

Feature

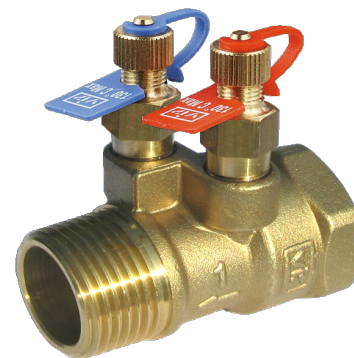
DZR brass metering station
Venturi insert
Threaded F/M (ASME B1.20.1 - NPT)
Design according to BS7350
Tolerance on nominal Cvs $\pm 3\%$ (test according to BS7350)

Meet BAA requirement

300WOG

Working conditions:

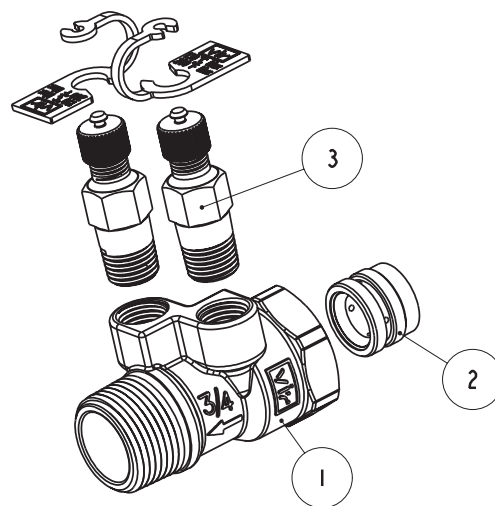
Water: from 15°F to 260°F
below 32°F only for water with added antifreezing fluids
over 212°F only for water with added anti-boiling fluids



Material

	Part	Material	Specification
1	Body	DZR Brass	UNS C35330
2	Venturi insert	DZR Brass	UNS C35330
3	Test point	DZR Brass ¹	UNS C35330

