BARIQ Valves Manufacturer
مصنع صمامات بارق للصناعة

VISION رؤيـــة 2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

BARIQ BRONZE STATIC BALANCING VALVE PN25
MODEL WAZEN-90

WRAS APPROVED PRODUCT

Manufacturing Standard

- Material Standard: ASTM B584 (Copper Alloy Sand Castings, C83600) / EN 1982 (CC491K)
- Valve Design: BS 5154
- Pressure Testing: BS EN 12266-1 & BS EN 12266-2 (Industrial Valves – Testing of Valves)
- Shell Strength: BS EN 12516
- Quality Management: ISO 9001 Certified Manufacturing

Technical standard

- Normal prussure:PN25 2.5MPa
- Working medium: Water, Ethylene glycol mixture
- Working temperature :-20°C≤T≤120°C
- Connection end:3/4"~2" female thread
- Testing port connection end:1/4" female thread

Product Description

BARIQ Wazen 90 Static Balancing Valve is a precision-engineered device designed to ensure accurate hydraulic balancing in HVAC and water distribution systems.
Manufactured from premium bronze C83600 / CC491K, it provides exceptional corrosion resistance and long service life, even in aggressive water conditions.
Equipped with a calibrated handwheel, the valve allows for precise flow regulation and easy presetting, ensuring optimal system efficiency, reduced energy consumption, and extended equipment lifespan.

Its robust construction, combined with high-quality sealing elements (EPDM & PTFE), guarantees zero leakage and consistent performance under varying temperature and pressure conditions.

Key Features & Technical Advantages

- Accurate Hydraulic Balancing: Improves system efficiency and prevents over/underflow in branches.
- Durable Bronze Body: Excellent resistance to dezincification and corrosion in harsh water conditions.
- High-Performance Sealing: EPDM & PTFE seals for zero leakage under rated pressure.
- Presetting Scale: Allows easy, repeatable adjustment for commissioning and maintenance.
- Wide Compatibility: Suitable for HVAC, chilled water, hot water, and potable water networks.
- Threaded Connection Flexibility: BSPP standard with optional BSPT, Rp, or NPT threads.
- Maintenance-Friendly Design: Removable handwheel and bonnet for quick service without removing the valve from the pipeline.

SAUDI MADE ISO SASO WRAS APPROVED PRODUCT

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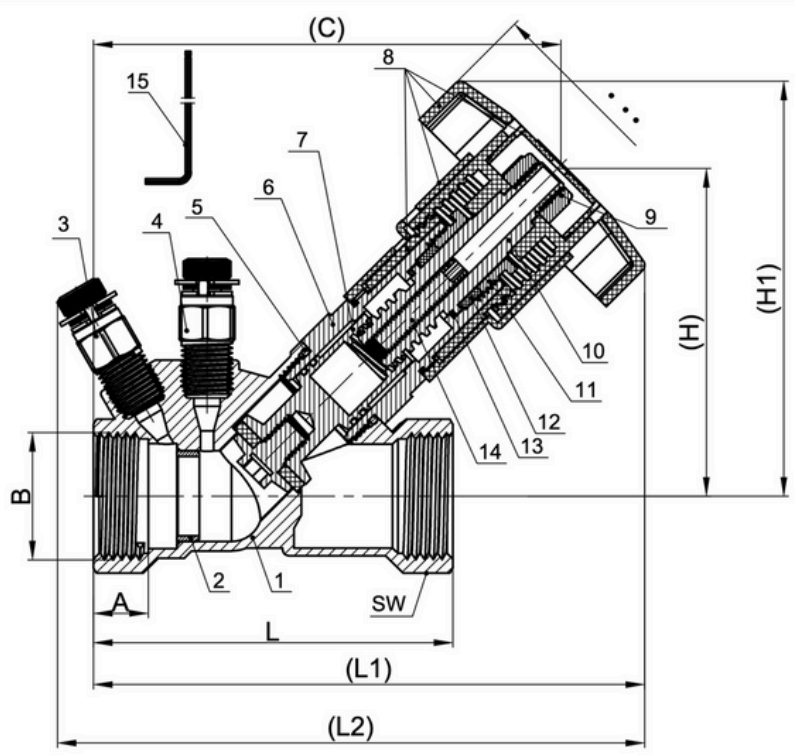
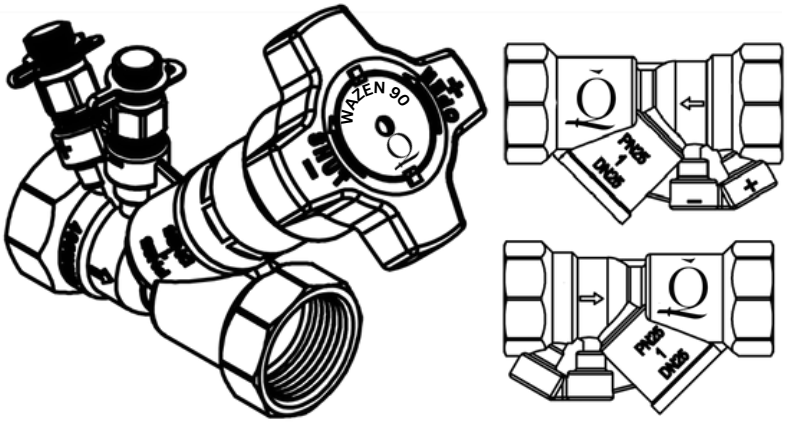
Technical Specification





