MPB INDUSTRIES

Product Data Sheet

nqa. ISO 9001 QUALITY MANAGEMENT

UKAS MANAGEMENT SYSTEMS 0015

MPB COMPACT SERIES 1200 VARIABLE AREA FLOWMETER

GENERAL INFORMATION

The MPB Compact Series 1200 Flowmeter is used where space is of a premium. It is normally front of panel mounted, but can also be rear of panel mounted and supplied complete with bezel and mounting kit.

The MPB Series 1200 Flowmeter is produced in three standard lengths:-

1200 Long, which has a flow tube length of 295mm, is for use where high resolution scale accuracy is required.
See technical bulletin MPBTB 086.
1200 Standard, which has a flow tube length of 138mm, universal standard tube length.
1200 Compact, which has a flow tube length of 93mm, is for use where space is at a premium.

The MPB Compact 1200 Series Flowmeter will give an instantaneous flow rate of virtually any process gas or liquid.

The MPB Compact 1200 Series Flowmeter can be supplied with either nickel plated brass, anodised aluminium alloy, or stainless steel connections.

These can be supplied with straight through, or rear facing connections, with or without integral control valves.

MPB COMPACT SERIES 1200 FEATURES

- RANGE OF STANDARD FLOW RATES
- VALVED OR NON-VALVED VERSIONS AVAILABLE
- STRAIGHT THROUGH OR REAR FACING CONNECTIONS
- BEZEL AND MOUNTING KIT AVAILABLE FOR ALL VERSIONS
- FRICTIONLESS, HENCE LOW HEAD LOSS
- EASY TO READ SCALE
- EASY IN-SITU TUBE REMOVAL AND RE-INSTALLATION
- SUITABLE FOR FRONT, OR REAR OF PANEL MOUNTING
- POLYCARBONATE SAFETY COVER

- STANDARD OR CUSTOMISED FLOW SCALES
- ALARM POINT SIGNALS
- INTRINSICALLY SAFE VERSION
- DIRECT READING OF INSTANTANEOUS FLOW RATE
- NICKEL PLATED BRASS, ANODISED ALUMINIUM AND STAINLESS STEEL CONNECTIONS
- WIDE RANGE OF ACCESSORIES
- MINIMAL MAINTENANCE
- LONG SERVICE LIFE

MPB COMPACT SERIES 1200 VARIABLE AREA FLOWMETER

Chassis:	**Anodised aluminium to BSEN12373/AA25**
End Blocks:	**Ni plated brass** **303 Stainless steel** **Anodised aluminium alloy**
Process Connections:	**¼" BSPPF, or ¼" NPTF rear facing** **¼" BSPPF, or ¼" NPTF straight through**
Valve Stem:	**Stainless steel**
Cover:	**Polycarbonate**
Seals:	**Nitrile, Viton, EPDM, etc**
Metering Tube:	**Borosilicate glass (93mm long)**
Scale:	**Permanently fired black ceramic**

Plumb Bob Floats:	**Hard anodised aluminium** **316 Stainless Steel**
Ball Floats:	**Glass, Stainless steel, Ceramic, Ruby, Tungsten**
Weight:	**600 grams**
Maximum Working Pressure:	**Gas: up to 20 bar g (non-shock)** **Liquid: up to 20 bar g (non-shock)**
Maximum Working Temperature:	**60^0C Nitrile** **100^0C Viton**
Accuracy:	**$\pm$ 5% FSD predicted** **$\pm$ 2% FSD series calibrated**

STANDARD RANGES

1200 COMPACT SERIES 93mm TUBE LENGTH	
AIR @ 1013 mbar abs 20^0C	**WATER @ 20^0C**
5 – 50cc/min	**-**
10 – 100cc/min	**-**
25 – 250cc/min	**5 – 50cc/min**
50 – 500cc/min	**10 – 100cc/min**
100 – 1000cc/min	**25 – 250cc/min**
0.25 – 2.5 L/min	**50 – 500cc/min**
0.5 – 5 L/min	**60 – 600cc/min**
1 – 10 L/min	**100 – 1000cc/min**
2.5 – 25 L/min	
4 – 40 L/min	
10 – 100 L/min	
12 – 120 L/min	
15 –150 L/min	

Customised flow ranges are available.
Please consult MPB Industries to select the required flow range for the process fluid used.

Due to the constant development and improvement of products, information may be altered or withdrawn without notice.

