

DOMINO PMD vane wheel flowmeters

Technical data



- Primarily used for water flow measurement or dosing
- Brass housing with threaded connections or threaded flanges
- For horizontal installation - dial upward
- Measuring tolerances $\pm 2\%$ of effective value¹⁾, repeatability $\pm 0.3\%$
- Temperature max. 90 °C
- Rated pressure 16 bar
- Available only with modules "pulser with roller register" or "installation for batching control".

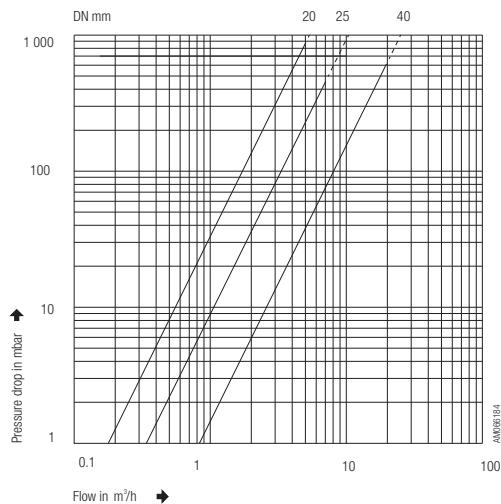
Nominal diameter	DN	mm inch	20	25	40
Overall length		mm	190	260	300
Rated pressure PN		bar	16	16	16
Max. temperature	T _{max}	°C	90	90	90
Maximum flow rate	Q _{max}	l/h	5000	7000	20000
Continuous flow rate	Q_n	l/h	2500	3500	10000
Transitional flow rate	Q _t	l/h	200	280	800
Minimal flow rate	Q _{min}	l/h	100	140	400
With AS 110 filling control:					
Transitional flow rate	Q _t	l/h	350	450	1000
Minimal flow rate	Q _{min}	l/h	250	300	600
Smallest registered value		l	0.1	0.1	0.1
Metering capacity		m ³ /h	100000	100000	100000
Metering time at Q _n without overflow		h	40000	28500	10000
Safety filter mesh size in meter base		mm	1.5	1.5	2.5
Housing thread		inch	1	1 1/4	2
Screw connection thread		inch	3/4	1	1 1/2
Housing finish			enamelled yellow RAL 1007		
Weight without screw connections		kg	3.10	4.10	6.50

1) $\pm 5\%$ at lower end of measuring range between Q_{min} and Q_t.

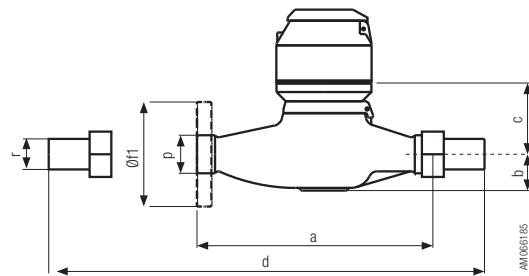
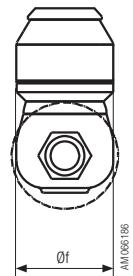
Measuring module materials

Component	Materials
Housing	Brass
Measuring unit	PPO plastic
Seals	EPDM (ethylene propylene)
Vane wheel bearings	Plastic and synthetic ruby balls

Pressure drop characteristics

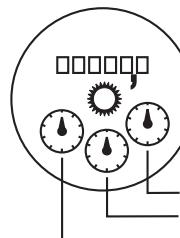


Measuring module dimensions in mm



Dials

DN 20, 25, 40



0.01
0.001
0.0001
AM066145

DN	a	b	c	d	Øf	Øf1	p	r
PMD 20	20	190	37	74	285	92	G 1"	G 3/4"
PMD 25	25	260	40	83	375	105	G 11/4"	G 1"
PMD 40	40	300	60	91	440	139	G 2"	G 11/2"

Pulser modules

Module installation heights are given in sections "AMD modules".

Pulsers

Technical data

For further technical data and wiring diagrammes, see sections "Pulsers".

Pulse values

Pulser type		Nominal diameter of measuring unit			
		mm	20	25	40
		inch	3/4	1	1 1/2
IN	Inductive switch (NAMUR)		l/pulse	0.1	0.1
			l/pulse	1	1
INA	Inductive switch (NAMUR)	approx.	l/pulse	0.00864	0.01434
					0.04990

Pulse frequencies

IN	at Qmax	Hz	13.889	19.444	55.555
	at Qmin	Hz	0.278	0.389	1.111
INA	at Qmax	Hz	160.751	135.596	111.334
	at Qmin	Hz	3.215	2.712	2.227