

User Guide for The Perseus Switch Range

D_6, F_6, L_6, P_6, T_6 & V_6

IMPORTANT: READ CAREFULLY BEFORE USE AND KEEP FOR FUTURE REFERENCE

Symbols Used

	CAUTION/Requirement for safe use
	Hazardous area installation requirement



The Perseus must be maintained, installed, repaired & decommissioned by qualified personnel only.



Hazardous area products must be installed in accordance with IEC/EN 60079-14.



The Perseus must not be used outside of its specifications. This may adversely affect performance, product life and may cause a hazard to people, animals and the environment. Check the product's identification label before installation to ensure the correct product has been selected.

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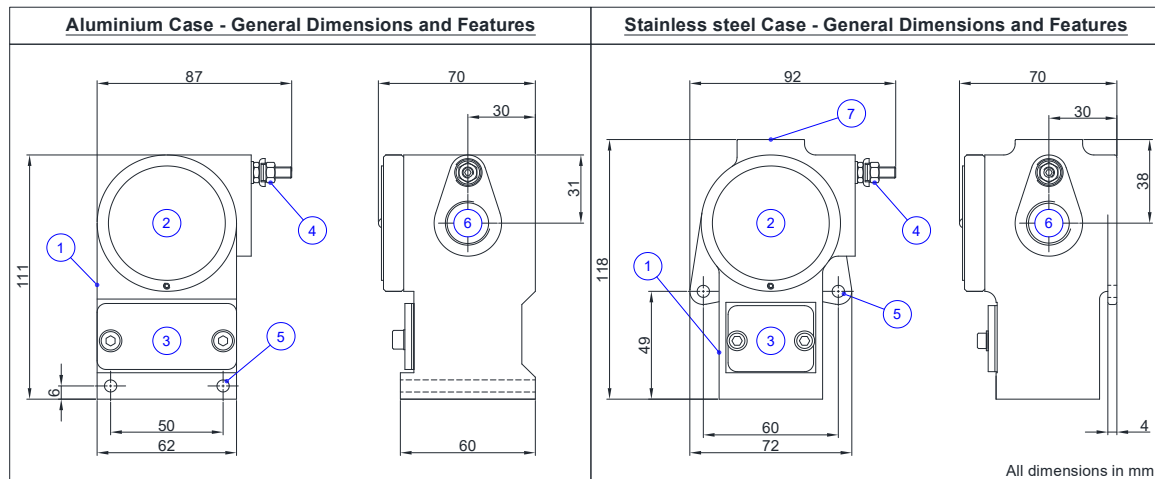
Description of The Equipment

The Perseus is designed to be used in volatile and hazardous atmospheres to sense changes in flow, level, pressure, or temperature using mechanical actuators and converting the physical change into an electrical signal.

Storage

The Perseus can be stored in temperatures of **-40°C to +85°C**, excluding T_6 types with L*/M* ranges that can be stored at **-20°C to 85°C**. If being stored in a damp/humid environment, it is recommended to store the product without its packaging.

General Dimensions & Features

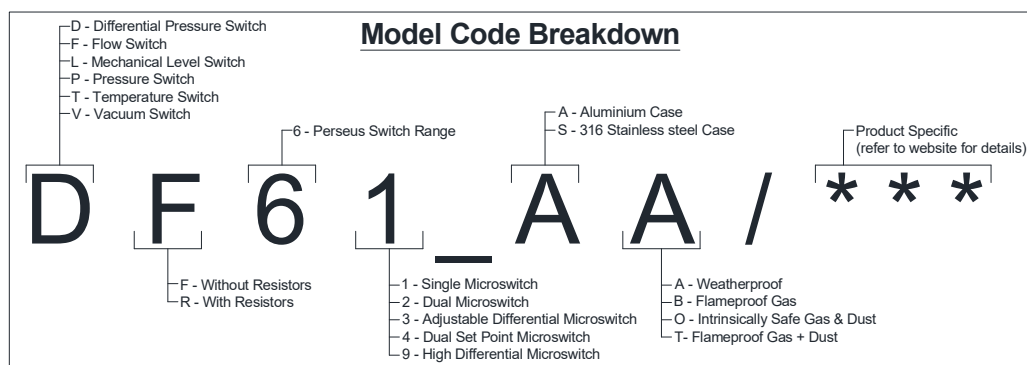


Features	
1	Identification Label
2	Top Cover & Certification Label
3	Adjustment Cover
4	External Earth
5	Ø5.5 mounting holes
6	M20 x 1.5 Side Electrical Entry
7	M20 x 1.5 Top Electrical Entry (option)

Product Identification

Please see the identification label on the left-hand side of the switch case. Ensure that the correct type of instrumentation is selected before installation.

TYPE	Perseus Weatherproof Differential Pressure Switch		
MODEL	DF61AA/***	SERIAL No.	*****
PROCESS TEMP. RANGE	min. to max.		
MAX WORKING PRESSURE	max.		
TAG No.		RANGE	min. setting to max.
Pyropress Limited +44(0)1752 333939 www.pyropress.com			



CE Marking

Perseus products for use in non-hazardous (weatherproof) applications carry a CE mark to signify conformity with the Low Voltage Directive 2014/35/EU.

Perseus products for use in explosive atmospheres carry a CE mark to signify conformity with the ATEX Directive 2014/34/EU.

All Perseus switch types fall within the Sound Engineering Practice category, as defined by chapter 1, article 4, paragraph 3 of the Pressure Equipment Directive 2014/68/EU. For this reason, the CE mark on the Perseus does **not** signify conformance with the Pressure Equipment Directive.

Standards Applied

For Non-Explosive Atmosphere (Weatherproof) Applications:

- EN 61010-1:2010
- IEC 61010-1:2010

For Explosive Atmosphere Applications:

Flameproof, Ex db and Ex tb – (Zones 1 & 2 and Zones 21 & 22) (CAT 2 & CAT 3)

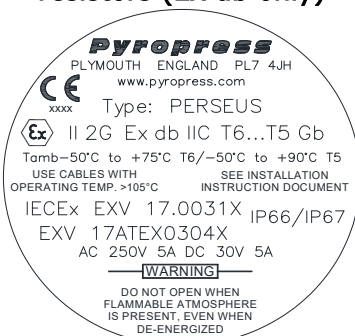
- | | |
|--------------------|---------------------|
| • EN 60079-0:2018 | • IEC 60079-0:2017 |
| • EN 60079-1:2014 | • IEC 60079-1:2014 |
| • EN 60079-31:2014 | • IEC 60079-31:2013 |

Intrinsic Safety, Ex ia – (Zones 0, 1, & 2 and Zones 20, 21 & 22) (CAT 1, CAT 2 & CAT 3)

