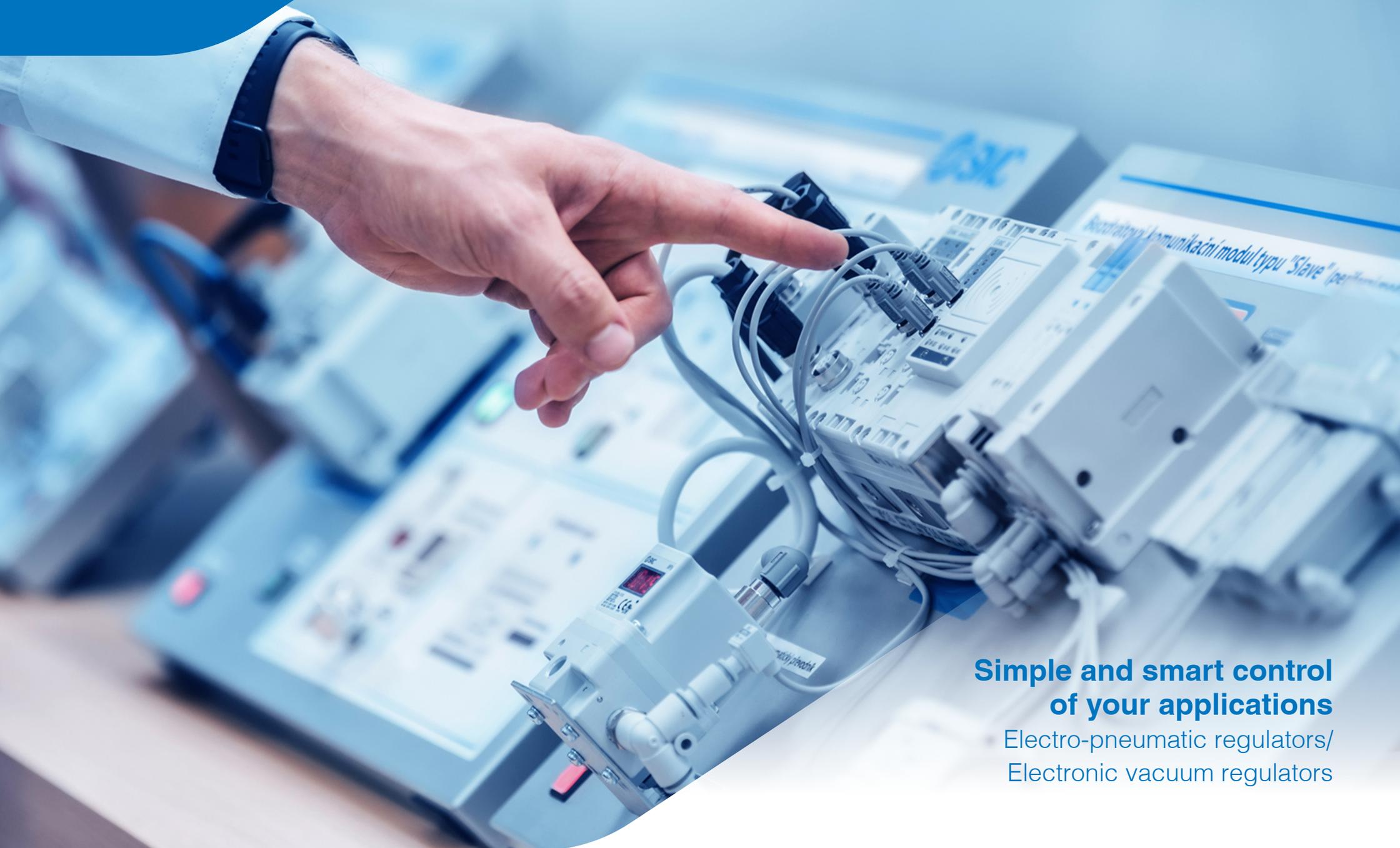




Expertise – Passion – Automation



**Simple and smart control  
of your applications**

Electro-pneumatic regulators/  
Electronic vacuum regulators

## Electro-pneumatic regulators are the ideal partners for smart pressure control

Electro-pneumatic regulators are devices that combine the precision of electronics with the power of pneumatics. They use an electrical signal to control a pneumatic output, essentially translating an electronic command into air pressure control. This allows for **precise regulation** of air pressure in a system, making them ideal for applications that require both control and force, like automating factory processes or maintaining pressure in large systems.

SMC offers a **wide range of products**. Covering everything from vacuum to high pressure ranges, versions for different applicable fluids, single or manifold mounting, etc. The technical features offered like pressure range and accuracy, ensure **reliable and stable air pressure**, which is crucial for **effective installation performance**.

At SMC we're helping our customers go towards **Smart Manufacturing**, as we help our customers to improve the **efficiency and productivity** of their processes with **digitalisation and automation**, thanks to various **communication interfaces**. The latest addition on the road to digitalisation is the **IO-Link** interface, becoming it a key asset that acts as an ally to **customised and flexible production**.

*“Simple and smart control of your applications”*



# Fluid

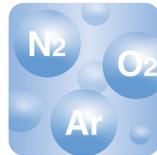
Select your fluid and we will show you the full range of solutions we have available.



