Contact confirmation switch (gap switch)

GPS2/MGPS2/UGPS2 Series



Overview

F.R.L.
F.R.
F (Filtr)
R (Reg)

L (Lub) Drain Separ

Press SW Res press exh valve

SlowStart

remove Filt

PTFE FRL Outdrs FRL

Adapter Joiner

Press Gauge

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

Speed Ctrl Silncr

CheckV/

Nozzle

Air Unit

PrecsCompn
Electro
Press SW
ContactSW

AirSens
PresSW
Cool
Air Flo
Sens/Ctrl

WaterRtSens TotAirSys

(Total Air)

TotAirSys (Gamma)

generator

RefrDry

DesicDry

HiPolymDry

MainFiltr

other Fit/Tube

Film Resist FR Oil-ProhR Med Press FR The GPS2 Series gap switch is an air sensor used to confirm the workpiece seating and clamping contacts. While retaining the features of the conventional GPS Series, a modular unit has been realized by incorporating a joiner connection structure, and the body strength has been increased by using aluminum die-cast.

Features

High stability

Air bridge circuit prevents the effect of fluctuations in the supply pressure.

Easy adjustment

The sensitivity can be easily adjusted with the scale on the sensitivity adjustment dial.

Non-contact detection

A non-contact measurement is taken, and so the product is not directly touched. Detection is possible without damaging valuable products.

Energy saving

The air consumption rate can be suppressed since this can be used with a working pressure of 0.03 MPa.

- High precision
- Modularization

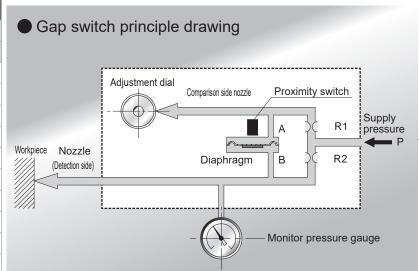
By incorporating a joiner connection, GPS2 units can be connected together, and can also be connected easily to the CKD regulator or filter.

Robustness

The body strength has been increased by using aluminum die-cast.

Environmental resistance

The product can be used in environments where water, etc., may splash, as it has degree of protection IP67 (connector) equivalent.



Operational explanation

The air pressurized into port P passes through orifice R1 and R2 of the air bridge circuit, and flows to the nozzles on the comparison side and on the detection side. When the detection side nozzle clearance becomes smaller than the clearance set with the adjustment dial in the comparison side nozzle, a back pressure reverses and presses up the diaphragm. This activates the proximity switch and generates an electric signal.

Dischrg etc Ending



Contact confirmation switch (gap switch) single unit

GPS2 Series

Port size: Rc1/8 Nozzle diameter: ø1.5







Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

-					
Item	GPS2-05-15	GPS2-07-15			
Working fluid	Compressed clean air (lubrication not possible)				
Working pressure (*2) kPa	30 (≈4.4 psi, 0.3 bar) to 200 (≈29 psi, 2 bar)	50 (≈7.3 psi, 0.5 bar) to 200 (≈29 psi, 2 bar)			
Detection range scale mm	0.03 to 0.25	0.03 to 0.4			
Repeatability mm	±0.01 (detection range scale 0.03 to 0.1 mm)				
Hysteresis mm	0.01 or less (detection range scale 0.03 to 0.1 mm)				
Detection nozzle (*1)	Single hole nozzle ø	Single hole nozzle ø1.5 standard (ø1, ø2)			
Power supply voltage V	10.2 to 2	26.4 VDC			
Current consumption mA	15 or less (wher	n using 24 VDC)			
Output style	NPN, PNP o	pen collector			
Output rating	30 VDC, 100 mA or less				
Internal voltage drop V	2.0 or less (using 100 mA)				
Indicator lamp	LED green or yellow				
Insulation resistance	10 MΩ and over a	10 $M\Omega$ and over at 500 VDC megger			
Withstand voltage	No failure impressed at 1000 VAC for one minute				
Vibration resistance m/s ²	98				
Ambient temperature °C	5 (41°F) to 60 (140°F)				
Degree of protection (*3)	IP67 equivalent (connector), IP64 equivalent (DIN terminal box)				
Connection tube mm	Inner diameter 4				
Port size	Detection port Rc1/8, supply port Rc1/4, pressure gauge port Rc1/4				
Weight g	290 (electric conr	nection option C0)			
Air consumption S 50 kPa	6 or less	11 or less			
All consumption 2 100 kPa	9 or less	15 or less			
₹/min (ANR) 100 kPa 200 kPa	14 or less	24 or less			

^{*1:} The above specifications apply to the ø1.5 single-hole detection nozzle.