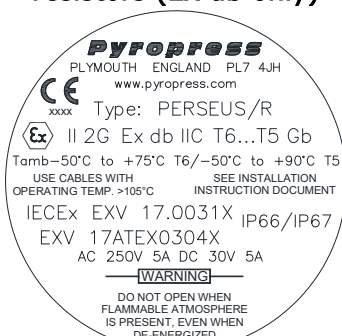
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|--------------------|---------------------|
| • EN 60079-0:2018 | • IEC 60079-0:2017 |
| • EN 60079-11:2012 | • IEC 60079-11:2011 |
| • EN 60079-26:2015 | • IEC 60079-26:2014 |

Hazardous Area Marking

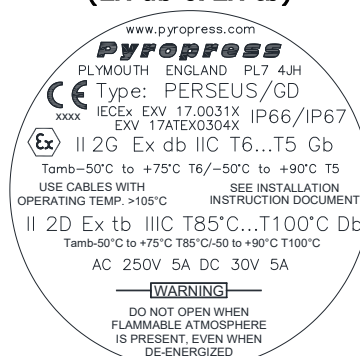
Flameproof gas, without resistors (Ex db only)



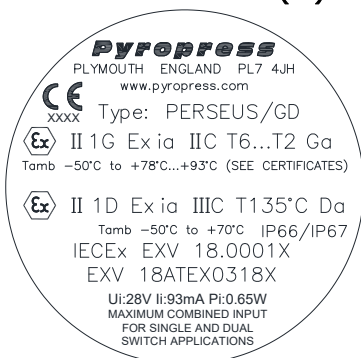
Flameproof gas, with resistors (Ex db only)



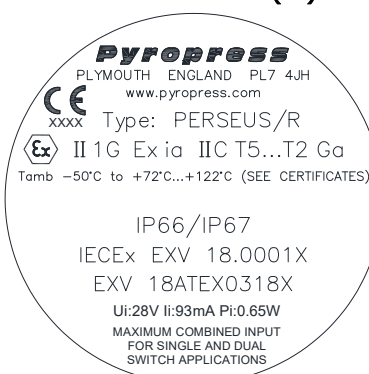
Flameproof gas + dust, (Ex db & Ex tb)



Intrinsically safe, gas + dust without resistors (ia)



Intrinsically safe, gas with resistors (ia)



Ensure the correct protection method has been selected for the application.



Conditions for Safe Use (X Conditions)

Ex db and Ex tb

- Under rated conditions, the cable temperature can reach 9K above ambient temperature. Ensure selection of correctly rated cable for the application.
- Flameproof joints not intended for repair.

Ex ia

- For Ga installations – The equipment may be constructed using aluminium for the housing and internal parts and may only be used when the ignition hazard assessment shows there is no risk of ignition from incandive impact or abrasion sparks.

All Perseus Products

WARNING: End-users are advised to carry out assessments in accordance with the requirements of appropriate, recognised standards. The person or persons undertaking this task must be suitably qualified.

Pressure & Temperature Ratings

Process Temperature:

Please see the product identification label for the process temperature range, max working pressure & range.

Ambient Temperature:

Maximum ambient temperature permissible, changes depending on the Perseus' application.

Type	Process range	Ambient range
T_6 (Rigid Stem Temperature types)	200°C to 240°C range	-40°C to + 75°C
	175°C to 225°C range	
	150°C to 200°C range	-40°C to + 80°C
All other types and ranges	<150°C	-40°C to + 85°C

Upper ambient temperatures will be further restricted if products are:

Ex II 2 G Ex db IIC / Ex II D Ex tb IIIC certified

- Installed in a T6/T85°C environment: +75°C

OR Ex II 1 G Ex ia IIC / Ex II 1 D Ex ia IIIC certified

- Without resistors, installed in a T6 environment: +78°C
- With resistors, installed in a T5 environment: +72°C
- Without resistors, installed in a T135°C environment: +70°C



Upper temperature limits for ambient temperature can be further restricted. If the temperature on the certificate is lower than the temperature range specified on the identification label, the one on the certificate prevails.

Environmental Limitations

- Perseus products are rated for both IP66 & IP67 in accordance with IEC/EN 60529.
- Perseus products should not be installed at altitudes greater than 2000m.
- Contact Pyropress for information regarding shock and vibration limits or SIL information.

Electrical Installation



Weatherproof products

Terminals must not be accessed unless the product has been electrically isolated.



Flameproof (Ex db) and Flameproof + Dust (Ex db & Ex tb) products

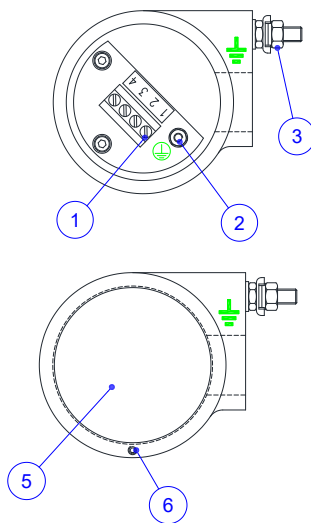
Do not remove the top cover whilst a flammable atmosphere is present, even when de-energized.



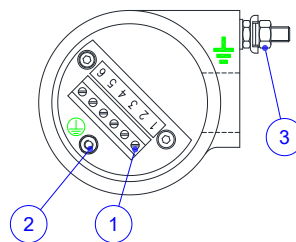
Intrinsically safe (Ex ia) products

The top cover can be removed when the switch is energized, but installation should only be carried out when the product has been electrically isolated.

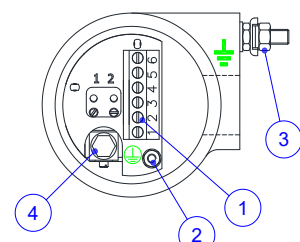
Single microswitch options (codes 1 & 9)



Dual microswitch option (code 2)



Adjustable differential & dual set point options (codes 3 & 4)



Electrical features

1	Slotted Screw Terminal
2	Protective Conductor Terminal
3	External Earth
4	Differential/Second Set Point Adjustment Screw
5	Top Cover
6	1.5mm Hex Screw

Ratings

Weatherproof & Flameproof (Ex db) & Flameproof + Dust (Ex db & Ex tb)	250VAC 5A or 30VDC 5A
Intrinsically Safe (Ex ia)	Ui:28Vdc Ii:93mA Pi:0.65W Ci:0F Li:0H



We recommend that suitably rated cable glands, adaptors, or blanking plugs with an IP66/IP67 rating are fitted.



Flameproof (Ex db) and flameproof + dust (Ex db & Ex tb) certified products must be fitted with appropriately rated Ex db or Ex tb certified cable glands, adaptors or blanking plugs with an IP66/IP67 rating.

Earthing



The Perseus must be earthed to ensure safe use. Use a conductor of at least 4mm² for the external earth & a conductor up to 2.5mm² for the protective conductor terminal.



Flameproof (Ex db), Flameproof + Dust (Ex db & Ex tb) and Intrinsically safe (Ex ia) products should be earthed in accordance with 60079-14.

