PLACKA ELECTRO PNEUMATIC PROPORTIONAL REGULATOR



Product Features

- Adopt 32-bits CPU, special closed-loop control algorithm to realize the rapid response and precise control effectively;
- > Control precision is \leq +0.5%;
- Adopt high-precision built-in pressure sensor to improve control precision effectively;
- Three-color digital display LCD, real-time display actual pressure and setting pressure simultaneously, convenient to confirm and adjust on site;
- Easy to change 4 pressure units(Mpa,Bar,Psi,Kpa)at any time; Self-diagnosis;
- > Error indication failure alarm;
- > 4-pins M12A standard (male) fieldbus connector;
- > Easy assembling and operating;
- > The built-in filter can be easily Cemoved for cleaning or replacement;
- The valve body made by microdiecast technology; Large flow rate;
- Protection class IP65

HOW TO ORDER?

Series No.	Valve body size	- Port size	Pressure In range In	put Signal	Monitor Output	- Port Size	- Bracket	Cable Connector type
PAC:PAC Series Electro-Pneumatic proportional regulator	3000: 3000 Series 4000: 4000 Series	03:3/8″ 03:3/8″ 04:1/2″	30: 0-0.5MPa/0-5bar/ 0-72psi/0-500KPa 50: 0-0.9Mpa/0-9bar/	0: 4-20mA 3: 0-10V 0: 4-20mA	1: 1-5V 4: 4-20mA 1: 1-5V 1: 1-5V 4: 4-20mA	Blank : G P : PT T : NPT	 Blank : Without bracket B : Flat bracket C : L-bracket	Blank : Without cable connecto L : right angle type 2m S : Straight type 2m
			0-130psi/0-900KPa	3: 0-10V	1: 1-5V 2: 24V NPN 3: 24V PNP			

Order Example : PAC Series Electro-Pneumatic Proportional regulator, valve body3000, port size1/4", output presuure 0-0.9MPa, input signa 0-10V, Monitor output1-5V, port sizw G, Flat bracket, straight type 2m, ERP code is: PAC3000-025031-BS.

PAC SERIES ASSESSORIES ORDER CODE

Cable Connector Name	Order Code
4-pins M12A Standard Straight type 2m	M12R-PVC-2M
4-pins M12A Standard Right angle type 2m	M124RL-PVC-2M

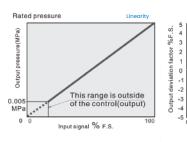
Bracket Name	Order Code
Flat Bracket	FJ-ETV-FA
L-Bracket	FJ-ETV-LB

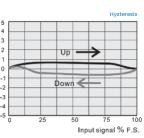
Note : Normal cable connector length is 2m, any other model need to be customized production, max length 10m.

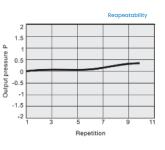
SPECIFICATIONS

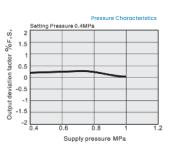
Model	PAV3000-02	PAV3000-03	PAV4000-03	PAV4000-04		
Port size	G1/4	G3/8	G3/8	G1/2		
Flow rate (Cv)	1.5	2.0	2.5	3		
Pressure range	0-0.9MPa					
Input Signal	0-10 or 0-5	V or 4-2om	na (sink)			
Monitor output	4-20mA (sir	nk) /1-5				
Connection type	4-pins M12	A standard				
Supply Voltage	DC24v+10%					
Enclosure	IP65 (DIN40	P65 (DIN40050)				
Working Temperature	0-500 C	-500 C				
Working medium	Clear air (After 5um filtration)					
LCD display	Set pressure and display at the same time		e time			
Valve body	Aluminum alloy					
Installation position	Random direction					
Max input pressure	1.0pa					
Min input pressure	bigger than max output pressure by 0.1Mpa			0.1Mpa		
Accuracy	≤±0.5					
Linearity	≤±1.0F.S					
Repeatability	≤±0.5%F.S					
Hysteresis	≤0.5%F.S.					

CHARACTERISTIC PARAMETERS CURVE







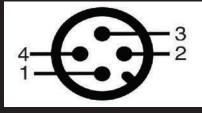


WIRING

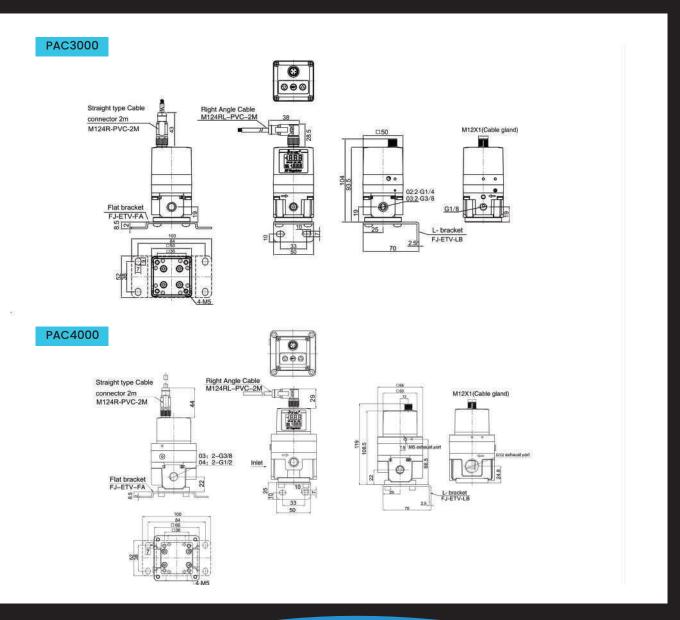
Definiti	on	Electrical Connection
PIN Number	Cable Color	Analog input type
PIN1	Brown	+24VDC
PIN2	White	Positive pole of control singa
PIN3	Blue	Negative pole of power
PIN4	Black	Monitor Signal

BUTTON & LCD SCREEN





MAIN DIMENSION



FILTER REGULATOR LUBRICATOR



Your Air-actuated Instrument and Equipment work at their best for a long period when you feed with clean dry air at a constant prescribed pressure. PLACKA FRL -Series Filter Regulator Lubricator removes completely the moisture and dust particles, and provides the exact pressure constantly at varying air demands as well as to distribute oil to the moving parts to reduce friction. Its compactness and highly accurate performance for a long period with minimum of maintenance make for an optimum compromise between the ideal and the practical, consistent with end-use.

