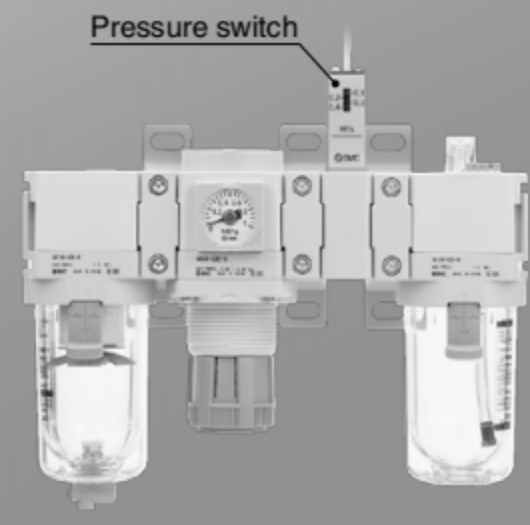
HANUMAN

16% lighter
Weight: 62 g
*Previous type 74 g
Compared with IS1000

11% smaller
Overall height: 52 mm
*Previous type 58.5 mm
Compared with IS1000

- **100 V AC/DC specifications**
- **Set pressure range**
  0.1 to 0.4 MPa
- **Service life: 5 million cycles**

- **Can be connected to Modular type F.R.L. units.**



ZSE20 ISE20
ZSE30 ISE30
ZSE40 ISE40
ZSE10 ISE10
ISE70
ZSE80 ISE80
PS
ISA3
ISA2
ISE35
PSE
IS
ISG
ZSM1

Specifications

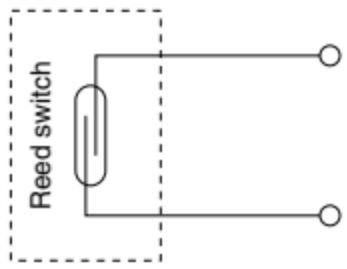
Model	IS10-01
Fluid	Air/Inert gas
Proof pressure	1.0 MPa
Max. operating pressure	0.7 MPa
Set pressure range	0.1 to 0.4 MPa Option: 0.1 to 0.6 MPa
Ambient and fluid temperature	–5 to 60°C (No freezing)
Contacts	1a
Error of scale	±0.05 MPa or less
Hysteresis	Fixed 0.08 MPa or less
Repeatability	±0.05 MPa or less
Wiring specifications	Grommet, Lead wire length: 0.5 m Option: 3 m, 5 m
Enclosure	Equivalent to IP40
Port size	1/8
Weight	62 g

Switch Characteristics

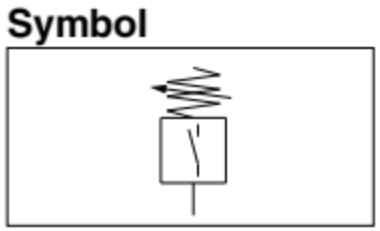
Max. contact capacity	AC 2 VA, DC 2 W		
Voltage AC/DC	24 V or less	48 V	100 V
Max. operating current and range	50 mA	40 mA	20 mA

Electrical Circuit

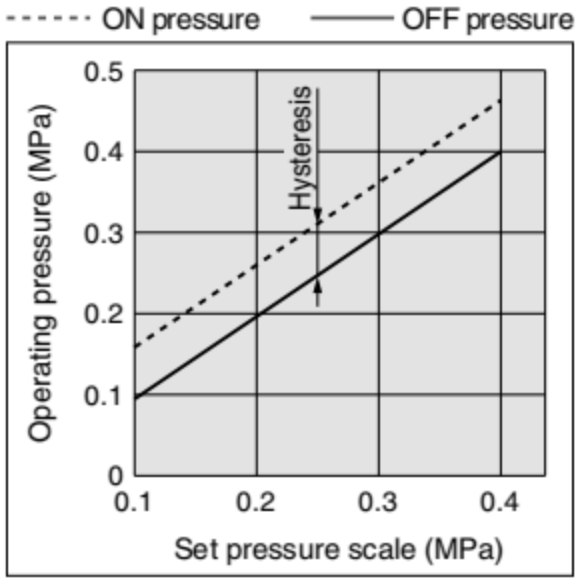
Up to 100 V AC/DC



Symbol



Set Pressure Range



How to Order

IS10 – ❶ 01 ❷ – ❸

		Symbol	Description
❶	Thread type	Nil	R
		N	NPT
❷	Seal	Nil	None
		S	With seal
❸ Semi-standard	a Set pressure range	Nil	0.1 to 0.4 MPa
		6 Note1)	0.1 to 0.6 MPa
	b Lead wire length	Nil	0.5 m
		L	3 m
		Z	5 m
	c Scale plate pressure unit	Nil	MPa
		P Note2)	Both MPa and psi

