Series 6600 Technical Literature

Introduction

Series 6600 are positive displacement flowmeters intended for measurement of oils, fuels, chemicals, water and aggressive fluids. High Accuracy and low-pressure loss make these flowmeters ideal for industrial applications requiring precise measurement.

Features

- Accuracy options – 0.5%, 0.2%, 0.1%
- Superb repeatability better than 0.02%
- Built-in strainer for protection
- Innovative bi-rotor design option upto 1800 LPM
- Two wire analog and battery powered options
- Available in non-ferrous materials for aggressive chemicals
- Wide array of service for products upto 300,000 cps and higher
- Custody transfer mode (optional)

Your benefits

- Turndown option 1:50, 1:100
- Unaffected by non-laminar flow profile
- No straight runs of pipe needed
- Lowest pressure loss – 0.1 bar
- No metal-to-metal contact
- Works on gravity and pulsating flow

Applications

- Boiler condensate, feed and fuel measurement
- Petroleum products
- Distillate measurement
- Custody transfer
- Reactor charging
- Viscous oils and pastes
- Flow chemistry
- Acid/Alkalis/Corrosive chemicals

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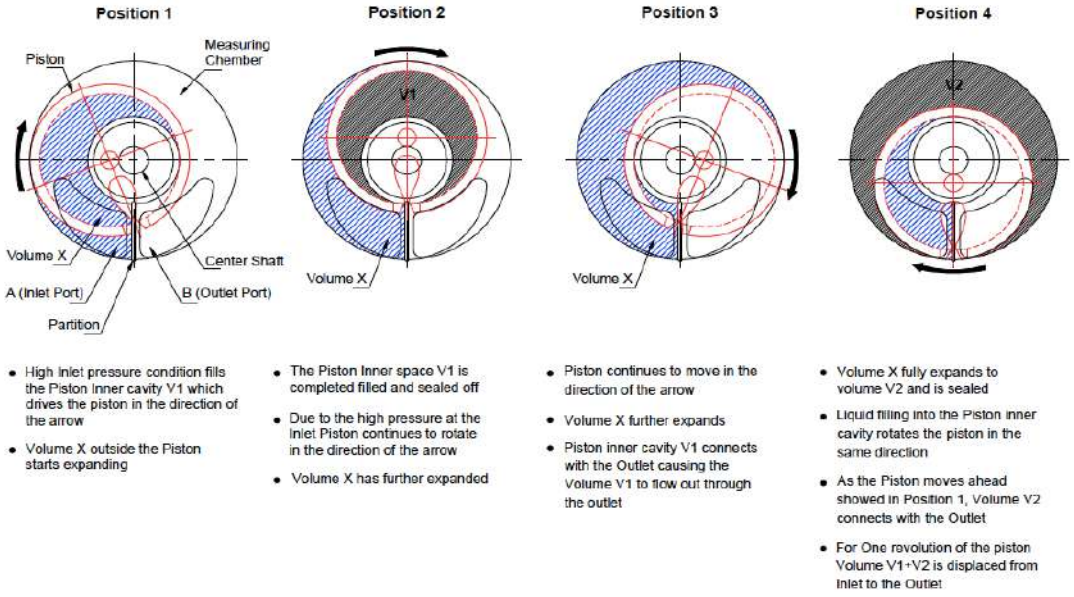
Measurement Principle



Working principle

The Oscillating piston principle is the only single rotor positive displacement method that works by continuously separating the flow stream into fixed, constant discrete volumetric segments and precisely measuring this volume in a calibrated measurement chamber.
The movement of the piston is recorded by contactless and isolated magnetic pickup coils and thus several rotations of the piston signify total volume measured by the following equation-

Volume in flow stream = (fixed cyclic volume) * (total rotations recorded)