^{*3:} This (1) F

	0000	Docomption
is product must be used under the following conditions:	A Orifice	size
Piping and wiring must be completed and pressure applied. (2) A waterproof bushing must be used on the	05	ø0.5
es to the terminal box. (3) A dial cover with lock must be provided and the cover screw must be tightened.	07	ø0.7
w to order	B Setting	type
	15	Dial detection nozzle diameter

Code

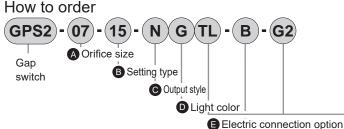
N

CTR TL

TR

W

Output style



	F	PNP open collector
	D Light of	color
	G	Green
	Υ	Yellow
-	Electri	c connection option
	F	DIN terminal box (Pg11)
	C0	Connector (without cable)
	C1	Connector (cable 1 m attached)
	C3	Connector (cable 3 m attached)
	C5	Connector (cable 5 m attached)
	CTL	Connector common terminal box left assembly
	CTR	Connector common terminal box right assembly

NPN open collector

DND open collector

Description

Λ	F
43	ı

Precautions for model No. selection

- *1 : Select L for automobile- and processing machine-related applications.
- *2:Refer to pages 1302 to 1307 for option and model No. of related components.

6 Pressure gauge	
-------------------------	--

Attachments and others			
Blank	Without bracket		
B With bracket			
L (*1)	Dial cover with lock		
	1		

Lead wire common terminal box left assembly

central terminal box expanding manifold

Lead wire common terminal box right assembly

Lead wire outlet direction right (left end for mounting) Lead wire outlet direction left (right end for mounting)

Lead wire outlet direction both sides (intermediate for mounting)

		T .
Pressure gauge		
		No pressure gauge
	G2	Pressure gauge with safety mark included (G40D-8-P02-S501)
	GW2	Proceure gauge accombly with cafety mark (CADD 8 D02 S501)

F.R.L. F.R.

F (Filtr)

R (Reg)

L (Lub) Drain

Separ Press SW Res press

exh valve SlowStart Anti-bac/Bacremove Filt Resist FR

Oil-ProhR Med Press FF

PTFE FRI Outdrs FRL Adapter Joiner Press

Gauge CompFRL LgFRL

PrecsR VacF/R

Clean FR ElecPneuR

AirBoost

Speed Ctrl

Silncr CheckV/ other

Fit/Tube Nozzle

Air Unit PrecsCompn

Electro Press SW ContactSW

AirSens PresSW Cool Sens/Ctrl

WaterRtSens TotAirSys (Total Air) TotAirSys

generato

RefrDry

DesicDry HiPolymDry

MainFiltr Dischrg



^{*2:} If the nozzle clogs, working pressure should be set between 100 and 200 kPa.

GPS2 Series

F.R.L. F.R. F (Filtr)

R (Reg)

L (Lub)

Drain

Separ Mech Press SW Res press exh valve

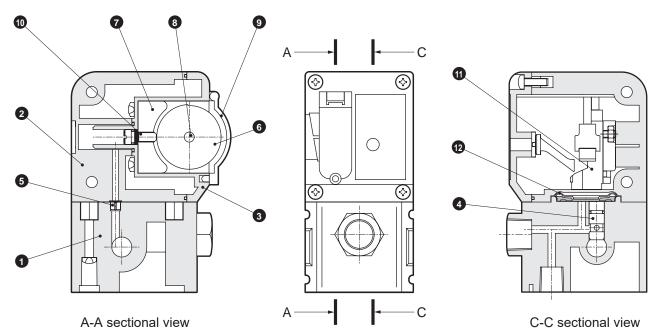
SlowStart

Anti-bac/Bacremove Filt Film Resist FR

Oil-ProhR

Med Press FR No Cu/ PTFE FRL Outdrs FRL Adapter

Internal structure and parts list



Parts list

	. and not					
No.		Part name	Material	No.	Part name	Material
1 Base		Base	Aluminum	7	Dial/bracket	Aluminum
+	2	Body	Polybutylene terephthalate	8	Press fit pin	Stainless steel
	3	Front cover	Polybutylene terephthalate	9	Dial cover	Polypropylene
4 Orifice nozzle A	Orifice nozzle A	Copper alloy	10	Dial nozzle	Copper alloy	
5 Orific		Orifice nozzle B	Copper alloy	11	Proximity switch	-
+	6	Dial	Stainless steel	12	Diaphragm	HNBR

Joiner Press Gauge CompFRL LgFRL PrecsR VacF/R Clean FR ElecPneuR AirBoost Speed Ctrl Silncr CheckV/ other Fit/Tube Nozzle Air Unit PrecsCompn Electro Press SW ContactSW AirSens PresSW Cool Air Flo Sens/Ctrl WaterRtSens TotAirSys (Total Air) TotAirSys (Gamma) Gas generator RefrDry

DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending

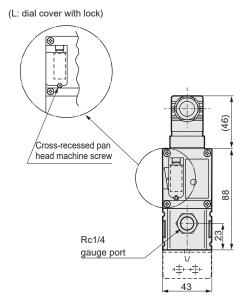
GPS2 Series

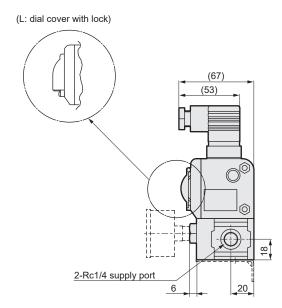
Dimensions

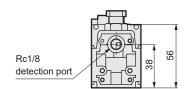
Dimensions

DIN terminal

● GPS2-*-*-*F



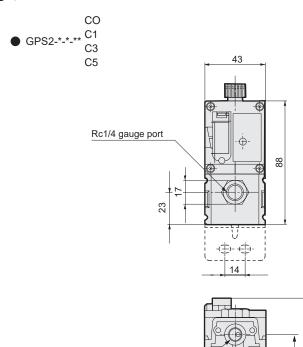




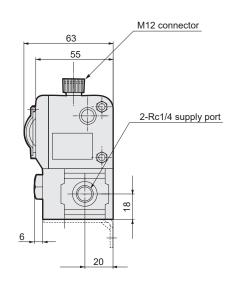
· Weight: 330 g

* Bracket and pressure gauge (option) are not included.

Connector



Rc1/8 detection port



· Weight: 290 g (for C0)

- *1: Bracket and pressure gauge (option) are not included.
- *2: Cable for C1, C3, C5 is included. (For the cable weight, refer to the option pages.)

Note) The dial cover shape differs for the dial cover with lock. Refer to above DIN terminal.

26

38

F.R.L.

F.R.

F (Filtr)

R (Reg)

L (Lub)

Drain Separ Mech

Mech Press SW Res press exh valve

SlowStart

Anti-bac/Bacremove Filt
Film

Resist FR
Oil-ProhR

Med Press FR No Cu/

PTFE FRL
Outdrs FRL
Adapter

Joiner Press Gauge CompFRL

LgFRL

PrecsR VacF/R

Clean FR

ElecPneuR

AirBoost

Speed Ctrl

Silncr

CheckV/ other

Fit/Tube

Nozzle Air Unit

PrecsCompn

Electro Press SW

ContactSW AirSens

PresSW Cool Air Flo

Air Flo Sens/Ctrl WaterRtSens

TotAirSys (Total Air) TotAirSys

(Gamma)
Gas

generator RefrDry

DesicDry

HiPolymDry MainFiltr

Dischrg etc Ending

GPS2 Series

F.R.L.

F.R. F (Filtr)

R (Reg)
L (Lub)

Drain Separ Mech Press SW Res press exh valve SlowStart Anti-bac/Bac-

Film Resist FR Oil-ProhR Med Press FR No Cu/ PTFE FRL

remove Filt

Outdrs FRL
Adapter
Joiner
Press
Gauge
CompFRL

LgFRL PrecsR

VacF/R Clean FR

ElecPneuR AirBoost

Speed Ctrl
Silncr
CheckV/
other

Fit/Tube Nozzle

Air Unit
PrecsCompn

Electro Press SW ContactSW AirSens

PresSW
Cool
Air Flo
Sens/Ctrl
WaterRtSens
TotAirSys

TotAirSys (Total Air) TotAirSys (Gamma) Gas generator RefrDry

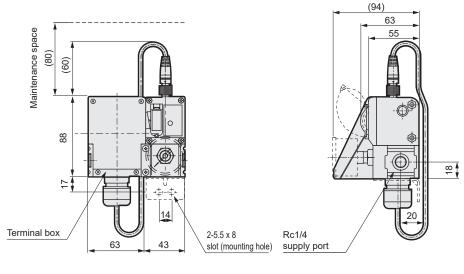
DesicDry HiPolymDry MainFiltr

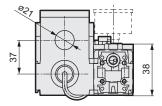
Dischrg etc Ending

Dimensions

Connector common terminal box

● GPS2-**-** CTL (CTR)



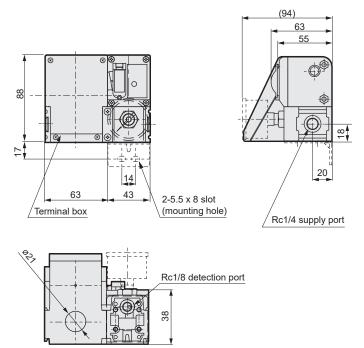


· Weight: 580 g

* Bracket and pressure gauge (option) are not included.

Note) The dial cover shape differs for the dial cover with lock. Refer to the DIN terminal box on page 1263 for shapes.

Lead wire common terminal box



Weight: 510 c

* Bracket and pressure gauge (option) are not included.

