Silent Technology
KANEKO

APO20-Serial
Introduction
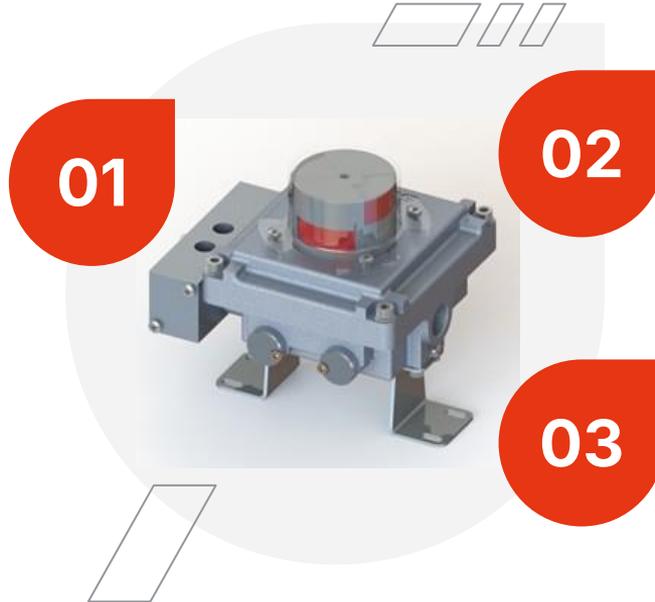
Table of Contents