Working animation video - https://youtu.be/y2mIJ3Mr2iU

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Size-Flow range chart

Model Code	Nominal Size mm	Maximum Resolution (ml)	Standard Range StandardCal (LPH)	Extended Range PremiumCal (LPH)	Design limit High (LPH)	Design limit Low (LPH)
6600-06	06	1	6-60	3-120	200	2
6600-15	15	5	60-600	3-800	900	6
6600-20	20	25	150-1,500	30-3,000	3600	30
6600-25	25	25	240-2,400	30-4,200	4500	30
6600-40	40	50	600-6,000	180-18,000	20,000	150
6600-50	50	90	1200-12,000	800 – 42,000	45,000	600
6600-80	80	90	2400-24,000	800- 42,000	45,000	600
6600-80D	80 dual capsule	90	6,000-60,000	12,000-120,000	150,000	6,000

Note:

- *Calibration conducted on Fluidyne test rig (master meter volume flow method) with pump VFD operation*
- *Test liquid – Exxsol D80 solvent (Viscosity – 1.7 cst at 25 deg C. Spg – 0.786)*
- *Operation above design limit high may result in damage to piston*
- *Operation below design limit low may result in no measurement of flow*
- *Adherence must be made to compensatory pressure requirements to maintain measurement at low flow*

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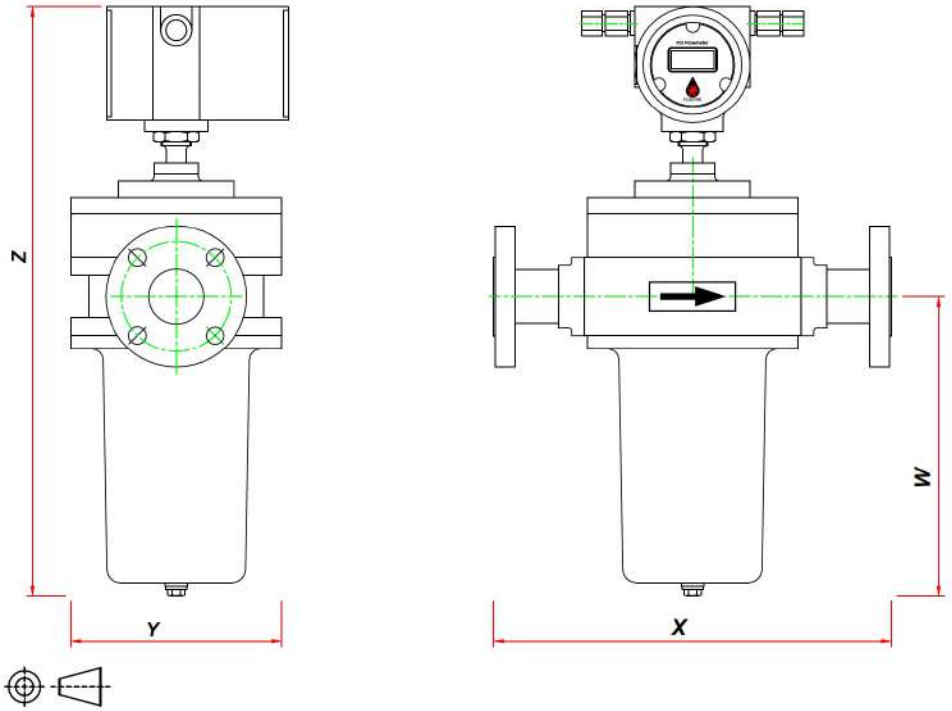
Dimensional data



Size	X mm	Y mm	Z mm	W mm	Approx weight (kgs)
06	192.0	104.0	377.6	144.5	06
15	192.0	104.0	384.3	142.5	08
20	212.0	104.0	427.6	162.8	14
25	212.0	108.0	427.6	162.8	14
40 RB	258.0	176.0	335.0	63.5	22
40 SB	350.0	190.0	529.0	269.0	32
50/65	388.0	228.0	580.6	288.5	55
80	388.0	228.0	580.6	288.5	60
80 D	388.0	342.2	376.5	104.0	30