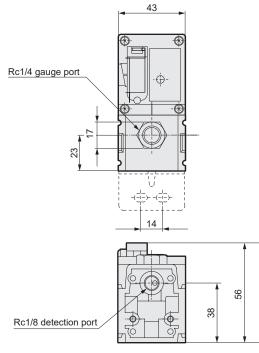
Note) The dial cover shape differs for the dial cover with lock. Refer to the DIN terminal box on page 1263 for shapes.

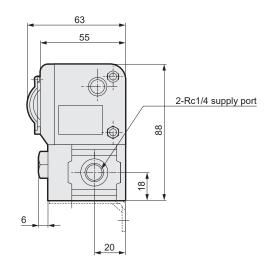
Dimensions



Single unit for lead wire common terminal box expanding manifold







· Weight: 290 g

* Bracket and pressure gauge (option) are not included.

Note) The dial cover shape differs for the dial cover with lock. Refer to the DIN terminal box on page 1263 for shapes.

F.R.L. F.R.

F (Filtr)

R (Reg) L (Lub)

Drain

Separ Mech Press SW Res press exh valve SlowStart

Anti-bac/Bacremove Filt
Film
Resist FR

Oil-ProhR Med

Press FR No Cu/ PTFE FRL Outdrs FRL

Adapter Joiner Press Gauge

CompFRL

LgFRL PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

Speed Ctrl

Silncr CheckV/

other Fit/Tube

Nozzle

Air Unit

PrecsCompn Electro Press SW

ContactSW

AirSens PresSW Cool Air Flo Sens/Ctrl

WaterRtSens TotAirSys

(Total Air) TotAirSys (Gamma) Gas generator

RefrDry DesicDry

HiPolymDry MainFiltr

Dischrg Ending

Gap switch Manifold

MGPS2 Series

Nozzle diameter: ø1.5 (standard)
Station No.: 2 to 5 stations







Specifications

F.R.L.

F.R. F (Filtr)

R (Reg) L (Lub) Drain Separ

Press SW

Res press exh valve

SlowStart

remove Filt Film Resist FR

Oil-ProhR

Press FR

PTFE FRL

Outdrs FRL Adapter

Joiner

Press

Gauge

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

Speed Ctrl

Silncr

CheckV

Fit/Tube

Nozzle

Air Unit

PrecsCompn

Electro

Press SW

ContactSW

AirSens

PresSW

Sens/Ctrl

WaterRtSens

TotAirSys

(Gamma) Gas

generator

RefrDry DesicDry

HiPolymDry

MainFilti Dischrg

Ending

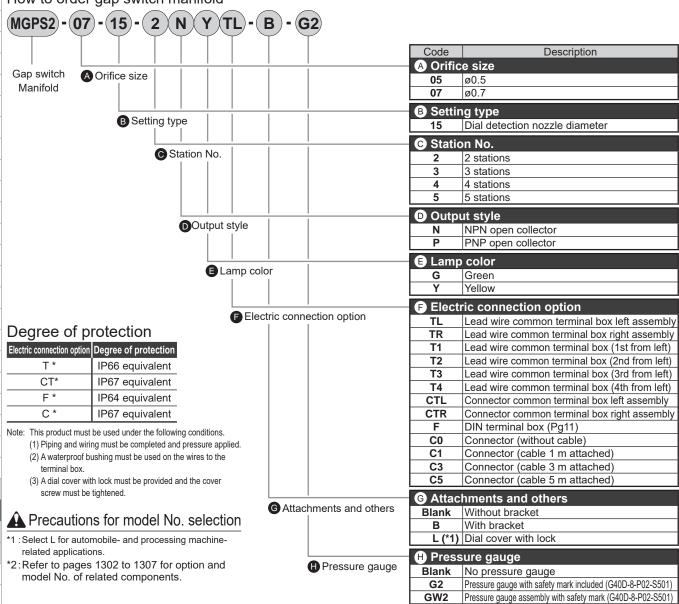
Cool

other

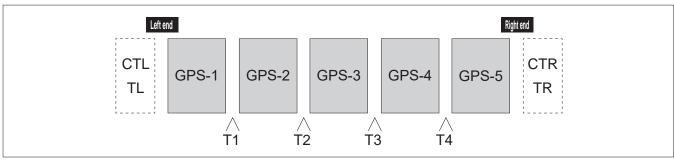
Med

Basic specifications are the same as the single units on page 1261.





Terminal box installation position relation diagram



MGPS2 Series

Dimensions

F.R.L. F.R.

