



# ThinkTop® Basic

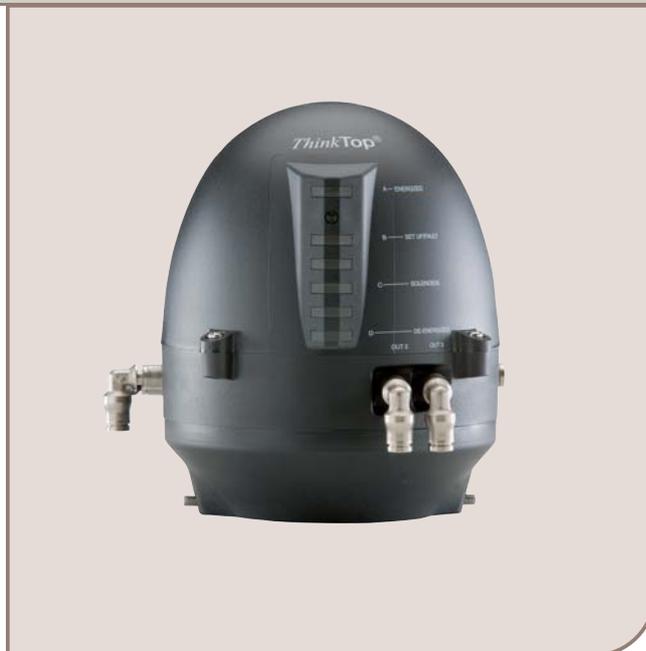
ThinkTop® Basic AS-Interface 62 node

## 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	AS-Interface v3.0, 62 node
Supply voltage	29.5V - 31.6 VDC
Slave profile v3.0	7.A.7.7
Default slave address	0

### Sensor board

Power supply	24 VDC, 1 W
Feedback signal #1	De-energized valve
Feedback signal #2	Energized valve
Feedback signal #3	Status
Valve tolerance band	1-5
Preset tolerance band	± 5 mm
Sensor accuracy	± 0.1 mm
Stroke length	0.1 - 80 mm

### 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

Plastic parts	Black Nylon PA 6
Steel parts	1.4301 (304) and 1.4404 (316)
Seals	Nitrile (NBR) rubber

### Environment

Working temperature	-20°C to +85°C
Protection class	IP66 and IP67

### Cable connection

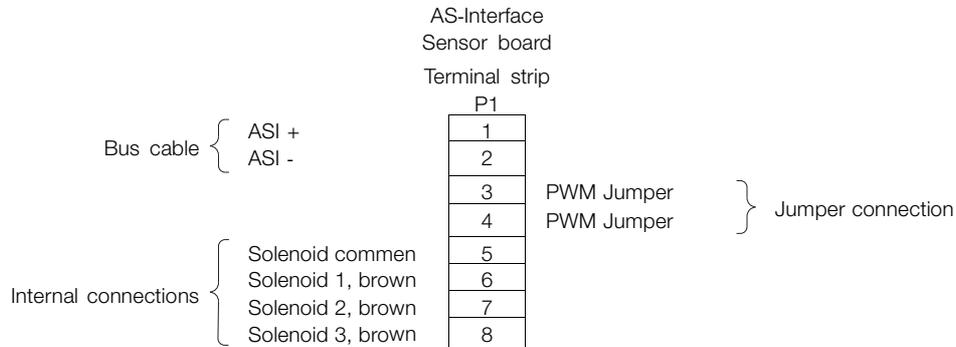
Main cable gland	PG11 (ø4 - ø10 mm)
Max wire diameter	0.75 mm <sup>2</sup> (AWG 20)



## Typical Power Consumption ThinkTop

Test conditions = One ThinkTop 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

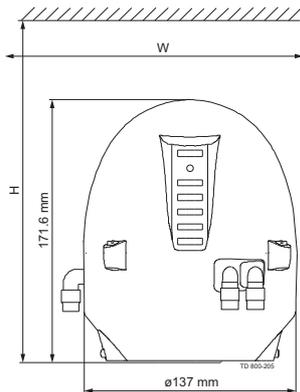


## AS-Interface bits assignment

For AS-Interface version with 62 node, the following bit assignment can be used

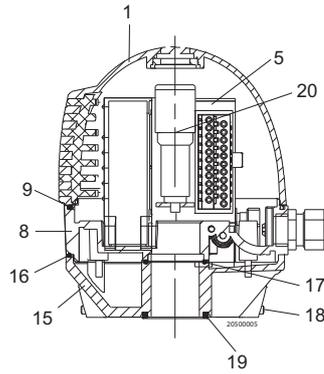
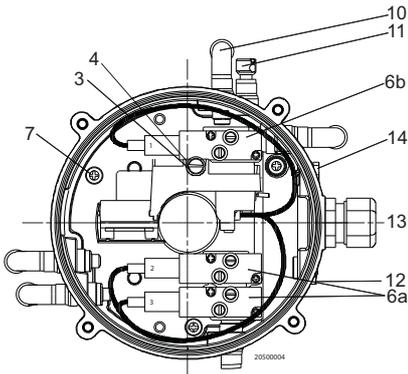
DI0	Feedback #1 De-Energised valve
DI1	Feedback #2 Energised valve
DI2	Feedback #3 Not connected
DI3	Feedback #4 Status
DO0	Out #1 Not Connected
DO1	Out #2 Solenoid valve 1
DO2	Out #3 Solenoid valve 2
DO3	Out #4 Solenoid valve 3

## Dimensions



Note! This is the basic design. Recommended clearance around the ThinkTop		
Valve Type	W	H
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).

## Options

- 2 m drop-cable (2 x 0.5 mm<sup>2</sup>) with ASI flat cable connector;  
9611-99-3518

## Accessories

- Main cable gland PG11

## Ordering

Please state the following when ordering:

- ThinkTop Basic AS-Interface v3.0, 62 node
- Number of solenoid valves (0-3).
- Type of solenoid valves (3/2 or 5/2).
- Push-in fittings  $\varnothing$ 6 mm or 1/4"
- 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 ESE000356

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



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