

Back pressure compensated flowmeters

Nozzle flow indicators

For MIG/MAG, TIG welding applications



BPC flowmeters for MIG/MAG, TIG welding

BPC (Back pressure compensated) flowmeters for Argon, Argon+CO₂ for use in MIG/MAG, TIG welding, available in single scale (Argon), and dual scale (Argon and CO₂). This is available in 4-40LPM, 2-25LPM range as standard. Other ranges are available on request. The flow tubes and outer cover are made from Polycarbonate. The body is

made from high quality extruded brass sections. Available in chromium plated or self coloured lacquer finish.

BPC flowmeters are available in two different configuration: Inlet opposite to control knob, and inlet at right angle to control knob.

The flowmeters are calibrated at $2\text{Kg}/\text{cm}^2$ back pressure as per the industry standard. Flowmeters are guaranteed for accuracy and the errors are well within the limits required by ISO 17662. See error boundary curve (VDI/VDE 3513, Sh-2). The flowmeters are calibrated with international traceability and do not require regular calibration since the accuracy as declared in the “error boundary curves” are guaranteed.

Following are the standard ranges of BPC flowmeters. The ranges are given in LPM. Other ranges can be manufactured against specific request.

	Tube code			
	AS	AG	BS	BG
Air	5-45	2-25	2-28	1-15
Argon	5-40	2-22	2-25	1-13
CO ₂	5-40	2-22	2-25	1-13
Helium	20- 125	10- 70	10- 80	5-45
Hydrogen	30- 180	10- 100	10- 110	5-60
Nitrogen	5-45	2-25	2-28	1-15
Oxygen	5-44	2-24	2-25	1-13

Nozzle flow indicator, for welding applications

Nozzle flowmeters are used in MIG/MAG welding to verify the flow at the nozzle, as required by ISO 17662/ISO 3834. There are two scales printed on the flowtubes –for Argon and CO₂. The cups of the device fits any make of MIG/TIG torch and are made from silicone rubber which can withstand much higher temperature than normal elastomers. This ensure long life of the cups even when used on hot nozzles. The flow tubes and outer tubes are made from Polycarbonate.

These flowmeters do not require regular calibration since the accuracy as declared in the “error boundary curves” (VDI/VDE 3513, Sh-2) are

guaranteed. The flowmeters are calibrated with international traceability.



Flowmeters for special applications, corrosive fluids, and customised to specific requirements

We manufacture customized flowmeter for special applications. These may be manufactured according to customer specified fluid, scale length, frame size, flowrate, flow units, fitment requirements, cosmetics requirements, logo, etc.


For opaque liquids, (e.g., palm oil, etc.,) we can make steel tube or glass tube flowmeters with magnetic coupled indicators according to your requirements.

Flow indicators with NO/NC contacts can be made according to your specifications.

Glass tube flow meters with high low settable alarms (only NO/NC contact provided) can be made according to your

requirement.

We manufacture flowmeters with PVC, PTFE, lead lining for use with corrosive fluids e.g., nitric acid, HCl, caustic soda solution, Chlorine, etc. **The CMH range of flowmeters can be supplied with appropriately lined wetted parts for use with corrosive fluids.**



We have a large range of such customized flowmeters. We keep regular stock of many of these customized flowmeters and these can be delivered at short notice. If your requirements do not fall in our standard range, kindly enquire. We will find out if any of the customized item matches your requirement, and then we can immediately supply. If your requirement does not match, we will make it specially for you !

Some of the customized flowmeters we manufacture regularly are shown below:

