connection, while the sensors themselves remain in the mold insert. This method is very reliable in operation above all because the sensors do not remain as „bolts“ in the mold platen and can be damaged, but are installed safely packed in the mold insert even after removal. Hence sensors can be inserted without mounting problems in interchangeable molds which are changed on the machine.

The decisive advantage of this system is that different mold inserts with different sensor positions can be used without changing the position of the quick disconnect. In contrast to a sensor installed in the mold platen itself, the sensor position can still be selected very flexibly according to the molded part, whereby the size of the mold insert is irrelevant.

1.2 Floating Quick Disconnects

Mold inserts are often installed floating to allow standardization when replacing a defective mold insert. This means that they are no longer fitted exactly into the mold plate, but are provided with a generous tolerance. This is also referred to as „floating mold inserts“.

For this installation situation, we have developed a special quick disconnect system that automatically compensates for the lateral displacement of the mold inserts. This is made possible by the fact that the two quick disconnects automatically „find each other“ during installation, which would inevitably lead to a collision in a rigid coupling design.

Floating quick disconnects simplify the exchange of mold inserts, which is a prerequisite for the standardization of mold components, especially in the global environment.

1.3 Summary

Cavity pressure sensors	Flexible quick disconnect
<ul style="list-style-type: none"> • Optimized for use in injection molds • Robust and temperature-resistant • Sensor front can be adapted to the cavity • Suitable for all melt temperatures • Piezoelectric measuring principle • Compatible to all charge amplifiers respectively injection molding machines • All sensors with separable cable • Measuring range up to 2000 bar • Available with hardened sensor front 	<ul style="list-style-type: none"> • Position of sensor and disconnect can be different • Beneficial for mold inserts with different sensor position • Variable cable lengths • Floating variant with generous installation tolerance

1.4 Technical Data Cavity Pressure Sensors

Properties	Specification	
Maximum melt temperature (plastics) in the cavity ¹⁾	No limitation	
Max. mold temperature	0 ... 200 °C / 32 ... 392 °F	
Sensitivity ²⁾	Types 6001A / 6001B	10 pC / bar
	Types 6002B	5 pC / bar
	Types 6003A / 6003B	5 pC / bar
	Types 6006BC, 6007BC, 6008AA, 6010BC	2 pC / bar
Measuring range	0 ... 2000 bar / 0 ... 29008 psi / 0 ... 200 MPa	
Overload	2500 bar / 36260 psi / 250 MPa	
Linearity deviation	< ±1 %	
Natural frequency ³⁾	> 80 kHz	
Insulation resistance	> 10 ¹³ Ω (at 20°C)	

1) The plastic melt cools immediately after contacting the cavity wall. The melt temperature is therefore without any practical meaning for the sensor (thermoplastics). For thermosets and elastomers the permanent melt temperatures are usually below 200 °C.

2) The exact sensitivity is provided on a separate calibration sheet.

3) The actual natural frequency of the sensor is far higher than the frequency spectrum of the effective signal.

1.5 Marking Example

The type number of our flexible quick disconnects is composed of the following elements:

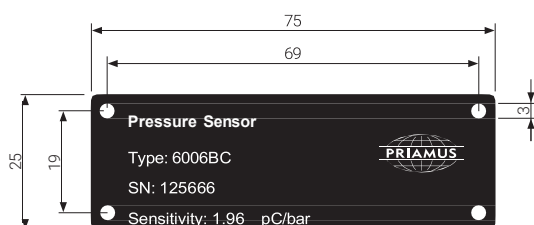
6101Ex.xx	
6101	Type of flexible quick disconnect
E	Index
x.xx	Cable length (in m)

The type number of our quick disconnect cables is composed of the following elements:

6100Ex.xx-102	
6100	Type
E	Index
x.xx	Cable length (in m)
-102	Fischer connector

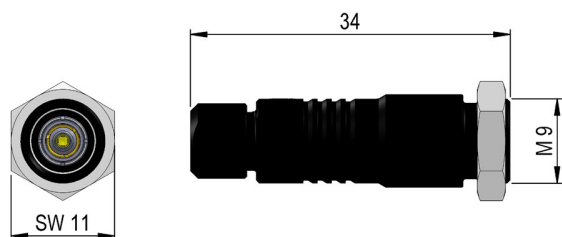
1.6 Identification Plate

All cavity pressure sensors are tested and provided with a serial number. Thus, all test results and all sensors are traceable. This data is located on the identification plate, which can be attached to the mold.



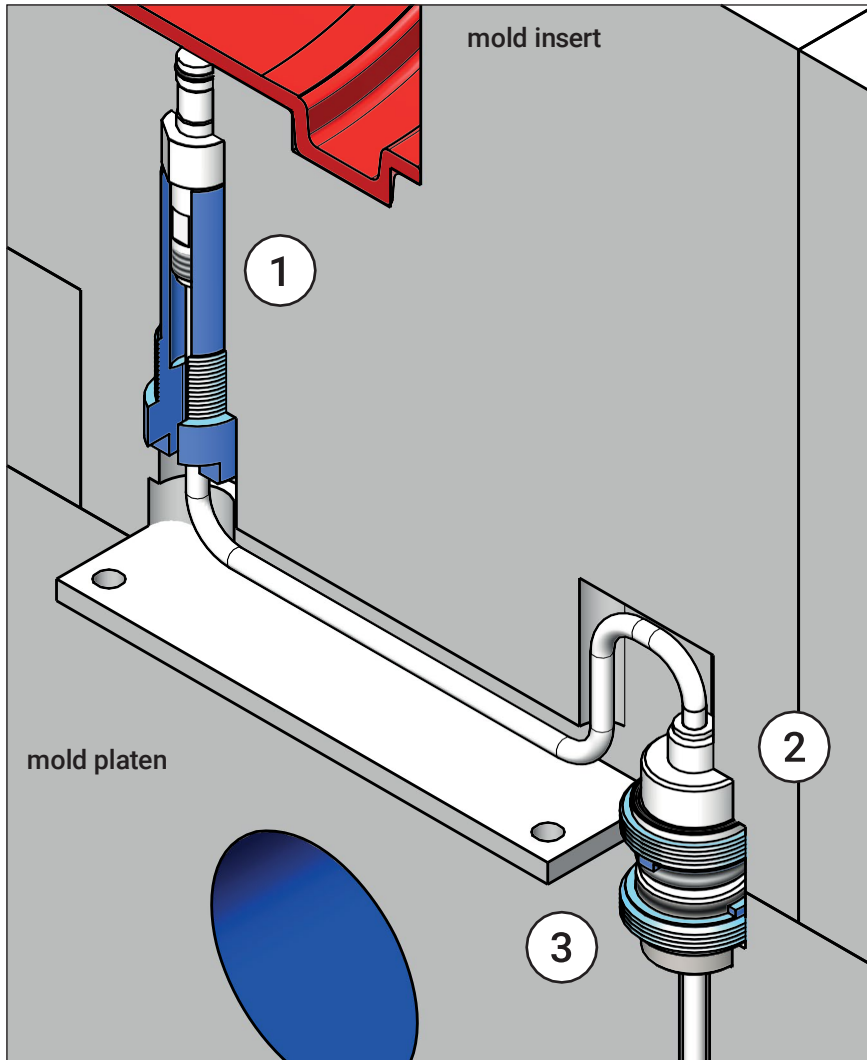
1.7 Connectors

All standard and miniature cavity pressure sensors have a Fischer connector type KBE 102 negative TRIAX.



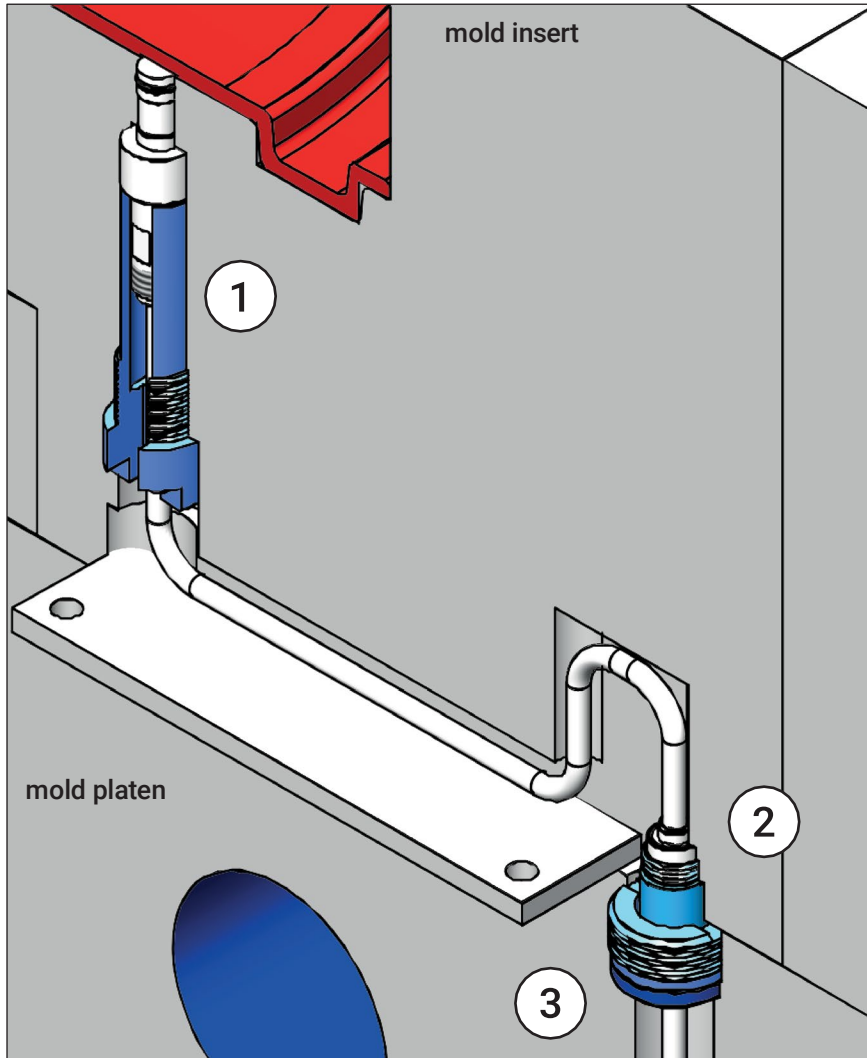
1.8 Mounting Situation Standard Variant

Lower picture shows a sensor **1** with flexible quick disconnect **2** (standard variant). The quick disconnect cable **3**, which also has a flexible quick disconnect, is installed in the mold platen.



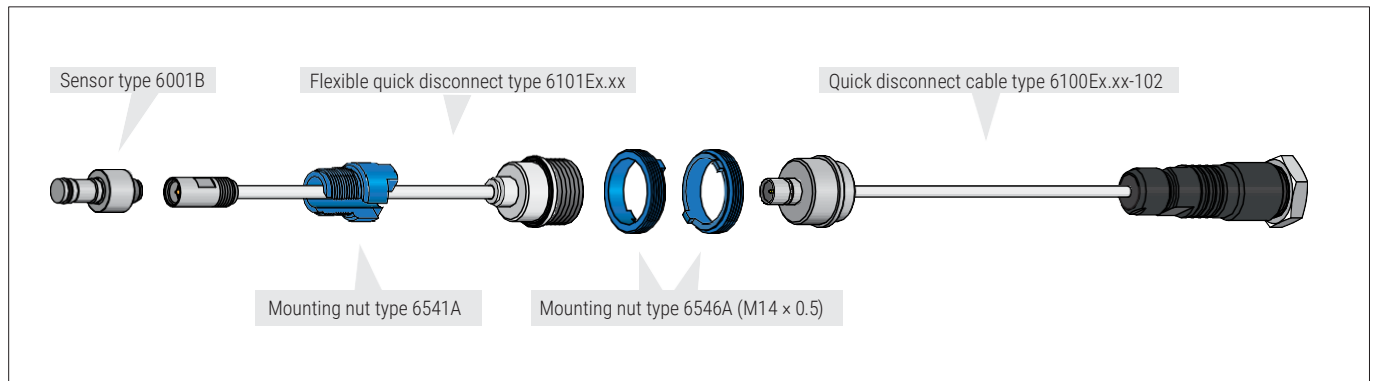
1.9 Mounting Situation Floating Variant

Lower picture shows a sensor **1** with flexible quick disconnect **2** (floating variant). The quick disconnect cable **3**, which also has a flexible quick disconnect, is installed in the mold platen.

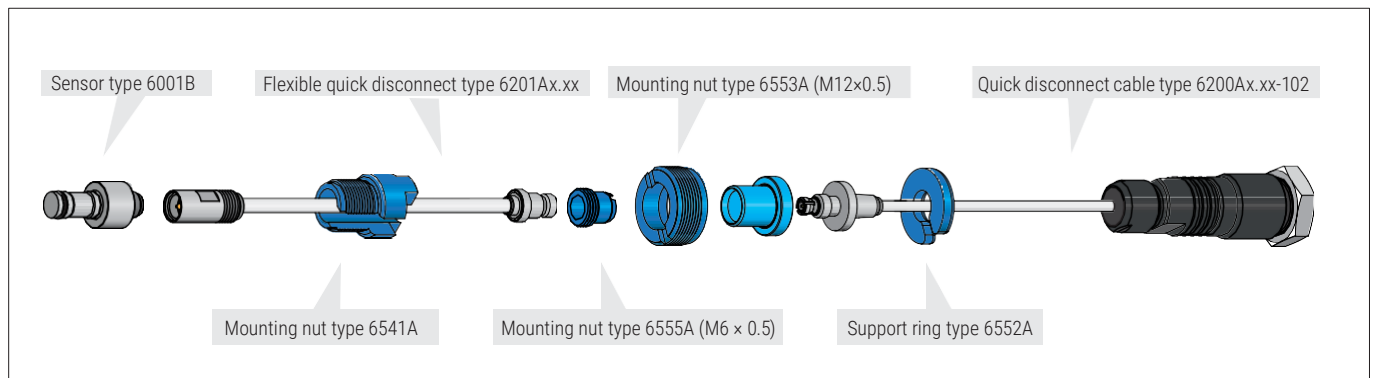


1.10 Measuring Chains

1.10.1 Standard Variant with Quick Disconnect Cable



1.10.2 Floating Variant with Quick Disconnect Cable



1.11 Type Overview

This section lists all available versions of our flexible quick disconnects, i. e. in addition to the standard variant (type number starting with 61) also the floating variants (type numbers starting with 62).

x.xx = total length of the quick disconnect cable (quick disconnect + cable + connector). This dimension must be specified when ordering.

Our flexible quick disconnects are compatible with the following sensors:

	6101Ex.xx	6103Ex.xx	6104Bx.xx	6106Ax.xx	6201Ax.xx	6203Ax.xx	6204Ax.xx
All Standard cavity pressure sensors type 6001A				●			
All Standard cavity pressure sensors type 6001B	●				●		
All Standard cavity pressure sensors type 6002B	●				●		
All Standard cavity pressure sensors type 6003A				●			
All Standard cavity pressure sensors type 6003B	●				●		
All Miniature cavity pressure sensors type 6006BC		●				●	
All Miniature cavity pressure sensors type 6007BC		●				●	
All Miniature cavity pressure sensors type 6008AA			●				●
All Miniature cavity pressure sensors type 6010BC		●				●	

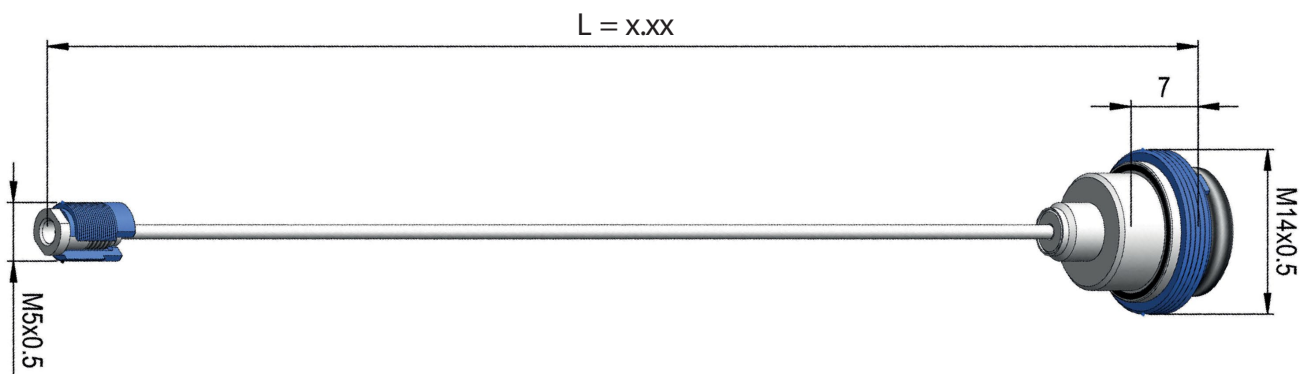
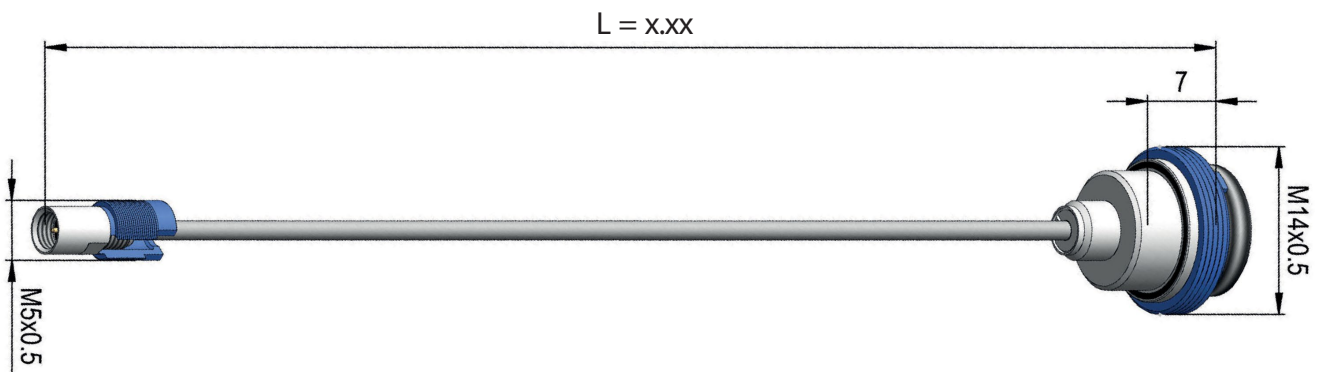
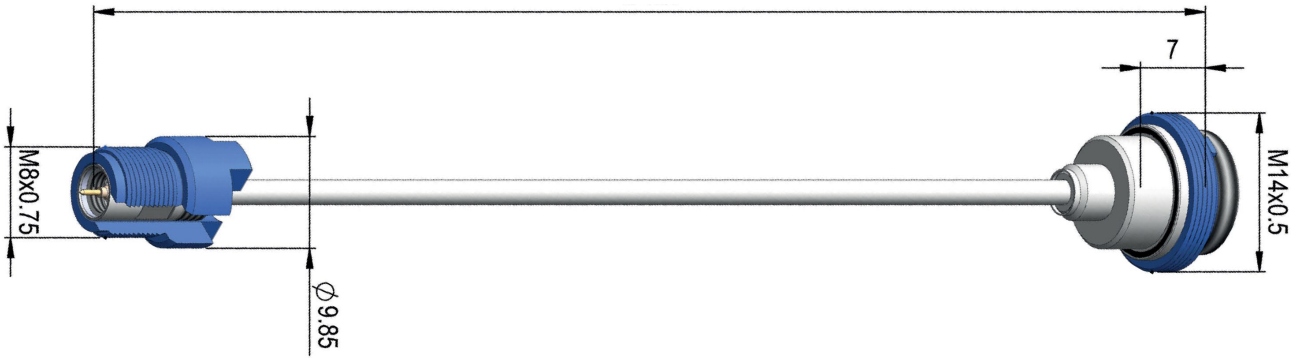
1.12 Cables

