

D0G and D0H

Through flow sensor fitting

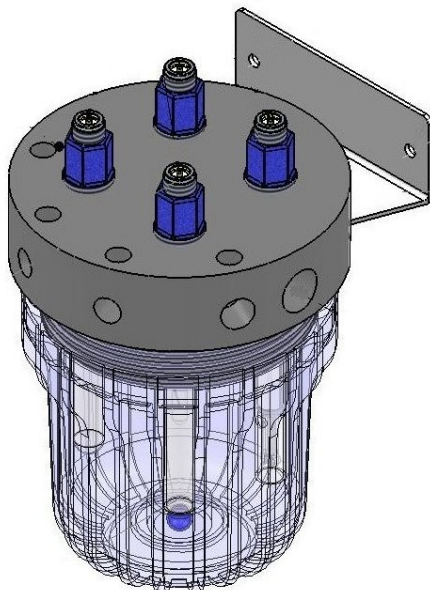
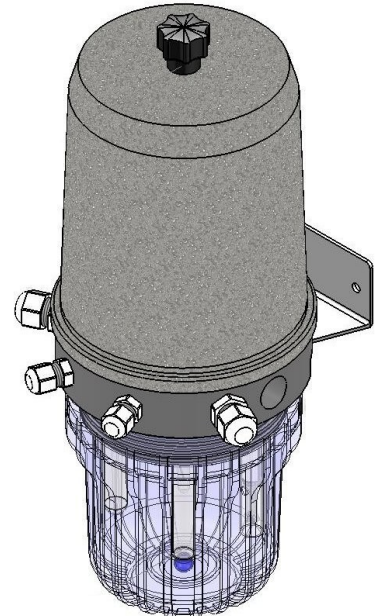
Through flow sensor fitting Mod.D0G and D0H are designed to house up to four of the following electrodes: pH, ORP, ISE, conductivity, dissolved oxygen, temperature and solution ground contact (only supplied upon request).

These sensor fittings are supplied c/w brackets for wall mounting and can be easily installed. The through flow installation allows to position the sensors where they can be comfortably accessed for cleaning and maintenance. The cell can also be directly mounted on the pipeline using rigid pipings.

The sensor fitting can be supplied without upper cap (Mod.D0G) or c/w an alluminium cap with IP 54 protection degree.

Advantages

- Sturdy and compact execution
- Easy to install
- Suitable for contemporary measure of up to 4 parameters
- Suitable to house pH, ORP, ISE, Conductivity, Dissolved Oxygen, Temperature sensors
- Extremely low maintenance requirements



Operating principle and realization

Mod.D0G and D0H cells can house up to 4 electrodes besides the solution ground contact (available upon request). The probe is made in PVC and Polycarbonate and it is supplied c/w brackets and accessories for wall mounting. Hydraulic connections are two, 1/2" F for sample inlet and drain. The cell can also be directly mounted on the pipeline where the sample is drawn for the measure using rigid piping for sample inlet and sample outlet. (Be sure to connect sample inlet to the IN connection and the sample outlet to the OUT connection). The lower vessel, that is fixed to the probe through a threaded connection, can be used as calibration vessel.

These cells include 4 PG 13,5 threaded connections for the sensors and are supplied c/w 4 plastic inserts (to close the holes when not in use) and 4 sets of PG 13,5 threaded nuts, with O-ring and gland for the installation of electrodes and cells.

Calibration & Maintenance

This cell has very low maintenance requirements: it is recommended to clean the cell and the electrodes at periodical intervals defined by the operators on the basis of his own experience of the specific process. After the cleaning always operate a check of the sensitivity of the measuring chains. The calibration can be operated either by comparison to properly calibrated portable instruments or filling the vessel with solutions with known value of the parameter to be calibrated. Calibration frequency is to be defined by the operator according to specific process requirements.

D0G and D0H

Technical Specifications

Applicable electrodes:	see list
Body material:	PVC/PC; Aluminuim cap for Mod.D0H
Operating temperature (*):	5 to 50°C
Storage temperature:	0 to +50 °C
Operating pressure:	2 bar (**)
Sample flow rate:	<0,5 l/min
Vessel volume:	approx. 0,4 l
Process connections :	q.ty 2, 1/2" F
Mounting:	wall mtg, fixing bracket included; direct mounting on the pipeline through rigid pipings
Dimensions:	Mod.D0G: h 172 mm x Ø 105 mm; Mod.D0H: h 350 mm x Ø 105 mm
Weight:	Mod.D0G approx. 1.0 Kg, Mod.D0H approx. 1,3 kg

(*) Operating temperature must be in agreement with specifications given for each sensor installed.

(**) Operating pressure must be in agreement with specifications given for each sensor installed.

Allowed sensors to be installed into D0G and D0H cells are the following:

MEASURE	DESCRIPTION	Mod.
pH	Combined electrode.....	101GEL or 101BB
	or Simple pH measuring electrode.....	S101L
	+ Reference electrode.....	301GEL or 301BB or 301L
pH electrode c/w integral temperature sensor:	Combined pH electrode c/w integral temperature sensor.....	101GELx(AorB) (specify deisred cable lenght: 1, 5 10 or 15 m)
	Combined pH electrode c/w integral temperature sensor.....	101BBx(AorB) (specify deisred cable lenght: 1, 5 10 or 15 m)
ORP	Combined electrode.....	201GEL (Pt or Au) 201BB (Au or Pt)
	o Simple ORP measuring electrode.....	S201LI (Pt or Au)
	+ Reference electrode	301GEL or 301BB or 301L
pH and ORP	Simple pH measuring electrode.....	S101L
	+ Simple ORP measuring electrode.....	S201LI
	+ Reference electrode	301GEL or 301BB or 301L
ISE, chlorides	Ion selective electrode for chlorides.....	201CI
Conductivity	Conductivity cell.....	401L
	or Conductivity sensor c/w temperature sensor.....	401Lx(B,C or D) For conductivity cell c/w integral temperature sensor the D0G or D0H cell must be
D.O.	Dissolved oxygen cell	332P(1,2or3)
Temperature	Temperature sensor Pt100	T0x2xxx
	Temperature sensor c/w q.ty 2 internal Pt100	T0A2C

Warning ! when the cell is to be used under pressure the electrodes must be selected accordingly. Contact Your supplier for correct choice of electrodes.

D0G and D0H

Order code breakdown

	D0	x	x	x	x
Through flow cells	D0				
Type of probe 4 parameters, PVC/PC 4 parameters, PVC/PC c/w protection cap		G H			
Fixed Code			0		
Probe material of construction Standard, PVC/PC (aluminium cap for D0H) Special execution				A Z	
Fixed Code					0

Accessories included in the supply

Mounting bracket and accessories;

Kit P/N 115PL61367 including 4 plastic inserts and 4 sets of PG 13,5 threaded nuts, with O-ring and glands.

Optional Accessories

pH 7,00 buffer solution..... T/101-7x

pH 4,00 buffer solution..... T/101-4x

pH 9 buffer solution..... T/101-9x

where x= A : 250 ml bottle; x = B : 500 ml bottle; x = C: 1000 ml bottle.

Known conductivity solution for the calibration of conductivity, 250 ml bottle..... T/401-A

Specify desired conductivity value among: 1,278 mS, 11,67 mS and 102,09 mS, other upon request.

Known ORP value standard solution, 468 mV, 250 ml bottle..... T/201-468A

Known ORP value standard solution, 220 mV, 250 ml bottle..... T/201-220A

Junction box Mod.S/366

