

ThinkTop® Basic

ThinkTop® Basic Digital 10-30 VDC PNP/NPN

Concept

The ThinkTop Basic is designed to ensure optimum valve control in conjunction with Alfa Laval sanitary 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

 Supply voltage
 ...
 24 VDC ± 10%, 1 W

 Air supply
 ...
 300-900 kPa (3-9 bar)

 Type of solenoids
 ...
 3/2-ways or 5/2-ways

Numbers of solenoids 0-3

Manual hold override Yes

Push-in fittings ø6 mm or 1/4"

PHYSICAL DATA

Materials

SealsNitrile (NBR) rubber

Environment

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

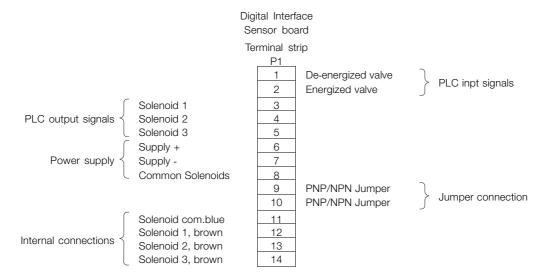
Cable connection



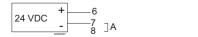
Typical Power Consumption ThinkTop Basic

Test conditions = One ThinkTop Basic connected with 1 feedback active (on) and			
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

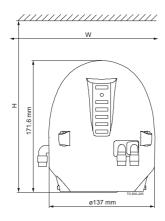




A. Jumper if positive activation of solenoids

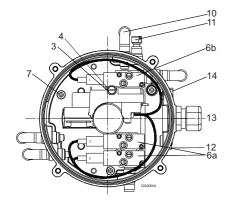
B. Jumper if negative activation of solenoids

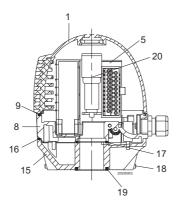
Dimensions



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

Basic design





- 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).

Accessories

- Main cable gland PG11

Please state the following when ordering:

- Digital 10-30 VDC PNP/NPN
- Number of solenoid valves (0-3).
- Push-in fittings ø6 mm or 1/4"

- Type of solenoid valves (3/2 or 5/2).
- Please state if for series 700 valves.

- Special indication pin; 9613-1581-01 For Unique SSV-LS valves
- Special indication pin; 9612-6370-01 For SRC-LS Stop valve size 63.5-101.6 mm/DN 65 - 100
- Special indication pin; 9613-1581-01 For Unique SSV High Pressure valve size 76.1-101.6 mm/DN 80-100

Note!

For further information: See also ESE000225

The ThinkTop has Patented Sensor System, Registered Design and Registered Trademark owned by Alfa Laval



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

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Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.