x.xx designates the cable length (total length with cable and connector) in [m] and must be specified when ordering. The following points must be particularly observed with regard to cable length:

- When designing, make sure that the cable length on the mold insert side is not too short and not too long so that the sensor with quick disconnect can still be mounted.
- The cable must be long enough to accommodate the remaining cable length in the bore (keywords: volume and stiffness).
- The shorter the cable, the stiffer it is and the more difficult it is to accommodate in the bore.
- The cable must be long enough so that the sensor can still be mounted. The flexible quick disconnect is located laterally outside the bore.
- When using multi-channel connector boxes, the cables must be long enough to be plugged in when the cover of the connector box is removed.

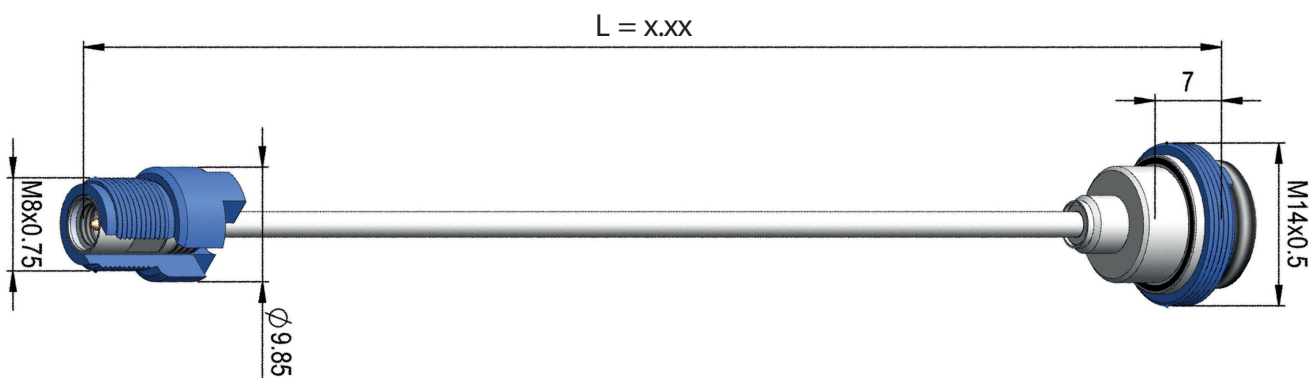
The following manufacturing tolerances apply to the cables:

Flexible quick disconnect (minimum length: 0.10 m)		Quick disconnect cable (minimum length: 0.10 m)	
Cable length [m]	Tolerance + .../-0 mm	Cable length [m]	Tolerance + .../-0 mm
< 0.50 m	5 mm	< 0.50 m	5 mm
> 0.51 1.00 m	10 mm	0.51 - 1.00 m	10 mm
		1.01 m - 5.00 m	20 mm