¹ Test points with EPDM Perox gaskets and polypropylene ties

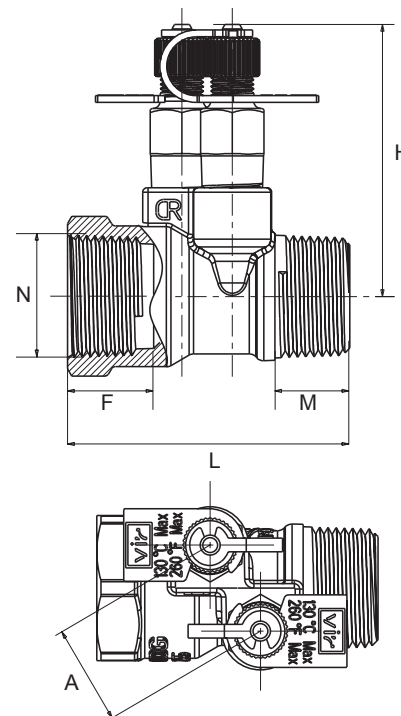


Dimension, Weight

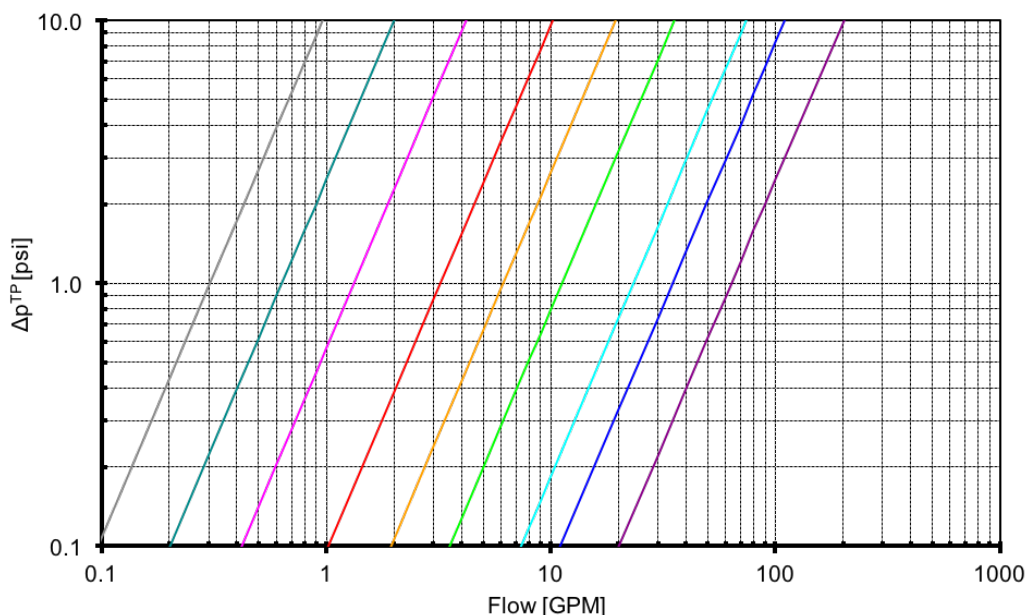
Size	N	F	M	H	L	A	Weight	Flow range
		[in]	[in]	[in]	[in]	[in]	[lb]	[GPM]
X-1/2"	1/2 - 14 NPT	0.71	0.60	2.26	2.36	0.87	0.48	0.12-0.36
U-1/2"	1/2 - 14 NPT	0.71	0.60	2.26	2.36	0.87	0.48	0.27-0.71
L-1/2"	1/2 - 14 NPT	0.71	0.60	2.26	2.36	0.87	0.48	0.49-1.17
1/2"	1/2 - 14 NPT	0.71	0.60	2.26	2.36	0.87	0.48	0.98-2.35 ¹
3/4"	3/4 - 14 NPT	0.75	0.65	2.36	2.44	0.87	0.57	2.19-5.15 ¹
1"	1 - 11.5 NPT	0.89	0.75	2.50	2.65	0.87	0.78	4.09-9.56 ¹
1 1/4"	1 1/4 - 11.5 NPT	0.98	0.84	2.72	2.85	0.87	1.02	8.56-19.81 ¹
1 1/2"	1 1/2 - 11.5 NPT	0.98	0.84	2.83	2.85	0.87	1.17	12.84-29.80 ¹
2"	2 - 11.5 NPT	1.15	1.00	3.07	3.23	0.87	1.66	24.09-55.63 ¹

¹ Suggested flow range applicability (BS7350)

If using a measuring manometer different from those proposed by RWV please verify that sensibility of the measuring device is compatible with indicated minimum flow (see flow measurement paragraph)



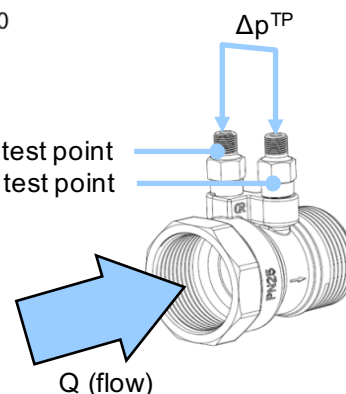
Flow Measurement



Formula linking flow Q (in GPM) and Δp^{TP} , differential pressure signal measured at test points (in psi).

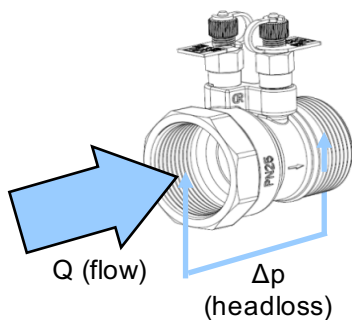
$$Q = C_{vs}^{venturi} \cdot \sqrt{\Delta p^{TP}}$$

High pressure test point
Low pressure test point



Headloss

Size	Cv [GMP]
X-1/2"	0.289
U-1/2"	0.705
L-1/2"	1.422
1/2"	4.196
3/4"	8.739
1"	15.73
1 1/4"	35.58
1 1/2"	55.60
2"	98.85



Formula linking flow Q (in GPM) and theoretical valve headloss Δp (in psi).

$$\Delta p = \left(\frac{Q}{C_v} \right)^2$$

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.