**Air**



**Vacuum**



**Nitrogen, oxygen,  
argon**



**High pressure**



Air



Vacuum

Nitrogen,  
oxygen, argon

High pressure



**Electro-pneumatic regulator**  
ITV1000/2000/3000 Series



**Electro-pneumatic regulator,  
high flow rate**  
ITV1100/2100/3100 Series



**Compact electro-pneumatic  
regulator**  
ITV0000 Series



**Compact electro-pneumatic  
vacuum regulator**  
ITV0090 Series



**Electro-pneumatic vacuum  
regulator**  
ITV2090 Series



**High pressure electro-  
pneumatic regulator**  
ITVX Series



**High pressure electro-  
pneumatic regulator**  
ITVH Series



**Electro-pneumatic regulator,  
manifold type**  
IITV23 Series



**Compact electro-pneumatic  
regulator, manifold type**  
IITV00 Series



**Electro-pneumatic regulator  
for battery manufacturing**  
25A-ITV1000/2000/3000 Series



**Electro-pneumatic vacuum  
regulator for battery  
manufacturing**  
25A-ITV2090 Series

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**Electro-pneumatic regulator  
for food industry**  
HF1-ITV2000/3000 Series

Ask our experts



Air



Vacuum

Nitrogen,  
oxygen, argon

High pressure



**Compact electro-pneumatic  
vacuum regulator**  
ITV0090 Series



**Electro-pneumatic vacuum  
regulator**  
ITV2090 Series



**Electro-pneumatic vacuum  
regulator for battery  
manufacturing**  
25A-ITV2090 Series

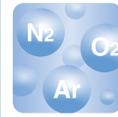
[Ask our experts](#)



Air



Vacuum



**Nitrogen,  
oxygen, argon**



High pressure



**High pressure electro-  
pneumatic regulator**  
ITVX Series





Air



Vacuum



Nitrogen,  
oxygen, argon



**High pressure**



**High pressure electro-pneumatic regulator**  
ITVX Series



**High pressure electro-pneumatic regulator**  
ITVH Series



## Communication model

Select the communication option that best suits your needs and we will show you the full range of solutions we have available.










### Trademark

DeviceNet® is a registered trademark of ODVA, Inc.

EtherNet/IP® is a registered trademark of ODVA, Inc.

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

CC-Link V2

DeviceNet

PROFIBUS

IO-Link

RS-232C  
specification

PROFINET

EtherNet/IP

EtherCAT



### Electro-pneumatic regulator

ITV1000/2000/3000 Series



### Electro-pneumatic vacuum regulator

ITV2090 Series



### Electro-pneumatic regulator for battery manufacturing

25A-ITV1000/2000/3000 Series

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### Electro-pneumatic vacuum regulator for battery manufacturing

25A-ITV2090 Series

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CC-Link V2

DeviceNet

PROFINET  
BUS

IO-Link

RS-232C  
specificationPROFINET  
NET

EtherNet/IP

EtherCAT



### Electro-pneumatic regulator

ITV1000/2000/3000 Series



### Electro-pneumatic vacuum regulator

ITV2090 Series



### Electro-pneumatic regulator for battery manufacturing

25A-ITV1000/2000/3000 Series

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### Electro-pneumatic vacuum regulator for battery manufacturing

25A-ITV2090 Series

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#### Trademark

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CC-Link V2

DeviceNet

**PROFIBUS**

IO-Link

RS-232C specification

**PROFINET**

EtherNet/IP

EtherCAT



**Electro-pneumatic regulator**  
ITV1000/2000/3000 Series



**Electro-pneumatic vacuum regulator**  
ITV2090 Series



**Electro-pneumatic regulator for battery manufacturing**  
25A-ITV1000/2000/3000 Series

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**Electro-pneumatic vacuum regulator for battery manufacturing**  
25A-ITV2090 Series

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**Electro-pneumatic regulator**  
ITV1000/2000/3000 Series



**Electro-pneumatic vacuum regulator**  
ITV2090 Series



**Electro-pneumatic regulator for battery manufacturing**  
25A-ITV1000/2000/3000 Series

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**Electro-pneumatic vacuum regulator for battery manufacturing**  
25A-ITV2090 Series

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specification

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EtherNet/IP

EtherCAT



### Electro-pneumatic regulator

ITV1000/2000/3000 Series



### Electro-pneumatic vacuum regulator

ITV2090 Series



### Electro-pneumatic regulator for battery manufacturing

25A-ITV1000/2000/3000 Series

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### Electro-pneumatic vacuum regulator for battery manufacturing

25A-ITV2090 Series

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IO-Link

RS-232C specification

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EtherNet/IP

EtherCAT



**Electro-pneumatic regulator,  
manifold type**  
IITV23 Series



CC-Link V2

DeviceNet

PROFIBUS

IO-Link

RS-232C  
specification

PROFINET

**EtherNet/IP**

EtherCAT



**Electro-pneumatic regulator,  
manifold type**  
IITV23 Series

**Trademark**

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DeviceNet

PROFIBUS

IO-Link

RS-232C  
specification

PROFINET

EtherNet/IP

EtherCAT



**Electro-pneumatic regulator,  
manifold type**  
IITV23 Series



#### Trademark

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

## Input signal

Select the input signal option that best suits your needs and we will show you the full range of solutions we have available.