F (Filtr)

R (Reg)

PrecsR VacF/R

Clean FR ElecPneuR

AirBoost

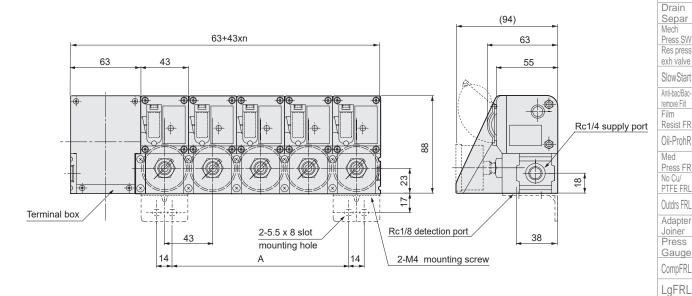
Speed Ctrl

Silncr

Dimensions CAD

Manifold (lead wire common terminal box: TL/TR)

● MGPS2-*-*-*** TL (TR)



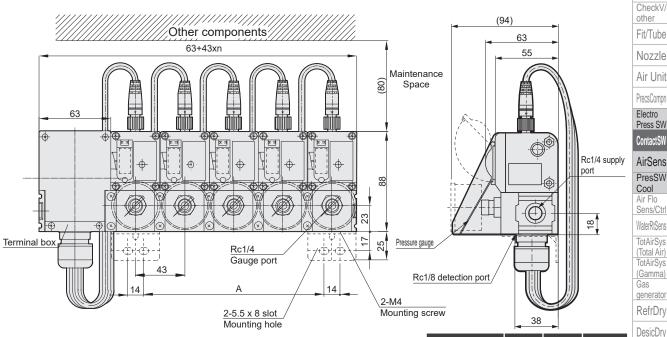
Note) The dial cover shape differs for the dial cover with lock. Refer to the DIN terminal box on page 1263 for shapes.

Station No.	n	Α	Weight g
2 stations	2	29	820
3 stations	3	72	1130
4 stations	4	115	1440
5 stations	5	158	1750

^{*} Bracket and pressure gauge (option) are not included

_	N A 1 C - 1 - 1	/ 4		C ! 1	L	OTL (OTD)
U) ivianitoid	connector	common	terminai	DOX:	CTL/CTR)

● MGPS2-*-*-*** CTL (CTR)



Note) The dial cover shape differs for the dial cover with lock. Refer to the DIN terminal box on page 1263 for shapes.

Station No.	n	Α	Weight g
2 stations	2	29	930
3 stations	3	72	1270
4 stations	4	115	1610
5 stations	5	158	1960

^{*} Bracket and pressure gauge (option) are not included. Ending

HiPolymDry MainFiltr Dischrg

MGPS2 Series

Dimensions F.R.L.

F (Filtr)

R (Reg) L (Lub) Drain

Separ

Press SW Res press exh valve SlowStart

Anti-bac/Bacremove Filt Film Resist FR Oil-ProhR

Med

Press FR

PTFE FRL Outdrs FRL

Adapter Joiner Press Gauge

CompFRL

LgFRL

PrecsR VacF/R

Clean FR ElecPneuR

AirBoost Speed Ctrl

Silncr

CheckV/

Fit/Tube

Nozzle Air Unit PrecsCompn Electro Press SW ContactSW AirSens

PresSW

WaterRtSens TotAirSys (Total Air)

TotAirSys (Gamma) Gas

generator

RefrDry DesicDry

HiPolymDry

MainFiltr

Dischrg

Ending

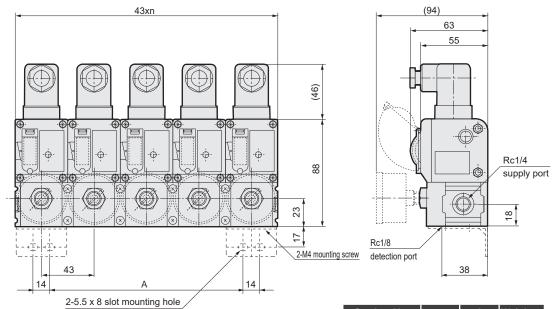
Cool Sens/Ctrl

other



F.R. Manifold (DIN terminal box: F)

● MGPS2-*-*-**F



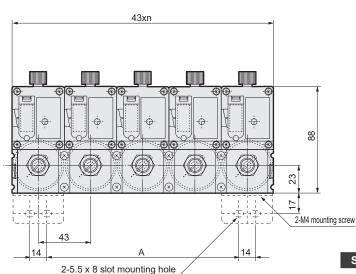
Note) The dial cover shape differs for the dial cover with lock. Refer to the DIN terminal box on page 1263 for shapes.

Station No.	n	Α	Weight g
2 stations	2	29	680
3 stations	3	72	1020
4 stations	4	115	1360
5 stations	5	158	1700

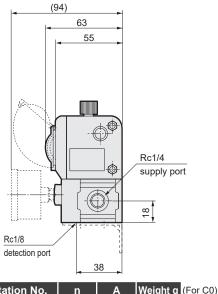
* Bracket and pressure gauge (option) are not included.

