

Flow Indicator

General

MODEL : DPFI

Features

- Differential Pressure across Orifice Plate Assembly
- Weld Neck Flange connection
- Unit of measurement direct in terms of flow unit
- Weatherproof to IP – 68

Specifications

Orifice Plate Assembly

Design	Conforms to ISA RP 3.2, DIN 1952, BS 1042, ISO-5167
Types	Square edge concentric, Quadrant edged, Conical entrance, Eccentric, Segmental
Plate material	SS304, SS316, SS316L as standard. Hastelloy-C, Monel, PP, PVC, PTFE coated, etc. can be given on request.
Orifice Bore	In accordance with ISO-5167, BS-1042, ASME MFC 3M, R.W.Miller, L.K.Spink, AGA-3
Tag Plate	In the same material as plate & is welded to orifice plate. Tag plate integral to the Orifice plate (i.e. without welding) can also be offered as a special case.
Vent / Drain	Vent or Drain holes are provided as per customer's requirement. Not drilled for orifice bores smaller than 25.4 mm
Flange Union	Weld neck, Slip on, Threaded, Socket welded with RF or RTJ facing Orifice flanges are in accordance with ANSI B16.36 with minimum flange rating of 300# for sizes up to 8" or male - female flanges in accordance with ANSI B16.5.
Pressure Tappings	Corner tappings are recommended for sizes upto 1 1/2"; Flange taps from 2" to 16"; D – D/2 taps for higher sizes.
Gasket	SS spiral wound + CAF, SS spiral wound + Grafoil, SS spiral wound + PTFE are normally supplied as per process requirement. Other materials available on request. For RTJ flanges, the plate is fixed on the plate holder. The plate holder is in Soft Iron material & acts as a gasket.
Studs / Nuts	ASTM A193 Gr.B7/A-194 Gr.2H as standard, Other material on request.
Jack Screw	Carbon Steel (C1038 heat treated)

Flow Indicator

Dial	100 / 150 mm (depending upon type of DPG), Aluminium, white background, black markings
Case	SS304 / SS316 with bayonet bezel
Protection	Weatherproof to IP-68 (IS:13947 part I / IEC:60529)
Window	Safety glass (Shatter proof / Toughened glass)
Pointer	Light weight, micrometer adjustable
Sensing	Bellow, Diaphragm or Piston (depending upon type of DPG)
Other wetted parts	SS316 / SS316L / Monel / Hastelloy-C (other on request)
Movement	SS304 / SS316
Connection	1/2" NPT (M) as standard (other on request)
Range	Minimum 0 to 1000 mm WC
Static Pressure	Upto 60 kg/cm ² g, Higher Static Pressure on request
Accuracy	±1% FSD / ±1.6% FSD / ±2% FSD ascending (depending upon type of DPG)
Blow out disc	Provided (top of the case)
Optional	Flow Indicator with NAMUR / Micro switch also available Three Valve Manifold in SS316, suitable SS tubing and associated instrument fittings



The parameters mentioned here are the standard specifications / values generally used for most of the process applications. Any other specification not appearing here also can be provided as per customer requirement.

Under Technical Collaboration with M/s. Gauges Bourdon, France

Ordering Information

MODEL CODE FOR FLOW INDICATOR ASSEMBLY *



BASIC MODEL CODE
DPFI DP type Flow Indicator

TYPE OF ORIFICE PLATE
OCC Conical Entrance
OEC Eccentric
OQC Quadrant Edge Concentric
OSC Square Edge Concentric
OSE Segmental

PLATE MATERIAL
S4S SS304 **MN4** Monel 400
S4L SS304L **HCB** Hastelloy-B
S6S SS316 **HCC** Hastelloy-C
S6L SS316L **TTM** Titanium
S6T SS316Ti **TAN** Tantalum
321 SS321 **PTF** PTFE
S6P SS316+PTFE **PPN** Polypropylene
6LP SS316L+PTFE **XXX** Other (Please Specify)

PLATE THICKNESS
OP1 3.18 mm
OP2 6.35 mm
OP3 9.52 mm
OP4 12.70 mm
XXX Other (Please Specify)

TYPE OF FLANGE
FSO Slip On
FSW Socket Welded
FTH Threaded
FWN WN Welding Neck

LINE SIZE / SCHEDULE

Size	Code	Schedule	Code
1/2"	15	Sch 40	S40
3/4"	20	Sch 80	S80
1"	25	Sch 160	S16
1-1/2"	40	Sch XXS	XXS
2"	50	Other (Please Specify)	XXX
3"	80		

e.g. For 2" (50 NB), Sch 80 Pipe, Model Code: **50S80**

FLOW RANGE & UNIT
Please Specify

STATIC PRESSURE
Please Specify

UNIT
KSC kg/cm²(DP)
BAR bar(DP)
PSI psi(DP)
KPA kPa(DP)
MPA MPa(DP)
MBR mbar(DP)
MMW mm WC(DP)
CMW cm WC(DP)
MWC m WC(DP)
INW inch WC(DP)
MMH mm Hg(DP)
CMH cm Hg(DP)
INH inch Hg(DP)
XXX Other (Please specify)

DP RANGE
Please Specify

FLANGE MATERIAL
S4S SS304 **6LP** SS316L+PTFE
S4L SS304L **MN4** Monel 400
S6S SS316 **HCB** Hastelloy-B
S6L SS316L **HCC** Hastelloy-C
S6T SS316Ti **TTM** Titanium
321 SS321 **XXX** Other (Please Specify)
S6P SS316+PTFE

FLANGE RATING / FACING

Conn	Code	Rating	Code	Rating	Code	Facing	Code
Flange	F	1/2"	15	150	A	RF	RF
		3/4"	20	300	B	FF	FF
		1"	25	600	C	RTJ	RJ
		1-1/2"	40	900	D	LT	LT
		2"	50	1500	E	LG	LG
		3"	80	2500	F		

e.g. For 40 NB 300# RF flange, Model Code: **40BRF**

* Model Code for DPG to be specified separately, as per the type of DPG selected (Refer DPG Catalogues)

Sample Model Code: **DPFI-OCC-S6S-OP1-FWN-50S80-F50BRF-S6S-(0-2500)-MMW-25bar.g-(0-100m3/Hr)**