1. Problem & Opportunity
Problems of the popular Limit Switch

High Cost

200-300 USD / 1pcs
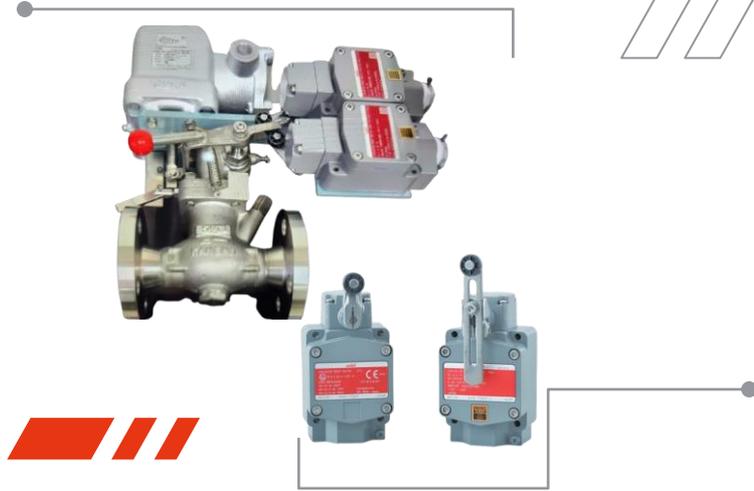
Long delivery time

4 months

AZBIL 1LX7001-_____

1. Problem & Opportunity

Why You Need This Product

Indicators and Limit Switches with On/Off Solenoid Valve

Reducing Cost

Reducing delivery time

Installation & Maintenance are easy after wiring

APO20
Solve these
Your problems

2. APO20 - Serial
What Makes APO20 Stand Out

External Limit Switch Adjustment

No need to open housing – reduces downtime & enhances safety

01

High accuracy

Ensures accurate signal feedback and Indicator

02

NAMUR Mounting Compatible

Fits industry-standard actuator interfaces

03

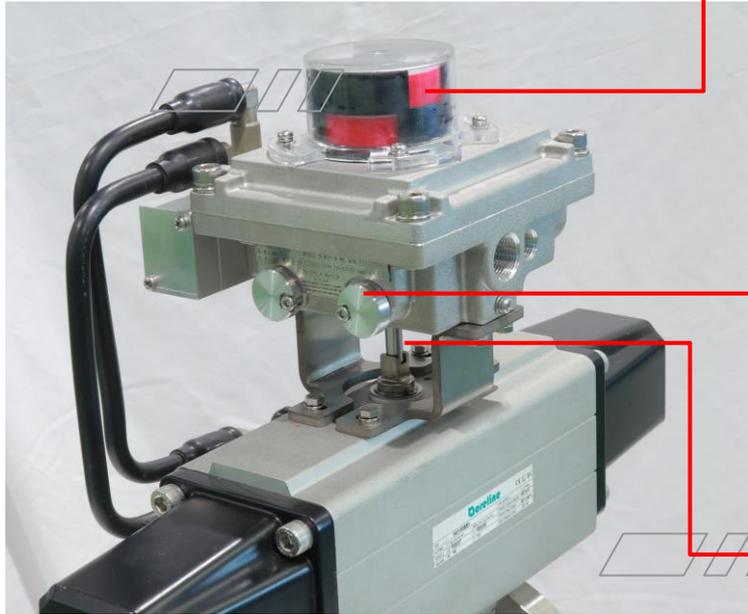**Large-Flow Solenoid Valve Integrated**

Ensures efficient actuation for demanding applications

04

2. APO20 - Serial
What Makes APO20 Stand Out

Indicator
Monitor the status of the Actuator.
Visually detect these deviations quickly with a built-in degree scale on the position indicator.

Limit Switch Adjustment
Allows users to fine-tune the position of the internal limit switches within a range of **±10 degrees**, without needing to remove the housing or expose internal components.

NAMUR Mounting
Making it compatible with a wide range of actuators and pneumatic cylinders on the market.
If your actuator or system requires non-standard mounting or a specific configuration, we can design custom solutions to fit your needs.

2. APO20 - Serial
What Makes APO20 Stand Out

Solenoid Valve

APO20 comes with a fully integrated **4-way Solenoid valve.** Ensures fast, reliable air switching with high flow capacity
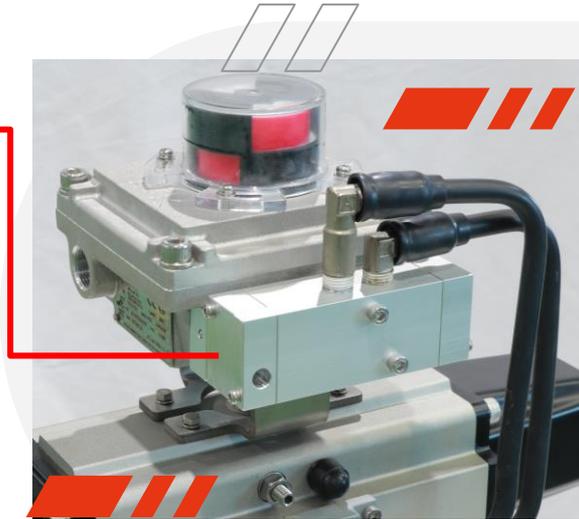
Specifications

Function:	5 ports - pilot
Fluid:	Clean Air
Working Pre.:	0.2~ 0.99MPa
Working Temp:	-20~+60℃
CV value:	1.2
Seal Materials:	NBR
Connection:	Rc1/4, NPT1/4

2. APO20 - Serial

What Makes APO20 Stand Out
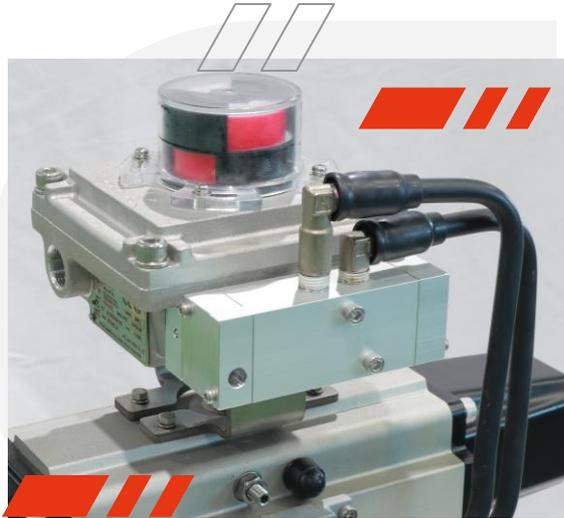
Explosive Atmosphere Specifications

Marking & Certificate Number (Schedule)

Marking: Ex db IIB+H_2 T6…T5 Gb

Certificate No. :

