

ThinkTop® Basic

Alfa Laval ThinkTop® Basic Digital 10-30 VDC PNP/NPN

Concept

The ThinkTop Basic is designed to ensure optimum valve control in conjunction with Alfa Laval butterfly, single-seat and Mixproof valves and it is compatible with all major PLC systems (Programmable Logic Controller) with a digital PNP/NPN interface. It is for use in food, dairy and brewery installations and in biopharmaceutical applications. The ThinkTop Basic fits all air operated valves from Alfa Laval

Working principle

The ThinkTop Basic is a basic control head including sensor board and solenoid valves to control processing valves. It is used to control and supervise pneumatic valves and is mounted on top of the valve. It receives signals from a PLC to control the solenoid valve and it sends the valve status feedback signals back to the PLC. To adapt the sensor board to the specific valve, the users make a simple set-up by using local keys.



TECHNICAL DATA

Communication

Interface Digital
Supply voltage 10-30 VDC

Sensor board

Solenoid valve

Numbers of solenoids 0-3 Manual hold override Yes

Push-in fittings ø6 mm or 1/4"

PHYSICAL DATA

Materials

Plastic partsBlack Nylon PA 6

SealsNitrile (NBR) rubber

Environment

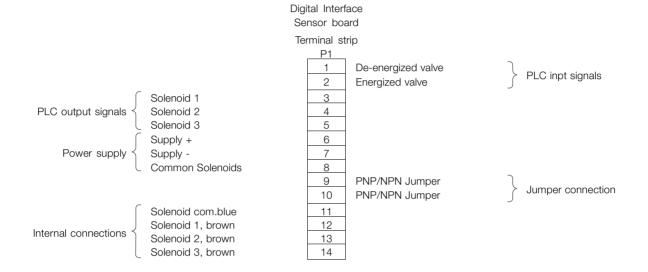
Working temperature-20 °C to +85 °C Protection classIP66 and IP67

Cable connection

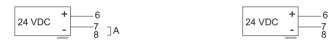
Typical Power Consumption ThinkTop Basic

Test conditions = One ThinkTop Bas	ic connected with 1 feedback active (on) a	nd	
No solenoid valve on	Supply voltage 24 VDC	30 mA	
1 solenoid valve active	Supply voltage 24 VDC	75 mA	
2 solenoid valves active	Supply voltage 24 VDC	120 mA	
3 solenoid valves active	Supply voltage 24 VDC	165 mA	

Electrical connection



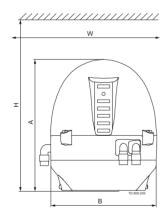
Example of connecting power supplie



A. Jumper if positive activation of solenoids

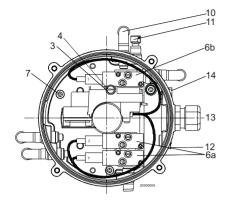
B. Jumper if negative activation of solenoids

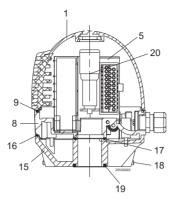
Dimensions



Note! This is the basic design. Recommended clearance around the ThinkTop						
Valve Type	W	Н	Α	В		
Unique SSV NC	225	250	171.6	ø 137		
SMP-SC/-	225	250	171.6	ø 137		
BC/-TO						
Unique Mixproof	225	250	171.6	ø137		
MH	225	250	171.6	ø137		
SBV	225	250	171.6	ø137		
Unique SSV NO	225	320	171.6	ø137		
LKLA-T	225	300	171.6	ø 137		

Basic design





Accessories

- Main cable gland PG11

Ordering

When ordering please purchase the following:

- Digital 10-30 VDC PNP/NPN
- Number of solenoid valves (0-3).
- Type of solenoid valves (3/2 or 5/2).
- Push-in fittings ø6 mm or 1/4"
- Please state if for series 700 valves.
- Special indication pin; 9613158101 For Unique SSV-LS valves
- Special indication pin; 9612637001 For SRC-LS Stop valve size 63.5101.6 mm/DN 65 - 100
- Special indication pin; 9613158101 For Unique SSV High Pressure valve size 76.1101.6 mm/DN 80100

Note!

For further information: See also ESE000225

The ThinkTop has Patented Sensor System, Registered Design and

Registered Trademark owned by Alfa Laval



- 1. Shell
- 2. N/A
- 3. Screw
- 4. Washer
- 5. Sensor board
- 6. Solenoid valve*
- 7. PT screw
- 8. Base
- 9. Special X-ring, grey
- 10. Air fittings
- 11. Blow-off valve
- 12. Thread plug, PG7
- 13. Cable gland, PG11
- 14. Gore Vent. membrane
- 15. Adapter
- 16. Special X-ring, black
- 17. O-ring
- 18. Allen screw
- 19. Special X-ring
- 20. Indication pin
- * 6a: Solenoid valve (3/2)
- * 6b: Solenoid valve (3/2 or 5/2).

Alfa Laval reserves the right to change specifications without prior notification. ALFA LAVAL is a trademark registered and owned by Alfa Laval Corporate AB.

ESE00226EN 1507

© Alfa Laval