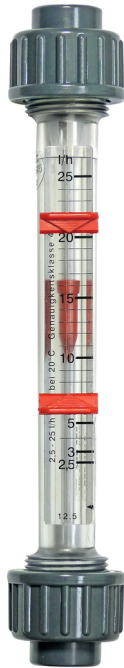


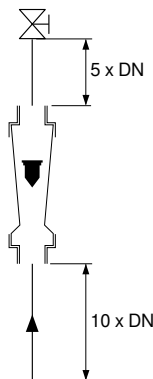
Small plastic flow indicator PDP



PDP: Variable area flow indicator



Contacts Z42 or Z40



Recommended mounting

- Direct reading
- All wet parts in plastics
- Materials: PVC, PSU, PVDF, EPDM
- Scales from 2.5 up to 1,000 l/h of water
Other scales: Air in Nm³/h, HCl and NaOH.
- Option: Adjustable contacts

APPLICATIONS

PDP series are ideally suited for continuous measurement of flow for air and neutral, basic or acidic liquids.

DESCRIPTION

PDP indicator applies the principle of variable area flow-meter: the flow raises a diver in a conical tube expanding the cross section of fluid passage. The diver moves up proportionally to the flow-rate (diver is commonly named "float").

Standard equipment includes a graduated scale in l/h of water at 20 °C. In options there are specific scales: Air in Nm³/h; HCl at 30...33 %; NaOH at 30 % & 50 %. See data -sheet 731-04

Precautions for mounting:

Flow indicators must be installed vertically with rising fluid. It is recommended to have a length upstream of 10 x ND and downstream of 5 x ND.

TECHNICAL FEATURES

| | |
|-----------------------------|---|
| Pressure limit | 10 bar max. at 20 °C |
| Temperature limits at 1 bar | PVC: 0 ... +50 °C (Water) PSU (Polysulfone): 0 ... +90 °C (Max. 60 °C with PVC fittings) PVDF (option) on request |
| Graduated scales | l/h (Standard for water at 20 °C) |
| Specific scales | Air in Nm ³ /h (1 to 9 bar absolute pressure) HCl (30 ... 33 %); NaOH (30 % and 50 %) |

Materials

| | |
|--------------------|---|
| Measuring tubes | PVC or PSU (Polysulfone) |
| Diver and stoppers | PVDF |
| Seals | EPDM (standard) - FPM in option |
| Unions | PVC for solvent welding |
| Fittings | Standard: PVC Unions for solvent welding Options: See the table "Fittings" |

Contacts Z42 and Z40

The flow indicator must have a diver with a built-in magnet (PVDF-A)

| | |
|-----------------|--|
| Switching power | Max. 10 W / 12 VA; 230 V AC; 0.5 A |
| Operation | Z42: Change-over contact, N.O. without flow Z40: Change-over contact, N.C. without flow |

Protection IP 65 - Pluggable terminal block

Ambient temperature 0... +55 °C

Overloads and inductive or capacitive loads may damage the contacts. It is recommended to use a contact protection like a relay ES 2001 (see data-sheet 250-02).

EC Conformity: The instrument meets the legal requirements of the current European Directives

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Small plastic flow indicator
PDP

16-04-2019

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DEB

731-03/1

CODE NUMBERS AND REFERENCES

| PDP Type | ND | D [mm] | R | Range Flow [l/h] | ΔP [mbar] | Code | | | |
|----------|----|--------|------|------------------|-------------------|---------|---------|---------|---------|
| | | | | | | PVC | PVC-A | PSU | PSU-A |
| 2.5 | 10 | 16 | 3/8" | 2.5 ... 25 | 4.5 | 731 700 | 731 750 | 731 800 | 731 850 |
| 5 | 10 | 16 | 3/8" | 5...50 | 4.5 | 731 701 | 731 751 | 731 801 | 731 851 |
| 10 | 10 | 16 | 3/8" | 10 ... 100 | 4.5 | 731 702 | 731 752 | 731 802 | 731 852 |
| 15 | 15 | 20 | 1/2" | 15 ... 150 | 4.4 | 731 703 | 731 753 | 731 803 | 731 853 |
| 20 | 15 | 20 | 1/2" | 20 ... 200 | 4.4 | 731 704 | 731 754 | 731 804 | 731 854 |
| 30 | 25 | 32 | 1" | 30 ... 300 | 8.1 | 731 705 | 731 755 | 731 805 | 731 855 |
| 50 | 25 | 32 | 1" | 50 ... 500 | 8.1 | 731 706 | 731 756 | 731 806 | 731 856 |
| 100 | 25 | 32 | 1" | 100 ...1,000 | 8.1 | 731 707 | 731 757 | 731 807 | 731 857 |

ΔP : Pressure drop, water at 20 °C
PVDF models: on request

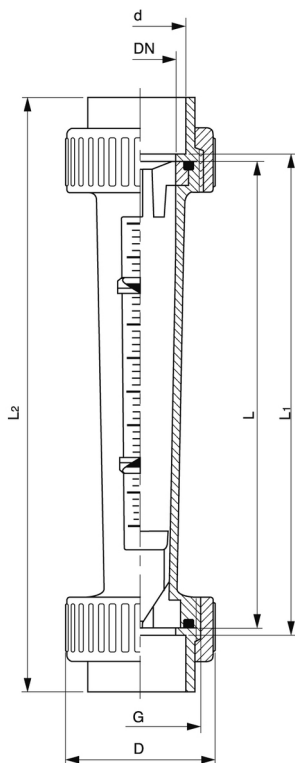
Fittings:

| ND | Ø | FPM seals | Female threads | | | PPH smooth couplings | Flanges | |
|----|----|-----------|----------------|----------|---------|----------------------|---------|---------|
| | | | Cast iron | AISI 316 | PVC | | PVC | PPH |
| 10 | 16 | P53 955 | 730 195 | 730 105 | 730 101 | 730 102 | 730 106 | 730 107 |
| 15 | 20 | P53 56 | 730 200 | 730 205 | 730 201 | 730 202 | 730 206 | 730 207 |
| 25 | 32 | P53 959 | 730 300 | 730 305 | 730 301 | 730 302 | 730 306 | 730 307 |

Contacts:

| Code | Reference | Description |
|---------|-----------|--|
| 730 998 | Z42 NO | Contact Z42, Max. 12 VA / 230 V / 0.5 A, Change-over, N.O. |
| 730 999 | Z40 NF | Contact Z40, Max. 12 VA / 230 V / 0.5 A, Change-over, N.C. |

DIMENSIONS



| ND [mm] | d | R | BSP | D [mm] | L [mm] | L1 [mm] | L2 [mm] | Mass [kg] |
|---------|----|------|--------|--------|--------|---------|---------|-----------|
| 10 | 16 | 3/8" | 3/4" | 35 | 165 | 171 | 199 | 0,08 |
| 15 | 20 | 1/2" | 1" | 43 | 185 | 191 | 223 | 0,13 |
| 25 | 32 | 1" | 1 1/2" | 60 | 200 | 206 | 250 | 0,24 |

Dimensions are for standard PDP with PVC unions.

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731-03/2

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