IECEx: DEK25.0023X

ATEX: 25ATEX0044X

Type of Explosive Atmosphere	GAS
Category	II2G
Type of Protection	db
Group	IIB+H_2
Temperature Class	T6…T5
Ta	T6 :- 40 ≤ Ta ≤ +40°C
Ta(APO20-□-□□-□□□-□-□□□)	T5 :- 40 ≤ Ta ≤ +60°C
Equipment Protection Level	Gb

2. APO20 - Serial
SPECIFICATIONS

SPECIFICATIONS	Model A	Model B	Model C	Model D
Function	Limit Switches with Adjuster, Indicator, and 4-way Solenoid Valve	Limit Switches with Adjuster and Indicator (None Solenoid Valve)	Limit Switches and Indicator, and 4-way Solenoid Valve (None Limit Switch Adjuster)	Limit Switches and Indicator (None Solenoid Valve None Limit Switch Adjuster)
Solenoid rated voltage	AC/DC 100V~110V or AC/DC 200V~220V or DC24V	None	AC/DC 100V~110V or AC/DC 200V~220V or DC24V	None
Fluid	Clean air	None	Clean air	None
Operating pressure	0.20MPa~0.99 MPa	None	0.20MPa~0.99 MPa	None
Ambient temperature	- 40℃ to +60 ℃			
Cv value	1.2	None	1.2	None
Allowable voltage fluctuation	Max +10% Min -10 % (refer to the standard voltage)	None	Max +10% Min -10 % (refer to the standard voltage)	None
Seal material	NBR			
Nominal pipe size	Rc1/4 or NPT1/4	None	Rc1/4 or NPT1/4	None
Oring material	NBR or VMQ			
Material of Body	**Stainless Steel:** SCS13A/A351 Gr.CF-8 or SCS14A/A351 Gr.CF-8M or SCS16A/A351 Gr.CF-3M **Aluminum:** AC4C T6 or 356 or A356			
Micro switch	30VDC – 0.1A/125VAC – 0.1A or 250VAC – 5.0A			
Electrical connection type	M20 x P1.5 or NPT 1/2			

3. Nominal model number

APO20 - □ - □ - □ □ □ - □ - □ □ □ - □

1 **2** **3** **4** **5** **6** **7** **8** **9** **10**

No.	ITEM	CODE	SPECIFICATIONS
1	Function	A	Limit Switches with Adjuster, Indicator, and 4-way Solenoid Valve
		B	Limit Switches with Adjuster and Indicator (None Solenoid Valve)
		C	Limit Switches, Indicator, and 4-way Solenoid Valve (None Limit Switch Adjuster)
		D	Limit Switches and Indicator (None Solenoid Valve None Limit Switch Adjuster)
2	Rated Voltage	N	None (Function B,D)
		1	AC100V, 110V,120V, DC 100V,110V
		2	AC 200V, 220V,230V DC 200V,220V
		3	DC24V

No.	ITEM	CODE	SPECIFICATIONS
3	Nominal Pipe Size	N	None (Function B,D)
		8	Rc1/4
		8N	NPT1/4
4	Explosion-Proof Code	W1	No explosion protection
		G1	IECEx
		G2	ITRI
		G3	JPEx (T5)
		G4	KCs
		G5	NEPSI
		G6	FM
		G7	EAC
		G8	JPEx (T6)

3. Nominal model number

AP020 - □ - □ - □ □ □ - □ - □ □ □ - □

1 **2** **3** **4** **5** **6** **7** **8** **9** **10**

No.	ITEM	CODE	SPECIFICATIONS
5	Material of Body	B	SCS13A or A351 Gr.CF-8
		C	SCS14A or A351 Gr.CF-8M
		D	SCS16A or A351 Gr.CF-3M
		E	AC4C T6 or 356 or A356
6	Limit switch	L	30VDC – 0.1A 125VAC – 0.1A
		H	250VAC – 5.0A

No.	ITEM	CODE	SPECIFICATIONS
7	Electrical Connection Type	M	M20 x P1.5
		N	NPT1／2 x P1.814
8	Painting	N	Standard (Stainless steel is unpainted)
		S	Special
9	Cable Gland	N	None
		S	Saftec Corp. SFLU10-M Type Flameproof Cable Gland(Only JPEx)
10	Optional		