Manifold (connector: C*)

C1 MGPS2-*-*-СЗ



Note) The dial cover shape differs for the dial cover with lock. Refer to the DIN terminal box on page 1263 for shapes.



Station No.	- 11	A	weight g	(FOI C
2 stations	2	29	590	
3 stations	3	72	880	
4 stations	4	115	1180	
5 stations	5	158	1480	

^{*1:} Bracket and pressure gauge (option) are not included.

* Refer to pages 1302 to 1307 for dimensions of options and peripheral devices.

^{*2:} Cable for C1, C3, C5 is included. (For the cable weight, refer to the option pages.)

MEMO

F.R.L.

F.R.

F (Filtr)

R (Reg)

L (Lub)

Drain

Separ Mech Press SW Res press exh valve

SlowStart Anti-bac/Bac-

remove Filt Film Resist FR

Oil-ProhR

Med Press FR No Cu/ PTFE FRL

Outdrs FRL

Adapter Joiner Press Gauge

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR ElecPneuR

AirBoost

Speed Ctrl

Silncr

CheckV/ other

Fit/Tube

Nozzle

Air Unit PrecsCompn

Electro Press SW

ContactSW

AirSens

PresSW Cool Air Flo Sens/Ctrl

WaterRtSens

TotAirSys (Total Air) TotAirSys (Gamma) Gas generator

RefrDry

DesicDry

HiPolymDry

MainFiltr Dischrg etc

Gap switch unit

IGPS2 Series

Solenoid valve with needle, regulator integrated general purpose







Specifications

F.R.L.

F.R. F (Filtr)

R (Reg) L (Lub) Drain Separ

Press SW Res press

exh valve SlowStart

remove Filt

Resist FR

Oil-ProhR

Press FR

PTFE FRL

Outdrs FRL

Adapter

Joiner

Press Gauge

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

Speed Ctrl

Silncr

CheckV

Fit/Tube

Nozzle

Air Unit

PrecsCompn

Electro

Press SW

ContactSW

AirSens

PresSW

Sens/Ctrl

WaterRtSens

TotAirSys

(Total Air)

Cool

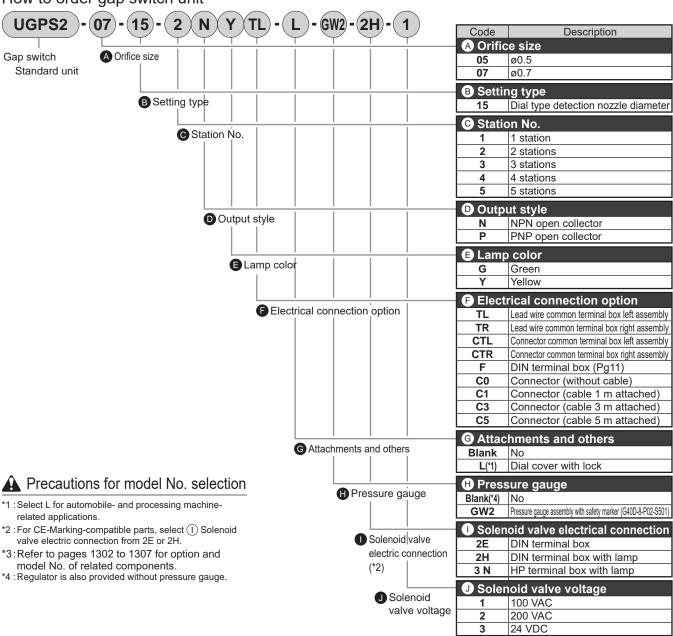
other

Med

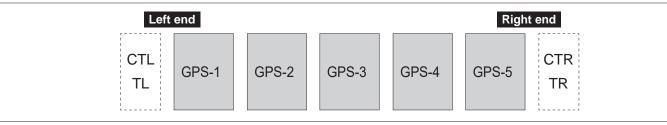
Film

Basic specifications are the same as the single units on page 1261.

How to order gap switch unit



Terminal box installation position relation diagram



Note: The solenoid valve with needle and regulator are mounted on the opposite side of the terminal box (right side when terminal box is on left side). The terminal box does not have a supply port.



generator RefrDry

DesicDry

HiPolymDry

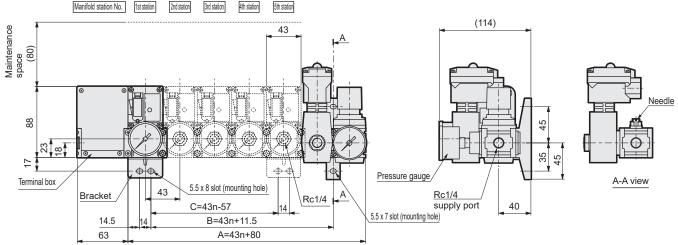
MainFiltr Dischrg

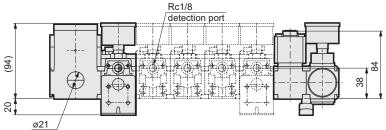
UGPS2 Series

CAD **Dimensions**

Gap switch unit (lead wire common terminal box: TL/TR)

