

INTERNAL THREADED END-CONNECTION LINEAR VALVE PN16

PRODUCT DATA



FEATURES

- Brass body with internal threaded end connections
- Low seat leakage rate
- Self-adjusting packing
- Accurate positioning to ensure state-of-the-art temperature control
- Directly-coupled electric actuators for easy mounting
- Constant total flow throughout full plug travel

SPECIFICATIONS

Action:	Stem up to close port A-AB
Nominal pressure rating:	PN16
Flow characteristic:	equal percentage: port A-AB linear: port B-AB
Rangeability:	50:1
Leakage rate:	≤0.05% of k_{vs}
Stroke:	20 mm
Valve body:	
Pipe connections:	Internal threading as per ISO228
Material:	Brass
Dimensions:	See Fig. 1 on page 2
Trim:	
Seat:	DN15: stainless steel DN20...50: body integrated
Plug:	Brass
Stem:	Stainless steel
Packing:	Spring-loaded carbon fiber reinforced PTFE V-rings
Medium temperature and pressure:	
Water	2 to 120 °C max. 1600 kPa 120 to 170 °C max. 1490 kPa
Max. temperature differential in alternating hot/cold water use:	60 K
Maximum glycol concentration	50%

APPLICATION

Single seated control or shut-off valve for:

- hot water;
- chilled water;;
- domestic hot water;

in heating, ventilation, air conditioning systems, and open circuits.

Operated by electric linear actuators (e.g. AL0620 and AL1820)

SIZES AND FLOW CAPACITIES

Table 1. Size and flow capacity (in m³/h)

Order Number	Valve size	k _{VS} m ³ /h
V163N-15-2.5	DN15	2.5
V163N-15-4.0	DN15	4
V163N-20-6.3	DN20	6.3
V163N-25-10	DN25	10
V163N-32-16	DN32	16
V163N-40-25	DN40	25
V163N-50-40	DN50	40

CLOSE-OFF PRESSURE RATINGS

Electric Actuators

Table 2. Close-off pressure ratings (in kPa) of electric actuators

actuator		valve size					
type	force	DN15	DN20	DN25	DN32	DN40	DN50
AL0620	600 N	1600	1600	1000	700	460	260
AL1820	1800 N	-	-	1600	1600	1500	850

DIMENSIONS

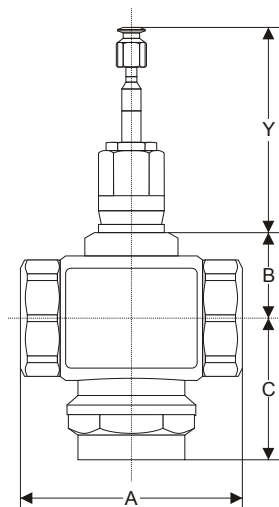


Fig. 1. Dimensions

Table 3. Dimensions (in mm)

valve size	A	B	C	Y
DN15	83	40	65	107
DN20	83		65	
DN25	103		66.5	
DN32	106		72.5	
DN40	120		77	
DN50	134		83.5	

For actuator dimensions, please refer to:

AL0620-24-x, -230-x	TA200898
AL0620-P-x.....	TA200900
AL1820-24-K, -230-K.....	TA200905
AL1820-P-K.....	TA200901

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Trend Control Systems Limited

Albery House, Springfield Road, Horsham, West Sussex, RH12 2PQ, UK. Tel:+44 (0)1403 211888 Fax:+44 (0)1403 241608 www.trendcontrols.com

Trend Control System USA

6670 185th Avenue NE, Redmond, Washington 98052, USA. Tel:(425) 869-3900 Fax:(425) 869-8445 www.trend-americas.com