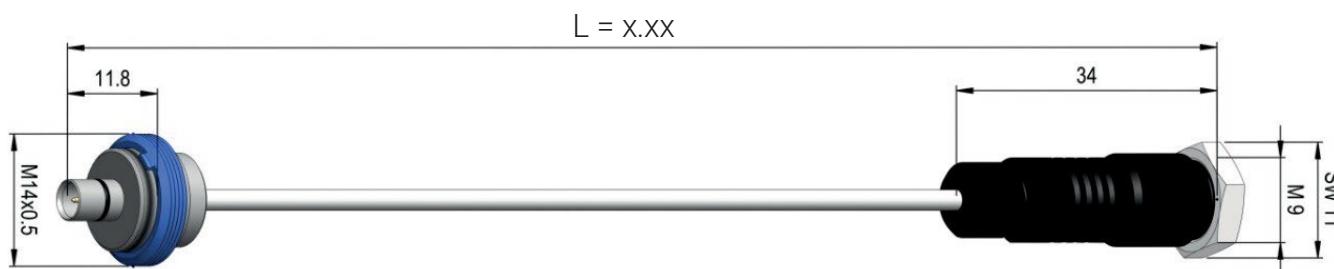
Type 6106Ax.xx

Smallest bending radius: 9 mm



1.13.2.1 Quick Disconnect Cable Type 6100Ex.xx-102 for Standard Variants

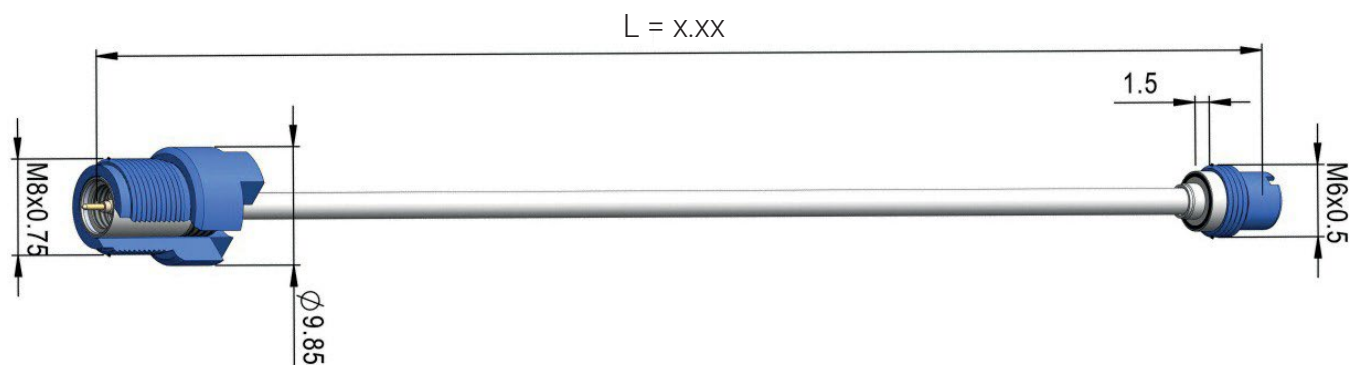
Smallest bending radius: 9 mm



1.13.1 Quick Disconnects for Floating Variants

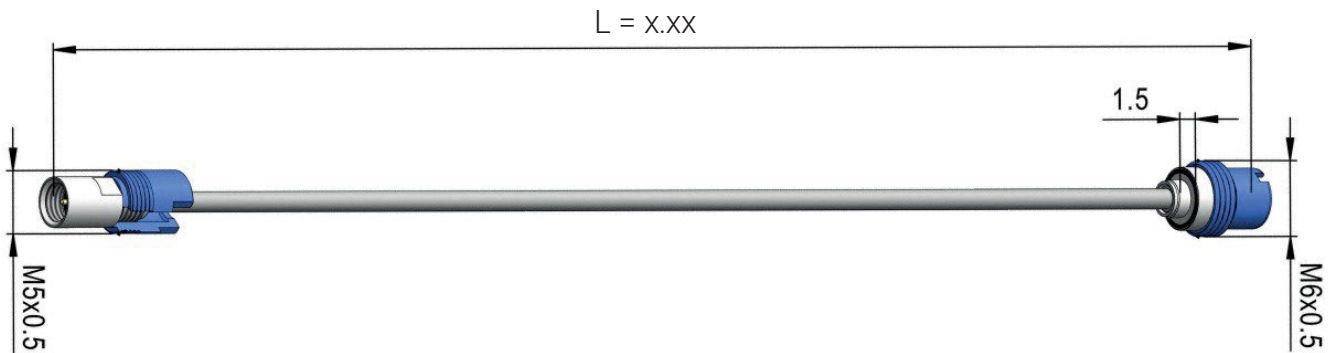
Type 6201Ax.xx

Smallest bending radius: 9 mm



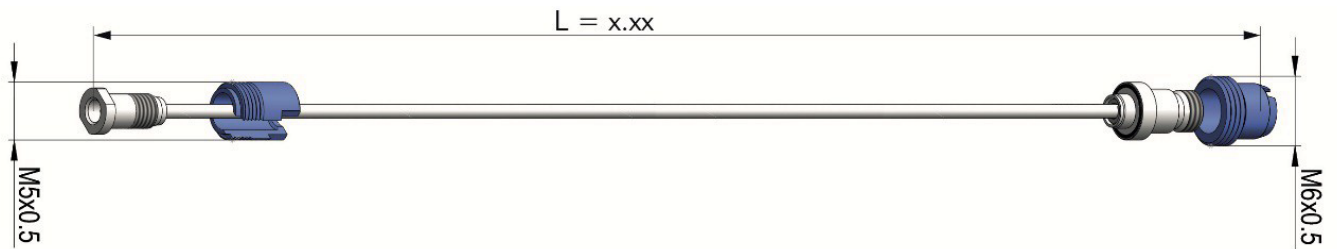
Type 6203Ax.xx

Smallest bending radius: 5 mm



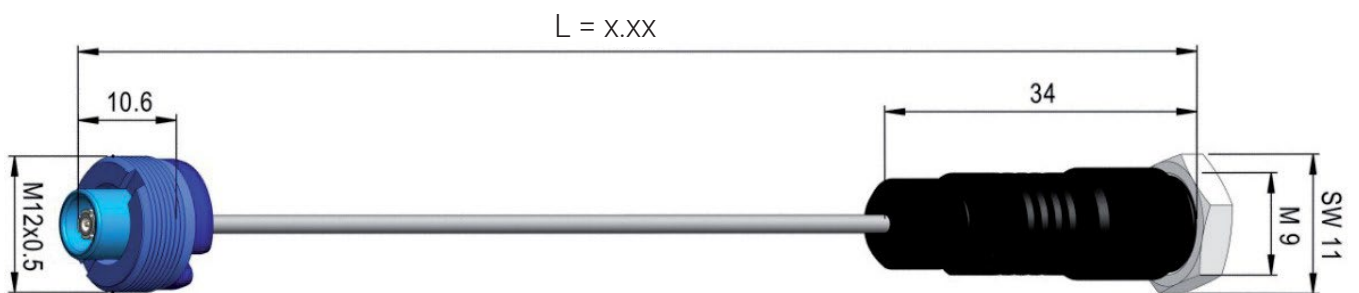
Type 6204Ax.xx

Smallest bending radius: 5 mm



1.13.1.1 Quick Disconnect Cable Type 6200Ax.xx-102 for Floating Variants

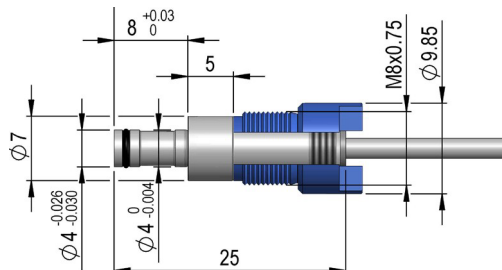
Smallest bending radius: 9 mm



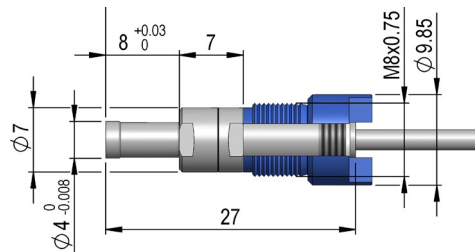
1.13.2 Cavity Pressure Sensors

All sensors have an machinable sensor front.

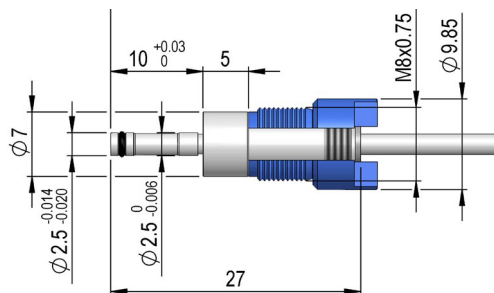
Types 6001A/B



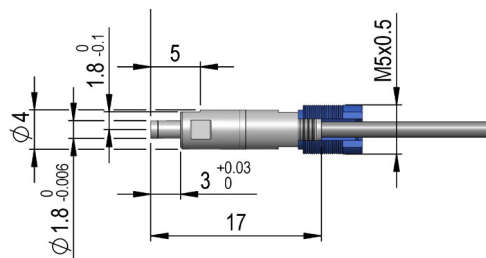
Type 6002B



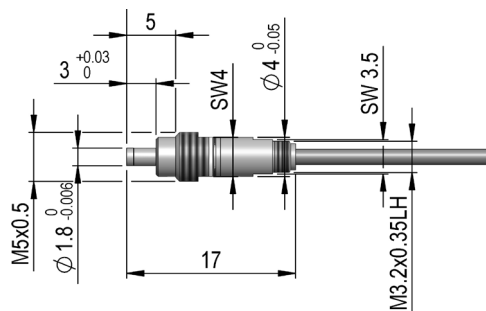
Types 6003A/B



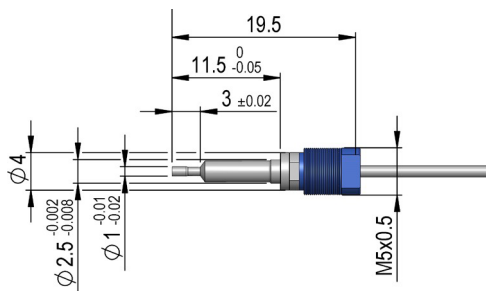
Type 6006BC



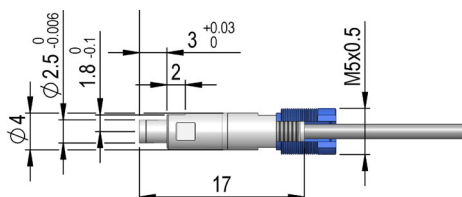
Type 6007BC



Type 6008AA



Type 6010BC



2 Mounting

2.1 Mounting Places

Cavity pressure sensors are usually installed at the beginning of the flow path for general applications. For special applications, they are also placed differently at the points where corresponding properties of the molding part must be detected, for example, for mold filling detection, consistency monitoring, etc. For existing molds, defect images of the parts are helpful.

The list shows applications and recommendations for installation location. We will be happy to advise you on the selection and placement of the sensors in your specific application.

Application	Recommended mounting place
Process optimization, general monitoring	- Near the gate - On a thick wall of the part - Before first baffle
Consistency monitoring	In the relevant position
Monitoring and control of viscosity	Before of the cavity temperature sensor
Monitoring and control of shrinkage	Around the the cavity temperature sensor
Mold filling detection	At the end of the flow path

2.2 Preparations

The basic prerequisite for accurate and problem-free measurement is a perfectly manufactured sensor bore. If the specified tolerances are not observed, large measuring errors, discontinuities in the measuring signal, extreme imprints on the molded part and defective sensors are possible as a result. To obtain a correspondingly fast temperature signal, the sensor front must be installed flush with the cavity wall.

It is therefore essential to observe both the dimensions and the shape and position tolerances described in this chapter. The cable channel respectively the bore must also be sufficiently dimensioned so that the cable can be inserted with a loop. Please note in general that the function of the sensor can no longer be guaranteed if the sensor cables are damaged or if the connectors are contaminated or damaged.

Before you start with the sensor installation, the following instructions must be followed:

- Only use mounting and extracting tools from PRIAMUS.
- The dimensions and tolerances specified in the bore drawings must be observed.
- All channels and bores must be cleaned free of chips & burrs.
- All contact surfaces must be flat and level.
- The angles in the mold, around which the cables are placed, must be added with a chamfer (3 x 45°) or a radius (R2), therewith the cable will not be damaged.
- All open cable channels must be covered.
- Do not pull on the sensor cable, the flexible quick disconnect and the quick disconnect cable.

- The sensor cable must not be crushed or kinked during installation.
- The quick disconnect must not be contaminated. Therefore, if possible, do not position the quick disconnect in the immediate vicinity of a grinding area.
- For the standard variants, pre-centering of the inserts with two alignment pins for the quick disconnect is necessary. The fit of the pre-centering should be H7/g6 fitment and the length should be at least 10 mm. Usually alignment pins with collar and two fitment diameters are used for this purpose for easy assembly.
- With the floating variant, an eccentricity or deviation of max. 0.2 mm can be absorbed by the floating disconnects.

Notice

The sensor front can be machined and adapted to the surface of the cavity. In this case, the sensor is secured against rotation with a keyseat feature. For sensor types 6001, 6002 and 6003, an keyseat can be incorporated by a moldmaker if required. For types 6006, 6008 and 6010, the sensor positioning is already provided ex works. For more information, see operating instructions OI012e.

Notice

The sensor type 6007BC is an exception due to its special mounting situation (sensor thread). No machining of the sensor front is possible.

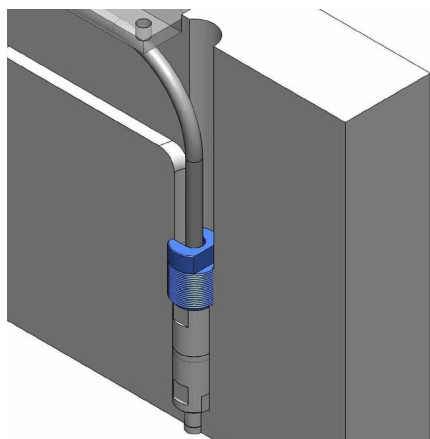
Cavity pressure sensors from PRIAMUS are available with different front diameters. Basically, the largest possible diameter should always be selected, since on the one hand the signal yield improves with larger diameter, and on the other hand the precision of the sensor bore decreases with increasing diameter.