**Analogue current**

**Analogue voltage**

**4 points preset input**

**16 points preset input**

**10-bit digital input**

## Analogue current

## Analogue voltage

## 4 points preset input

## 16 points preset input

## 10-bit digital input



**Electro-pneumatic regulator**  
ITV1000/2000/3000 Series



**Electro-pneumatic regulator, high flow rate**  
ITV1100/2100/3100 Series



**Compact electro-pneumatic regulator**  
ITV0000 Series



**Compact electro-pneumatic vacuum regulator**  
ITV0090 Series



**Electro-pneumatic vacuum regulator**  
ITV2090 Series



**High pressure electro-pneumatic regulator**  
ITVX Series



**High pressure electro-pneumatic regulator**  
ITVH Series



**Compact electro-pneumatic regulator, manifold type**  
IITV00 Series



**Electro-pneumatic regulator for battery manufacturing**  
25A-ITV1000/2000/3000 Series



**Electro-pneumatic vacuum regulator for battery manufacturing**  
25A-ITV2090 Series

[Ask our experts](#)



**Electro-pneumatic regulator for food industry**  
HF1-ITV2000/3000 Series

[Ask our experts](#)

Analogue  
current

Analogue  
voltage

4 points preset  
input

16 points preset  
input

10-bit digital  
input



**Electro-pneumatic regulator**  
ITV1000/2000/3000 Series



**Electro-pneumatic regulator,  
high flow rate**  
ITV1100/2100/3100 Series



**Compact electro-pneumatic  
regulator**  
ITV0000 Series



**Compact electro-pneumatic  
vacuum regulator**  
ITV0090 Series



**Electro-pneumatic vacuum  
regulator**  
ITV2090 Series



**High pressure electro-  
pneumatic regulator**  
ITVX Series



**High pressure electro-  
pneumatic regulator**  
ITVH Series



**Compact electro-pneumatic  
regulator, manifold type**  
IITV00 Series



**Electro-pneumatic regulator  
for battery manufacturing**  
25A-ITV1000/2000/3000 Series



**Electro-pneumatic vacuum  
regulator for battery  
manufacturing**  
25A-ITV2090 Series

Ask our experts



**Electro-pneumatic regulator  
for food industry**  
HF1-ITV2000/3000 Series

Ask our experts

**Analogue  
current**

**Analogue  
voltage**

**4 points preset  
input**

**16 points preset  
input**

**10-bit digital  
input**



**Electro-pneumatic regulator**  
ITV1000/2000/3000 Series



**High pressure electro-  
pneumatic regulator**  
ITVH Series



**Electro-pneumatic regulator  
for food industry**  
HF1-ITV2000/3000 Series

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**Electro-pneumatic regulator,  
high flow rate**  
ITV1100/2100/3100 Series



**Electro-pneumatic regulator  
for battery manufacturing**  
25A-ITV1000/2000/3000 Series



**Electro-pneumatic vacuum  
regulator**  
ITV2090 Series



**Electro-pneumatic vacuum  
regulator for battery  
manufacturing**  
25A-ITV2090 Series

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**Analogue  
current**

**Analogue  
voltage**

**4 points preset  
input**

**16 points preset  
input**

**10-bit digital  
input**



**Electro-pneumatic regulator**  
ITV1000/2000/3000 Series



**Electro-pneumatic regulator  
for battery manufacturing**  
25A-ITV1000/2000/3000 Series

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**Electro-pneumatic regulator,  
high flow rate**  
ITV1100/2100/3100 Series



**Electro-pneumatic vacuum  
regulator for battery  
manufacturing**  
25A-ITV2090 Series

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**Electro-pneumatic vacuum  
regulator**  
ITV2090 Series



**Electro-pneumatic regulator  
for food industry**  
HF1-ITV2000/3000 Series

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**Analogue  
current**

**Analogue  
voltage**

**4 points preset  
input**

**16 points preset  
input**

**10-bit digital  
input**



**Electro-pneumatic regulator**  
ITV1000/2000/3000 Series



**Electro-pneumatic vacuum  
regulator**  
ITV2090 Series



# Applications & Industries

Find your industry and discover our offer.



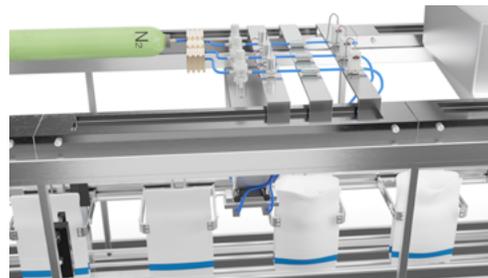
**Tension control in printing**



**Laser machining**



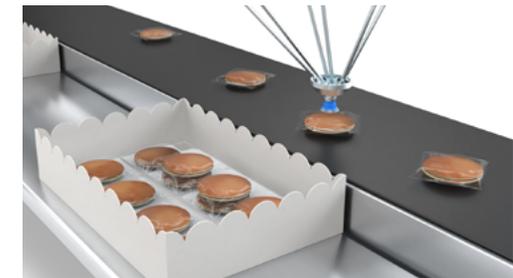
**Beverage**



**Packaging**



**Battery manufacturing**



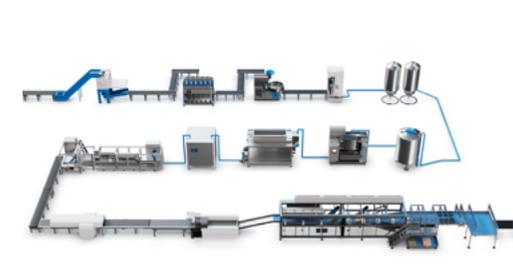
**Food**



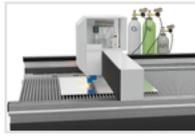
**Semiconductor**



**Automotive welding**



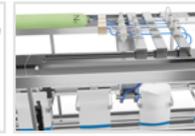
**Local pressure adjustment in general automation**