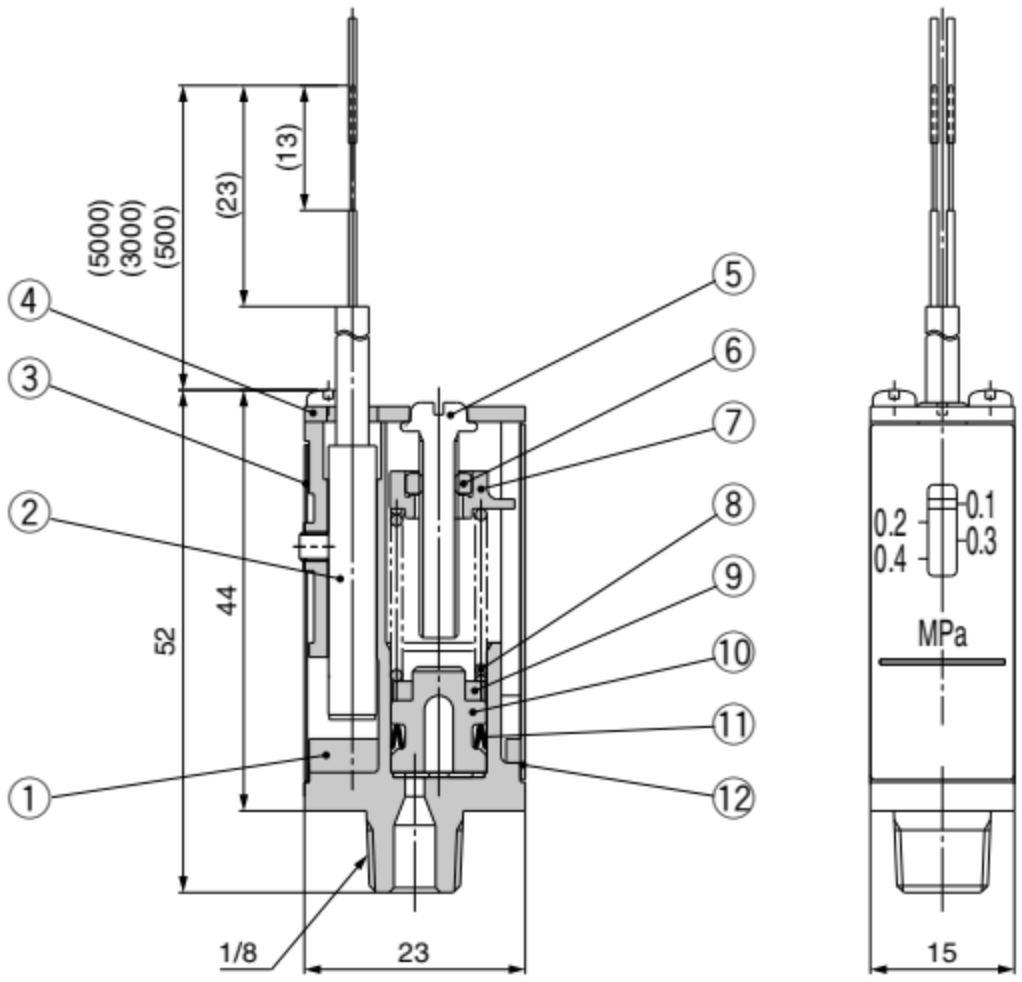
Semi-standard: Select one option each in **a** through **c**. Place them in alphanumerical order.

Example) IS10-N01-6PZ

Note 1) Set pressure range of 6P(L, Z) is 0.2 to 0.6 MPa (30 to 90 psi).