2.3 Mounting Variants

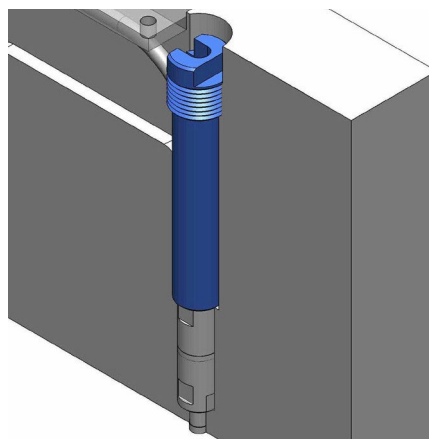
There are three different ways of mounting cavity pressure sensors in the mold platen. These installation variants apply to both the standard and the floating variants:

- With mounting nut (see chapter „2.3.2 Mounting Variant with Mounting Nut“ on page 18)
- With PRIAFIT® mounting sleeve (see chapter „2.3.3 Mounting Variant with PRIAFIT® Mounting Sleeve“ on page 20)
- With distance sleeve (see chapter „2.3.4 Mounting Variant with Distance Sleeve“ on page 22)

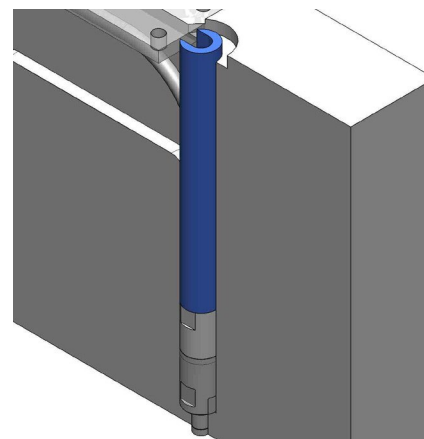
Mounting with mounting nut
types 6541A or 6544B



Mounting with PRIAFIT® mounting
sleeve types 6530A or 6531A



Mounting with distance sleeve
types 6522A and 6523B



2.3.1 Mounting the Sensor Head

For all three mounting variants, the sensor head must be installed first. The installation dimensions can be found in the bore drawings of the corresponding mounting variant. The following mounting and extracting tools are used to mount the sensors:

Mounting and extracting tools	Sensor types
Type 6561B	6001, 6002, 6003
Type 6568A	6008
Type 6569A	6006, 6007, 6010

Notice

The sensor front must be flush with the mold wall (cavity). Rework the bore if necessary.

2.3.2 Mounting Variant with Mounting Nut

Notice

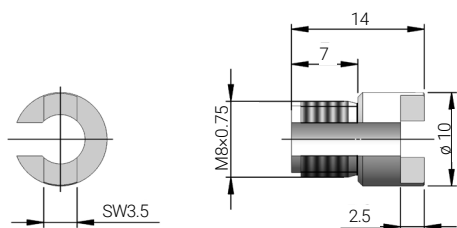
To make it easier to attach the mounting nut to the assembly tool, we recommend magnetizing the assembly tool beforehand.

Two different mounting nuts are used for installation, depending on the sensor type. The following assignments and tightening torques apply to the mounting nuts:

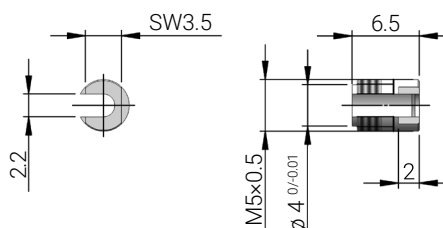
Mounting nut	Sensor types	Assembly tool	Tightening torque
Type 6541A	6001, 6002, 6003	6562B	3.5 Nm
Type 6544B	6006, 6008	6567C	1.0 Nm
Type 6544B	6010	6567C	1.2 Nm
Sensor thread*	6007	-	1.0 Nm

* Type 6007BC is not installed with a mounting nut, but is fixed in the bore with the existing sensor thread.

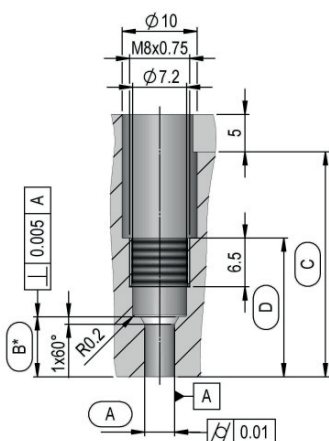
Mounting nut type 6541A



Mounting nut type 6544B

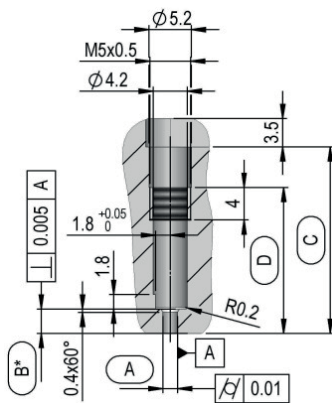


2.3.2.1 Bore Drawings



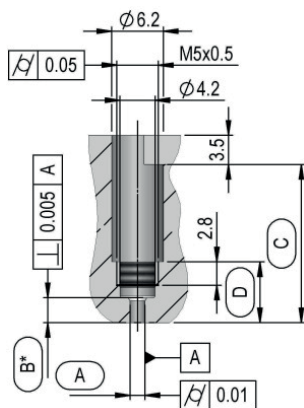
Typ	A ^{+0.005/+0.018}	B*	C min.	D
6001A(-H)	4	8	30	18.5
6001B(-H)	4	8	30	18.5
6002B(-H)	4	8	32	20.5
6003A(-H)	2.5	10	32	20.5
6003B(-H)	2.5	10	32	20.5

* Adjust dimensions



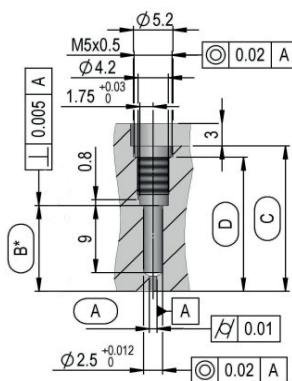
Type	A ^{+0.005/+0.012}	B*	C min.	D
6006BC	1.8	3	23	18
6010BC	2.5	3	23	18

* Adjust dimensions



Type	A ^{+0.005/+0.012}	B*	C min.	D
6007BC	1.8	3	19	7.3

* Adjust dimensions



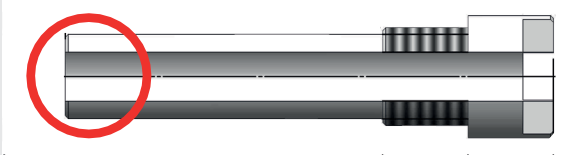
Type	A ^{0/+0.012}	B*	C min.	D
6008AA	1	11.5	19	18

* Adjust dimensions

2.3.3 Mounting Variant with PRIAFIT® Mounting Sleeve

Notice

Shorten the PRIAFIT® mounting sleeve on the sensor side (+/- 0.2 mm) before mounting, turn over and grind over the surface. Then deburr and break the edges.

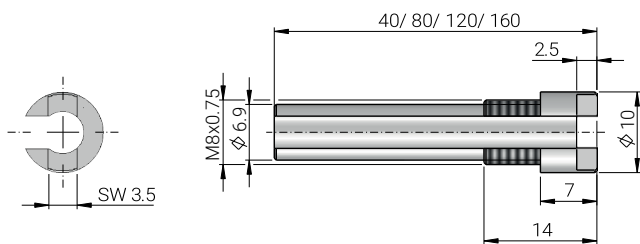


The following assignments and tightening torques apply to PRIAFIT® mounting sleeves:

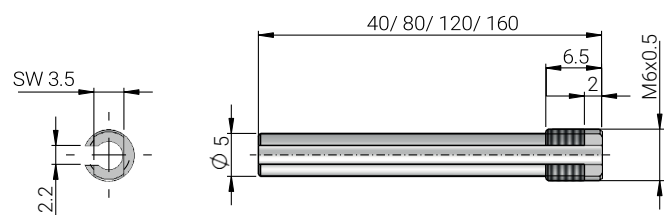
PRIAFIT® mounting sleeve	Sensor types	Assembly tool	Tightening torques
Type 6530A	6001, 6002, 6003	6562B	3.5 Nm
Type 6531A	6006, 6008	6567C	1.0 Nm
Type 6531A	6010	6567C	1.2 Nm

The cut-to-length PRIAFIT® mounting sleeve is inserted into the bore and then twisted in place using the appropriate mounting tool.