SALIENT FEATURES

- > Longer life assured as the materials used are selected for their corrosion resistance and long wear.
- Negligible pressure drop due to high porosity ratio of the filter. The filter is reusable and has a high impact strength.
- In addition to solid particles, the unit extracts a high percentage of water thus ensuring trouble-free service even in the most adverse conditions.
- > Built in relief ensures rapid response to circuit-induced pressure changes.
- Simple, versatile built in mounting arrangements by bolts and clamps. For panel mounting, tapped holes are provided.

OPERATION

An FRL unit comprises a filter (F), regulator (R), and lubricator (L). These individual units can combine into one unit to ensure clean air in a pneumatic system. It is also possible to use each component individually. A proper air filter, regulator, and lubricator unit in a pneumatic system provides higher reliability of the components downstream, reduced power wastage from over-pressurisation, and increased component lifetime. The three components in an FRL unit work together.

- **Filters:** Filters remove water, dirt, and other harmful debris from an air system, which is often the first step in improving air quality.
- **Regulators:** The second step in an FRL system is a regulator. Regulators adjust and control the air pressure of a system to ensure that down-line components do not exceed their maximum operating pressures.
- Lubricators: Lubricators reduce the internal friction in air tools by releasing a controlled oil mist into the compressed air. This is often done last and/or right before the component that needs lubrication.

SPECIFICATIONS

Ensured Pressure Resistance	15 Kg/sq.cm
Highest Working Pressure	10 Kg/sq.cm
Temperature	5 - 60º C
Filter Precision	25 Microns
Container Material	Poly Carbonate
Recommented Oil Use	Turbine No.1 Oil ISOVG32
Container Material	Polycarbonate
Protective Cover	PAC1000-2000 (Not Available) PAC2500-5000 (Available)
Proseuro Pogulating Pango	PAC1000 : (0.5 - 7 Kg/sq.cm)
Pressure Regulating Range	PAC2000-5000 (0.5 - 8.5 Kg/sq.cm)
Valve Type	With Over Flow

Model No		Filter	Regulator	Lubricator	Flow (L/Min)	Port Size	Gauge Size	
PAC1000-M5		PAF1000	PAR1000	PAL1000	90	M5	1/16"	
PAC2000-01	PAC2000-01 D	PAF2000	PAR2000	PAL2000	500	1/8"	1/8"	
PAC2000-02	PAC2000-02 D	PAF2000	PAR2000	PAL2000	500	1/4"	1/0	
PAC2500-02	PAC2500-02 D	PAF3000	PAR2500	PAL3000	1500	1/4"	1/8"	
PAC2500-03	PAC2500-03 D	PARSOU PARSOU	PALSOUU	1300	3/8"	1/8		
PAC3000-02	PAC3000-02 D	PAF3000 PAR3000	PAL3000	2000	1/4"	1/8"		
PAC3000-03	PAC3000-03 D		PAR3000	PALSOUU	2000	3/8"	1/8	
PAC4000-03	PAC4000-03 D	PAF4000	PAR4000	PAL4000	4000	3/8"	1/4"	
PAC4000-04	PAC4000-04 D		PATHOUD	PAP4000	PAR4000	PAL4000	4000	1/2"
PAC4000-06	PAC4000-06 D	PAF4000-06	PAR4000-06	PAL4000-06	4500	3/4"	1/4"	
PAC5000-06	PAC5000-06 D		DARSOOD	0.415000	5000	3/4"	1/4"	
PAC5000-10	PAC5000-10 D	PAF5000	PAR5000	PAL5000	5000	1"	1/4	

Shreyas Instruments Pvt. Ltd.,

STD 5000 and STD 6000 Series Current To Pressure Transducers

t TO 20 mA D 3 TO 15 PSIG 20 PSIG

Brandt

Brandt



STD 5000 & STD 6000 SERIES 1/P Transducers

Shreyas Instruments' Plant Standard STD 5000 and STD 6000 series of Current to Pressure (I/P) Transducers represent the highest standard in I/P Technology. The rugged IP-65 housing, compact size and the revolutionary "Plug-In-E-PI Module"coupled with brandt's field proven technology, and affordable price make them the most accurate, reliable and simplest I/P's to install, operate and maintain in the industry. Both STD 5000 & STD 6000 series are similar in specification excepting that STD 6000 series are fitted with necessary flame arrestors and are certifed ones for hazardous area.

- Accuracy of ±0.15% to ± 0.25% of span
- Field Proven "E-Pi" Technology is unaffected by Vibration, Shock or Mounting Position
- Air consumption of 0.06 SCFM . (Typical)
- Output capacity of 4.0 SCFM.
- CIMFR Certification for intrinsically Safe and **Explosion Proof Installations.**
- Operating Temperature Range 25°C to 66 C
- Electro Pneumatic feedback type
- ✓ Rugged IP-65Enclosure

STD6

- Field selectable Direct, Reverse and Split Range.
- ✓ STD 5000 is for non hazardous applications
- ✓ STD 6000 is Certified By CIMFR for hazardous areas

Model Number

STD6: STD6000, EX-Proof, intrinsically Safe, IP 65

STD5: STD5000, General Purpose, IP - 65, intrinsically safe 1:4-20 mA 2 : Special input, Consult Factory for Availability 1: 6-30 PSIG Split Range Consult factory for Availability 3: 0.2 to 1Kg/cm² 2: 3-27 PSIG. Split Range Consult factory for Availability 4: 3-15 PSIG 5: Special Output (Consult Factory)

