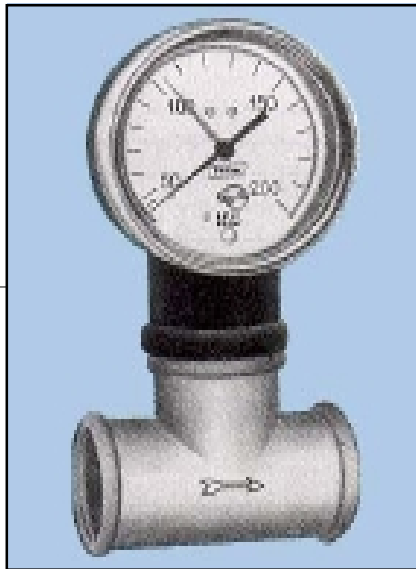




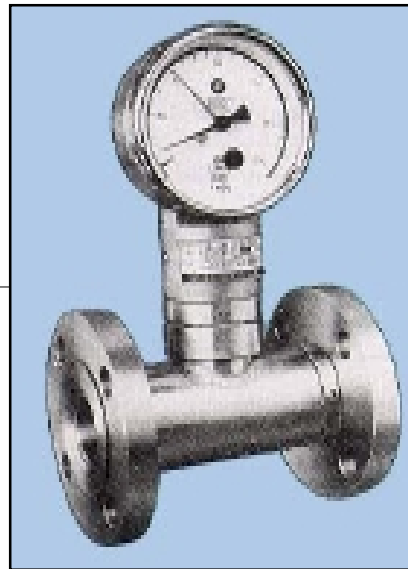
DIRECT READING FLOW METERS

UZ

- NO PRIMARY ELEMENTS ● INDICATION IN DESIRED FLOW UNITS ●
- THREADED OR FLANGED CONNECTION ● CONTROL SWITCHING OPTION ●



SCREWED ENDS



FLANGED ENDS

SWITZER style UZ Direct Reading Flow Indicators/Indicating Switches are versatile instruments designed to accept different paddle sizes to handle flow. These are available with either 304 or 316 SS wetted parts. Inline versions with screwed or flanged ends are available suitable for line sizes from 15 to 50 mm as standard.

The easy to fix design reduces installation cost and down time and also eliminates complexity involved in conventional flow measuring methods which warrant primary flow elements and secondary flow measuring devices. Simple mechanism ensures high reliability and near zero failures. A spring supported paddle is deflected by the flow which actuates the metering unit that is completely isolated from the flow chamber

by means of a bellows seal. The metering gear unit transduces the paddle movement into a pointer travel on a calibrated scale of $250^{\circ} \pm 10^{\circ}$ for direct flow indication.

For on-off control a sub-miniature microswitch and a 'red' set pointer are arranged on a separate gear-cam assembly in such a way that switching point can be adjusted throughout the scale range. The switch setting is adjustable by varying the position of the microswitch on the gear assembly from the front by means of a retractable knob. The position of the red set pointer indicates the exact flow setting. When the indicating pointer reaches the pre set flow rate it actuates the microswitch. The switch function is indicated by a face mounted double function Red / Green LED.

GENERAL SPECIFICATION

Type	Flow indicator / indicating switch	Accuracy	$\pm 3\%$ of maximum flow
Case	Pressed sheet steel weatherproof to IP:65	Switching	Optional through snap acting SPCO microswitch
Dial	4½"	Switch Rating	5A 110 / 230V AC
Window	Clear acrylic	Switching Deadband	10 to 15% of maximum flow
Mounting	Inline version suitable for Vertical or Horizontal pipes	Electrical Connection	Through DIN Socket
Process Connection	Screwed or Flanged. Refer Ordering Information.	Materials	
Max. Line Pressure	16 bar static / 6 bar dynamic	Body	304 SS / 316 SS
Pressure Loss	200 mbar at maximum flow	Flange (optional)	304 SS / 316 SS
Max. Process Temp.	100°C	Paddle	304 SS / 316 SS
Range	Refer Table overleaf	Gauge Unit Seal	316 SS bellows
		Seal 'O' Ring	Nitrile / Viton® (optional)

* Viton® is a registered trademark of DuPont Dow Elastomers

ORDERING INFORMATION

UZ Series Flow Indicator

Example: UZ

015

K4

SL

0

Line Size

15 mm NB	015
20 mm NB	020
25 mm NB	025
32 mm NB	032
40 mm NB	040
50 mm NB	050
Non standard size	---

Body Material

304 SS	K4
316 SS	K6

Process Connection

Screwed ends (with pipe thread same as nominal pipe size)	SL
Flanged to 1½" ANSI 150 RF	FA
Flanged to 1½" ANSI 300 RF	FB
Flanged to 2" ANSI 150 RF	FC
Flanged to 2" ANSI 300 RF	FD

Control Switch

Not provided	0
Provided	1

RANGE TABLE

Size Code	Screwed Version Thread Size (BSP)	Line Pressure (BAR)		Maximum Flow at 2m / sec Velocity LPM (Water)	Indicating / Switching Range LPM (Water)	
		Static	Dynamic		Min.	Max.
015	1/2"	16	6	60	4	40
020	3/4"	16	6	100	6	60
025	1"	16	6	200	10	100
032	1¼"	16	6	300	20	200
040	1½"	16	6	400	30	300
050	2"	16	6	600	50	500

Prior notification of changes in specification is impracticable due to continuous development.

FOR **SWITZER'S** OFFICES IN INDIA

CHECK AT:

<http://www.switzerinstrument.com/offices.htm>