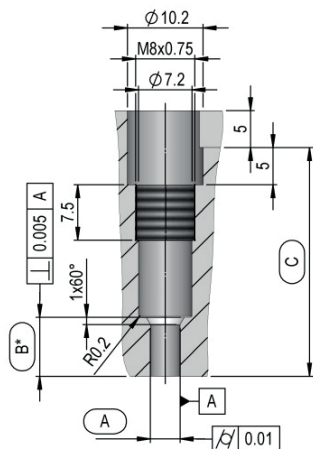
PRIAFIT® mounting sleeve type 6530A



PRIAFIT® mounting sleeve type 6531A

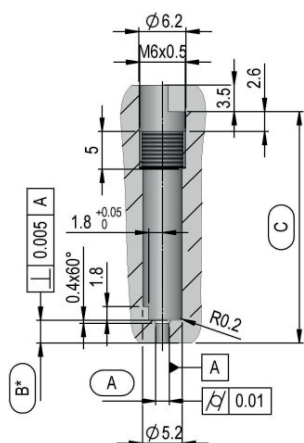


23.3.1 Bore Drawings



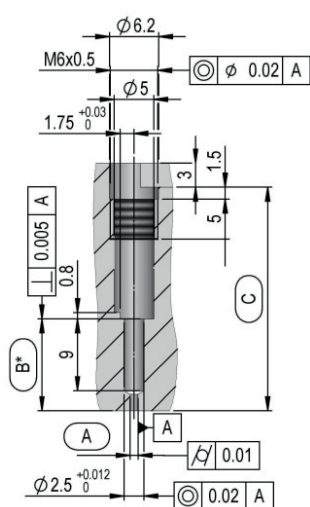
Type	A ^{+0.005/+0.018}	B*	C 6530A	C 6530A0.08	C 6530A0.12	C 6530A0.16
6001A(-H)	4	8	37-56	37-96	37-136	37-176
6001B(-H)	4	8	37-56	37-96	37-136	37-176
6002B(-H)	4	8	39-58	39-98	39-138	39-178
6003A(-H)	2.5	10	39-58	39-98	39-138	39-178
6003B(-H)	2.5	10	39-58	39-98	39-138	39-178

* Adjust dimensions



Type	A ^{+0.005/+0.012}	B*	C 6531A	C 6531A0.08	C 6531A0.12	C 6531A0.16
6006BC	1.8	3	29-56	29-96	29-136	29-176
6010BC	2.5	3	29-56	29-96	29-136	29-176

* Adjust dimensions



Type	A ^{0/+0.012}	B*	C 6531A	C 6531A0.08	C 6531A0.12	C 6531A0.16
6008AA	1	11.5	30-54	30-94	30-134	30-174

* Adjust dimensions

2.3.4 Mounting Variant with Distance Sleeve

Notice

The distance sleeve must not be shortened on the sensor side (recognizable by the flat surface). Also observe possible preloads when cutting to length (max. 0.02 mm). Deburr and break the edges afterwards.

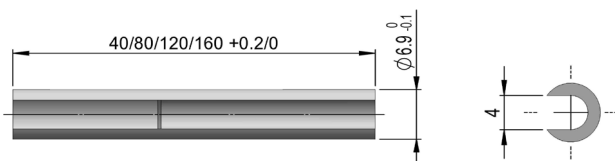
Notice

In order to simplify the removal of the distance sleeve, we recommend making a clearance at the bore.

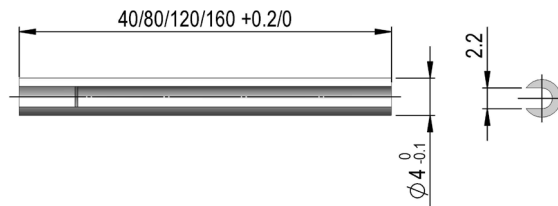
The distance sleeves are assigned to the following sensor types:

Distance sleeve	Sensor types
Type 6522A	6001, 6002, 6003
Type 6523B	6006, 6008, 6010

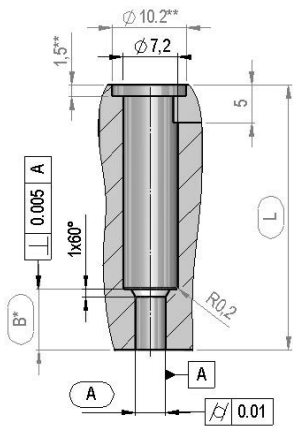
Distance sleeve type 6522A



Distance sleeve type 6523B



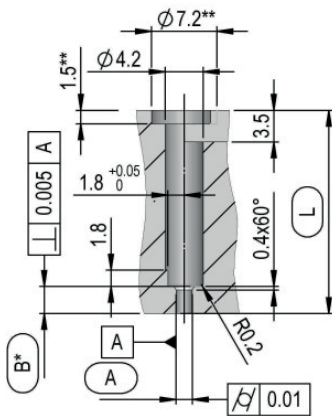
23.4.1 Bore Drawings



Type	A ^{+0.005/+0.018}	B*	L 6522A	L 6522A0.08	L 6522A0.12	L 6522A0.16
6001A(-H)	4	8	30-53	30-93	30-133	30-173
6001B(-H)	4	8	30-53	30-93	30-133	30-173
6002B(-H)	4	8	32-55	32-95	32-135	32-175
6003A(-H)	2.5	10	32-55	32-95	32-135	32-175
6003B(-H)	2.5	10	32-55	32-95	32-135	32-175

* Adjust dimensions

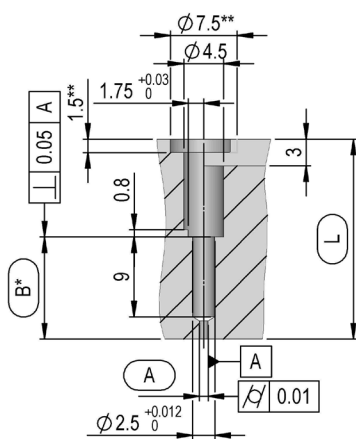
** For the disassembly of the distance sleeve, we recommend machining a recess.



Type	A ^{+0.005/+0.012}	B*	L 6523A	L 6523A0.08	L 6523A0.12	L 6523A0.16
6006BC	1.8	3	19 - 55	19 - 95	19 - 135	19 - 175
6010BC	2.5	3	19 - 55	19 - 95	19 - 135	19 - 175

* Adjust dimensions

** For the disassembly of the distance sleeve, we recommend machining a recess.



Type	A ^{0/+0.012}	B*	L 6523A	L 6523A0.08	L 6523A0.12	L 6523A0.16
6008AA	1	11.5	19.5 - 53.5	19.5 - 93.5	19.5 - 133.5	19.5 - 173.5

* Adjust dimensions

** For the disassembly of the distance sleeve, we recommend machining a recess.

2.4 Mounting the Flexible Quick Disconnect

Flexible quick disconnects are available as standard variants or as floating variants. The installation of these two variants differs fundamentally, which is why we describe each variant in a separate chapter.

- Chapter „2.4.1 Mounting the Flexible Quick Disconnect (Standard Variant)“ on page 24
- Chapter „2.4.3 Mounting the Flexible Quick Disconnect (Floating Variant)“ on page 26

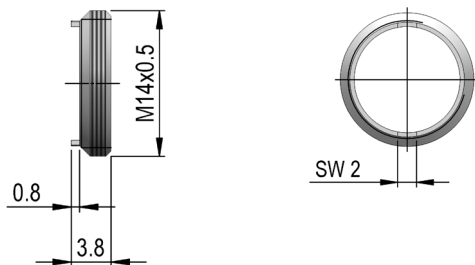
2.4.1 Mounting the Flexible Quick Disconnect (Standard Variant)

The flexible quick disconnect is installed on two sides: In the mold insert and in the mold platen.

In the mold insert, the mounting nut type 6546A is installed with the mounting tool type 6563B with a tightening torque of 3.5 Nm.

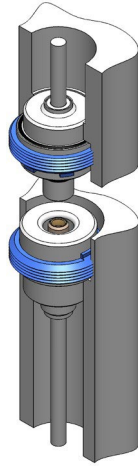
In the mold platen, the mounting nut type 6546A is installed with the mounting tool type 6563B with a tightening torque of 3.5 Nm.