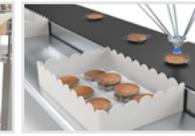
Laser machining



Beverage



Packaging

Battery  
manufacturing

Food



Semiconductor

Automotive  
weldingLocal pressure  
adjustment  
in general  
automation

## Tension control in printing



**Electro-pneumatic regulator**  
ITV1000/2000/3000 Series



**Electro-pneumatic regulator,  
high flow rate**  
ITV1100/2100/3100 Series



**Compact electro-pneumatic  
regulator**  
ITV0000 Series



**High pressure electro-  
pneumatic regulator**  
ITVH Series



**Electro-pneumatic regulator,  
manifold type**  
IITV23 Series



**Compact electro-pneumatic  
regulator, manifold type**  
IITV00 Series





Tension control in printing



## Laser machining



**High pressure electro-pneumatic regulator**  
ITVX Series



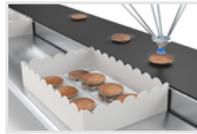
Beverage



Packaging



Battery manufacturing



Food



Semiconductor



Automotive welding



Local pressure adjustment in general automation

Tension control  
in printing

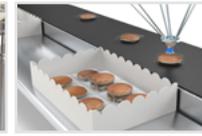
Laser machining



## Beverage



Packaging

Battery  
manufacturing

Food



Semiconductor

Automotive  
weldingLocal pressure  
adjustment  
in general  
automation

Only for applications where the fluid does not come into direct contact with the beverage.



**Electro-pneumatic regulator**  
ITV1000/2000/3000 Series



**Electro-pneumatic regulator,  
high flow rate**  
ITV1100/2100/3100 Series



**High pressure electro-  
pneumatic regulator**  
ITVH Series



**Electro-pneumatic regulator,  
manifold type**  
IITV23 Series





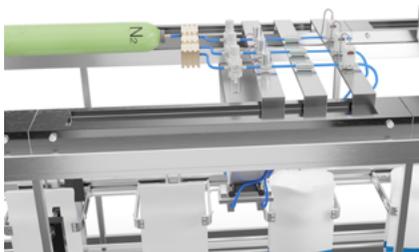
Tension control in printing



Laser machining



Beverage



Packaging



Battery manufacturing



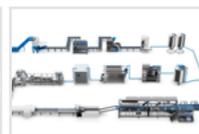
Food



Semiconductor



Automotive welding



Local pressure adjustment in general automation



**Electro-pneumatic regulator**  
ITV1000/2000/3000 Series



**Electro-pneumatic regulator, high flow rate**  
ITV1100/2100/3100 Series



**Compact electro-pneumatic regulator**  
ITV0000 Series



**Compact electro-pneumatic vacuum regulator**  
ITV0090 Series



**Electro-pneumatic vacuum regulator**  
ITV2090 Series



**High pressure electro-pneumatic regulator**  
ITVH Series



**Electro-pneumatic regulator, manifold type**  
IITV23 Series



**Compact electro-pneumatic regulator, manifold type**  
IITV00 Series





Tension control in printing



Laser machining



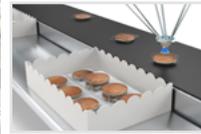
Beverage



Packaging



## Battery manufacturing



Food



Semiconductor



Automotive welding



Local pressure adjustment in general automation



**Electro-pneumatic vacuum regulator for battery manufacturing**  
25A-ITV2090 Series

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**Electro-pneumatic regulator for battery manufacturing**  
25A-ITV1000/2000/3000 Series

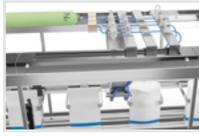


Tension control  
in printing

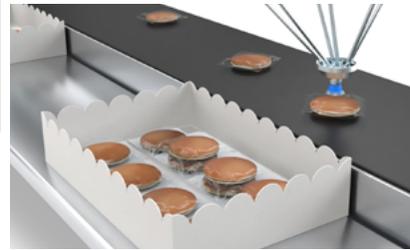
Laser machining



Beverage



Packaging

Battery  
manufacturing

## Food



Semiconductor

Automotive  
weldingLocal pressure  
adjustment  
in general  
automation

Only for applications where the fluid does not come into direct contact with the beverage.



### Electro-pneumatic regulator ITV1000 Series



### Electro-pneumatic regulator for food industry

HF1-ITV2000/3000 Series

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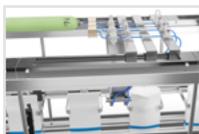
Tension control in printing



