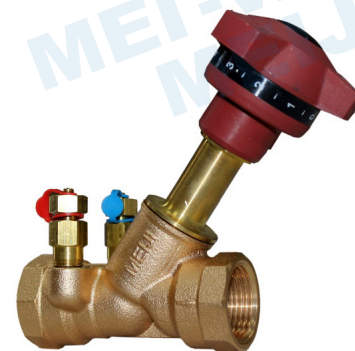


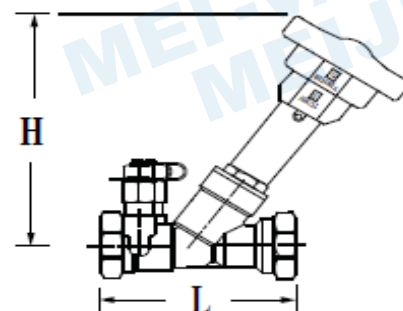
STATIC BALANCING VALVES

- Established H&V practice recommends that wherever possible within heating and chilled water systems, hydraulic losses should be minimal. Thus flow measurement and regulating valves serving such systems should function with pressure losses as low as efficient operation and high accuracy will permit.
- However, in certain circumstances where flow velocities are low as a result of system design, it is equally important that adequate differential pressures are available for accurate flow measurement. This requirement is achieved on the basis of a realistic compromise between the need for accuracy and low hydraulic loss.
- Flow measurement and regulating valves enable systems design engineers to specify standard production valves which will conform to the various system design options arising from current H&V technology, energy conservation considerations and standards legislation.



SPECIFICATION

- Threaded to BS21 (ISO7), ASME B1.20.1, for Single Unit Systems Conforms to BS7350.
- Y-pattern globe valve having characterized throttling disk tending towards equal percentage performance. Integral square edged entrance orifice plate with test point fitted.
- Operation of the valve is by means of the micro hand wheel.
- Flow Measurement Accuracy: $\pm 5\%$ (fully open).



PRESSURE/TEMPERATURE RATING

Working pressure	25 bar (WOG) Non Shock
Test pressure	Shell: 37.5 bar Hydrostatic
	Seat: 27.5 bar Hydrostatic 5.5 bar Air
Working temperature	-20°C to 120°C
Suitable Media	

MATERIALS			
Part	Material	ASTM Spec.	BS Spec.
Body	Bronze	B 62 C83600	BS EN 1982 CC491K
Bonnet	DZR copper alloy	B 453 C35330	BS EN 12165 CW602N
Disc	DZR copper alloy	B 453 C35330	BS EN 12165 CW602N
Stem	DZR copper alloy	B 453 C35330	BS EN 12165 CW602N
O' Ring Seal	EPDM Rubber	-	-
Orifice Insert	DZR copper alloy	B 453 C35330	BS EN 12165 CW602N
Test valve	DZR copper alloy	B 453 C35330	BS EN 12165 CW602N
Hand Wheel	Plastic	Commercial	-

DIMENSIONS, WEIGHT				FLOW RATE, COEFFICIENTS		
Size (mm)	L (mm)	H (mm)	Weight (kg)	Flow (Kv)	Head loss (k)	Kvs
15	87	105	0.61	1.87	30.25	2.20
20	96	106	0.65	3.14	34.50	4.70
25	100	127	0.95	5.59	27.75	8.60
32	114	128	1.13	10.80	22.58	16.60
40	125	143	1.52	18.10	14.60	24.50
50	146	144	1.98	29.11	14.52	46.10

Note:

- *% Valve opening: Products it is desirable that the valve will operate within the range indicated. Valve opening down to 30% and up to 100% are acceptable in practice.*
- *Installation: To achieve quoted levels of flow measurement accuracy the guidelines indicated must be regarded as minimum requirements. For valve the tolerance on flow measurement accuracy is ±5% fully open ±10% when 40% open.*
- *Design and specifications are subject to change without prior notice.*