



## PD Flowmeters since 1970

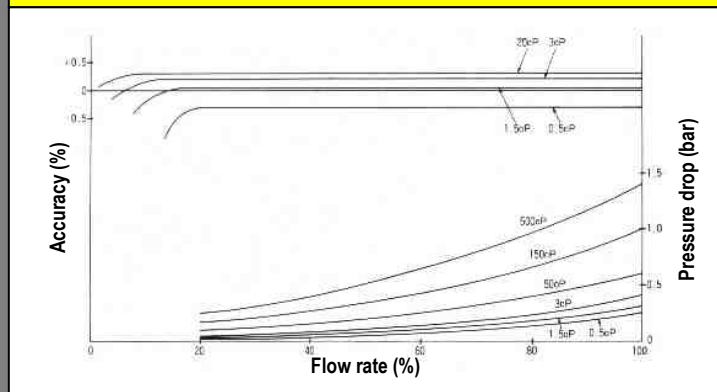
### Single Case PD Flowmeters

#### MAIN FEATURES / BENEFITS:

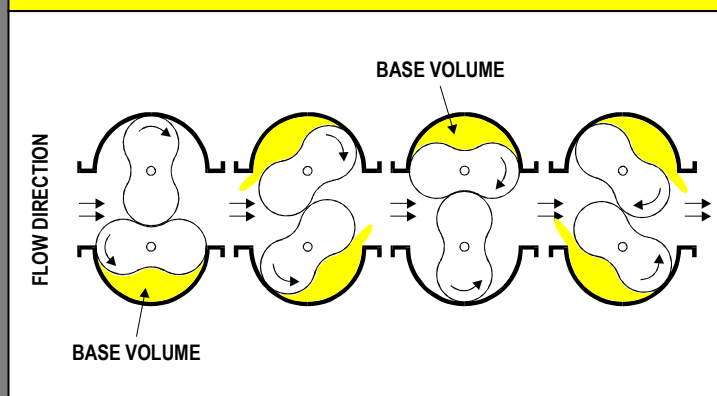
- ✓ **Excellent Accuracy and Repeatability:**  
Accuracy :  $\pm 0,15\%$  for fiscal applications and  $\pm 0,5\%$  for general purpose.  
Repeatability:  $\pm 0,02\%$ .
- ✓ **Low Pressure Drop:** The straight-through path and floating rotor design create a very low pressure drop at maximum flow.
- ✓ **Compact Design:** No upstream or downstream pipe lengths are necessary. Pocketless version available.
- ✓ **Long Service Life:** The rotors are not in contact with one another or the housing. Therefore, there is little wear due to throughput. Plus the magnetic transmission of the rotors movement eliminates the maintenance and product leakage associated with a mechanical linkage method.
- ✓ **Production Line:**  
Flange size 1"  $\div$  4";  
Max. pressure 10 bar;  
Max. temperature 100 °C.
- ✓ **Materials of Construction:** A broad range of materials are available to meet customer application requirements.
- ✓ **Wide Range of Accessories:** A complete line of accessories are available to meet a broad range of applications.
- ✓ **Conformity with International Standards:**  
PED, ATEX, OIML R117, ISO 9001, ISO 14001
- ✓ **International Approvals for Fiscal Applications:** CEE Approval, Indonesian Approval (MIGAS), Russian Approval, Nigerian Approval (DPR), Chinese Approval (PAC).



#### CHARACTERISTIC CURVES



#### OPERATING SCHEME



#### MAIN APPLICATION FIELDS

- ✓ Petroleum Industry;
- ✓ Petrochemical Industry;
- ✓ Chemical Industry;
- ✓ Pharmaceutical Industry;
- ✓ Crude Oil Extraction;
- ✓ Power Plants Industry;
- ✓ Ships and Steel Making Industry;

Please consult factory for special applications.

## PETROL Instruments

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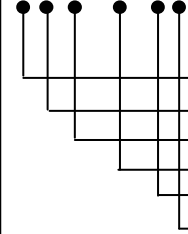
### Single Case PD Flowmeters