Laser machining



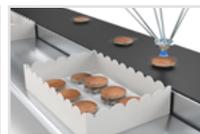
Beverage



Packaging



Battery manufacturing



Food



Semiconductor



Automotive welding



Local pressure adjustment in general automation



**Electro-pneumatic regulator**  
ITV1000/2000/3000 Series



**Electro-pneumatic regulator, high flow rate**  
ITV1100/2100/3100 Series



**Compact electro-pneumatic regulator**  
ITV0000 Series



**Compact electro-pneumatic vacuum regulator**  
ITV0090 Series



**Electro-pneumatic vacuum regulator**  
ITV2090 Series



**High pressure electro-pneumatic regulator**  
ITVH Series



**Electro-pneumatic regulator, manifold type**  
IITV23 Series



**Compact electro-pneumatic regulator, manifold type**  
IITV00 Series





Tension control in printing



Laser machining



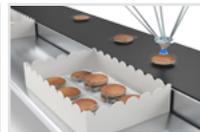
Beverage



Packaging



Battery manufacturing



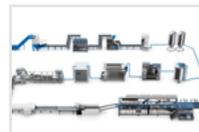
Food



Semiconductor



**Automotive welding**



Local pressure adjustment in general automation



**High pressure electro-pneumatic regulator**  
ITVH Series

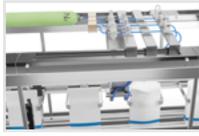


Tension control  
in printing

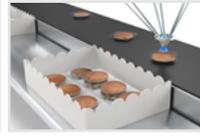
Laser machining



Beverage



Packaging

Battery  
manufacturing

Food



Semiconductor

Automotive  
welding

## Local pressure adjustment in general automation



**Electro-pneumatic regulator**  
ITV1000/2000/3000 Series



**Electro-pneumatic regulator,  
high flow rate**  
ITV1100/2100/3100 Series



**Compact electro-pneumatic  
regulator**  
ITV0000 Series



**Compact electro-pneumatic  
vacuum regulator**  
ITV0090 Series



**Electro-pneumatic vacuum  
regulator**  
ITV2090 Series



**High pressure electro-  
pneumatic regulator**  
ITVH Series



**Electro-pneumatic regulator,  
manifold type**  
IITV23 Series

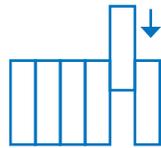


**Compact electro-pneumatic  
regulator, manifold type**  
IITV00 Series

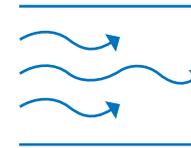


# Features

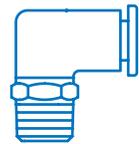
Look through the different features of our electro-pneumatic regulators' range and select the ones that fulfill your requirements.



**Mounting type**



**Maximum flow rate**



**Port size**



**Display**



## Mounting type



## Maximum flow rate



## Port size



## Display

### Single mounting

### Manifold mounting



#### Electro-pneumatic regulator

ITV1000/2000/3000 Series



#### Electro-pneumatic regulator, high flow rate

ITV1100/2100/3100 Series



#### Compact electro-pneumatic regulator

ITV0000 Series



#### Compact electro-pneumatic vacuum regulator

ITV0090 Series



#### Electro-pneumatic vacuum regulator

ITV2090 Series



#### High pressure electro- pneumatic regulator

ITVX Series



#### High pressure electro- pneumatic regulator

ITVH Series



#### Electro-pneumatic regulator for battery manufacturing

25A-ITV1000/2000/3000 Series



#### Electro-pneumatic vacuum regulator for battery manufacturing

25A-ITV2090 Series

[Ask our experts](#)



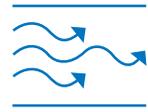
#### Electro-pneumatic regulator for food industry

HF1-ITV2000/3000 Series

[Ask our experts](#)



## Mounting type



## Maximum flow rate



## Port size



## Display

### Single mounting

### Manifold mounting



**Electro-pneumatic regulator,  
manifold type**  
IITV23 Series



**Compact electro-pneumatic  
regulator, manifold type**  
IITV00 Series

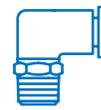




## Mounting type



## Maximum flow rate



## Port size



## Display



### Electro-pneumatic regulator ITV1000/2000/3000 Series



ITV1000: 200 l/min (ANR)  
ITV2000: 1500 l/min (ANR)  
ITV3000: 4000 l/min (ANR)



### Electro-pneumatic regulator, high flow rate ITV1100/2100/3100 Series



ITV1100: 800 l/min (ANR)  
ITV2100: 2190 l/min (ANR)  
ITV3100: 4400 l/min (ANR)



### Compact electro-pneumatic regulator ITV0000 Series



6 l/min (ANR)



### Compact electro-pneumatic vacuum regulator ITV0090 Series



4 l/min (ANR)



### Electro-pneumatic vacuum regulator ITV2090 Series



132 l/min (ANR)



### High pressure electro- pneumatic regulator ITVX Series



3000 l/min (ANR)



### High pressure electro- pneumatic regulator ITVH Series



3000 l/min (ANR)



### Electro-pneumatic regulator, manifold type IITV23 Series



1500 l/min (ANR)



### Compact electro-pneumatic regulator, manifold type IITV00 Series



6 l/min (ANR)



### Electro-pneumatic regulator for battery manufacturing 25A-ITV1000/2000/3000 Series



25A-ITV1000: 200 l/min (ANR)  
25A-ITV2000: 1500 l/min (ANR)  
25A-ITV3000: 4000 l/min (ANR)



### Electro-pneumatic vacuum regulator for battery manufacturing 25A-ITV2090 Series

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132 l/min (ANR)



### Electro-pneumatic regulator for food industry HF1-ITV2000/3000 Series

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HF1-ITV2000: 1500 l/min (ANR)  
HF1-ITV3000: 4000 l/min (ANR)



## Mounting type



## Maximum flow rate



## Port size



## Display



### Electro-pneumatic regulator

ITV1000/2000/3000 Series



ITV1000: 1/8, 1/4  
ITV2000: 1/4, 3/8  
ITV3000: 1/4, 3/8, 1/2



### Electro-pneumatic regulator, high flow rate

ITV1100/2100/3100 Series



ITV1100: 1/4  
ITV2100: 1/4, 3/8  
ITV3100: 1/4, 3/8, 1/2



### Compact electro-pneumatic regulator

ITV0000 Series



Ø 4, Ø 5/32"