Note:

- *Weight considering SS316L body material. Size 80 D is considering Aluminium body material*
- *ANSI B16.5 RF ASA 150 flanges considered as standard*
- *Meters available with custom connections and flange sizes as well*
- *Dimensions and weight are indicative. Please ask your salesperson for technical datasheet prior to ordering*

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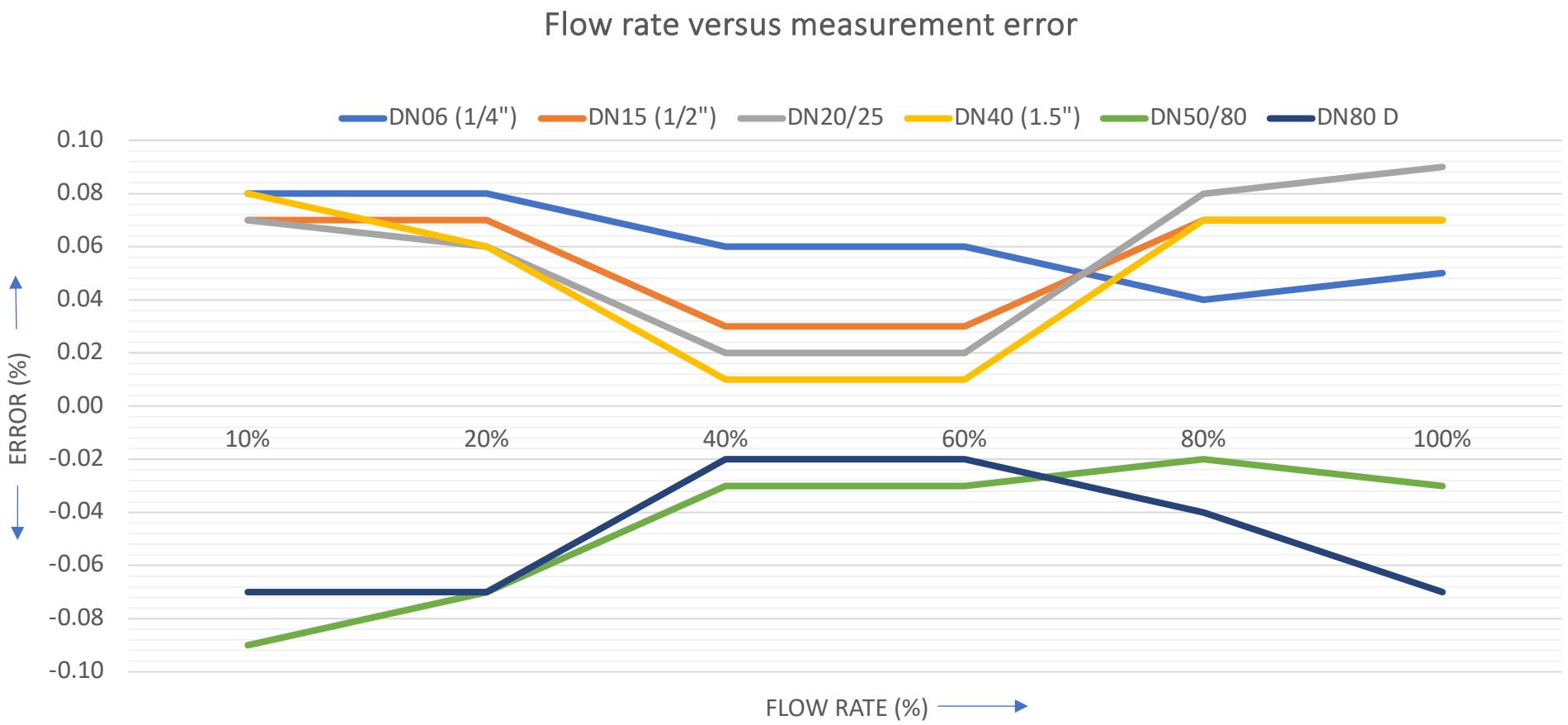
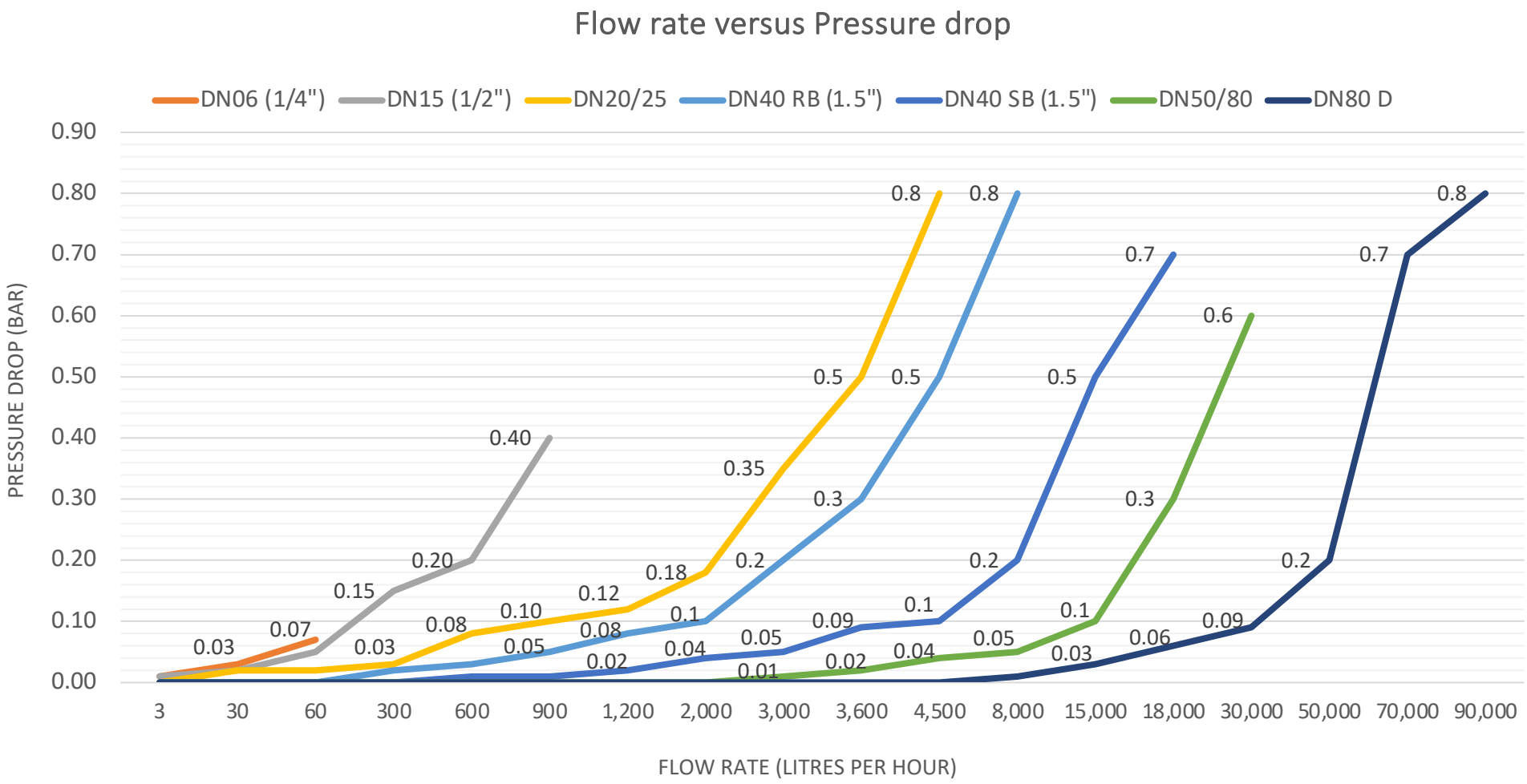
Typical performance curves