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1200 SERIES-REAR ENTRY
CUTOUT DETAIL
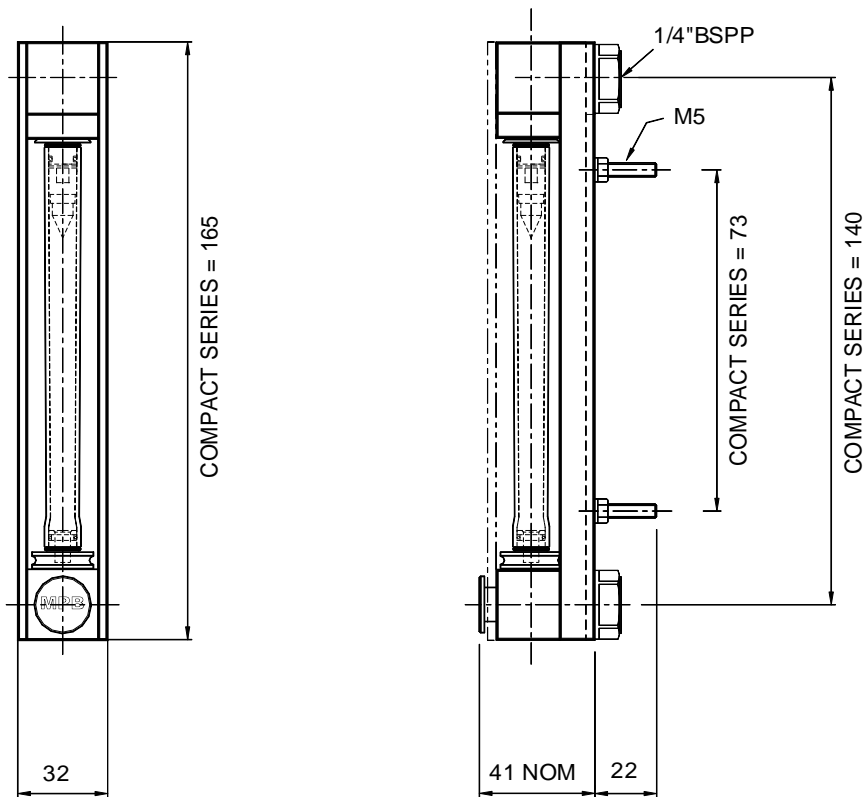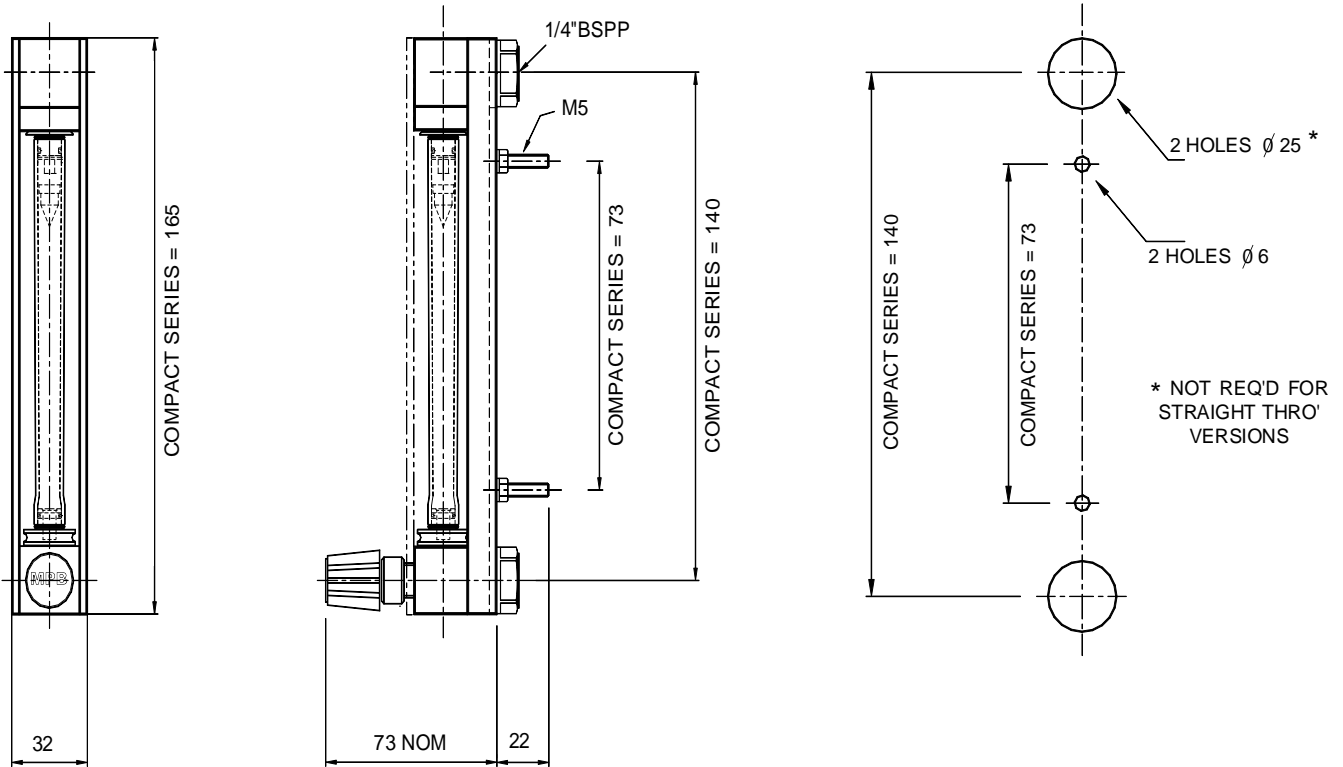
1/4"BSPP