### Compact electro-pneumatic vacuum regulator

ITV0090 Series



Ø 4, Ø 5/32", 1/4



### Electro-pneumatic vacuum regulator

ITV2090 Series



1/4



### High pressure electro- pneumatic regulator

ITVX Series



3/8



### High pressure electro- pneumatic regulator

ITVH Series



1/4, 3/8



### Electro-pneumatic regulator, manifold type

IITV23 Series



Modular (direct output type Ø 10)



### Compact electro-pneumatic regulator, manifold type

IITV00 Series



Ø 4, Ø 5/32", Ø 6 (only sup. port)



### Electro-pneumatic regulator for battery manufacturing

25A-ITV1000/2000/3000 Series



25A-ITV1000: 1/4  
25A ITV2000: 1/4, 3/8  
25A ITV3000: 1/4, 3/8, 1/2



### Electro-pneumatic vacuum regulator for battery manufacturing

25A-ITV2090 Series

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1/4



### Electro-pneumatic regulator for food industry

HF1-ITV2000/3000 Series

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HF1-ITV2000: 1/4, 3/8  
HF1-ITV3000: 1/4, 3/8, 1/2



## Mounting type



## Maximum flow rate



## Port size



## Display

### With display

### Without display



#### Electro-pneumatic regulator ITV1000/2000/3000 Series



#### Electro-pneumatic regulator, high flow rate ITV1100/2100/3100 Series



#### Electro-pneumatic vacuum regulator ITV2090 Series



#### High pressure electro- pneumatic regulator ITVX Series



#### High pressure electro- pneumatic regulator ITVH Series



#### Electro-pneumatic regulator, manifold type IITV23 Series



#### Electro-pneumatic regulator for battery manufacturing 25A-ITV1000/2000/3000 Series



#### Electro-pneumatic vacuum regulator for battery manufacturing 25A-ITV2090 Series

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#### Electro-pneumatic regulator for food industry HF1-ITV2000/3000 Series

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There is no led display for CC-Link, DeviceNet®, PROFIBUS DP, RS-232C specification.



**Mounting type**



**Maximum flow rate**



**Port size**



**Display**

**With display**

**Without display**



**Compact electro-pneumatic regulator**  
ITV0000 Series



**Compact electro-pneumatic vacuum regulator**  
ITV0090 Series



Ø 4, Ø 5/32", 1/4



**Compact electro-pneumatic regulator, manifold type**  
IITV00 Series



## Selected part numbers



### Electro-pneumatic regulator ITV1000/2000/3000 Series



- Applicable fluid: air
- Max. flow rate: 4000 l/min (ANR)
- Enclosure: IP65
- Digital pressure display.

Part number	Set pressure [MPa]	Power voltage [VDC]	Input signal	Monitor output	Thread type	Port size	Pressure display unit	
ITV1030-31F1N3	0.005 to 0.5	24 ± 10 %	Voltage type 0 to 10 VDC	Voltage type 1 to 5 VDC	G	1/8	bar	
ITV1030-01F1N			Current type 4 to 20 mADC (Sink type)				MPa	
ITV1030-ILF1N3			IO-Link	—			bar	
ITV1050-31F1N3	0.005 to 0.9		Voltage type 0 to 10 VDC	Voltage type 1 to 5 VDC			MPa	
ITV1050-01F1N			Current type 4 to 20 mADC (Sink type)				bar	
ITV1050-ILF1N3			IO-Link	—			MPa	
ITV2030-31F2N	0.005 to 0.5		Voltage type 0 to 10 VDC	Voltage type 1 to 5 VDC		1/4	MPa	
ITV2030-01F2N3			Current type 4 to 20 mADC (Sink type)				bar	
ITV2030-ILF2N3			IO-Link	—			MPa	
ITV2050-31F2N	0.005 to 0.9		Voltage type 0 to 10 VDC	Voltage type 1 to 5 VDC			3/8	MPa
ITV2050-01F2N3			Current type 4 to 20 mADC (Sink type)					bar
ITV2050-ILF2N3			IO-Link	—				MPa
ITV3050-31F3N	0.005 to 0.9		Voltage type 0 to 10 VDC	Voltage type 1 to 5 VDC		3/8		MPa
ITV3050-01F3N3			Current type 4 to 20 mADC (Sink type)					bar
ITV3050-ILF3N3			IO-Link	—				bar



### Electro-pneumatic regulator, high flow rate ITV1100/2100/3100 Series



- Applicable fluid: air
- Max. flow rate: 4400 l/min (ANR)
- Enclosure: IP65
- Digital pressure display.