Over Current Protection



Perseus Weatherproof, Flameproof (Ex db) and Flameproof + Dust (Ex db & Ex tb) switches should be fitted with a maximum of 5A over current protection with the ring or separate breaker suitably located, easily reached and marked as the disconnecting device for this instrument.

Wiring



Cables with an operating temperature greater than 105°C must be used.

The screw terminals can accept conductors of a cross-sectional area of up to 2.5mm² solid or up to 1.5mm² flexible.

All types, excluding the Vertical Reed Level are wired as follows:

	For rising signal	For falling signal
Common	Terminal 1 (and terminal 4)	Terminal 1 (and terminal 4)
Normally Open	Terminal 2 (and terminal 5)	Terminal 3 (and terminal 6)
Normally Closed	Terminal 3 (and terminal 6)	Terminal 2 (and terminal 5)

For **LF6, Reed Level Types**, please see the label on the inside of the top cover.



To prevent damage to the instrument, we recommend wiring the terminals prior to tightening cable gland and carrying out any mechanical installation whilst the mains is disconnected.

To Connect the Terminals

1. Loosen the 1.5mm Hex Screw and unscrew the Top Cover.
2. Wire Terminals and Earthing then tighten to 0.5Nm. **CAUTION:** Do not over tighten.
3. Tighten any cable glands and adaptors. **CAUTION:** ensure wires are not pulled tight.
4. Screw the Top Cover back on ensuring the O-ring seal is still in position.
5. Re-tighten the 1.5mm Hex Screw to 1Nm.



Ensure the 1.5mm Hex Screw is re-tightened as this retains the flamepath threads and prevents people from accessing the terminals without tools.

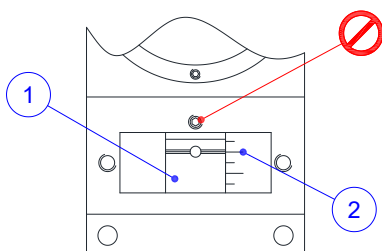


The information on the top cover is unique to the unit it is sold with. Do not mix the top covers.

Set Point Adjustment

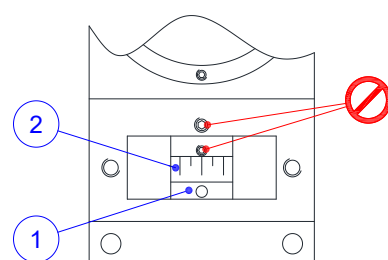
The Perseus is supplied calibrated as requested at point of sale. If a fixed set point was supplied, no further adjustment should be required. If required, the set point can be adjusted by following the steps below.

Adjustment Chamber (excluding T₆ Rigid Stem Temperature, L₆ Level switches)



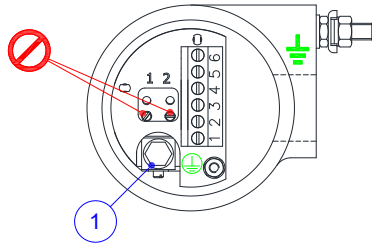
Adjustment Features	
1	Adjuster Screw
2	Scale (for indication only)

Adjustment Chamber (T₆ Rigid Stem Temperature ONLY)



1. Remove the Adjustment Cover screws (use 4mm Hex Key for Aluminium Switch Case and 3mm hex key for Stainless Steel Case) Washers, and Gaskets. **CAUTION:** Do not lose any of these components as they ensure an environmental seal. Contact Pyropress for spares if required.
2. Insert a 3mm Tommy Bar (or 2.5mm Hex Key) into the hole in the Adjuster Screw and rotate the Adjuster Screw to the desired set point using the Scale. For all ranges excluding the Rigid Stem Temperature, the groove in the Adjuster Screw should align with the marking on the Scale. For Rigid Stem Temperature adjustment, the centre point of the switch is the setting point.
3. Replace the Adjustment Cover, Gasket, Washers and Screws. Tighten the Screws to 1.5Nm. **WARNING:** Take care not to over tighten as this will distort the Gasket.

Differential & Second Set Point Adjustment (Optional)



Adjustable Differential & Dual Set Point Features

- | | |
|---|--|
| 1 | Differential/Second Set Point Adjustment Screw |
|---|--|



Weatherproof products

Terminals must not be accessed unless the product has been electrically isolated.



Flameproof (Ex db) and Flameproof + dust (Ex db & Ex tb) products

Do not open whilst a flammable atmosphere is present, even when de-energized.



Intrinsically safe (Ex ia) products

The Top Cover can be removed, and adjustment can take place whilst the mains is live if the ignition hazard assessment shows there is no risk of ignition from incandive impact or abrasion sparks.

1. Loosen the 1.5mm Hex Screw and unscrew the Top Cover.
2. Using a 7mm Nut Spinner (7mm Socket Drive suitable) rotate the Differential/Second Set Point Adjustment Screw clockwise to increase the differential/the distance between set points and anti-clockwise to decrease the differential/the distance between set points.
3. Screw the Top Cover back on ensuring the O-ring seal is still in position.
4. Re-tighten the 1.5mm Hex Screw to 1Nm.



Ensure the 1.5mm Hex Screw is re-tightened as this retains the flamepath threads and prevents people from accessing the terminals without tools.

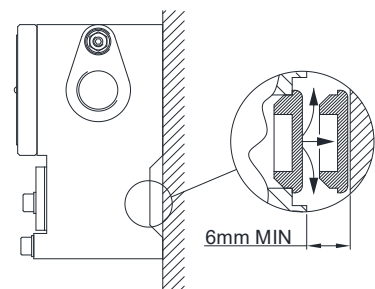
Mechanical Installation

For this part, first read the **General Information** section and then navigate to your product type.

General Information



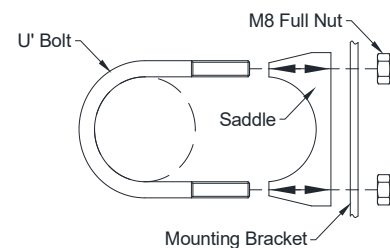
In the case of pressure seal failure, all Perseus switches vent from a detachable Blow-disc located in the rear of the product. Should any pressure seal fail, the process media will vent through this hole. Ensure a gap between any wall or bulkhead of 6mm.