Note:

- *Test conducted in Fluidyne test facilities*
- *Meter tested within standard range specified in sh. 3*
- *Meter curves obtained by linearization techniques*
- *Test facility uses master meter method of error measurement per ISO 4185*
- *Test liquid – Exxsol D80 solvent (Viscosity – 1.7 cst at 25 deg C. Spg – 0.786) and Spindle oil (Viscosity – 2 cst at 25 deg C. Spg – 0.80) for DN80 D*
- *Models tested with PEEK piston and without built-in strainer*

Typical performance curves



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- *Liquid filtration – 50 micron particle size*
- *Models tested with PEEK piston and without built-in strainer*

Sensor specifications

Item		Description	
Design temperature range (fluid temp.)		-50 to 150	
Flange rating		ANSI B16.5 RF ASA 150, Option 300, BSPF/NPTF threads, custom (on request)	
Design pressure		20 bar	
Accuracy option		0.5%, 0.2%, 0.1%	
Material of construction with finish detail	Manifold Flanges Filter Housing	Aluminum LM04/25 cast BS 1490	20-micron ENP
		ASTM A351 CF3M 316L UNS N30002 C276, UNS N26002 C22, UNS N08826 Inconel 825, UNS N26625 Inconel 625, UNS N24135 Monel 400	No surface treatment /EP
	Transmitter	Die cast Aluminum LM06	100-micron powder coating (RAL 7032/35)
		316L Stainless Steel cast ASTM A351	No surface treatment
	Rotor	PEEK **(std)** PPS **(op)**	
	Elastomer	FKM-A Viton (fuels/oils) PTFE (Solvents/acids)	
Strainer (Built-in)		Aluminum body, 316SS mesh 316L SS body, 316L SS mesh	
Flow directions		Standard – Left → right, top → bottom, bottom → top	

Note:

- *Read instruction manual carefully for operating procedure*

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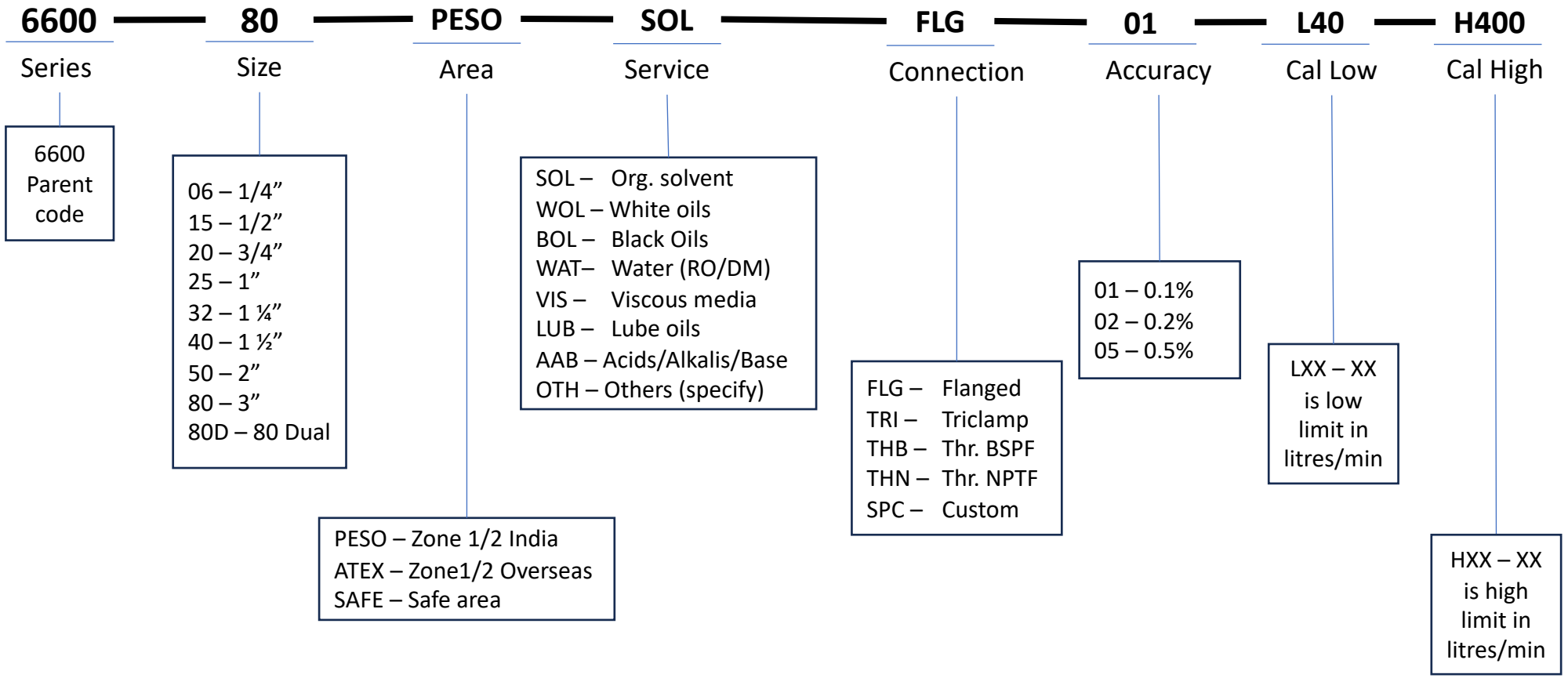
Transmitter specifications