FLOW RATE RANGES (m3/h)												
MOD.	Ø LINE	SERVICE mPa.s	PETROLEUM PRODUCTS				WATER	CHEMICAL PRODUCTS				
			> 0,5	2	10	150	T < 80 °C	Soda 30%	50	500	2000	
51	25	Continuous	0,6 ÷ 2,5	0,5 ÷ 2,5	0,2 ÷ 3,5	0,05 ÷ 3,5	0,5 ÷ 2,3	0,2 ÷ 2,5	0,1 ÷ 3,5	0,02 ÷ 2,5	0,008 ÷ 2	
	40	Intermittent	0,6 ÷ 3,5	0,5 ÷ 3,5	0,2 ÷ 4	0,05 ÷ 4	0,5 ÷ 2,8	0,2 ÷ 3,5	0,1 ÷ 4	0,02 ÷ 3,5	0,008 ÷ 2,5	
11	25	Continuous	1 ÷ 4,5	0,8 ÷ 4,5	0,3 ÷ 6	0,07 ÷ 6	0,9 ÷ 4	0,3 ÷ 4,5	0,15 ÷ 6	0,04 ÷ 4,5	0,015 ÷ 3,5	
	40	Intermittent	1 ÷ 6	0,8 ÷ 6	0,3 ÷ 7	0,07 ÷ 7	0,9 ÷ 5	0,3 ÷ 6	0,15 ÷ 7	0,04 ÷ 6	0,015 ÷ 4,5	
12	40	Continuous	2 ÷ 9	1,5 ÷ 9	0,6 ÷ 13	0,15 ÷ 13	1,8 ÷ 8,5	0,6 ÷ 9	0,3 ÷ 13	0,08 ÷ 9	0,03 ÷ 7,5	
	50	Intermittent	2 ÷ 13	1,5 ÷ 13	0,6 ÷ 15	0,15 ÷ 15	1,8 ÷ 10,5	0,6 ÷ 13	0,3 ÷ 15	0,08 ÷ 13	0,03 ÷ 9	
22	50	Continuous	2,5 ÷ 14	2 ÷ 14	1 ÷ 20	0,25 ÷ 20	2,3 ÷ 13	1 ÷ 14	0,5 ÷ 20	0,12 ÷ 14	0,05 ÷ 12	
	65	Intermittent	2,5 ÷ 20	2 ÷ 20	1 ÷ 24	0,25 ÷ 24	2,3 ÷ 16,5	1 ÷ 20	0,5 ÷ 24	0,12 ÷ 20	0,05 ÷ 14	
53	50	Continuous	5 ÷ 25	4 ÷ 25	2 ÷ 35	0,5 ÷ 35	4,5 ÷ 22,5	2 ÷ 25	1 ÷ 35	0,25 ÷ 25	0,1 ÷ 20	
	80	Intermittent	5 ÷ 35	4 ÷ 35	2 ÷ 40	0,5 ÷ 40	4,5 ÷ 28	2 ÷ 35	1 ÷ 40	0,25 ÷ 35	0,1 ÷ 25	
13	50	Continuous	6,5 ÷ 35	5 ÷ 35	2,5 ÷ 50	0,6 ÷ 50	6 ÷ 34	2,5 ÷ 35	1,2 ÷ 50	0,3 ÷ 35	0,12 ÷ 30	
	80	Intermittent	6,5 ÷ 50	5 ÷ 50	2,5 ÷ 60	0,6 ÷ 60	6 ÷ 42	2,5 ÷ 50	1,2 ÷ 60	0,3 ÷ 50	0,12 ÷ 35	
14	80	Continuous	13 ÷ 65	10 ÷ 65	4,5 ÷ 90	1,2 ÷ 90	12 ÷ 60	4,5 ÷ 65	2,3 ÷ 90	0,6 ÷ 65	0,25 ÷ 55	
	100	Intermittent	13 ÷ 90	10 ÷ 90	4,5 ÷ 110	1,2 ÷ 110	12 ÷ 75	4,5 ÷ 90	2,3 ÷ 110	0,6 ÷ 90	0,25 ÷ 65	
24	80	Continuous	18 ÷ 90	14 ÷ 90	6 ÷ 125	1,5 ÷ 125	16 ÷ 80	6 ÷ 90	3 ÷ 125	0,75 ÷ 90	0,3 ÷ 75	
	100	Intermittent	18 ÷ 125	14 ÷ 125	6 ÷ 150	1,5 ÷ 150	16 ÷ 100	6 ÷ 125	3 ÷ 150	0,75 ÷ 125	0,3 ÷ 90	

Ø LINE IS THE DIMENSION OF THE FLANGE COUPLED TO THE PIPE

#### IDENTIFICATION CODE

**FB A 13 - 12 - F 8**



- FB Single Case PD flowmeter
- A Max operating pressure 10 bar
- 13 PD flowmeter model
- 12 Counter model
- F Body material
- 8 Rotors material

#### BODY MATERIALS

CODE	BODY/COVERS
A	CAST IRON
B	ALUMINUM
C	CARBON STEEL
D	DUCTILE IRON
F	AISI 316
G	AISI 316L
P	PVC

#### ROTORS MATERIALS

CODE	ROTORS
3	ALUMINUM
5	CAST IRON
8	AISI 316
9	AISI 316L
V	PVC

#### COUNTERS

<b>MOD. 12</b>	Mechanical counter with 10 figures non reset type totalizer (8 on digits plus 2 on dial).
<b>MOD. 22</b>	Mechanical counter with 8 figures reset type totalizer (6 on digits plus 2 on dial) and with 8 digits non reset type totalizer.
<b>MOD. VR</b>	Counter with 5 large figures reset type totalizer, 8 digits non reset type totalizer, 5 figures settable through single push buttons preset counter (optional) and 5 digits zero-start or 7 digits accumulative type ticket printer (optional).
<b>MOD. E</b>	Electronic counter for fiscal applications with optional preset and temperature compensation functions.
<b>MOD. F</b>	Intrinsically safe digital totalizer and flow indicator with optional pulse output and/or 4÷20 mA output.
<b>MOD. K</b>	Explosion proof digital totalizer and flow indicator with optional pulse output and/or 4÷20 mA output.
<b>MOD. H</b>	Hart transmitter with digital indicator (EEx-d or EEx-ia).

#### COUNTER MODELS