Electrical Connections for 12-22 AWG Wire Plug-in E-Pi Module



Field Selectable Direct, Reverse and Split Range

2: S.S. body

1:Standard

1

3: Special applications

- OPTION
- 1. Pipemount Kit 2"
- 2. Surface mounting
- 3. Output Gauge

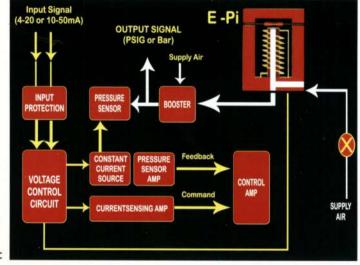
Typical Model Number

Brand'ts "E-Pi" Transducer Technology

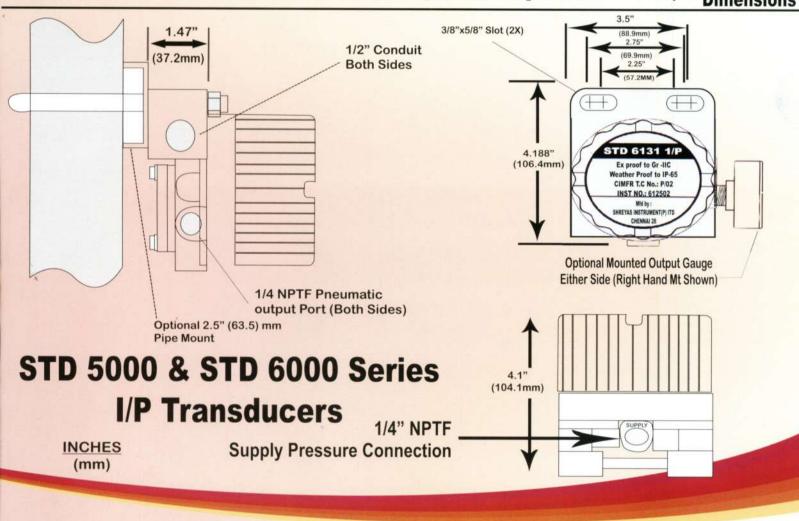
The STD5000 and STD6000 Series of I/P Transducers utilize Brandt's Patented field proven, "E-Pi" transducer technology. This revolutionary breakthrough provides 'the industry with its first "solid State"I/P Transducer.

Brandt's "State of the Art" E-Pi Technology uses Minimal electrical energy and air Consumption to convert an electronic input signal (4-20mA or 10-50mA) to a proportional pneumatic output signal (3-15PSIG, 0.2-1kg, etc).

The E-Pi Transducer utilizes "a Virtually Weightless membrane" that is electromagnetically positioned over a nozzle to precisely modulate the pneumatic (back pressure) output. The low mass membrane is held in a continuously balanced Position, providing an output that is unaffected by shock, vibration or mounting position. The output of the E-Pi is then fed into an integral volume booster to deliver a pneum atic output signal with an output capacity of 4.0 SCFM.



The overall Performance, accuracy and repeatability are further enhanced by employing an internal feedback network whose speed and resolution allow the I/P to quickly respond to input changes. The balance supply and exhaust dynamics enhance control stability, while delivering accuracies of $\pm 0.15\%$ to 0.25% of Span Dimensions



STD 5000 & STD 6000 SERIES I/p Transducers

PERFORMANCE	SPECIFICATIONS
ACCURACY	: ±0.15% Of Span (3-15 & 1-17 PSI Output)
	±0.25% Of Span (3-27& 6-30 PSI Output)
REPEATABILITY	: <u>+</u> 0.05% of Span
Deadband	: 0.02% of Span
Stability / Reproducibili	ty: 0.5% of Span / 6 Months
Output Capacity	: 4.0 SCFM (Supply and Exhaust characteristics are balanced to within ± /10%)
Air Consumption	: 0.06 SCFM , typical
FUNCTIONAL SP	PECIFICATIONS
Position Effect	: Not Measurable
Vibration Effect	: <0.25% from 1-200 Hz / 1g
Frequency Response	: -3db at 1.8 HZ (per ISA- S26.4.3.1 Configuration A)
Loop Load	: 4.2V dc Max
Operation Current	: 3.7mA min, 200mA max, continous at 120°F half cycle 70 amp at 1 /120 second 68°F
Supply Pressure	: 1.4 Kg/cm ² std ±20% variation will not affect accuracy
Air Supply	Clean dry and oil free instrument air
Operation Temperature	: (-25°C to 66°C)
Temperature Effect	±0.04% of Span Per [°] C from 0 to 66 [°] C
	±0.80% of span per [°] C from 0 to (-) 22 [°] C
EMI/RFI	: Less than ±1% effect on zero / Span (26-1000mHZ@30V/m) when installed per
	Installation Guidelines.
Operational Mode	Field Selectable Direct Reverse and /or Split Range .
Failure Mode	Mechanically Direct i.e. if input current drops below 3.7mA dc the output will drop to 1 to 2 psig regardless of direct or reverse mode selection .
PHYSICAL SPEC	CIFICATIONS

PHYSICAL SPECIFICATIONS

Enclosure	Internally purged IP-65 enclosure	
Connections	Pneumatic Supply Port - 1/4" NPT (F) Pneumatic Output Port - 1/4"NPT (F) Electrical connection -1/2" NPT (F)	
Weight	: 1Kg	

Manufactured By:

Shreyas Instruments (P) Ltd

No. 5, Ramamoorthy Street, Nehru Nagar, Chrompet, Chennai - 600 044. India Ph : 22231559, 22234562, 22230187 Fax : 91- 44- 2223 6984 Email : shreyasinstruments@gmail.com

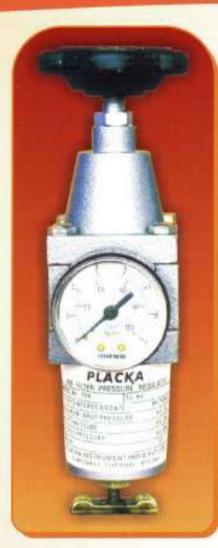
In Technical Collaboration

Brandt instruments inc. USA.

Note : Before installation refer to shreyas Installation & Operation Manual

PLACKA[™] Placka Instruments India Pvt. Ltd.

MIDI - AIR FILTER PRESSURE REGULATORS



Your Air-actuated Instruments and Equipments work at their best for a long period when you feed with clean dry air at a constant prescribed pressure. PLACKA MPR Series Air Filter-cum-Pressure Regulators remove completely the moisture and dust particles, and provides the exact pressure constantly at varying air demands.

This economically priced unit is extensively used for Process Control Instruments, Airactuated Control Valves, Cylinders and other equipments, not requiring large bowl capacity.