Mounting nut type 6546A

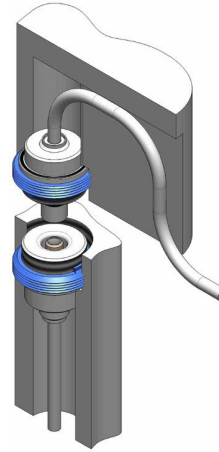


2.4.2 Bore Drawings

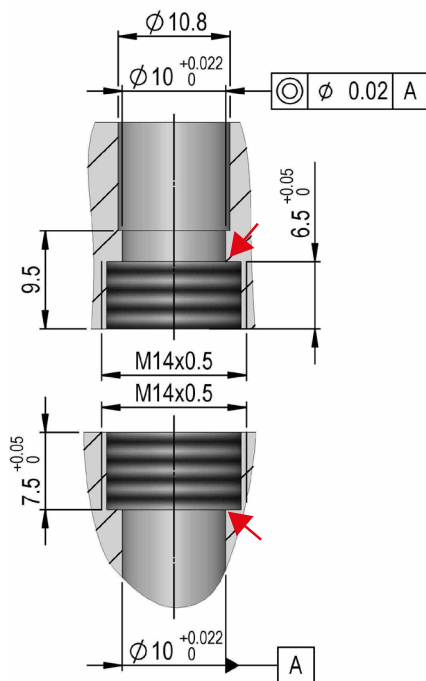
Mounting in bore



Mounting in cable channel



Mounting in bore

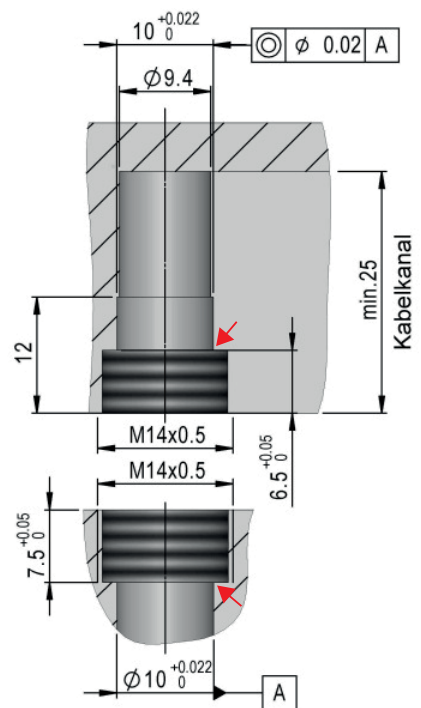


Mold platen

Mold insert

→ Contact surface

Mounting in cable channel



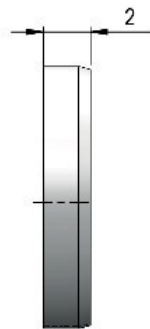
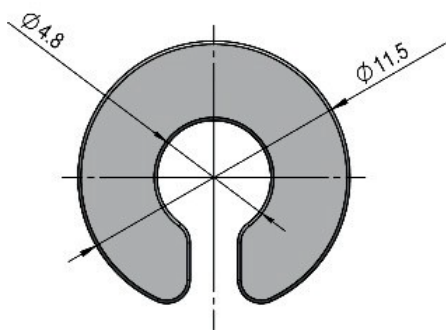
2.4.3 Mounting the Flexible Quick Disconnect (Floating Variant)

The flexible quick disconnect of the floating variant is installed on two sides: In the mold insert and in the mold platen.

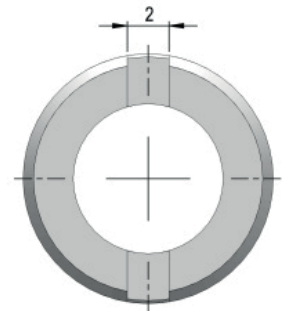
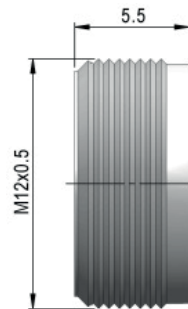
In the mold insert, the mounting nut type 6555A is installed with the mounting tool type 1320A + 1331A with a tightening torque of 1.5 Nm.

In the mold platen, the mounting nut type 6553A is installed with the mounting tool type 1320A + 1330A with a tightening torque of 1 Nm.

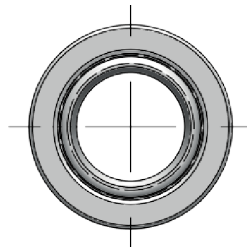
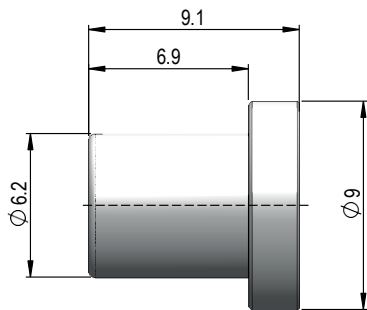
Support ring type 6552B



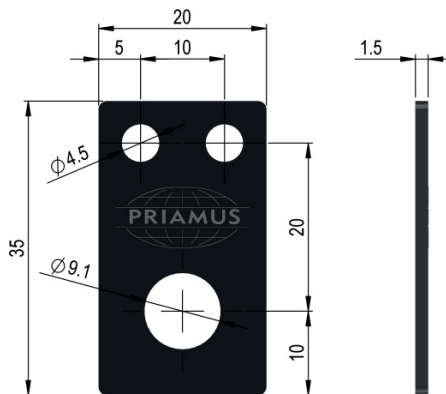
Mounting nut type 6553A



Guiding sleeve type 6554B

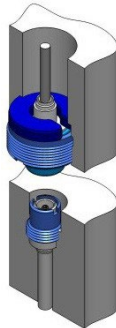


Mounting platen type 6581B

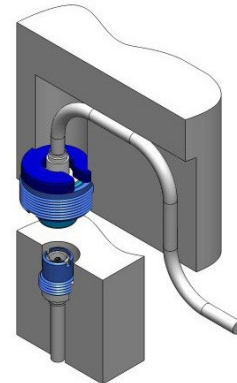


2.4.4 Bore drawings

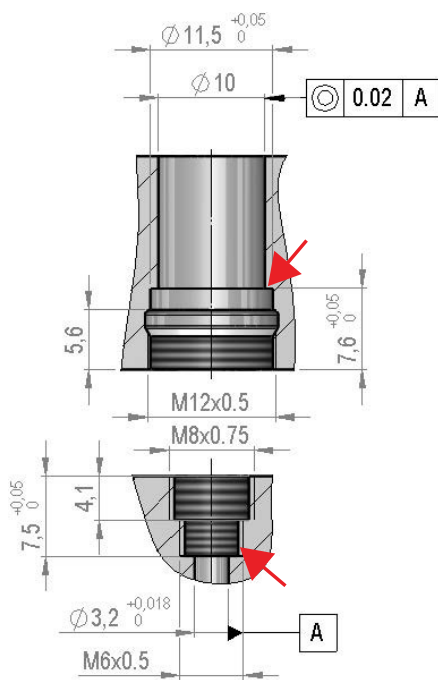
Mounting in bore



Mounting in cable channel



Mounting in bore

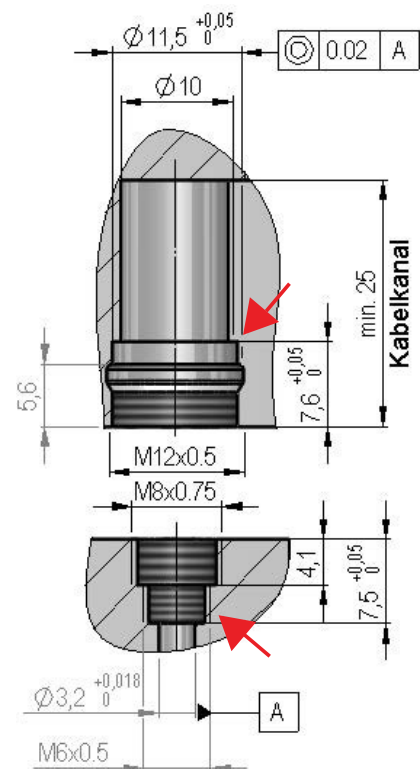


Mold platen

Mold insert

→ Contact surface

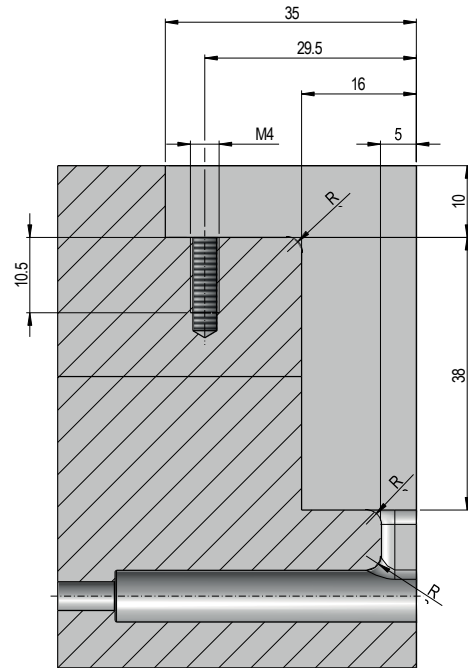
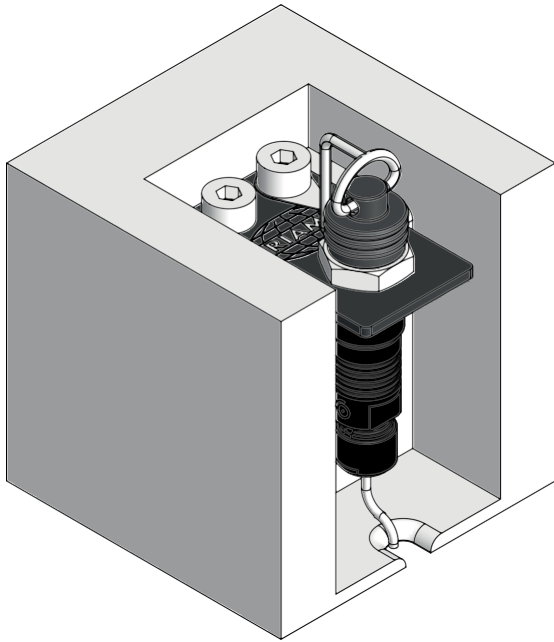
Mounting in cable channel



2.5 Mounting Connector on Mounting Plate

Notice

The protective cover is attached to the mounting plate of the connector and should not be placed too close to the parting line of the mold so that it does not get between the mold halves when the mold is closed.