IS10 Series

HANUMAN



Component Parts

No.	Description	Material
1	**Body**	ZDC
2	**Switch assembly**	—
3	**Shield plate**	Steel sheet
4	**Cover**	Steel sheet
5	**Adjusting screw**	Brass
6	**Hexagon nut**	Brass
7	**Indicator**	PBT
8	**Spring**	Stainless steel
9	**Magnet**	—
10	**Piston**	POM
11	**Seal piston**	NBR
12	**Scale plate**	PC

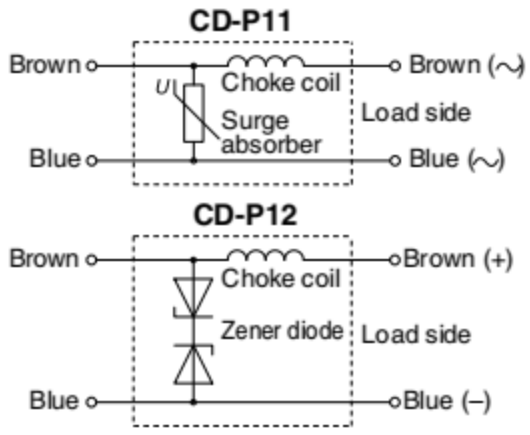
Wiring

⚠Warning

1. **Connect load before connecting with power source.**
   The switch will break instantly if no load is connected.
2. **Make the wiring length as short as possible. When the load which is operated by the pressure switch is an inductive load, or the lead wire is 5 m or longer, use the contact protection box shown in the table below.**
   Otherwise, damage to the switch can result.

Part no.	Voltage	Lead wire length
CD-P11	100 VAC	Switch side: 0.5 m Load side: 0.5 m
CD-P12	24 VDC	

- **Internal circuit of contact protection box**



- **How to connect contact protection box**
  Connect the lead wires from the body and the contact protective box side indicated “SWITCH.” Make the lead wire as short as possible, within 1 m.

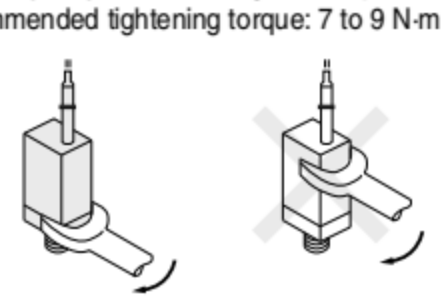
3. **Dimensions of lead wire**
   Enclosure: ø 3.4
   Insulator: ø 1.1
   Conductor: ø 0.64

For details, refer to the operation manual.

Mounting

⚠Warning

1. **When handling the product, hold the body and do not apply tensile stress to the power supply cable.**
   Otherwise, damage may occur to the product.
2. **Avoid repeatedly bending or stretching the lead wire.**
   Wiring which applies repeated bending and tensile stress to the lead wire can break the circuit. If the lead wire is damaged, causing operation failure, replace the product with a new one.
3. **Do not drop or bump the product when handling the product.**
4. **Apply a wrench to the bottom of the product when screwing.**
   Turning it by applying a wrench on the top of the main body may cause damage to the product.
   Recommended tightening torque: 7 to 9 N·m



5. **Mounting direction is available in either horizontal or perpendicular.**

Operating Environment

⚠Warning

1. **Avoid using a switch in a magnetic environment.**
   It may cause a malfunction.
2. **Do not use in such an environment, where water or oil is splashed.**
   Since it is the open type construction, if water or oil make an ingress into the internal parts, the electric circuit will be corroded and may result in a malfunction or damage.
3. **Avoid vibration.**
   Vibration may cause a malfunction or may cause setting to be incorrect.

Pressure Source

⚠Warning

1. **Operating fluids are either air or inert gas exclusively.**
   Never use other fluids. Never use in an environment where flammable fluid or gas is used. Since this is not an explosion-proof construction, it may lead to an explosive disaster.
2. **Not applicable to corrosive gas and liquid.**
   Otherwise, damage to the body or liquid leakage can result.
3. **Avoid use in vacuum applications.**
   Switch may be imploded.
4. **This product (IS10 series) uses a reed switch. If the chattering of the output signal is a problem, choose a solid state type pressure switch or adjust by PLC.**

Pressure Setting

⚠Warning

1. **Set within the display pressure range of the scale plate.**

⚠Caution

1. **The pressure can be adjusted by rotating the adjustment screw. The red indicator goes up and down according to the adjustment.**
   Rotate the screw clockwise for high pressure.
2. **Use a screwdriver of a size suitable for the groove of the adjustment screw.**
3. **Scale of switching set display is the set value at the pressure drop.**
4. **The ON signal is output through the pressure set on the scale plate, to which the hysteresis is added for detecting the ON-pressure signal.**
5. **The pressure displayed on the scale plate is a guideline only.**
   Measure the accurate pressure with the pressure gauge.