● UGPS2-*-*-***TL





		Station No.				
		1	2	3	4	5
B: .	Α	123	166	209	252	295
Dimensions (mm)	В	54.5	97.5	140.5	183.5	226.5
	С	-	-	72	115	158
Bracket set		1	1	2	2	2
Weight	g	1190	1500	1850	2160	2470

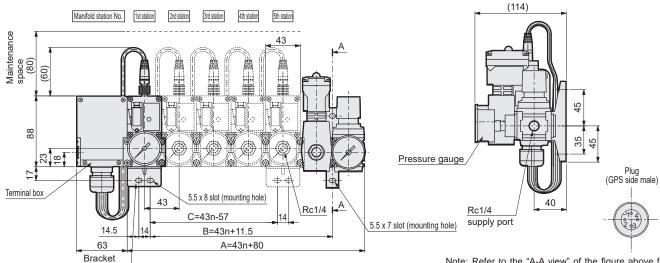
- *1: Pressure gauge (option) is not included.
- *2: Solenoid valve with 3 N electrical connection.

Gap switch unit (connector common terminal box: CTL/CTR)

the DIN terminal box on page 1263 for shapes.

Note) The dial cover shape differs for the dial cover with lock. Refer to

UGPS2-*-****CTL



detection port (94)37 88

Note) The dial cover shape differs for the dial cover with lock. Refer to the DIN terminal box on page 1263 for shapes.

Rc1/8

Note: Refer to the "A-A view" of the figure above for needle position

noodio pooliioni						
		Station No.				
		1	2	3	4	5
Dimensions (mm)	Α	123	166	209	252	295
	В	54.5	97.5	140.5	183.5	226.5
	С	-	-	72	115	158
Bracket set		1	1	2	2	2
Weight g		1260	1600	1990	2330	2680
*4. Danas van Anation \ in anation builded						

- 1: Pressure gauge (option) is not included.
- *2: Solenoid valve with 3 N electrical connection.

F.R.L. F.R.

F (Filtr) R (Reg)

L (Lub) Drain Separ Mech Press SW Res press exh valve SlowStart

Anti-bac/Bac remove Filt Resist FR Oil-ProhR

Med Press Fl PTFE FRI Outdrs FRL

Adapter Joiner Press Gauge CompFRL LgFRL

PrecsR VacF/R Clean FR

ElecPneuR AirBoost

Speed Ctrl

Silncr CheckV/ other

Fit/Tube Nozzle

Air Unit PrecsCompn

Electro Press SW ContactSW

AirSens PresSW Cool Sens/Ctr

WaterRtSens TotAirSys (Total Air) TotAirSys (Gamma)

generato RefrDry DesicDry

HiPolymDry MainFiltr Dischrg

UGPS2 Series

Dimensions



F.R.

F.R.L.

R (Reg)

L (Lub)

Drain Separ

Press SW Res press exh valve SlowStart

Anti-bac/Bacremove Filt Film Resist FR

Oil-ProhR

Press FR

PTFE FRL

Outdrs FRL

Adapter

Joiner Press Gauge CompFRL

LgFRL

PrecsR VacF/R

Clean FR

ElecPneuR

AirBoost

Speed Ctrl

Silncr

CheckV/

Nozzle

Air Unit PrecsCompr Electro

Press SW

ContactSW

AirSens

PresSW

Sens/Ctrl

WaterRtSens

TotAirSys

(Total Air)

TotAirSys

(Gamma)

generator

RefrDry

DesicDry

HiPolymDry

MainFiltr

Dischrg

Ending

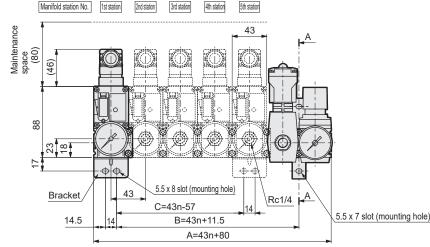
Gas

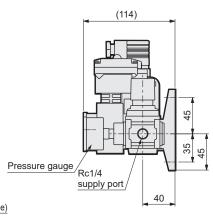
Cool

other Fit/Tube

Med

Gap switch unit (DIN terminal box: F) UGPS2-*-*-**F F (Filtr)





Rc1/8 (94)38

	Station No.				
	1	2	3	4	5
Α	123	166	209	252	295
В	54.5	97.5	140.5	183.5	226.5
С	-	-	72	115	158
Bracket set		1	2	2	2
g	1010	1360	1740	2080	2420
	B C et set	B 54.5 C - et set 1	1 2 A 123 166 B 54.5 97.5 C - - et set 1 1	1 2 3 A 123 166 209 B 54.5 97.5 140.5 C - - 72 et set 1 1 2	1 2 3 4 A 123 166 209 252 B 54.5 97.5 140.5 183.5 C - - 72 115 et set 1 1 2 2

