



BARIQ VALVES

Lug Butterfly Valve

DUCTILE IRON SERIES

PRODUCT DATA SHEET

BARIQ

B3500

DN50-DN600 | PN16

BARIQ B3500 | PRODUCT OVERVIEW



PRODUCT RANGE

DN50-DN600

PN16

CONNECTION

Lug type
ANSI / ASME B16.5 Class 150

BODY MATERIAL

Ductile iron

COATING

Epoxy, 300 microns

DISC / SEAT

CF8 stainless steel / EPDM

OPERATION

Lever or gear operated

PRODUCT DESCRIPTION

The BARIQ B3500 is a resilient-seated lug butterfly valve for isolation and flow control in hydronic HVAC systems. Its ductile iron body features a 300-micron epoxy coating with a stainless steel disc and EPDM seat.

CONSTRUCTION SUMMARY

Body
Ductile iron
Disc
CF8 stainless steel

Stem
SS304
Seat / O-rings
EPDM

DESIGN HIGHLIGHTS

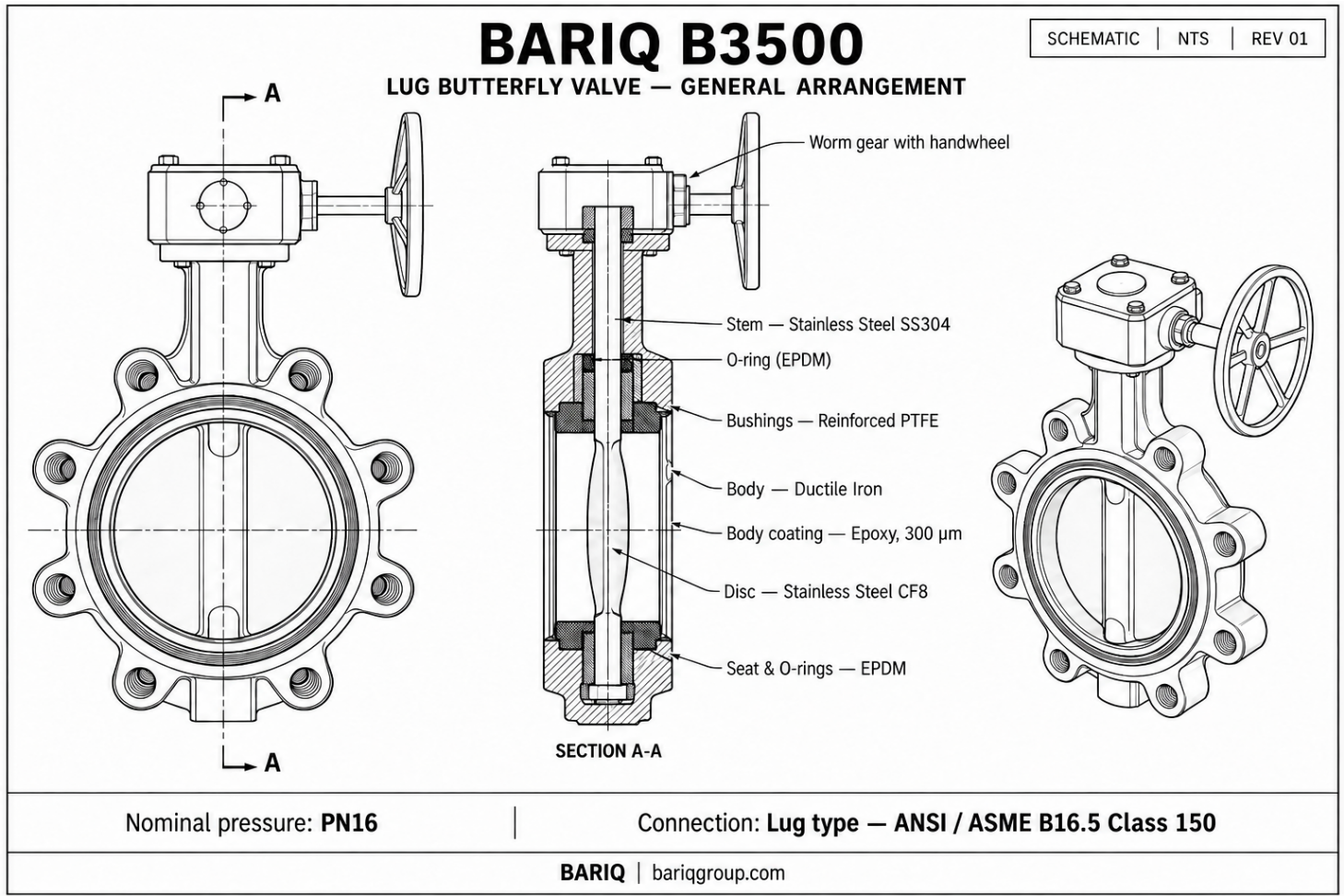
- Lug-type body arrangement
- ANSI Class 150 mating flanges
- 300-micron epoxy coating
- Stainless steel disc and stem
- Gear and handwheel configuration