OPERATION

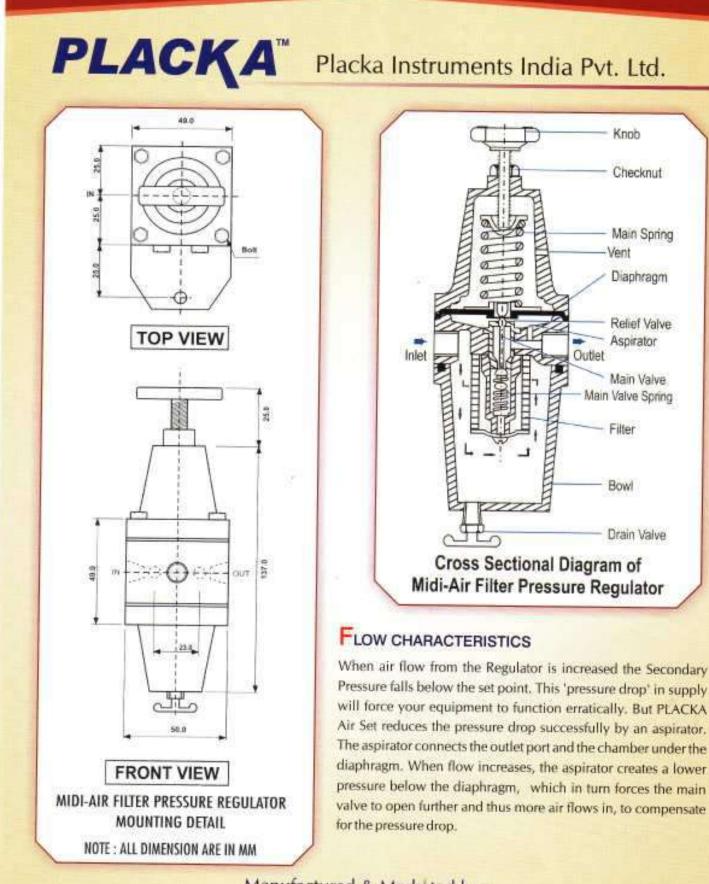
The primary air through the inlet port, passes through the filter element, leaving down the contaminants in the bowl. When the knob is adjusted suitably, the springs act on the diaphragm which in turn actuates the main valve to allow the pure secondary air at a particular pressure to the outlet. The main valve is supported between the relief valve and the main valve spring, eliminating the need for stem guiding. Toggle action between main valve and relief valve completely eliminates the alignment problems and thus, erratic output pressure variation.

REGULATION CHARACTERISTICS

The secondary pressure at the bottom of the diaphragm balances against the set position of the main spring to keep the main valve at the adjusted position. When the secondary pressure rises above the set point, it pushes the diaphragm away from the relief valve and the excess air finds its way to atmosphere through the bleed hole.

SPECIFICATIONS

Air	Body Spring Case and		
18kg/cm2		28	Die Cast Aluminium alloy
Weather Proof (Ip65)			Sintered Bronze
0-2.1 kg to 4.2 kg/cm2	11110		5/15/25/40 Microns
0-7 kg/cm2	Main Valve	82	Neoprene Moulded on SS
1 inlet, 1 outlet and			Stem
1 pressure gauge port	Drain Valve	3	Brass-Standard (SS on
2. [12] 가 다 같은 것은 같은 다 다 이 가 가 다 다 다 다 다.			request)
X10/2 6 5 5 5 5 6 6 7 6 7	Main Valve Spring	8	SS
Upto 80°C	Diaphragm	4	Nylon Reinforced Neoprene
Unbreakable plastic moulded	Main Spring	14	Spring Steel
on C.S. Stem (SS on request)	Mounting	1	Surface or Panel
	18kg/cm2 Weather Proof (lp65) 0-2.1 kg to 4.2 kg/cm2 0-7 kg/cm2 1 inlet, 1 outlet and 1 pressure gauge port 1/8", 1/4" - NPT(F) / BSP (F) 70cc (Approx.) Upto 80°C Unbreakable plastic moulded	18kg/cm2 Body Spring Case and Weather Proof (lp65) Filter Bowl 0-2.1 kg to 4.2 kg/cm2 Fitter 0-7 kg/cm2 Main Valve 1 inlet, 1 outlet and Drain Valve 1 pressure gauge port Drain Valve 1/8", 1/4" - NPT(F) / BSP (F) Main Valve Spring 70cc (Approx.) Main Valve Spring Upto 80°C Diaphragm Unbreakable plastic moulded Main Spring	18kg/cm2 Body Spring Case and Weather Proof (lp65) Filter Bowl 0-2.1 kg to 4.2 kg/cm2 Fitter 0-7 kg/cm2 Main Valve 1 inlet, 1 outlet and Drain Valve 1 pressure gauge port Drain Valve 1/8", 1/4" - NPT(F) / BSP (F) Main Valve Spring 70cc (Approx.) Main Valve Spring Upto 80°C Diaphragm Unbreakable plastic moulded Main Spring



Manufactured & Marketed by : PLACKA INSTRUMENTS INDIA PVT. LTD.

No.5, Ramamoorthy Street, Nehru Nagar, Chrompet, Chennai - 600 044. INDIA Phone : 044-2223 1559, 2223 4562 Fax : 044-222 6984 E-mail : sales@plackainstruments.com / Website : www.plackainstruments.com

PLACKA LARGE SIZE PRESSURE REGULATOR (PAR 825-925)



Your air-actuated instrument and equipment work at their best for a long period when you feed with clean and dry air at a constant prescribed pressure. PLACKA LARGE SIZE PRESSURE REGULATOR are a series of regulators are large size pressure regulators designed to maintain a stable output pressure in compressed air systems. Series regulators are large size pressure regulators designed to maintain a stable output pressure in compressed air systems. Series regulators control for various applications.

SALIENT FEATURES

Ensured Pressure Resistance	15 kg/cm²
Highest Working Pressure	10 kg/cm²
Ambient and Fluid Temperature	5 to 60°C
Pressure Regulating Range	0.5-8.5 kg/cm²
Valve Type	Overflow
Model Variants	PAR825-14 and PAR925-20
Nominal Flow (L/min)	PAR825-14 has 18000 L/min, PAR925-20 has 22000 L/min
Port Size	PAR825-14 uses 1 1/2 inch, PAR925-20 uses 2 inch
Gauge Port Size	Both models use 1/4 inch gauge ports
Weight	PAR825-14 weighs 8.3 kg, PAR925-20 weighs 8.6 kg
Bracket and Gauge	Optional accessories

OPERATION

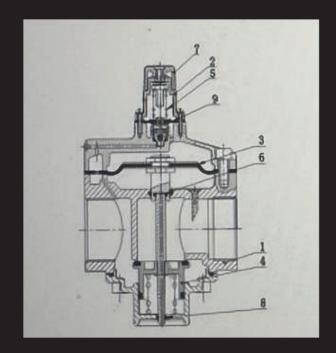
A pressure regulator maintains a consistent output pressure despite variations in input pressure and flow demand. It comprises an inlet port, outlet port, valve, diaphragm, spring, and adjustment screw. The fluid enters through the inlet port at high pressure and flows to the valve mechanism. The diaphragm, connected to the valve, senses the outlet pressure and adjusts the valve's position accordingly. If the outlet pressure drops, the spring pushes the diaphragm to open the valve, allowing more fluid to pass through. Conversely, if the outlet pressure increases, the diaphragm moves to close the valve, reducing the fluid flow. The adjustment screw sets the desired outlet pressure by altering the spring tension, ensuring the output remains stable and within the specified range.