Material Specification

NO.	Name	Qty	Material
1	Body	1	C83600/CC491K
2	Flow Controller	1	DZR CZ132 DZR
3	PT Valve (Red)	1	CZ132 DZR CZ132
4	PT Valve (Blue)	1	EPDM (HA70) DZR
5	O-Ring	1	CZ132 DZR
6	Bonnet	1	CZ132+EPDM
7	Disc assembly	1	PA6+30%GF(high-strength engineering plastic)
8	Handwheel Assembly	1	
9	Nut	1	S. S304
10	Stem	1	DZR CZ132
11	Packing Nut	1	C38000
12	Packing	1	PTFE PTFE
13	Washer	1	SS304 35#
14	Set Screw	1	
15	Hex Wrench	1	

WAZEN-90 Parameters

Size (DN)	L (mm)	H (mm)	C (mm)	H1 (mm)	L1 (mm)	L2 (mm)	SW (mm)
15	115	72.5	106.55	79.71	128.78	143.3	27
20	135	82	115.92	84.84	137.78	148.1	32
25	150	95	123.59	87.63	145.73	156.2	40
32	160.85	101.78	138.7	121.82	148.1	148.1	48
40	179.18	107.28	157.02	130.49	163.5	163.5	56
50	190.18	109.78	168.02	140.49	175.4	175.4	68.5

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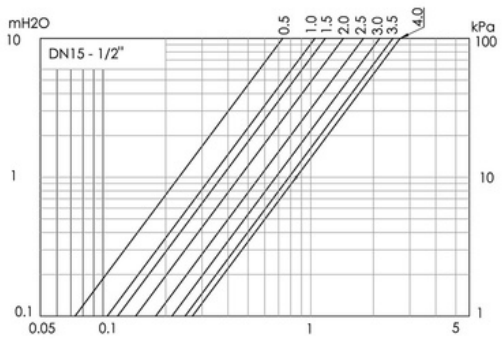
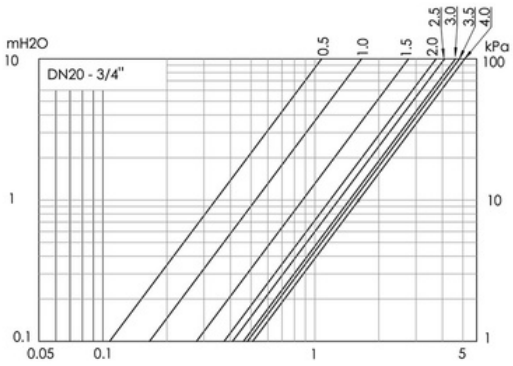
Head loss Charts