Part number	Set pressure [MPa]	Power voltage [VDC]	Input signal	Monitor output	Thread type	Port size	Pressure display unit		
ITV1130-01F2N	0.005 to 0.5	24 ± 10 %	Current type 4 to 20 mADC (Sink type)	Analogue output 1 to 5 VDC	G	1/4	MPa		
ITV1130-31F2N3			Voltage type 0 to 10 VDC				bar		
ITV1150-31F2N	0.005 to 0.9		MPa						
ITV2130-03F3N3	0.005 to 0.5		Current type 4 to 20 mADC (Sink type)	Switch output/PNP output		3/8	bar		
ITV2130-31F2N3			0.005 to 0.9	Voltage type 0 to 10 VDC		Analogue output 1 to 5 VDC		1/4	
ITV2130-31F3N3				Current type 4 to 20 mADC (Sink type)				Switch output/PNP output	3/8
ITV2150-01F3N3	0.005 to 0.9		Voltage type 0 to 10 VDC	Analogue output 1 to 5 VDC		1/4		MPa	
ITV2150-03F3N3			Current type 4 to 20 mADC (Sink type)						Switch output/PNP output
ITV2150-31F3N			0.005 to 0.9						Voltage type 0 to 10 VDC
ITV2150-31F2N3	0.005 to 0.5		Current type 4 to 20 mADC (Sink type)	Analogue output 1 to 5 VDC		1/2	bar		
ITV3130-01F4N3			0.005 to 0.9					Voltage type 0 to 10 VDC	Switch output/PNP output
ITV3150-01F4N3			0.005 to 0.9					Current type 4 to 20 mADC (Sink type)	
ITV3150-31F4N3	0.005 to 0.9		0.005 to 0.9	Voltage type 0 to 10 VDC		Switch output/PNP output	1/2	bar	
ITV3150-33F4N3									0.005 to 0.9



### Compact electro-pneumatic regulator

#### ITV0000 Series



- Applicable fluid: air
- Max. flow rate: 6 l/min (ANR)
- Enclosure: equivalent to IP65.

Part number	Set pressure [MPa]	Power voltage [VDC]	Input signal	Monitor output	Port size
<b>ITV0030-0N</b>	0.001 to 0.5	24 ±10 %	Current type 4 to 20 mA DC (Sink type)	Voltage type 1 to 5 VDC	Ø 4
<b>ITV0050-0N</b>	0.001 to 0.9				
<b>ITV0030-3N</b>	0.001 to 0.5		Voltage type 0 to 10 VDC		
<b>ITV0050-3N</b>	0.001 to 0.9				



### Compact electro-pneumatic vacuum regulator

#### ITV0090 Series



- Applicable fluid: air
- Max. flow rate: 4 l/min (ANR)
- Enclosure: equivalent to IP65.

Part number	Set pressure [kPa]	Power voltage [VDC]	Input signal	Monitor output	Port size
<b>ITV0090-0N</b>	-1 to -100	24 ±10 %	Current type 4 to 20 mA DC (Sink type)	Voltage type 1 to 5 VDC	Ø 4
<b>ITV0090-3N</b>			Voltage type 0 to 10 VDC		



## Electro-pneumatic vacuum regulator

### ITV2090 Series



- Applicable fluid: air
- Max. flow rate: 132 l/min (ANR)
- Enclosure: IP65
- Digital pressure display.

Part number	Set pressure [kPa]	Power voltage [VDC]	Input signal	Monitor output	Thread type	Port size	Pressure display unit
ITV2090-31F2N5	-1.3 to -80	24 ±10 %	Voltage type 0 to 10 VDC	Voltage type 1 to 5 VDC	G	1/4	kPa
ITV2090-01F2N5			Current type 4 to 20 mADC (Sink type)				
ITV2090-ILF2N5			IO-Link	—			



## High pressure electro-pneumatic regulator

### ITVX Series



- Applicable fluid: air, N<sub>2</sub>, O<sub>2</sub>, Ar
- Max. flow rate: 3000 l/min (ANR)
- Enclosure: IP65
- Digital pressure display.

Part number	Set pressure [MPa]	Power voltage [VDC]	Input signal	Monitor output	Thread type	Port size	Pressure display unit
ITVX2030-01F3N	0.01 to 3.0	24 ±10 %	Current type 4 to 20 mADC (Sink type)	Voltage type 1 to 5 VDC	G	3/8	MPa
ITVX2030-31F3N			Voltage type 0 to 10 VDC				
ITVX2030-01F3N3			Current type 4 to 20 mADC (Sink type)				
ITVX2030-31F3N3			Voltage type 0 to 10 VDC				bar



## High pressure electro-pneumatic regulator ITVH Series



- Applicable fluid: air
- Max. flow rate: 3000 l/min
- Enclosure: IP65
- Digital pressure display
- Repeatability:  $\pm 1$  % F.S. or less.

Part number	Set pressure [MPa]	Power voltage [VDC]	Input signal	Monitor output	Thread type	Port size	Pressure display unit	
ITVH2020-01F2N	0.2 to 2.0	24 $\pm$ 10 %	Current type 4 to 20 mADC (Sink type)	Voltage type 1 to 5 VDC	G	1/4	MPa	
ITVH2020-31F2N			Voltage type 0 to 10 VDC				bar	
ITVH2020-01F2N3			Current type 4 to 20 mADC (Sink type)				3/8	MPa
ITVH2020-31F2N3			Voltage type 0 to 10 VDC					bar
ITVH2020-01F3N			Current type 4 to 20 mADC (Sink type)			3/8	MPa	
ITVH2020-31F3N			Voltage type 0 to 10 VDC				bar	
ITVH2020-01F3N3			Current type 4 to 20 mADC (Sink type)				MPa	
ITVH2020-31F3N3			Voltage type 0 to 10 VDC				bar	



## Electro-pneumatic regulator, manifold type IITV23 Series



- Applicable fluid: air
- Max. flow rate: approx. 1500 l/min (ANR)
- Enclosure: IP65
- Digital pressure display
- Integrated SI unit compatible with PROFINET, EtherNet/IP®, EtherCAT®
- Up to 4 regulators
- Up to 8 I/O units.