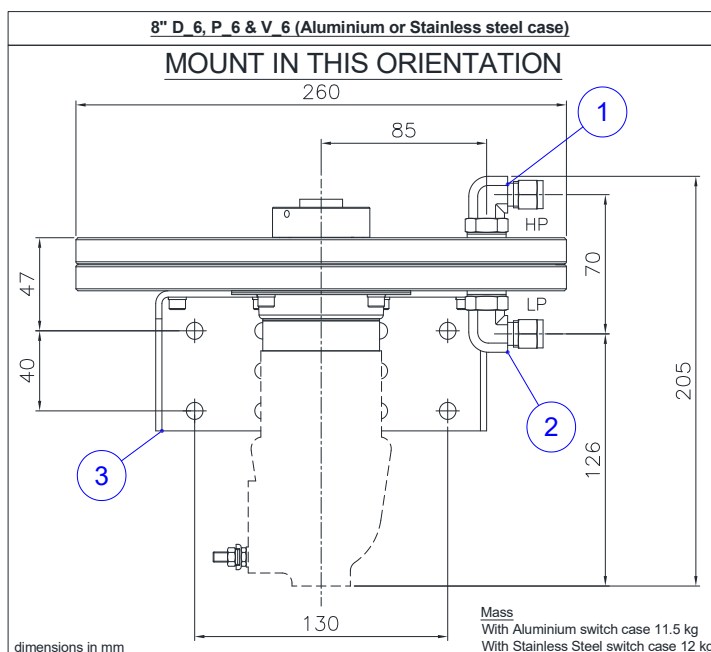


Before undertaking any mechanical installation, ensure that all switch wiring has been completed and left disconnected at the mains side and any holes (if) required for mounting have been drilled.

- The Perseus can be mounted in any orientation (excluding the 8" D_6, P_6 & V_6 Differential Pressure, Ultra low Pressure & Vacuum and Level types).
- If products are being fitted to a system where fluid flow can become unstable and cause pressure to pulsate or surge rapidly, it is imperative that a means of protecting the sensing element be provided; by adding a pressure snubber or over-range protector for example.
- If products are being fitted to a system where the process temperature could exceed the limits stated for that configuration (**see the identification label**), they must be remote mounted to allow for enough heat dissipation.
- Products should always be mounted such that any free movement is minimal. To avoid damage from vibration or accidental impact, products mounted via the process connection should be properly supported.
- We recommend that PTFE tape is used on tapered process connections (to improve the seal and prevent cold welding) and appropriately sized bonded seals on parallel process connections.
- All compression fittings must be sufficiently tightened to prevent leakage.
- The Perseus can be supplied with accessories such as chemical seals, gauges and manifolds. Please refer to any separate documentation supplied when installing accessories not covered by this user guide.
- For "case mounted" Perseus, feed 2 X M5 screws (or equivalent) with washers through the switch case and tighten.
- We recommend that anti-vibration washers are used when mounting the product.
- For products fitted with a **2" (52mm) pipe bracket**, place the 'U' Bolt around the pipe, slide the saddle onto the U-Bolt, feed the switches mounting bracket onto the 'U' Bolt and then tighten the 2 M8 full nut.



8" - D_6, P_6 & V_6, (Differential Pressure, Pressure & Vacuum)



8" D_6, P_6 & V_6 Differential Pressure, Ultra Low Pressure & Vacuum

1	High-Pressure Entry
2	Low-Pressure Entry
3	Bracket

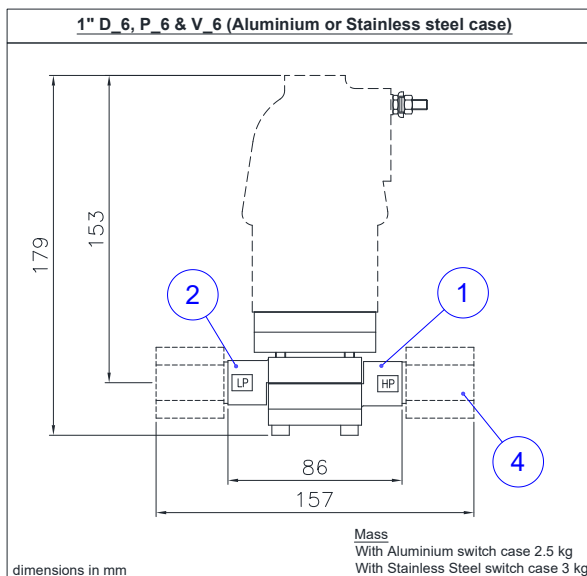
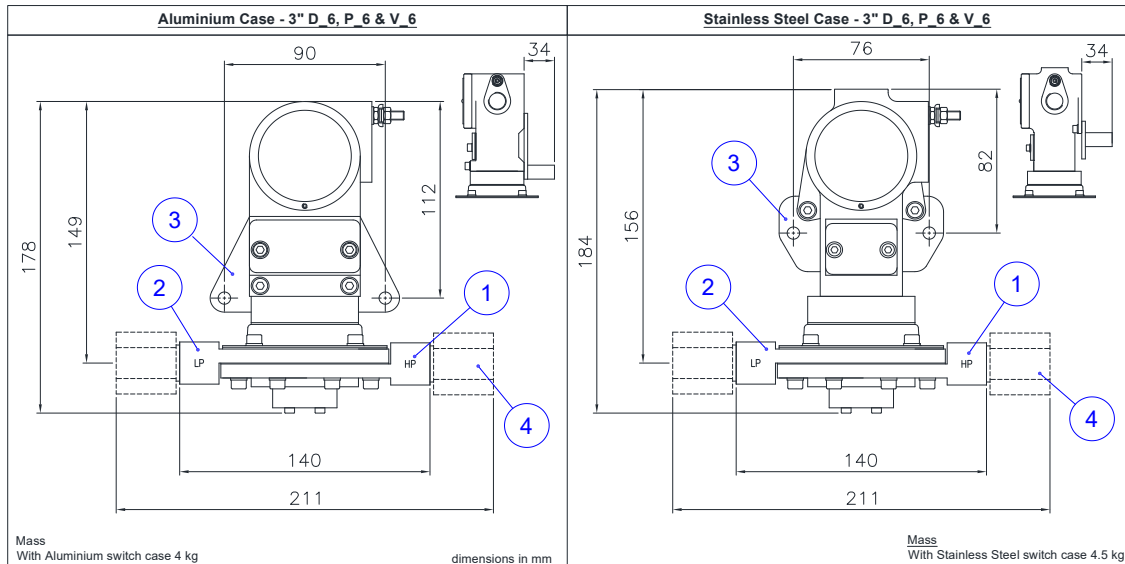
This version **must** be mounted as shown. If mounted in any other orientation, the switch may not operate within its specification.

For P_6 versions the Low-Pressure Entry is fitted with a vented plug.

For V_6 versions the High-Pressure Entry is fitted with a vented plug.

To Mount: Feed 4 x M8 screws (or equivalent) with washers through the bracket.

