

9400 Series

DZR Brass Metering Station

Description

DZR brass metering station

Threaded M/F ISO7/1 Rp (F side threaded ISO 228/1 on DN15 and DN20)

Design according BS7350

Tolerance on nominal $K_{VS} \pm 3\%$ (test according BS7350)

PN25 (Max 25bar up to 100°C, max 20bar at 130°C)

Working conditions:

Water: -10°C to +130°C

below 0°C only for water with added antifreezing fluids

over 100°C only for water with added anti-boiling fluids



Materials of Construction

N.	Part	Material	Norm
1	Body	DZR Brass	EN12164 CW602N
2	Venturi insert	DZR Brass	EN12165 CW602N
3	Test point	DZR Brass ¹	EN12164 CW602N

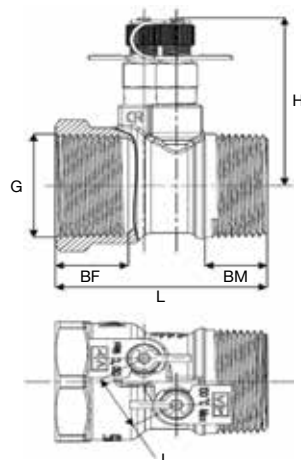
¹Test points with EPDM gaskets and polypropylene ties

Dimensions and Flow Data

DN	G ¹	H mm	L mm	BF mm	BM mm	I mm	Weight kg	Flow l/s	Product Code
015 _{ULF}	½"	57.2	60.0	17.5	15.2	22	0.219	0.017-0.045	37000184
015 _{LF}	½"	57.2	60.0	17.5	15.2	22	0.217	0.031-0.074	37000195
015	½"	57.2	60.0	17.5	15.2	22	0.213	0.062-0.148 ²	37000203
020	¾"	60.0	62.0	19.0	16.5	22	0.254	0.138-0.325 ²	37000214
025	1"	63.5	67.6	22.5	19.1	22	0.353	0.258-0.603 ²	37000225
032	1¼"	69.0	72.4	24.8	21.4	22	0.463	0.540-1.250 ²	37000236
040	1½"	72.0	72.4	24.8	21.4	22	0.531	0.810-1.880 ²	37000247
050	2"	78.0	82.0	29.2	25.7	22	0.755	1.520-3.510 ²	37000258

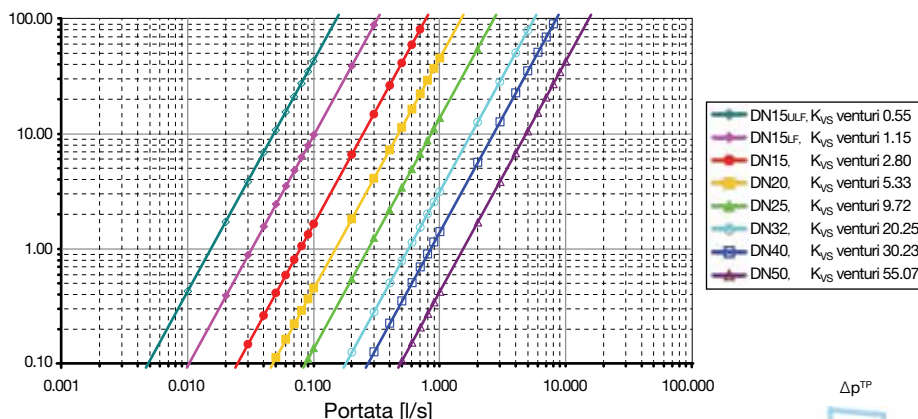
¹ISO7/1 Rp (F side threaded ISO 228/1 on DN15 and DN20)

²Suggested flow range applicability (BS7350).



If used with measuring manometers different from those proposed by BSS please verify that sensibility of the measuring device is compatible with indicated minimum flow (see flow measurement paragraph)

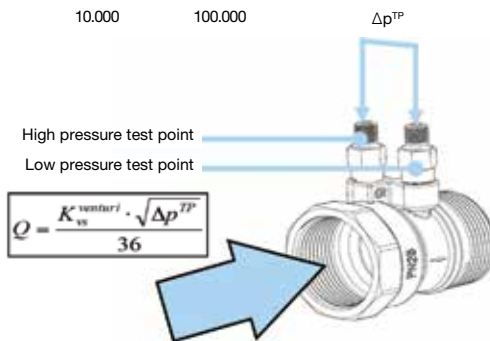
Flow Measurement



Formula linking flow Q (in l/s) and Δp measured at test points (in kPa).

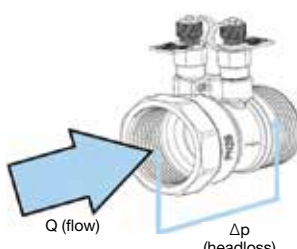
Minimum flow that can be measured for each diameter may be calculated by using in the formula minimum Δp that can be measured by used manometer.

Valves are anyway designed for best performances when used on range previously suggested and as indicated by BS7350.



Headloss Calculation

DN	K _v m³/h
015 _{ULF}	0.61
015 _{LF}	1.23
015	3.63
020	7.56
025	13.61
032	30.78
040	48.10
050	85.51



Q (flow)

Formula linking flow Q (in l/s) and theoretical valve headloss Δp (in kPa).

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

Installation

To obtain the best performances valve must be installed on a pipe with its same nominal size preceded and followed by straight pipe lengths as per figure indications.