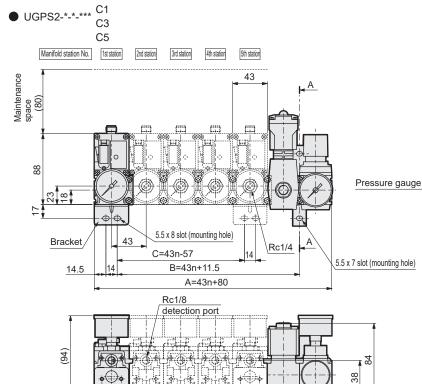
Note: Refer to the "A-A view" on the previous page for needle position.

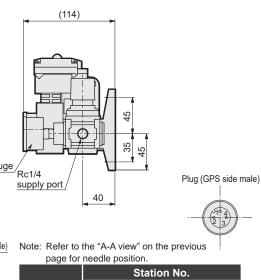
- *1: Pressure gauge (option) is not included.
- *2: Solenoid valve with 3 N electrical connection.

Note) The dial cover shape differs for the dial cover with lock. Refer to the DIN terminal box on page 1263 for shapes.

Gap switch unit (connector: C*)

C0





2 3 4 5 Α 123 166 209 252 295 Dimension: В 54.5 97.5 140.5 183.5 226.5 (mm) С 72 115 158

2 Bracket set 1 1 2 2 Weight (For C0) g 970 1270 1610 1900 2200

- *1: Pressure gauge (option) is not included.
- *2: Solenoid valve with 3 N electrical connection.
- *3: Cable for C1, C3, C5 is included. (For the cable weight, refer to the option pages.)

Note) The dial cover shape differs for the dial cover with lock. Refer to the DIN terminal box on page 1263 for shapes.

Refer to pages 1302 to 1307 for dimensions of options and peripheral devices.

GPS2/HPS Series

F.R.L.

F.R. F (Filtr)

R (Reg)

L (Lub)

Drain

Separ

Press SW

Res press

exh valve

SlowStart
Anti-bac/Bacremove Filt
Film
Resist FR

Oil-ProhR Med

Press FF No Cu/

PTFE FRL Outdrs FRL

Adapter Joiner Press

Gauge

CompFRL

LgFRL

PrecsR VacF/R Clean FR ElecPneuR

AirBoost Speed Ctrl

Silncr

CheckV/

Fit/Tube

Nozzle

Air Unit

Electro Press SW ContactSW AirSens

PresSW

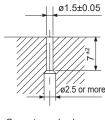
Cool

other

Technical data (1) Design of detection nozzle

Design of detection nozzle

Single hole nozzle



Chamfering of nozzle tip

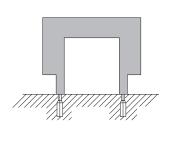
Design the detection nozzle with a point size of \emptyset 1.5 mm and depth of 7 ±2 mm. The blow-off section of the nozzle cannot be chamfered. If chamfered, the nozzle retracts from the seating place, and the scale on the adjustment dial and actual dimensions do not match.

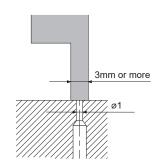
Correct nozzle shape

Incorrect nozzle shape

Selection of detection nozzle diameter

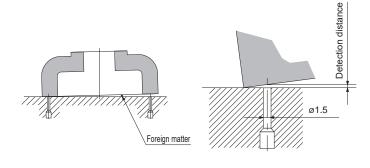
When the workpiece detection surface is narrow: use ø1 mm nozzle. Contact CKD if the width is less than 3 mm.





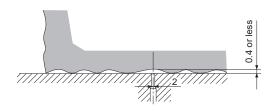
- Use with a detection distance of 0.1 mm or less.
- Use with a workpiece surface roughness of Rz = 5 or less.
- Check that nozzle does not separate from the detection surface.

● When the workpiece detection surface is sufficiently wide: Use ø1.5 mm nozzle.



- · Use with a detection distance of 0.2 mm or less
- Use with a workpiece surface roughness of Rz = 5 or less.

When detecting the presence of a workpiece with a rough detection surface:
 Use Ø1.5 mm or Ø2.0 mm nozzle.



 The max. detection distance of the GPS2 is 0.4 mm. The workpiece cannot be detected if bumps exceed 0.4 mm.
 In that case, use the HPS-10.

Air Flo Sens/Ctrl WaterRiSens TotAirSys (Total Air) TotAirSys (Gamma) Gas generator RefrDry

> HiPolymDry MainFiltr Dischrg