SPECIFICATIONS

Ensured Pressure Resistance	15 Kg/sq.cm
Highest Working Pressure	10 Kg/sq.cm
Temperature	5 - 600 C
Pressure Regulating Range	0.5 - 8.5 Kg/sq.cm.
Valve Type	With Over Flow

Model No	Rated Flow (L/min)	Port Size (G)	Pressure Gauge Size	Weight (Kg)
PAR825 - 14	18000	1 1/2"	1/4"	2.5
PAR925 - 20	22000	2"	1/4"	3.1

STRUCTURAL DIAGRAM



MAIN PARTS

Sl.no	Denomination	Material
	Denomination	PAR825 - 925
1	Vale Body	Aluminium Die Casting
2	Bonnet	Aluminium Die Casting
3	Film	Rubber
4	Valve Core	Brass - Rubber
5	Spring	Stainless Steel
6	O Ring	Rubber
7	Hand Wheel	Enhanced Nylon
8	O Ring	Rubber
9	Film	Rubber

PLACKA PRECISION REGULATOR



Product Features

- > High precision , sensitive response.
 Steady output pressure.
- > Large flow rate and steady flow output.
- > Easy installation : Independent installation by bracket ;Bottom installation;
- > Direct installation with existing modular air preparation.
- > High pressure type, medium pressure type and low pressure type optional.

HOW TO ORDER?

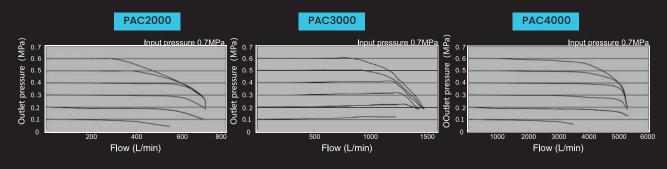
Series No.	— Port	Size	Pressure	Range	Pressure G	auge Code	Bracke	t Code	Scale Unit —	Thread Type
PAC2000 PAC3000 PAC4000	3000 4000	01:1/8" 02:1/4" 02:1/4" 03:3/8" 04:1/2"	L : 0.005 ~ M: 0.01 ~ 0 H: 0.01 ~ 0	0.4MPa	Blank: With pro N: No pres	essure gauge sure gauge	B	n bracket pracket	4: MPa/psi	Blank: G P: PT T:NPT

PPR3000 high precision regulator , 1/4" port, pressure range 0.01 –0.BMP a ,with gauge.with bracket.scale unit MPa/psi,G thread. PPR code is PPR3000–02H

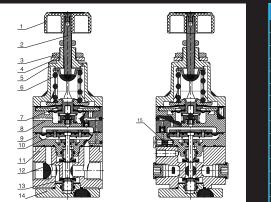
SPECIFICATIONS

Model No.		PPR2000 01	PPR3000 02	PPR4000 02	PPR4000 03	PPR4000 04			
Working Med	lium		Clean air(After 5 g m filteration)						
Max. Supply Pr	essure(Mpa)			1.0					
Min. Supply Pr	essure(Mpa)	Setting	pressure+0.05		Setting pressure	e+0.1			
Proof Pressu	re(Mpa)			1.5					
	Low Pressure	L:0.	005 ~ 0.2MPa		L:0.01 ~ 0.2N	/IPa			
Set Pressure	Medium Pressure	M:0.01 ~ 0.4MPa							
	High Pressure		H:0.01 ~ 0.8MPa						
Sensitivity			W	ithin 0.2% of fu ll sc	ale				
Repeatability			Wi	thin±0.5% of full se	cale				
Air Consumpt	ion	≪4.	4L/min(ANR)	≤11.5L/min(ANR)					
Port Size		1/8"	1/4"	1/4"	3/8"	1/2"			
Pressure Gaug	ge Port Size	G1/8(2 locations)							
Working Temp	erature(°C)		–20~70(No freezing)						
Weight(g)		140	420		710				

FLOW CHART

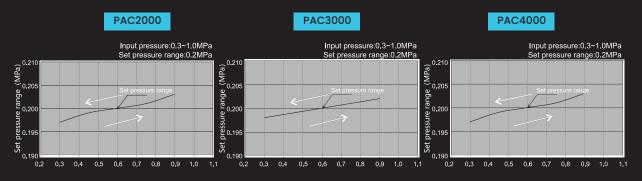


INTERNAL STRUCTURE

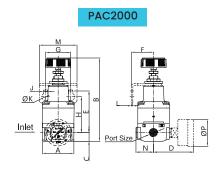


No.	Part Name	Material
1	Pilot regulate button	Plastic
2	Pilot regulate axle	Carbon steel
3	Hex nut	Free Machining Steel
4	Flat washer	SPCC
5	Pilot regulate seat	Aluminum
6	Spring	Spring steel
7	Pilot diaphram assy	Assy
8	Nozzle	Aluminum
9	Middle valve body	Aluminum
10	Main regulate diaphram	Assy
11	Main valve body	Aluminum
12	Exhaust valve core	Assy
13	Inlet valve core	Assy
14	Bottom cover	Aluminum
15	Filter element	High polymer material

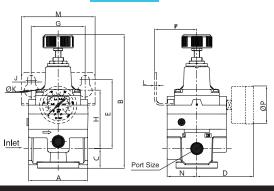
PRESSURE CHARACTERISTIC DIAGRAM



MAIN DIMENSION

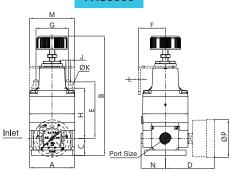






Model	Port Size	А	В	С	D	E	F	G	Н	J	К	L	М	Ν	Р
PAC2000	1/8"	35	93	9.5	44.5	46.5	25	28	40	4.5	8.5	2	42	19.5	30
PAC3000	1/4"	50	133	19	55	63	30	36	56	5.5	9.5	2	50	27	42
PAC4000	1/4"、3/8"、1/2"	66	149	22	63.5	77	47	60	65	9	15.5	2	82	33	42

PAC3000



PURGE ROTAMETERS



Rotameters are the mostly widely used type of variable Area (VA) flowmeters. The movement of a float in a tapered tube provides a measureof flow rate. A Rotameter is designed in accordance with the basic volumetric flow rate equation of a=kA,gl

were Q is the flow rate, K is a constant, A is the annular area, G is the force of gravity & H is the pressure drop across the float

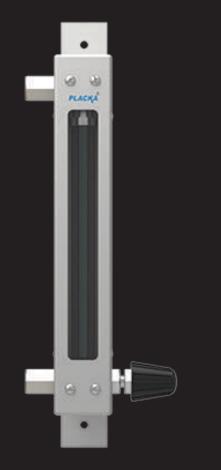
all the rest being a constant in a given Rorameter, the flow rate (Q) is directly proportional to the area (A) so the height of the tube is a measure of the flow rate. In PLACKA Purge rotameter a constant flow differential pressure flow regulator is used to maintain the purge flow-late at the desired level. A needle valve is used for convenient setting of the flow rate.