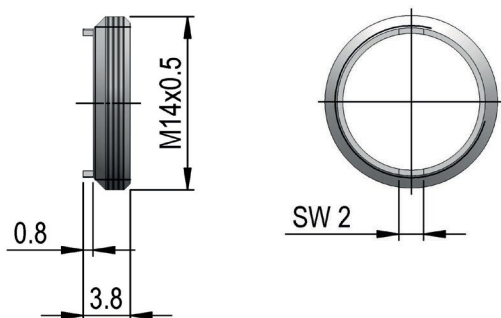


3 Scope of Delivery and Accessories

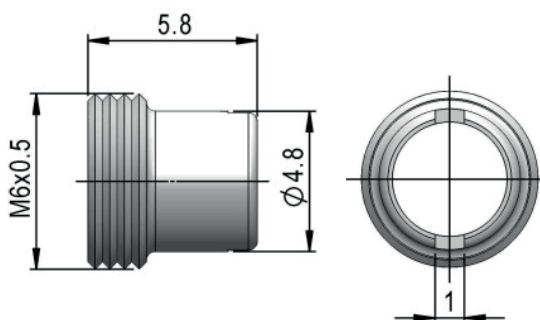
3.1 Scope of Delivery Flexible Quick Disconnects

	6101Ex.xx	6103Ex.xx	6104Bx.xx	6106Ax.xx	6201Ax.xx	6203Ax.xx	6204Ax.xx
Protective cap type 1308A	●	●	●	●			
Protective cap type 1317A					●	●	●
Mounting nut type 6541A (Included in the scope of delivery of the sensor)	●			●	●		
Mounting nut type 6544B (Included in the scope of delivery of the sensor)		●	●			●	●
Mounting nut type 6546A	●	●	●	●			
Mounting nut type 6555A					●	●	●

Mounting nut type 6546A



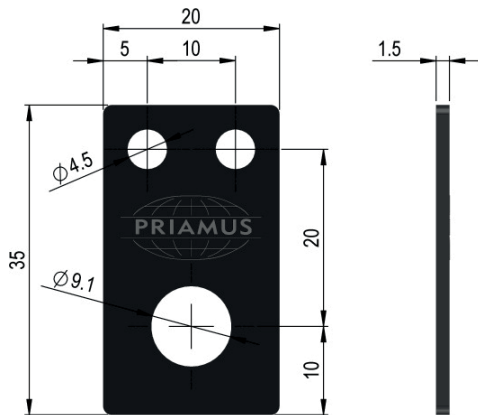
Mounting nut type 6555A



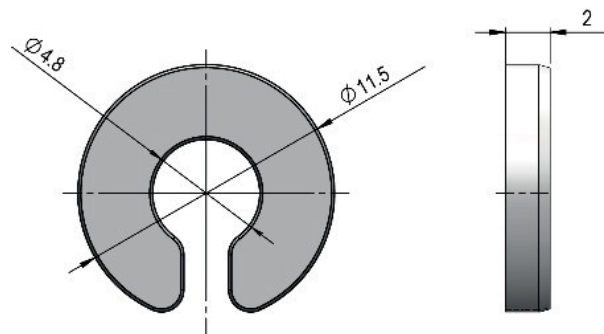
3.2 Scope of Delivery Quick Disconnect Cables

	6100Ex.xx-102	6200Ax.xx-102
Mounting nut type 6546A	●	
Support ring type 6552B		●
Mounting nut type 6553A		●
Guiding sleeve type 6554B		●
Mounting platen type 6581B	●	●
Protective cap type 1308A	●	

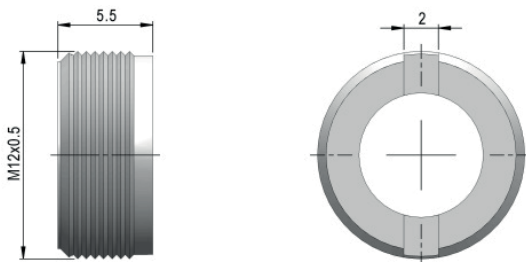
Mounting plate type 6581B



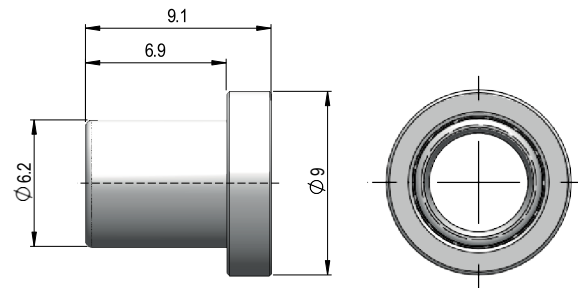
Support ring type 6552B



Mounting nut type 6553A



Guiding sleeve type 6554B



3.3 Accessories Flexible Quick Disconnects

	6101Ex.xx	6103Ex.xx	6104Bx.xx	6106Ax.xx	6201Ax.xx	6203Ax.xx	6204Ax.xx
Assembly tool for mounting nut type 6555A, consists of: torque wrench type 1320A + bit type 1331A					●	●	●
Bit set for flexible quick disconnect type 1322A					●	●	●
Mounting / extracting tool for flexible quick disconnect type 6573A	●	●	●	●			
Mounting / extracting tool for flexible quick disconnect type 6576A					●	●	●
Assembly tool for mounting nut type 6563B	●	●	●	●			
Quick disconnect cable type 6100Ex.xx-102	●	●	●	●			
Quick disconnect cable type 6200Ax.xx-102					●	●	●

3.4 Accessories Quick Disconnect Cables

	6100Ex.xx-102	6200Ax.xx-102
Assembly tool for mounting nut type 6553A, consists of: torque wrench type 1320A + bit type 1330A		●
Mounting / extracting tool for quick disconnect type 6573A	●	
Assembly tool for mounting nut type 6563B	●	
Mounting / extracting tool for quick disconnect type 6576A		●
BlueLine multi-channel connector box type 1195A-8p	●	●
BlueLine pressure and temperature amplifier type 5070A-2p2T	●	●
BlueLine pressure amplifier type 5080A-4p	●	●
BlueLine pressure amplifier type 5080A-16p	●	●
Cables		
Connection cable type 1041Ax, single-channel, with plastic coat Both sides: Fischer connector type S 102 pos. TRIAX	●	●
Connection cable type 1045Bx, multi-channel, with plastic coat Side 1: Fischer connector type S 104 neg., 16-pin (Code 1) Side 2: 4 x Fischer connector type S 102 pos. TRIAX	●	●
Connection cable type 1047Ax, multi-channel, with plastic coat Side 1: Fischer connector type S 104 neg., 16-pin (Code 1) Side 2: Fischer connector type S 102 pos. TRIAX	●	●
Connection cable type 1049Bx, single-channel, with metal coat Both sides: Fischer connector type S 102 pos. TRIAX	●	●
Connection cable type 1054Bx, multi-channel, with plastic coat Both sides: Fischer connector type S 104 neg., 16-pin (Code 1)	●	●
Extension cable type 1043Bx, single-channel, with metal coat Side 1: Fischer connector type S 102 pos. TRIAX Side 2: Fischer connector type KBE 102 neg. TRIAX	●	●

4 Services

4.1 General Terms and Conditions

The following general terms of service apply:

- A delivery for test purposes is declined.
- The customer is responsible for installing and interfacing. Installation for any of the above directly by PRIAMUS will be charged separately.
- Information on interfaces must be provided to PRIAMUS minimum 2 weeks before installation. If this information is not available, PRIAMUS has the right to refuse installation on the agreed date.
- PRIAMUS requires presence of the process/ project manager and plant electrician on the day of installation. Refusal of this support will cause additional cost and will be charged separately, as this could cause unnecessary delays for the start up.
- Waiting times caused by the customer on site will be charged separately.
- Prices for training, installation and other expenditures will be quoted and confirmed in writing.
- Unless otherwise agreed upon, brochures and catalogues are not binding. Data provided for in documentation are only binding in so far as having been expressly stipulated as such. We reserve the right to modify any specification without notice.
- Information and drawings, delivered in addition to the sales documentation, may not be transmitted to any third party. The Customer may not transmit or make use of any information regarding the design or the functionality of PRIAMUS products in any form whatsoever. Any product schematics, drawings or supplemental information are the property of PRIAMUS and considered company confidential for use by direct customer only. In the event of infringement of this clause we retain the right for claiming damages.

4.2 Warranty and Guarantee

Our warranty covers all defects within the agreed warranty period from the date of delivery. The warranty applies to all occurring defects that are proven to have their cause in material defects or faulty manufacturing.

The warranty is limited to replacement or repair of the defective products or components or to reimbursement of the invoice value of the products or components not replaced. Any further warranty is hereby expressly excluded. Replaced products are property of PRIAMUS. The customer is responsible for the replacement costs (i.e. removal, transportation and assembly) of defective parts.

Excluded from our guarantee and liability are all deficiencies of the goods delivered by us, which cannot be proved to have their origin in bad material, faulty design or poor workmanship, those resulting from normal wear (e.g. current consumption, recuperation, weather condition, air pollution, electromagnetic effects in excess of what is considered acceptable, improper maintenance, failure to observe the operating instructions, excessive loading, testing, use of any unsuitable material, influence of chemical or electrolytic action, or resulting from other reasons beyond the supplier's control.

All claims on the part of the Customer, irrespective on what ground they are based, which are not allowed under these general conditions, in particular any claim not expressly mentioned, such as for damages, reduction of price or withdrawal from the contract are excluded.

In no case whatsoever shall the Customer be entitled to claim damages, in particular but not be limited, to loss of production, loss of use, loss of orders, loss of profit and other direct or indirect consequential damage. This exclusion of liability, however, does not apply to unlawful intent or gross negligence on our part, but apply to unlawful intent or gross negligence of persons employed or appointed by us to perform any of his obligations. The Customer is responsible to arrange for and pay for the return shipment to us or to our local representative.