Item	Description		
Material of construction with finish detail	Die cast Aluminum LM06 **(std)**	100-micron powder coating (RAL 7032/35)	
	316L Stainless Steel cast ASTM A351 **(op)**	Electropolished	
Elastomers		Neoprene/Nitrile	
Viewing Window		Toughened glass 8 mm	
Cable entries		M20x1.5 3 nos, 6 nos with ATEX approved version	
Design pressure		12 bar	
Power Supply with output option	Four wire	85-275 VAC 47-63 Hz, 18-36 VDC	Pulse npn / 4-20 mA/ Modbus RS485 / Relay
	Two wire	20-26 VDC	4-20 mA / 4-20 mA HART
	Self powered	3.3 VDC/2.4 Ah int. battery	NA
Display with backlight	Segment	For all configurations	
	Dot matrix	Four wire only	
Display parameters		Totalizer (Current - resettable) Totalizer (Cumulative – non resettable) Flow rate, Flow velocity	
Standards of Conformity		IEC 60079-1 - Ex d IIC T6 (PESO/IECEx/ATEX/UKEx approved) IEC 60529 - IP66 (std), IP68 (option) EN IEC 61326 – Electromagnetic Compatibility	

Ordering information - Sensor



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Ordering information - Transmitter

STD	I000	AL06	2W	DC	HA	DS	NS
Series	Size	Matl.	Config	Supply	Output	Display	LM Seal

- **Series**: STD – Standard; CT22 – CT22; BTC – Batch cont.
- **Size**: I000 – Integral w sensor; RXXX – Remote with XXX being cable length in metre
- **Matl.**: AL06 – Die cast Aluminum LM06; CF3M – 316L SS
- **Config**: 4W – Four wire; 2W – Two wire; 0W – Battery
- **Supply**: AC – Alternating; DC – 18 - 24 VDC; BP – Int. battery
- **Output**: PO- Meter pulse; RO- Relay; MO – Modbus; 42 - 4-20 mA; HA- HART; PF- Profibus; FF- FFbus
- **Display**: DS – Segment; DM – Dot matix; DB – Blind
- **LM Seal**: SE – Sealing; NS –No seal

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Contact Us

May we assist you with your measurement requirement?

Contact your Fluidyne representative today to discuss your application and experience our state-of-the-art product quality, accuracy and reliability.

Key people

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