M5

COMPACT SERIES = 165

COMPACT SERIES = 73

COMPACT SERIES = 140

COMPACT SERIES = 140

COMPACT SERIES = 73

2 HOLES ∅ 25 *

2 HOLES ∅ 6

* NOT REQ'D FOR
STRAIGHT THRO'
VERSIONS

32

73 NOM

22

COMPACT SERIES = 165

COMPACT SERIES = 73

COMPACT SERIES = 140

1/4"BSPP

M5

32

41 NOM

22

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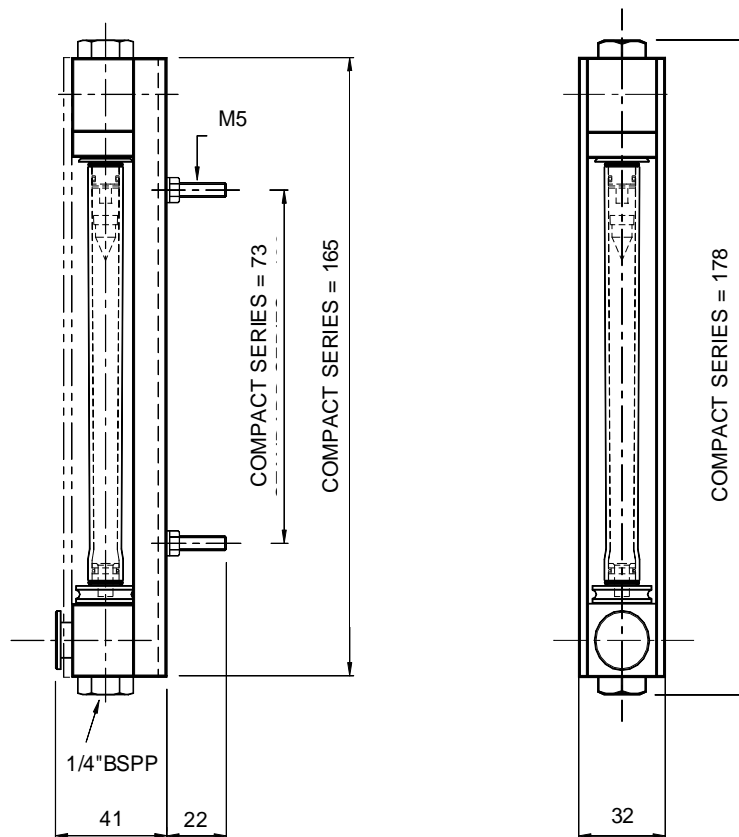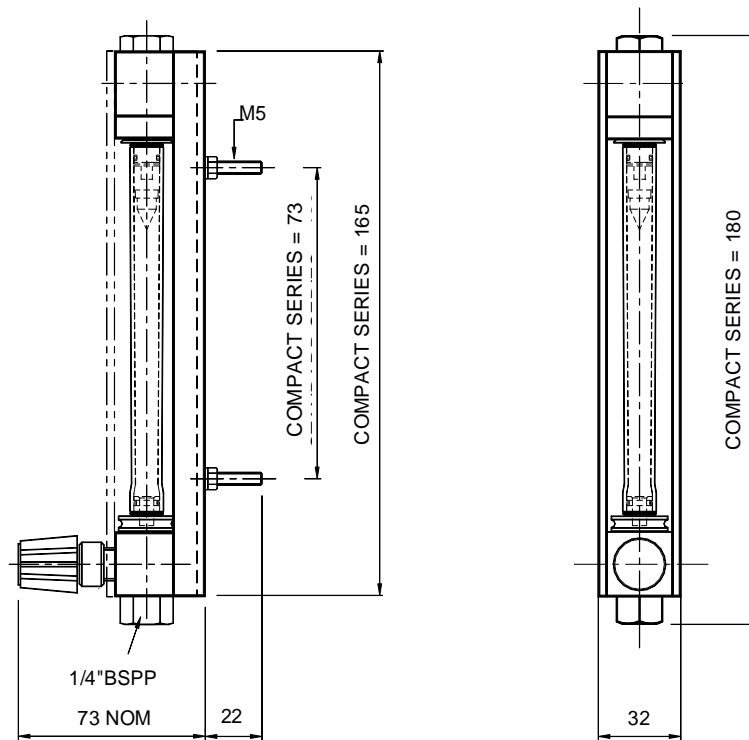SENSORS.NL

COMPACT 1200 VARIABLE AREA FLOWMETER DIMENSIONS STRAIGHT THROUGH VERSION

M5

COMPACT SERIES = 73

COMPACT SERIES = 165

1/4"BSPP

73 NOM   22

COMPACT SERIES = 180

32

M5

COMPACT SERIES = 73

COMPACT SERIES = 165

1/4"BSPP

41   22

COMPACT SERIES = 178

32

Please contact MPB Sales Office for separate sheet detailing panel cut outs for rear of panel mounted flowmeters.

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