APPLICATION

HYDRONIC HVAC SYSTEMS

BARIQ B3500

BARIQ B3500 | GENERAL ARRANGEMENT & SECTION



COMPONENT	MATERIAL / DESCRIPTION
Body	Ductile iron
Disc	CF8 stainless steel
Stem	Stainless steel SS304
Bushings	Reinforced PTFE
Seat & O-rings	EPDM
Body coating	Epoxy, 300 microns
Operator	Worm gear with handwheel



BARIQ B3500 | DIMENSIONAL TABLE

DIMENSIONS IN MILLIMETRES

DN	NPS (in)	A	B	C	L
50	2	80	169	32	43
65	2 1/2	89	176	32	46
80	3	95	183	32	46
100	4	114	201	32	52
125	5	127	214	32	56
150	6	139	229	32	56
200	8	175	257	45	60
250	10	203	280	45	68
300	12	242	327	45	78

DIMENSIONAL COVERAGE

DN50-DN300 | A, B, C and L dimensions



BARIQ VALVES

Standards & Performance

LUG BUTTERFLY VALVE

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BARIQ B3500 | DESIGN & TEST STANDARDS

Design standard	API 609
Face-to-face standard	API 609
Pressure testing	API 598
Mating flange connection	ANSI / ASME B16.5 Class 150
Operator mounting flange	ISO 5211

PRESSURE & TEMPERATURE PARAMETERS

Nominal pressure designation	PN16
Nominal pressure value	16 bar
Selected seat material	EPDM
EPDM temperature range	-20 to +120 degrees C
Application	Hydronic HVAC water systems

PRESSURE / TEMPERATURE SELECTION

PN16 is the nominal pressure designation; the temperature range refers to EPDM.
Allowable operating pressure at temperature follows the valve pressure-temperature rating.

CONFIGURATION	LUG BODY DUCTILE IRON CF8 DISC EPDM SEAT DARK GREEN EPOXY COATING, 300 MICRONS
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BARIQ VALVES

Installation & Operation

LUG BUTTERFLY VALVE

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BARIQ

B3500

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BARIQ B3500 | INSTALLATION GUIDANCE

01

PRE-INSTALLATION CHECKS

Confirm valve size, pressure rating and mating flange compatibility.
Inspect the valve, seat and flange faces for damage or contamination.
Remove debris from the pipework before fitting the valve.

02

ALIGNMENT & CLEARANCE

Support and align the pipework independently of the valve body.
Provide clearance for disc movement and access to the operator.
Do not use the valve or flange bolts to pull misaligned pipework together.

03

FLANGE ASSEMBLY

Use the specified fastener size and length for the lug connection.
Tighten evenly in a cross pattern to the specified assembly torque.
Check that the disc moves freely without contacting the adjacent pipework.

OPERATION & MAINTENANCE

CONTROLLED OPERATION

Operate the lever or handwheel smoothly; do not force the end stops.
Keep the operator accessible for routine inspection and operation.

SERVICE & INSPECTION

Isolate, depressurize and drain the line before loosening any connection.
Inspect for leakage, coating damage and abnormal operating resistance.
Use compatible replacement parts and follow the supplied valve instructions.

INSTALLATION

ALIGN | SECURE | CHECK FREE DISC MOVEMENT