

STATIC BALANCING VALVE – FLANGED (PN16)

Standard:

EN 12266-1

PRODUCT DESCRIPTION

GEMCO Static Balancing Valves are designed for accurate hydraulic balancing of HVAC systems. They ensure optimal flow distribution, energy efficiency, and reliable system performance in heating and cooling applications.

TECHNICAL SPECIFICATIONS

Product Type: Static Balancing Valve (Manual)
Pressure Rating: PN16
Temperature Range: -10°C to +120°C
Connection Type: Flanged (EN 1092-2)
Nominal Sizes: DN40 – DN300
Working Medium: Water and glycol mixtures (max. 50%)
Flow Accuracy: ±5%
Leakage Class: EN 12266-1 – Rate A
Measurement Ports: Double test points (P/T ports)

STANDARDS & COMPLIANCE

Design Standard: EN 13789
Flange Standard: EN 1092-2
Testing Standard: EN 12266-1
CE Compliance: PED 2014/68/EU
Quality System: ISO 9001 (optional)

APPLICATIONS

Heating systems
Cooling systems
HVAC installations
Chiller and boiler circuits
Commercial and industrial buildings



Material Specifications

Part Name

1. Body
2. Bonnet
3. Stem:
4. Disc:
5. Seat:
6. Measurement Ports:
7. Handwheel:

Material

Cast Iron GG25 (EN GJL 250)
Cast Iron
Stainless Steel (AISI 420)
Ductile Iron (EN GJS 400-15) + EPDM Coating
EPDM / PTFE (optional)
Brass (CW617N)
Cast Iron / Reinforced Polymer

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KEY FEATURES

Precise flow balancing and regulation
Presetting function for accurate adjustment
Lockable handwheel position
Memory stop function
Self-sealing measurement ports
Double O-ring sealing system
Compatible with digital balancing instruments
Low pressure drop design
Long service life and corrosion resistance

HYDRAULIC PERFORMANCE

High accuracy flow control
Stable system operation
Reduced energy consumption (up to 20%)
Low noise operation

DIMENSIONS & SIZES

- Size Range: DN40 – DN300
- Face-to-Face: According to EN standards
- Pressure Class: Pn16

OPTIONAL VERSIONS

PN25 / PN40 versions
Ductile iron body (GGG40)
Stainless steel (AISI 304 / 316)
Threaded type (DN15–DN50)
With drain or without drain