

Variable Orifice Double Regulating Valve Fig. VA1209

Specification

- ✓ The VANTEC Variable Orifice Double Regulating Valve is a flanged Y-pattern valve designed for accurate flow measurement, regulation, balancing and isolation in hydronic systems
- ✓ The valve is equipped with two pressure test points for differential pressure measurement and flow verification. The double regulating function allows precise flow adjustment while maintaining the preset position during isolation and reopening
- ✓ Available in PN16 and PN25 pressure ratings, with an operating temperature range from -10°C to 120°C
- ✓ Flow measurement accuracy is $\pm 5\%$ at all open valve positions
- ✓ Designed in accordance with BS 7350 and available as a WRAS Approved Product

Material Specification

Part Name	Material	Specification
Body	Ductile Iron	EN-JS 1040
Bonnet	Ductile Iron	EN-JS 1040
Stem (300-65mm)	Stainless Steel 410	BS410 970S21
Stem (600-350mm)	Stainless Steel 431	BS431 970S21
Disc	EPDM Coated DI	EN-JS 1040
Gland (150-65mm)	Brass	EN 12165 CW617N
Gland (600-200mm)	Ductile Iron	EN-JS 1040
Stem Nut	Brass	EN 12165 CW617N
Hand Wheel	Ductile Iron	EN-JS 1040
Test Valve	Brass	EN 12165 CW602N
Packing	Graphite	

APPLICATION

Suitable for HVAC, chilled water, heating water and water distribution systems where accurate flow measurement, hydraulic balancing, regulation and isolation are required

PRESSURE/ TEMPERATURE RATING

✓ 16/25 bar from -10°C to 120°C

HYDROSTATIC TEST PRESSURE

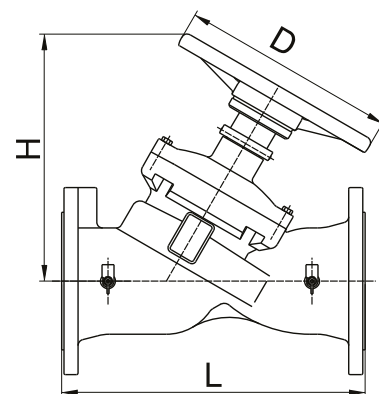
✓ 16PN: Shell - 24 bar Seat - 17.6 bar
✓ 25PN: Shell - 37.5 bar Seat - 27.5 bar

Main Dimensions (mm)

Size	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
L	290	310	350	400	480	600	730	850	980	1100	1200	1250	1450
H	265	270	310	340	340	537	570	690	685	965	1020	1065	1180
D	200	200	240	290	290	350	420	420	420	640	640	640	640
Flow Kv	83.8	119.5	178.7	272.7	380.0	608.0	1292.0	1791.5	2261.0	3769.0	4221.0	4728.0	5674.0
Head K	3.78	5.24	9.53	6.98	5.35	6.26	5.57	6.43	11.40	12.40	13.10	13.50	13.90

Options

- ✓ Variable Orifice Design Provides accurate flow measurement and precise hydraulic balancing
- ✓ Double Regulating Function Allows flow regulation and isolation while retaining the preset flow position
- ✓ $\pm 5\%$ Flow Measurement Accuracy Provides reliable flow verification at all open valve positions
- ✓ Integrated Test Points Enable differential pressure measurement, flow verification, & easy commissioning
- ✓ Y-Pattern Body Design Provides efficient flow characteristics with reduced pressure loss
- ✓ PN16 / PN25 Pressure Ratings Suitable for a wide range of system operating requirements
- ✓ Ductile Iron Construction Provides high mechanical strength, durability and long service life
- ✓ EPDM-Coated Disc Provides reliable shut-off performance
- ✓ WRAS Approved Suitable for approved potable water applications
- ✓ Conforms to BS 7350 Designed for flow measurement and double regulating applications



Notes

Specifications, materials and dimensions shown are subject to change without prior notice