SALIENT FEATURES

- Economical
- > Compact
- > Panel / Side Mounting
- > Good Accuracy
- Ease of Maintance

APPLICATION

- > Accurate level Measurement
- Continues Lubrication (Bearing)
- > Purging for Corrosive Fluids
- > Density Measurement
- > Gas Analysers (Sample Delivery)





SPECIFICATION

PERFORMANCE

Model No. : LGPR 1.2.3 & 4

Fluids	: Transparent liquids and gases
Maximum Pressure	: 12 kg/cm³
Maximum Temperature	: 100° C
Flow rate	: Upto 300 LPM for Air/Gas & 5 LPM for Water standard (Higher flow rates on request)
Accuracy	: 5% FSD Std (Others on request)
Connections (Inlet & Outlet)	: 1/8*, 1/4* 1/2*NPT & BSP Standard, (Other sizes and flanged connections on request)
MATERIAL	
Scale	: Engraved on Glass tube
Matering Tube	: Borosilicate Glass
Body of rotameter	: 304SS / 316SS / Brass Plated
Body of DP regulator	: Die Cast Aluminum / 304 SS 316 SS (Other on request)
Connections	: 304 SS / 316 SS / Brass Plated
Inter connecting Tube for rotameter and DP regulator	: 304SS / 316SS / Copper Plated
Needle Valve	: 304 / 316SS
Packing	: Teflon / Neoprene

S.NO	MODEL	CONNECTION LOCATION
1	GA-10	BACK & BACK
2	LGPR-3	BACK & BACK
3	LGPR-3S	BACK & BACK
4	LGPR-4	SIDE & TOP , BACK & BACK WITH CONNECTOR
5	LGPR-4S	SIDE & TOP , BACK & BACK WITH CONNECTOR
6	LGPR-4SS	SIDE & TOP , BACK & BACK WITH CONNECTOR
7	LGPR-1	B&B,S&S,B&T
8	LGPR-1S	B&B,S&S,B&T
9	FLANGE TYPE LGPR-1	BOTTOM & TOP
10	LGPR-2	SIDE & TOP , BACK & BACK WITH CONNECTOR
11	LGPR-2S	SIDE & TOP , BACK & BACK WITH CONNECTOR





AIR FILTER – ALUMINIUM



Your Air-Actuated Instrument and Equipment work at their best for a long period when you feed with clean dry air . PLACKA AF- Series Air Filter removes completely the moisture and dust particles, and provides a clean air. Its compactness and highly accurate performance for a long period with minimum of maintenance make for an optimum compromise between the ideal and the practical, consistent with end-use.

This economically priced unit is extensively used for Process Control Instruments, Air-actuated Control Valves, Cylinders transducers and other equipments.





SALIENT FEATURES:

>In addition to solid particles, the unit extracts a high percentage of water thus ensuring trouble-free service even in the most adverse conditions.

> The dust and liquid contaminants can be fully drained out when the Air Filter is mounted vertically as in the case of Control Valves, Transmitters, etc

Custom made Unit for Control Valves, Transmitters and other field mounted Instruments. Simple, versatile built-in mounting arrangements by bolts and clamps. For panel mounting, tapped holes are provided at the top of the spring case for mounting screws. Most economically priced.

OPERATION:

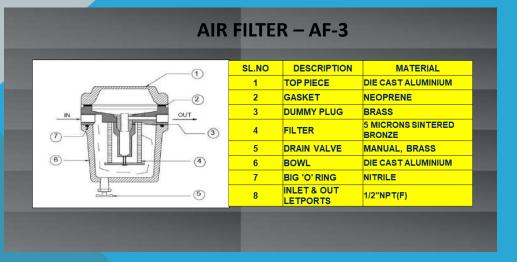
The primary air through the inlet port, passes through the filter element, leavingdown the contaminants in the bowl and clean air is supplied through the output port

In a regular intervals, the drain valve should be opened and the dust/contaminants to be drained for effective function of the Air Filter(AF)





Model	End Fitting
AF-1	1/4" NPT (F)/ BSP (F)
AF-2	3/8" NPT (F)/ BSP (F)
AF-3	1/2" NPT (F)/ BSP (F)
AF-4	3/4" NPT (F)/ BSP (F)
AF-5	1" NPT (F)/ BSP (F)









Service Max.Inlet Pressure End Connections End Connection Size Ambient Temperature MOC of Air Filter Filter Drain Valve Bowl Capacity Gasket Mounting Models

- : Air /Natural gas
- : 18Kg/Sq.cm(250psi)
- : 1 Inlet,1 Outlet (Pressure gauge port on request)
- : Screwed (Refer Table)
- : 100°C
- : Diecast Aluminium
- : Sintered Bronze/ Poly Propylene Plastic / SS316
- : Brass
- : 130cc
- : Neoprene/EPDM
- : Surface or Panel
- : Refer table

Placka Instruments India Pvt. Ltd.,

No:5, Ramamoorthy Street, Nerhu Nagar, Chromepet Chennai – 600 044, Tamil Nadu, India. Ph : 91-044 2223 4562, 2223 1559 Fax : 2223 6984

E-mail : sales@plackainstruments.com ; plackainstruments@yahoo.com Website : www.plackainstruments.com



SS AIR FILTER





Your Air-Actuated Instrument and Equipment work at their best for a long period when you feed with clean dry air . PLACKA AF- Series Air Filter removes **completely** the moisture and dust particles, and provides a clean air. Its compactness and highly accurate performance for a long period with minimum of maintenance make for an optimum compromise between the ideal and the practical, consistent with end-use.

This economically priced unit is extensively used for Process Control Instruments, Air-actuated Control Valves, Cylinders transducers and other equipments.