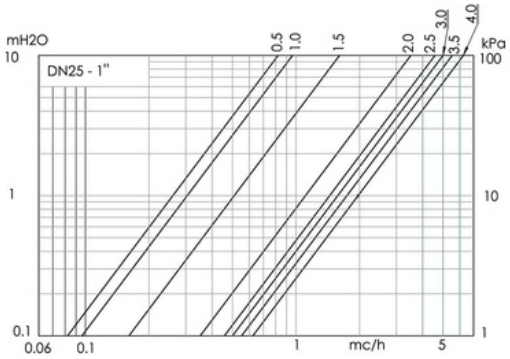
WAZEN-90
DN15
1/2"



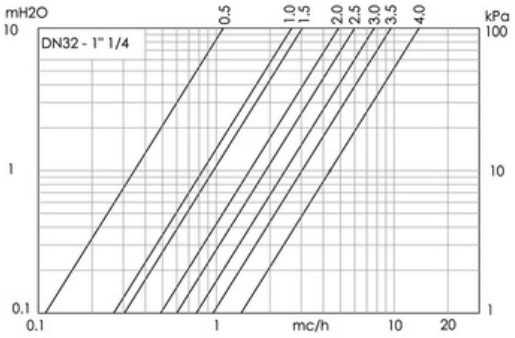
WAZEN-90
DN20
3/4"



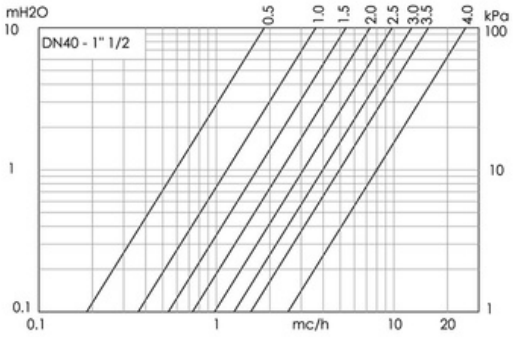
WAZEN-90
DN25
1"



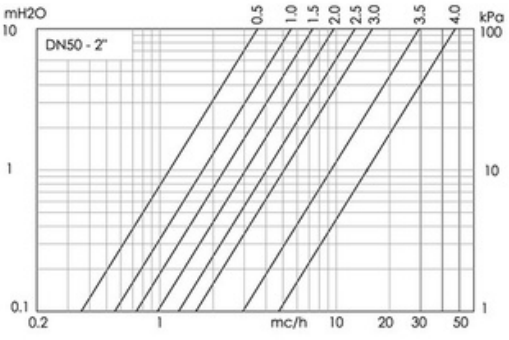
WAZEN-90
DN32
1 1/4"



WAZEN-90
DN40
1 1/2"



WAZEN-90
DN50
2"



WATER REGULATIONS APPROVAL SCHEME

WRAS PRODUCT APPROVAL CERTIFICATE

Approval Number

241108020

Field of application	Products complying with the Water Supply (Water Fittings) Regulations 1999 (England & Wales), the Water Supply (Water Fittings) (Scotland) Byelaws 2014 and the Water Supply (Water Fittings) Regulations (Northern Ireland) 2009.
Approval holder	BARIQ VALVES FACTORY
WRAS directory section	2348
Product type	Valves
Model	WAZEN 90 RANGE OF DOUBLE REGULATING VALVES
Basis of compliance	Tested to regulators Specification Test Code Sheets
Valid from	1st November 2024
Date of expiry	30th November 2029
Authorised by	Ian Hughes, WRAS Approvals Manager

The certificate by itself is not evidence of a valid WRAS Approval.
The certificate must always be shared with the supporting letter.
Confirmation of the current status of an approval must be obtained from the WRAS Approvals Directory (www.wrasapprovals.co.uk/directory/)

WRAS APPROVED PRODUCT

UKAS PRODUCT CERTIFICATION 20741

Certificate issued: 11th September 2025