### Manifold

Part number	End plate	I/O unit stations	Number of electro-pneumatic regulator <sup>1)</sup>	P, E port entry	Thread type	Mounting
IITV23-S6F4-2F	M12 power supply connector IN/OUT, A-coded, pin arrangement 1	None	2 stations	Both sides, built-in silencer	G	Direct mounting
IITV23-S6F4-3F			3 stations			
IITV23-S6F4-4F			4 stations			
IITV23-S6F5-2F	M12 power supply connector IN/OUT, A-coded, pin arrangement 2		2 stations			
IITV23-S6F5-3F			3 stations			
IITV23-S6F5-4F			4 stations			

1) The electro-pneumatic regulators must be ordered separately and will come fully assembled.

### Single unit for manifold

Part number	Pressure range [MPa]	Pressure display unit
ITV2340-23	0 to 0.7	bar
ITV2340-2		MPa
ITV2350-23	0 to 0.9	bar
ITV2350-2		MPa



### Compact electro-pneumatic regulator, manifold type IITV00 Series



- Applicable fluid: air
- Max. flow rate: 6 l/min (ANR)
- Enclosure: equivalent to IP65
- Up to 10 regulators.

### Manifold

Part number	End plate	I/O unit stations
IITV00-02	Ø 6 (Light grey)	2 stations
IITV00-03		3 stations
IITV00-04		4 stations

### Single unit for manifold

Part number	Pressure range	Input signal
ITV0030-0MN	0.001 to 0.5 MPa	Current type 4 to 20 mADC (sink type)
ITV0050-0MN	0.001 to 0.9 MPa	
ITV0030-3MN	0.001 to 0.5 MPa	Voltage type 0 to 10 VDC
ITV0050-3MN	0.001 to 0.9 MPa	
ITV0090-0MN	-1 to 100 kPa	Current type 4 to 20 mADC (sink type)
ITV0090-3MN		Voltage type 0 to 10 VDC



### Electro-pneumatic regulator for battery manufacturing 25A-ITV1000/2000/3000 Series



- Copper-free wetted parts
- Applicable fluid: air
- Max. flow rate: 4000 l/min (ANR)
- Enclosure: IP65
- Digital pressure display.

Part number	Set pressure [MPa]	Power voltage [VDC]	Input signal	Monitor output	Thread type	Port size	Pressure display unit	
25A-ITV1030-31F1N3	0.005 to 0.5	24 ± 10 %	Current type 4 to 20 mADC (Sink type)	Voltage type 1 to 5 VDC	G	1/8	bar	
25A-ITV1030-01F1N			Voltage type 0 to 10 VDC				MPa	
25A-ITV1050-31F1N3	0.005 to 0.9		Current type 4 to 20 mADC (Sink type)				bar	
25A-ITV1050-01F1N			Voltage type 0 to 10 VDC				MPa	
25A-ITV2030-31F2N	0.005 to 0.5		Current type 4 to 20 mADC (Sink type)				1/4	MPa
25A-ITV2030-01F2N3			Voltage type 0 to 10 VDC					bar
25A-ITV2050-31F2N	0.005 to 0.9		Current type 4 to 20 mADC (Sink type)			MPa		
25A-ITV2050-01F2N3			Voltage type 0 to 10 VDC			bar		
25A-ITV3050-31F3N			Current type 4 to 20 mADC (Sink type)			3/8		MPa
25A-ITV3050-01F3N3			Voltage type 0 to 10 VDC					bar



## Electro-pneumatic vacuum regulator for battery manufacturing

### 25A-ITV2090 Series

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- Copper-free wetted parts
- Applicable fluid: air
- Max. flow rate: 132 l/min (ANR)
- Enclosure: IP65
- Digital pressure display.

Part number	Set pressure [kPa]	Power voltage [VDC]	Input signal	Monitor output	Thread type	Port size	Pressure display unit
ITV2090-31F2N5	-1.3 to -80	24 ± 10 %	Voltage type 0 to 10 VDC	Voltage type 1 to 5 VDC	G	1/4	kPa
ITV2090-01F2N5			Current type 4 to 20 mADC (Sink type)				



## Electro-pneumatic regulator for food industry

### HF1-ITV2000/3000 Series

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- Grease for food processing equipment (certified by NSF-H1) for fluid contact parts
- Applicable fluid: air
- Max. flow rate: 4000 l/min (ANR)
- Enclosure: IP65
- Digital pressure display.

Part number	Set pressure [MPa]	Power voltage [VDC]	Input signal	Monitor output	Thread type	Port size	Pressure display unit	
HF1-ITV2030-31F2N	0.005 to 0.5	24 ± 10 %	Current type 4 to 20 mADC (Sink type)	Voltage type 1 to 5 VDC	G	1/4	MPa	
HF1-ITV2030-01F2N3			Voltage type 0 to 10 VDC				bar	
HF1-ITV2050-31F2N	0.005 to 0.9		Current type 4 to 20 mADC (Sink type)				3/8	MPa
HF1-ITV2050-01F2N3			Voltage type 0 to 10 VDC					bar
HF1-ITV3050-31F3N			Current type 4 to 20 mADC (Sink type)			MPa		
HF1-ITV3050-01F3N3			Voltage type 0 to 10 VDC			bar		

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