SALIENT FEATURES:

Longer life assured as the materials used are selected for their corrosion resistance and long wear.

>In addition to solid particles, the unit extracts a high percentage of water thus ensuring trouble-free service even in the most adverse conditions.

The dust and liquid contaminants can be fully drained out when the Air Filter is mounted vertically as in the case of Control Valves, Transmitters, etc

Custom made Unit for Control Valves, Transmitters and other field mounted Instruments.

Simple, versatile built-in mounting arrangements by bolts and clamps. For panel mounting, tapped holes are provided at the top of the spring case for mounting screws.

>Most economically priced.

Model AFSS with SS components instead of brass, for corrosive working conditions of Fertilisers, Nuclear, Refinery and Steel Plants.

OPERATION:

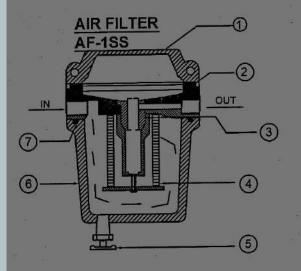
The primary air through the inlet port, passes through the filter element, leavingdown the contaminants in the bowl and clean air is supplied through the output port

>In a regular intervals, the drain valve should be opened and the dust/contaminants to be drained for effective function of the Air Filter(AF)

PLACKA Instruments India

PLACKA INSTRUMENTS INDIA PVT LTD.,





BILL OF MATERILAS

SL.NO	DESCRIPTION	MATERIAL				
1	TOP PIECE	SS 316				
2	GASKET	NEOPRENE				
3	FILTER HOLDER	SS 316				
4	FILTER	5 MICRONS SS 316				
5	DRAIN VALVE	MANUAL, SS 316				
6	BOWL	SS 316				
7	BIG 'O' RING	NEOPRENE				
-		Marine Contraction				

Model	End Fitting
AF-1SS	1/4" NPT (F)/ BSP (F)
AF-2SS	3/8" NPT (F)/ BSP (F)
AF-3SS	1/2" NPT (F)/ BSP (F)
AF-4SS	3/4" NPT (F)/ BSP (F)
AF-5SS	1" NPT (F)/ BSP (F)





AF -SPECIFICATIONS

Service

Models

Max.Inlet Pressure End Connections End Connection Size Ambient Temperature MOC of Air Filter Filter Drain Valve Bowl Capacity Gasket Mounting

- : Air
 - : 18Kg/Sq.cm(250psi)
 - : 1 Inlet,1 Outlet (Pressure gauge port on request)
 - : Screwed (Refer Table)
 - : 100°C
 - : SS 304 / SS316
 - : Sintered Bronze/ Poly Propylene Plastic / SS316
 - : SS304/SS316
 - : 130cc
 - : Neoprene/EPDM
 - : Surface or Panel
 - : Refer table

Placka Instruments India Pvt. Ltd.,

No:5, Ramamoorthy Street, Nerhu Nagar, Chromepet Chennai – 600 044, Tamil Nadu, India. Ph : 91-044 2223 4562, 2223 1559 Fax : 2223 6984

E-mail : sales@plackainstruments.com ; plackainstruments@yahoo.com Website : www.plackainstruments.com

AIR FILTER PRESSURE REGULATOR (ALUMINIUM)



Your Air-Actuated Instrument and Equipment work at their best for a long period when you feed with clean dry air at a constant prescribed pressure. PLACKA FPR- Series Air Filter-cum Pressure Regulator removes completely the moisture and dust particles, and provides the exact pressure constantly at varying air demands. Its compactness and highly accurate performance for a long period with minimum of maintenance make for an optimum compromise between the ideal and the practical, consistent with end-use. This economically priced unit is extensively used for Process Control Instruments, Air-actuated Control Valves, Cylinders transducers and other equipments.

SALIENT FEATURES

- > Longer life assured as the materials used are selected for their corrosion resistance and long wear.
- Excellent characteristics throughout the full flow range particularly at low flow zone in which the unit usually serves Instruments.
- Negligible pressure drop due to high porosity ratio of the filter. The filter is reusable and has a high impact strength.
- In addition to soild particles, the unit extracts a high percentage of water thus ensuring trouble-free service even in the most adverse conditions.
- > Built-in relief ensure rapid response to circuit-induced pressure charges.
- The dust and liquid contaminats can be fully drained out when the regulator is mounted both vertically and horizontally as in the case of control valves, transmittersm etc.
- > Custom made unit for control valves, Transmitters and other field mounted Instruments.
- > Regulator adjustment knob is easily lockable by the finger operated locking unit.
- Simple, versatile built in mounting arrangements by bolts and clamps. For panel mounting, tapped holes are provided at the top of the spring case for mounting screws.
- Most economically priced.

Service :	Air
Max. inlet Pressure :	250 PSI
	18 kg/cm2
Enclosure :	Weather Proof (IP65)
Outlet Pressure Ranges :	Refer Table 1
End Connections :	1 inlet, 1 outlet and
	1 pressure gauge port
Bowl Capacity :	130 cc (Approx.)
Ambient Temperature :	Upto 80° c
Adjustment knob with nut :	Unbreakable plastic
	moulded on C.S. Stem
Body Spring Case and	(SS on request)
Filter Bowl :	Die Cast Aluminium alloy
Filter :	Sintered Bronze /
	Porus Plastic
	15 Microns Standard
	5, 25, 40 Microns Optional
Main Valve :	Neoprene Moulded on SS stem
Drain Valve :	Brass - Standard (SS on reques
Main Valve Spring :	SS
Diaphragm :	Nylon Reinforced
	Neoprene
Main Spring :	Spring Steel
Mounting :	Surface or Panel

t)

SELECT MODEL NUMBERS :

END CONNECTION	OUTLET PRESSURE RANGE				DIMENSION
	0 - 2.1 kg / cm2 0 - 30 PSI	0 - 4.2 kg / cm2 0 - 60 PSI	0 - 7 kg / cm2 0 - 100 PSI	0 - 10.6 kg / cm2 0 - 150 PSI	(A) mm
1/4"	FPR - 1	FPR - 2	FPR - 3	FPR - 3A	157
3/8"	FPR - 4	FPR - 5	FPR - 6	FPR - 6A	172
1/2"	FPR - 7	FPR - 8	FPR - 9	FPR - 9A	172
3/4"	FPR - 10	FPR - 11	FPR - 12	FPR - 12A	180
1"	FPR - 13	FPR - 14	FPR - 15	FPR - 15A	190

AIR FILTER PRESSURE REGULATOR (STAINLESS STEEL)



Your Air-Actuated Instrument and Equipment work at their best for a long period when you feed with clean dry air at a constant prescribed pressure. PLACKA FPR- Series Air Filter-cum Pressure Regulator removes completely the moisture and dust particles, and provides the exact pressure constantly at varying air demands. Its compactness and highly accurate performance for a long period with minimum of maintenance make for an optimum compromise between the ideal and the practical, consistent with end-use. This economically priced unit is extensively used for Process Control Instruments, Air-actuated Control Valves, Cylinders transducers and other equipments.