1" & 3" - D_6, P_6 and V_6 (Differential Pressure, Pressure & Vacuum)



**1" & 3" D_6, P_6 & V_6
Differential Pressure & Vacuum**

1	High-Pressure Entry
2	Low-Pressure Entry
3	Bracket
4	1/2" Process Adaptor (option)

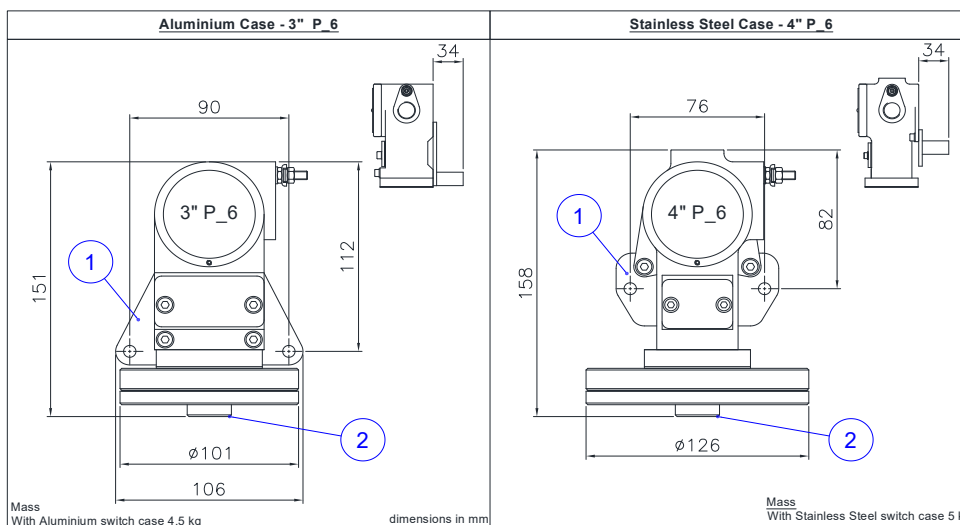
For P_6 versions the Low-Pressure Entry is fitted with a vented plug.

For V_6 versions the High-Pressure Entry is fitted with a vented plug.

To mount 3": Feed 2 x M6 Screws (or equivalent) with washers through the Bracket.

To mount 1": Case mounted.

3" & 4" - P_6 (Low Pressure)

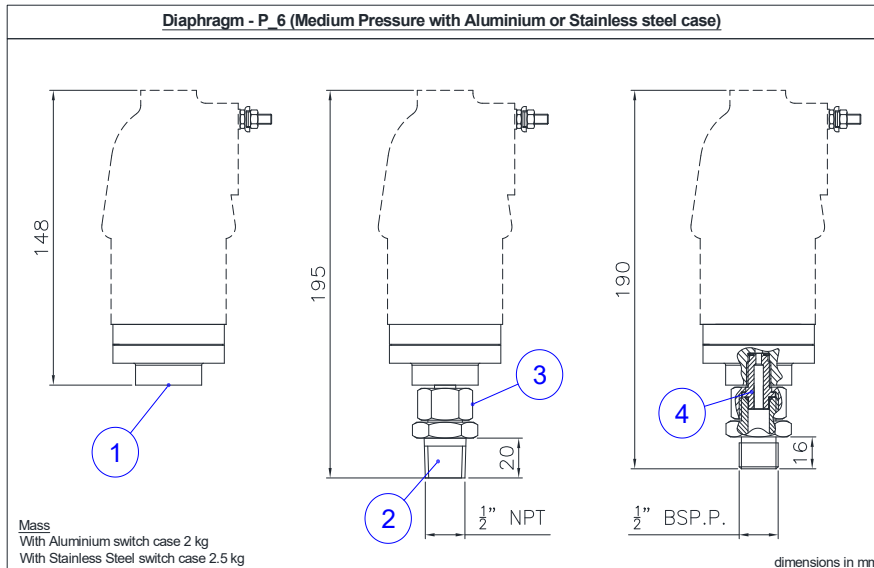


**3" & 4" P_6 Low
Pressure**

1	Bracket
2	Process Entry

To mount: Feed 2 x M6 (or equivalent) Screws with washers through the Bracket.

Diaphragm - P_6 (Medium Pressure)



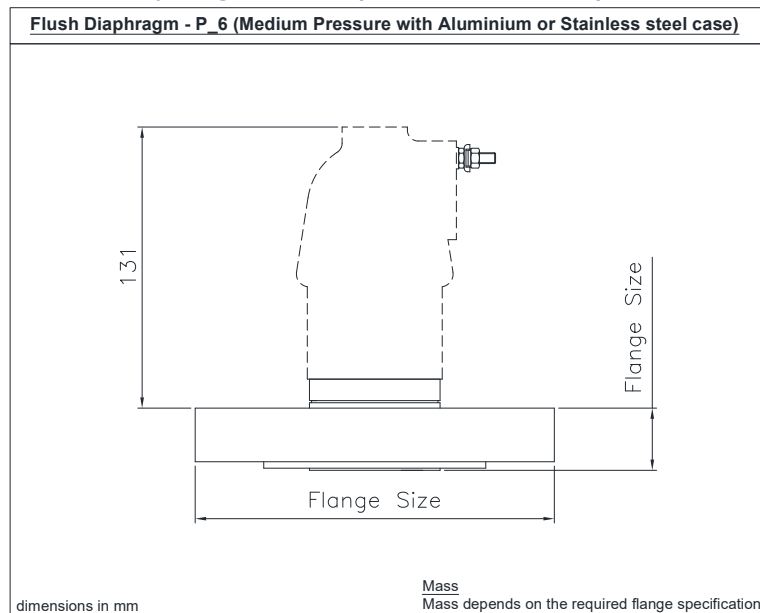
Diaphragm P_6 Medium Pressure

1	Female Process Entry
2	Stem head
3	Coupling Nut
4	Internal Nipple

To mount: Case mounted or swivel connection.

Swivel Connection: Loosen Coupling Nut from the Stem Head → Tighten the Stem Head into your assembly → Holding the Switch Case in the desired position, tighten the coupling nut.

Flush Diaphragm – P_6 (Medium Pressure)



Pyropress supply many types of flanges based on system requirements. Flanges should be installed in accordance with their relevant standards (ANSI/ASME or ISO for example).

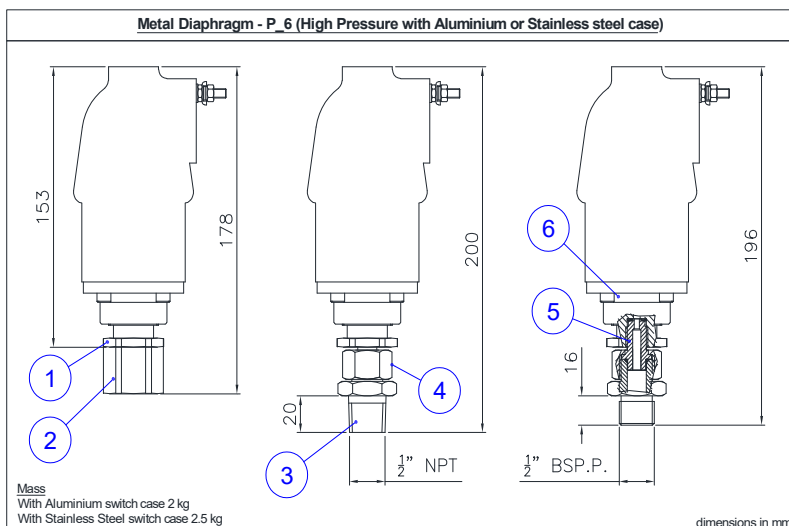
Take note of any marking etched or stamped into the flange to ensure safe use.

