

PETROL®

PD Flowmeters since 1970

“Master Meters Petrol Instruments”



16" Master Meter

MAIN FEATURES / BENEFITS:

- ✓ High accuracy & quality;
- ✓ Very reduced maintenance;
- ✓ Flange size 1" ÷ 16";
- ✓ Conformity with international standard;
- ✓ Floating rotors;
- ✓ Magnetic transmission;
- ✓ Carbon bearings;
- ✓ Repeatability ± 0,02%;
- ✓ Accuracy ± 0,1%;
- ✓ Max pressure 150 bar;
- ✓ Max temperature 250 °C;
- ✓ Intrinsically safe and explosion proof pulse transmitters (Optional).

Please consults factory for higher pressure and / or temperature and for different construction materials.

IDENTIFICATION CODE

M A 13 - 22 - F 8



- M** Master Meter
- A** Max operating pressure
- 13** Master Meter model
- 22** Counter model
- F** Outer housing material
- 8** Measuring unit material

COUNTERS

MOD. 22	Mechanical counter with 8 figures reset type totalizer (6 on digits plus 2 on dial) and with 8 digits non reset type totalizer.
MOD. BAT/R-T	Explosion proof digital totalizer and flow indicator with optional pulse output and/or 4÷20 mA output.
MOD. E	Intrinsically safe or Explosion proof digital totalizer and flow indicator with optional pulse output and/or 4÷20 mA output.
MOD. VR	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).

OUTER HOUSING MAT.

CODE	BODY/COVERS
A	CAST IRON
B	BRONZE
C	CARBON STEEL
D	DUCTILE IRON
E	AISI 304
F	AISI 316
G	AISI 316 L

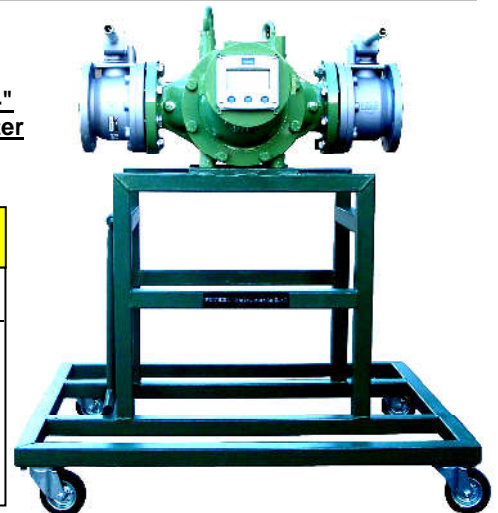
Transmission of movement is normally of magnetic type for all the codes.
Gaskets in teflon

MEASURING UNIT MATERIALS

CODE	HOUSING	ROTORS
1	BRONZE	BRONZE
2	BRONZE	ALUMINUM
3	CAST IRON	ALUMINUM
5	CAST IRON	CAST IRON
7	AISI 304	AISI 304
8	AISI 316	AISI 316
9	AISI 316 L	AISI 316 L

Bearings are normally made of carbon while rotor shafts and timing gears are in stainless steel.

Portable 4" Master Meter



MAX PRESSURE

CODE	Mpa
A	1
L	2
M	6,2
H	11
X	>11

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Via della Tecnica, 5 – 04011 APRILIA (LT)
Tel. +39-06-9201.941.r.a. – Fax +39-06-9201.9446
E-mail: info@petrol-instruments.com
Web: http://www.petrol-instruments.com



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Flow Rate Ranges (M ³ /H)											
Mod.	Ø line	mPa.s Service	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
16	100	Continuous	24 ÷ 110	18 ÷ 110	8 ÷ 150	2 ÷ 150	20 ÷ 100	8 ÷ 110	4 ÷ 150	1 ÷ 110	0,4 ÷ 90
	150	Intermittent	24 ÷ 150	18 ÷ 150	8 ÷ 180	2 ÷ 180	20 ÷ 125	8 ÷ 150	4 ÷ 180	1 ÷ 150	0,4 ÷ 110
18	150	Continuous	35 ÷ 150	25 ÷ 150	12 ÷ 210	3 ÷ 210	30 ÷ 140	12 ÷ 150	6 ÷ 210	1,5 ÷ 150	0,6 ÷ 125
	200	Intermittent	35 ÷ 210	25 ÷ 210	12 ÷ 250	3 ÷ 250	30 ÷ 175	12 ÷ 210	6 ÷ 250	1,5 ÷ 210	0,6 ÷ 150
28	150	Continuous	40 ÷ 190	30 ÷ 190	15 ÷ 270	4 ÷ 270	35 ÷ 180	15 ÷ 190	7,5 ÷ 270	2 ÷ 190	0,8 ÷ 160
	200	Intermittent	40 ÷ 270	30 ÷ 270	15 ÷ 320	4 ÷ 320	35 ÷ 225	15 ÷ 270	7,5 ÷ 320	2 ÷ 270	0,8 ÷ 190
110	200	Continuous	60 ÷ 270	40 ÷ 270	20 ÷ 380	4,5 ÷ 380	50 ÷ 260	20 ÷ 270	10 ÷ 380	2,5 ÷ 270	2,5 ÷ 230
	250	Intermittent	60 ÷ 380	40 ÷ 380	20 ÷ 450	4,5 ÷ 450	50 ÷ 315	20 ÷ 380	10 ÷ 450	2,5 ÷ 380	2,5 ÷ 265
112	250	Continuous	80 ÷ 350	60 ÷ 350	25 ÷ 500	6,5 ÷ 500	70 ÷ 330	25 ÷ 350	12,5 ÷ 500	3,5 ÷ 350	3,5 ÷ 295
	300	Intermittent	80 ÷ 500	60 ÷ 500	25 ÷ 600	6,5 ÷ 600	70 ÷ 415	25 ÷ 500	12,5 ÷ 600	3,5 ÷ 500	3,5 ÷ 350
212	250	Continuous	130 ÷ 600	100 ÷ 600	45 ÷ 850	10 ÷ 850	120 ÷ 570	45 ÷ 600	22,5 ÷ 850	5 ÷ 600	5 ÷ 500
	300	Intermittent	130 ÷ 850	100 ÷ 850	45 ÷ 1000	10 ÷ 1000	120 ÷ 700	45 ÷ 850	22,5 ÷ 1000	5 ÷ 850	5 ÷ 600
612	300	Continuous	160 ÷ 850	125 ÷ 850	60 ÷ 1200	14 ÷ 1200	140 ÷ 810	60 ÷ 850	30 ÷ 1200	7 ÷ 850	7 ÷ 715
	350	Intermittent	160 ÷ 1200	125 ÷ 1200	60 ÷ 1400	14 ÷ 1400	140 ÷ 1000	60 ÷ 1200	30 ÷ 1400	7 ÷ 1200	7 ÷ 840
114	350	Continuous	200 ÷ 1100	150 ÷ 1100	75 ÷ 1500	18 ÷ 1500	180 ÷ 1050	75 ÷ 1100	38 ÷ 1500	9 ÷ 1100	9 ÷ 925
	400	Intermittent	200 ÷ 1500	150 ÷ 1500	75 ÷ 1800	18 ÷ 1800	180 ÷ 1245	75 ÷ 1500	38 ÷ 1800	9 ÷ 1500	9 ÷ 1050

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

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