

Grooved End Metering Station – Orifice Type

SERIES 7340

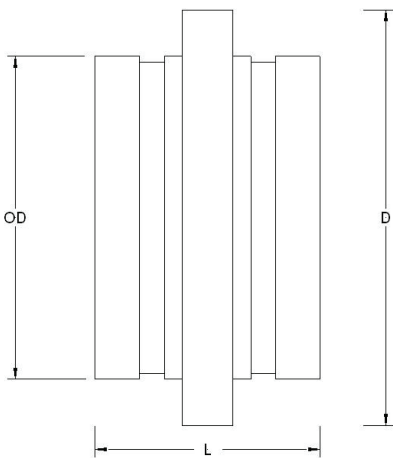
Victaulic Series 7340 Grooved end Flow Metering Station (orifice type) provides an accurate and economical way to obtain flow measurements in HVAC systems. Series 7340 features a maintenance free design that resists wear. Grooved end allows fast, easy installation with two standard Victaulic Zero-Flex® couplings.

To obtain maximum accuracy of +/- 3% for the Series 7340 Metering Station installed in isolation a minimum of 5 straight pipe diameters upstream and 3 down is required.

When the Series 7340 Metering Station is close-coupled to either a Series 7890 Double Regulating and Commissioning Valve (DRV) or a Vic-300 MasterSeal® Butterfly Valve, 5 straight pipe diameters upstream is required giving accuracy of +/- 5%.



DIMENSIONS



Size	Dimensions – mm		
Nominal Pipe Dia.	OD	L	D
65	76,1	80	108
80	88,9	80	125
100	114,3	80	147
125	139,7	80	175
150	165,1	80	202
200	219,1	100	251
250	273,9	100	300
300	323,9	100	345

JOB/OWNER

System No. _____
 Location _____

CONTRACTOR

Submitted By _____
 Date _____

ENGINEER

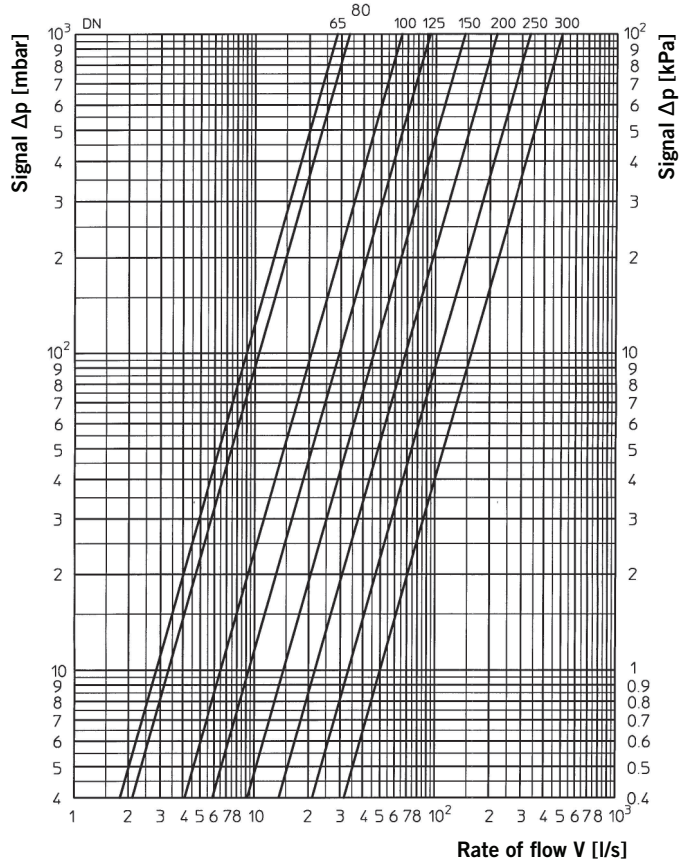
Spec Sect _____ Para _____
 Approved _____
 Date _____

Grooved End Metering Station – Orifice Type

SERIES 7340

PERFORMANCE

Metering station complete with two pressure test points. For installation with standard Victaulic Style 07 Zero-Flex couplings.



Grooved End Metering Station – Orifice Type

SERIES 7340

K_v VALUES

Many designers prefer to size commissioning equipment such that measuring signals are between 1 and 4.7 kPa.

In order to determine the total headloss attributable to a commissioning set reference should be made to the 08.70 Series 7890 DRV submittal.

Formulas for K_v values:

$$\text{Flow rate (a)} \quad Q = \frac{KW}{4.2 \times \Delta t}$$

$$\text{Flow rate (b)} \quad Q = \frac{\sqrt{\Delta p \times K_v}}{36}$$

$$\text{Headloss } \Delta p = \left(\frac{36 Q}{K_v} \right)^2$$

Where:

Q = Flow in L/S

KW = Heat load in kilowatts

Δt = Temperature differential in K (°C)

Δp = Pressure differential (Headloss) in kiloPascal (kPa)

K_v = Coefficient of resistance, being the flow in m³/h that gives a pressure loss of 1 bar, using water at 20°C

Size	K _v value
DN 65	102.0
DN 80	120.0
DN 100	234.0
DN 125	335.0
DN 150	522.0
DN 200	780.0
DN 250	1197.0
DN 300	1810.0

Grooved End Metering Station – Orifice Type

SERIES 7340

MATERIAL SPECIFICATIONS

The Series 7340 Metering Station is a one-piece item machined from:-

65 – 150mm - EN1A nickel plated steel (BS230M07)

250 – 300mm - EN3BM07 nickel plated steel (BS070M20)

The Series 7340 Metering Station is fitted with 2 extended Pressure Test Points (marked red upstream; blue downstream)

WARRANTY

Refer to the Warranty section of the current Price List or contact Victaulic for details.

NOTE

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.



WCAS-6TYQE4

For complete contact information, visit www.victaulic.com

08.71 4609 REV A UPDATED 9/2006

VICTAULIC IS A REGISTERED TRADEMARK OF VICTAULIC COMPANY. © 2006 VICTAULIC COMPANY. ALL RIGHTS RESERVED. PRINTED IN THE USA.

08.71