Check flange surfaces are clean to prevent contamination.

Ensure any gasket material is suitable for the process medium.

If liquid gasket is being applied, ensure the manufacturers cure time is adhered to prevent leakage.

Metal Diaphragm & Piston - P_6 (High Pressure)

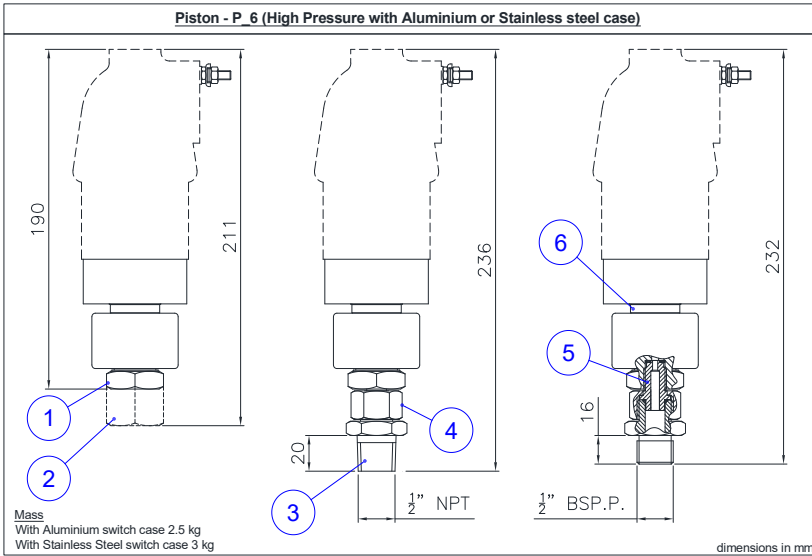


Metal Diaphragm & Piston P_6 High Pressure

1	1/4" Female Process Entry
2	1/2" Female Process Entry
3	Stem Head
4	Coupling Nut
5	Internal Nipple
6	Sealing Band

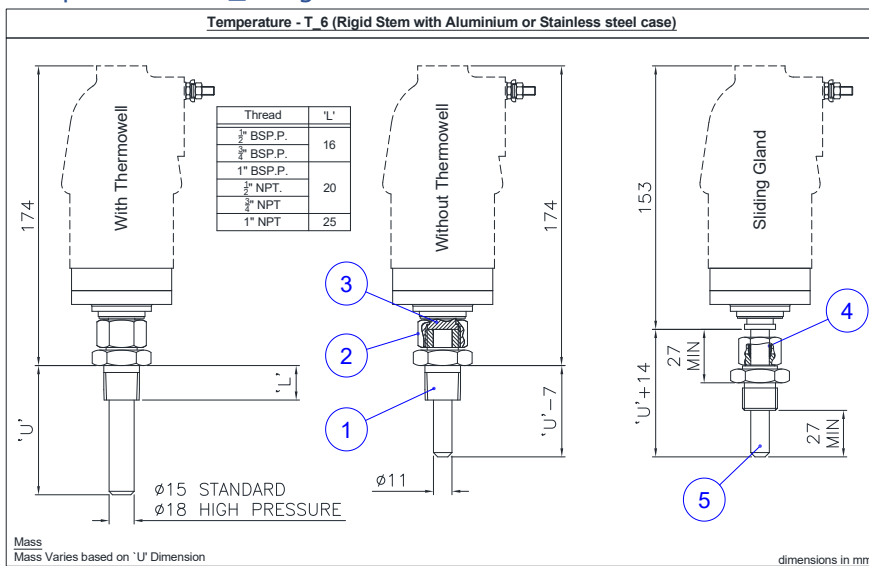
To mount: Case mounted or swivel connection.

Swivel Connection: Loosen coupling nut from the Stem Head → Tighten the Stem Head into your assembly → Holding the Switch Case in the desired position, tighten the Coupling Nut.



The Sealing Band allows process media to vent if a pressure seal fails.

Temperature – T_6 Rigid Stem



Temperature T_6 (Rigid Stem)

1	Stem Head/ Thermowell
2	Coupling Nut
3	Nipple
4	Olive
5	Temperature Probe

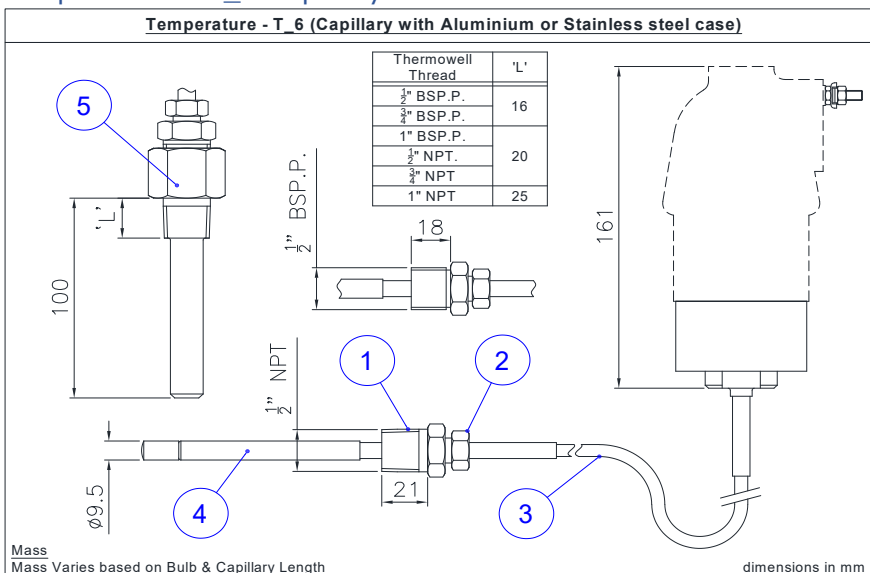
To Mount: Loosen coupling nut from the Stem Head/Thermowell → Tighten the Stem head/Thermowell into your assembly → Holding the switch case in the desired position, tighten the Coupling Nut.

For variations installed with a flange please follow this part and refer to the "Flush Diaphragm" mechanical installation section.



For Sliding Gland types: Torque coupling nut to 20Nm. Do not over tighten as this will damage the olive/temperature probe.

Temperature – T_6 Capillary



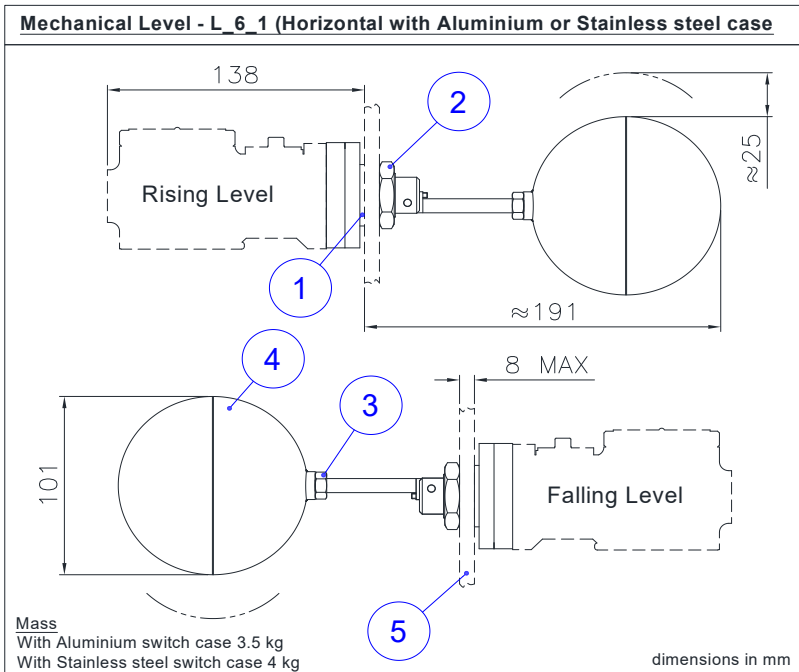
Temperature T_6 (Capillary)

1	Stem Head
2	Coupling Nut
3	Capillary
4	Bulb
5	Thermowell

To mount: Case mounted.

Process Entry Connection: Loosen Coupling Nut from the Stem Head/Thermowell → Tighten the Stem Head/Thermowell into your assembly → Holding the Switch Case in the desired position, tighten the Coupling Nut.

Mechanical level – L_6_1 Horizontal

**Mechanical Level L_6_1
(Horizontal)**

1	Bonded Seal
2	Locknut
3	Nut
4	Float
5	Tank Wall

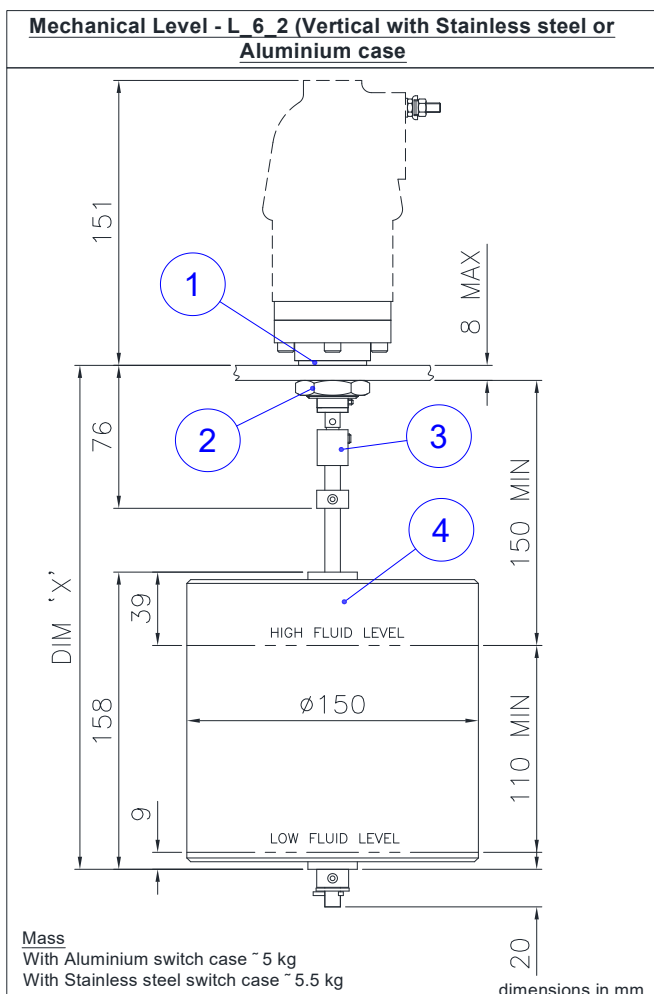
Tank wall hole size: Ø27mm

Mount in the orientation shown depending on the required set point.

To mount: remove the Locknut but keep the Bonded Seal in place → feed the assembly through the Tank Wall → Holding the Switch Case in the desired position, tighten the Locknut → screw the Float onto the assembly, holding the float with your hand, tighten the nut.

For variations installed with a flange please follow this section and refer to the “Flush Diaphragm” mechanical installation section.

Mechanical Level – L_6_2 Vertical

**Mechanical Level L_6_2
(Vertical)**

1	Bonded Seal
2	Locknut
3	Locking Collar
4	Float

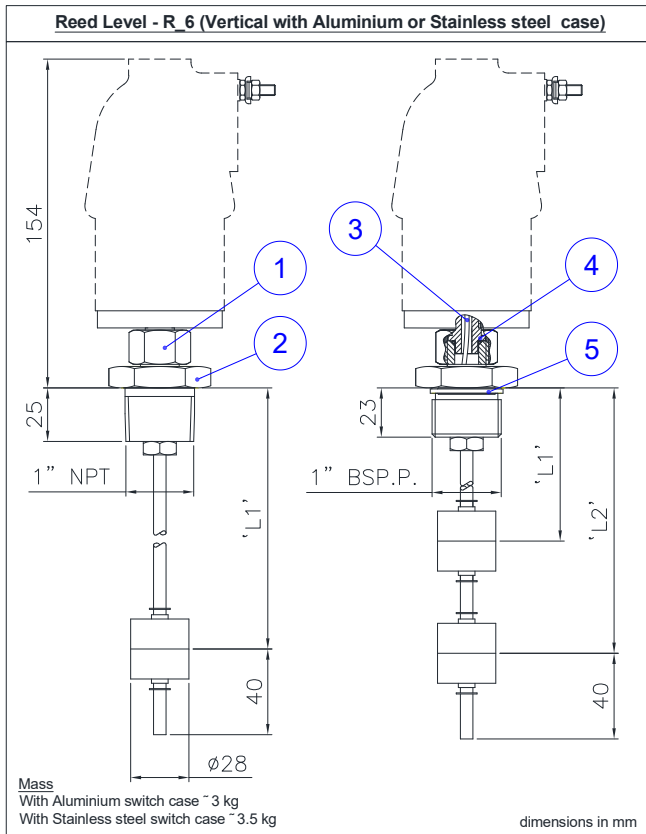
Tank wall hole size: Ø27mm

Mount in the orientation shown.

To mount: remove the Locknut but keep the Bonded Seal in place → Feed the assembly through the Tank Wall → Holding the Switch Case into the desired position, tighten the Locknut → Take the Float assembly, feed the Locking Collar over the shaft and tighten the Set Screw in the Locking Collar.

For variations installed with a flange please follow this section and refer to the “Flush Diaphragm” mechanical installation section.

Reed Level – L_6 Vertical



Reed Level R_6 (Vertical)	
1	Coupling Nut
2	Stem Head
3	Internal Wiring
4	Internal Nipple
5	Bonded seal (BSP.P. only)

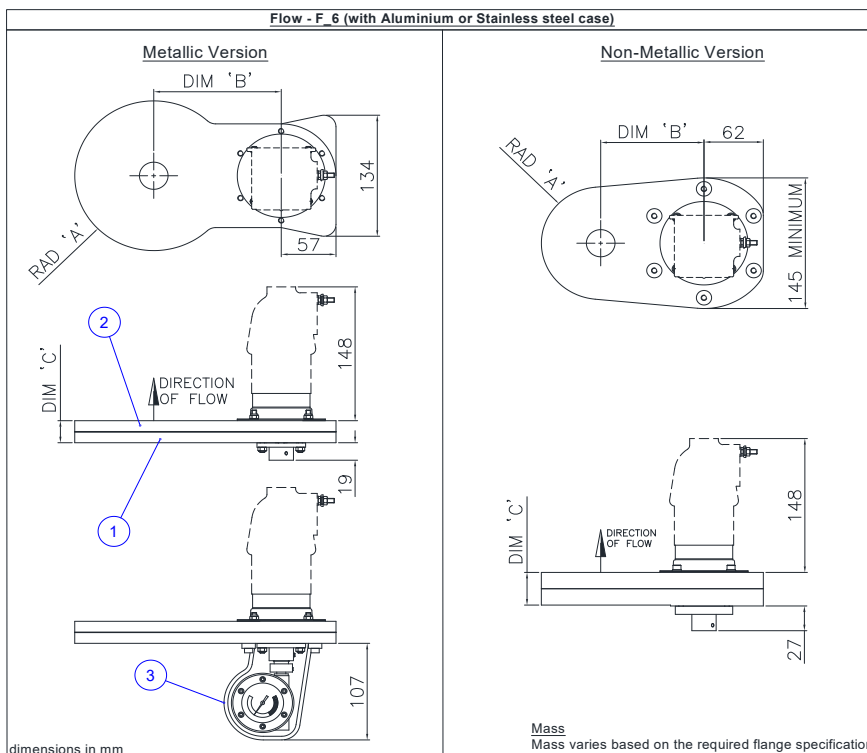
To mount: Screw the whole assembly into the tank by the Stem Head and lock tight → For BSP.P., ensure supplied Bonded Seal is in place → slightly loosen the Coupling Nut and rotate the Switch Case into the desired position → retighten the Coupling Nut.



DO NOT ROTATE SWITCH CASE MORE THAN 270° FROM THE STEM HEADS LOCKED POSITION. DOING SO COULD DAMAGE THE INTERNAL WIRING.

For variations installed with a flange please follow this section and refer to the "Flush Diaphragm" mechanical installation section.

Flow – F_6 All types



Flow - F_6	
1	Inlet Plate
2	Outlet Plate
3	Indicator (option)

Pyropress supply many types of flanges based on system requirements. Flanges should be installed in accordance with their relevant standards (ANSI/ASME or ISO for example).

Check flange surfaces are clean to prevent contamination.

Ensure any gasket material is suitable for the process medium.

If liquid gasket is being applied, ensure the manufacturers cure time is adhered to prevent leakage.

Maintenance



Before undertaking any maintenance, ensure that the Perseus is de-energised and isolated from pressurised media. Check that any surfaces are cool to the touch.



Flameproof (Ex db) and Flameproof + Dust products (Ex db & Ex tb) must not have their top covers removed when an explosive atmosphere is present even if de-energised.

Maintenance procedure	Frequency*
Check process and electrical connection remain tight	Every 6 months
Cycle product if not in use	
Check ePTFE vents for damage (low pressure only)	
Replace seals and diaphragms	Every 3-5 years
Replace microswitch assemblies	Every 5-10 years

*depending on usage

Troubleshooting

Problem	Likely cause	Solution
Leak of media	Diaphragm/O-ring failure.	Replace diaphragm/O-ring.
Shift in set point	- Excessive shock or impact. - Diaphragm or O-ring at end of life. - Wear of adjustable differential or Dual set point mechanism.	- Re-adjust the set point. - Replace diaphragm/O-ring. - Replace the adjustable differential mechanism.
Slow response	- Media too viscous. - Blockage in system. - Valve not fully opened within system.	- Use a chemical seal. - Ensure lines are free of debris. - Ensure valves are fully opened.
No signal or intermittent signal	- Microswitch failure. - Diaphragm/O-ring failure. - Loose electrical connection.	- Replace microswitch. - Replace diaphragm/O-ring. - De-energize the system and tighten electrical connection.

Note: only replace with Pyropress original parts

Spares & Repair

Diaphragm, pressure seal and environmental seal kits are available for the following switch types.

- Vacuum (V_6)
- Ultra-Low Pressure (P_6)
- Low Pressure (P_6)
- Medium Pressure (P_6)
- High Pressure Piston (P_6)
- Differential Pressure (D_6)

Fully assembled and pressure tested High-Pressure Piston (P_6) and High-Pressure Metal Diaphragm (P_6) assemblies are available for onsite repair.

Standard and High differential Single/dual microswitch assemblies are also available.

All switches should be thoroughly tested before re-introducing them into service. It is likely the set points will vary slightly from their original setting and will require recalibration.

All switch types can be returned to Pyropress for Repair and overhaul.



Before returning Switches to Pyropress, ensure that the process medium has been fully decontaminated.

Materials of Construction

External parts

- 316 stainless steel
- Aluminium (Aluminium Switch Case only)
- 304 stainless steel (Aluminium Switch Case only)
- Glass reinforced epoxy resin (Rigid Stem only)
- Phosphor Bronze (Metallic Flow only)
- Brass (Metallic Flow only)
- 303 & 304 stainless steels (Rigid Stem without thermowell only)
- Aluminium (Rigid Stem with Sliding Gland only)
- PH15-7Mo (1" types only)
- Gunmetal (Metallic Flow only)
- Brass (Metallic Flow only)
- Polyvinyl chloride (Metallic Flow only)
- Cotton fabric reinforced epoxy resin (Non-Metallic Flow only)
- Acetal (Non-Metallic Flow only)

Fasteners

- A2 & A4 stainless steels

Wetted parts

- 316 Stainless steel (standard)
- Monel® 400 (if specified)
- Inconel (if specified)
- Hastelloy® C276 (if specified)
- Polypropylene (if specified)
- Nylon (8" types & if specified)
- Viton®
- Nitrile
- PTFE
- EPDM
- Neoprene
- Kalrez® (Temperature types)
- Silicone (Temperature types)
- Neoprene cork (Metallic Flow only)

Diaphragms & pressure seals (upon request)

Disposal

Ensure components that have come into contact with harmful substances are dealt with correctly.



Temperature stems contains mineral oil – do not ingest and avoid eye or skin contact. Flush eyes with copious amounts of water wash skin with soap and water. If vomiting occurs due to ingestion or persistent irritation occurs, seek medical attention.

Mineral oil should be disposed of at an authorised collection point. Do **not** discharge into drains, soil, or water.

Electrical components should be disposed in accordance with local regulations.

Most of the components are made from stainless steel or aluminium. Once the electrical components have been removed the switch can be recycled.

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