SALIENT FEATURES

- > Longer life assured as the materials used are selected for their corrosion resistance and long wear.
- Excellent characteristics throughout the full flow range particularly at low flow zone in which the unit usually serves Instruments.
- Negligible pressure drop due to high porosity ratio of the filter. The filter is reusable and has a high impact strength.
- In addition to soild particles, the unit extracts a high percentage of water thus ensuring trouble-free service even in the most adverse conditions.
- > Built-in relief ensure rapid response to circuit-induced pressure charges.
- The dust and liquid contaminats can be fully drained out when the regulator is mounted both vertically and horizontally as in the case of control valves, transmittersm etc.
- > Custom made unit for control valves, Transmitters and other field mounted Instruments.
- > Regulator adjustment knob is easily lockable by the finger operated locking unit.
- Simple, versatile built in mounting arrangements by bolts and clamps. For panel mounting, tapped holes are provided at the top of the spring case for mounting screws.
- Most economically priced.

Service :	Air			
Max. inlet Pressure :	250 PSI			
	18 kg/cm2			
Enclosure :	Weather Proof (IP65)			
Outlet Pressure Ranges :	Refer Table 1			
End Connections :	1 inlet, 1 outlet and			
	1 pressure gauge port			
Bowl Capacity :	130 cc (Approx.)			
Ambient Temperature :	Upto 80° c			
Adjustment knob with nut :	Unbreakable plastic			
	moulded on S.S. Stem			
Body Spring Case and				
Filter Bowl :	Investment Casting SS316			
Filter :	Sintered Bronze /			
	Poly proylene Plastic			
	15 Microns Standard			
	5, 25, 40 Microns Optional			
	SS filter 5 Micron Optional			
Main Valve :	Neoprene Moulded on SS stem			
Drain Valve :	SS			
Main Valve Spring :	SS			
Diaphragm :	Nylon Reinforced			
	Neoprene			
Main Spring :	Spring Steel			
Mounting :	Surface or Panel			

SELECT MODEL NUMBERS :

	OUTLET PRESSURE RANGE				BODY	
END CONNECTION	0 - 2.1 kg / cm2 0 - 30 PSI	0 - 4.2 kg / cm2 0 - 60 PSI	0 - 7 kg / cm2 0 - 100 PSI	0 - 10.6 kg / cm2 0 - 150 PSI	LENGTH	
1/4"	FPR - 1SS	FPR - 2SS	FPR - 3SS	FPR - 3ASS	154	
3/8"	FPR - 4SS	FPR - 5SS	FPR - 6SS	FPR - 6ASS	166	
1/2"	FPR - 7SS	FPR - 8SS	FPR - 9SS	FPR - 9ASS	166	
3/4"	FPR - 10SS	FPR - 11SS	FPR - 12SS	FPR - 12ASS	176	
1″	FPR - 13SS	FPR - 14SS	FPR - 15SS	FPR - 15ASS	176	

AIR FILTER REGULATOR



Your Air-actuated Instrument and Equipment work at their best for a long period when you feed with clean dry air at a constant prescribed pressure. PLACKA FPR-Series Air Filter-cum-Pressure Regulator removes completely the moisture and dust particles, and provides the exact pressure constantly at varying air demands. Its compactness and highly accurate performance for a long period with minimum of maintenance make for an optimum compromise between the ideal and the practical, consistent with end-use.

This economically priced unit is extensively used for Process Control Instruments, Air-actuated Control Valves, Cylinders and other equipments.

SALIENT FEATURES

- > Longer life assured as the materials used are selected for their corrosion resistance and long wear.
- Excellent characteristics throughout the full flow range particularly at low flow zone in which the unit usually serves Instruments.
- Negligible pressure drop due to high porosity ratio of the filter. The filter is reusable and has ahigh impact strength.
- In addition to solid particles, the unit extracts a high percentage of water thus ensuring trouble-free service even in the most adverse conditions.
- > Built-in relief ensures rapid response to circuit-induced pressure changes.
- The dust and liquid contaminants can be fully drained out when the Regulator is mounted both vertically and horizontally as In the case of control valves, transmitters, etc.
- > Custom made Unit for Control Valves, Transmitters and other field mounted Instruments.
- > Regulator adjustment knob is easily lockable by the finger operated locking nut.
- Simple, versatile built in mounting arrangements by bolts and clamps. For panel mounting, tapped holes are provided at the top of the spring case for mounting screws.
- > Most economically priced.

OPERATION

The primary air through the inlet port, passes through the filter element, leaving down the contaminants in the bowl. When the knob is adjusted suitably, the spring acts on the diaphragm which in turn actuates the main valve to allow the pure secondary air at a particular pressure to the outlet. The main valve is supported between the relief valve and the main valve spring, eliminating the need for stem guiding, Toggle action between main valve and relief valve completely eliminates the alignment problems and thus, erratic output pressure.

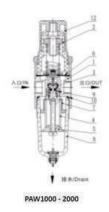
SPECIFICATIONS

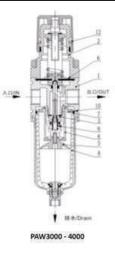
Ensured Pressure Resistance	15 Kg/sq.cm		
Highest Working Pressure	10 Kg/sq.cm		
Temperature	5 - 60º C		
Filter Precision	25 Microns		
Container Material	Poly Carbonate		
Protective Cover	PAW 1000 - 2000 (Not Available) PAW 3000 - 5000 (Available)		
Pressure Regulating Range	PAW 1000 (0.5-0.7 kg/sq.cm) PAW 2000 - 5000 (0.5-8.5 kg/sq.cm)		
Valve Type	With Over Flow		

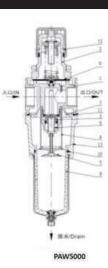
Note 1) There are 2 types auto drain for AW2000, pulsed type and lever type. "D" means normal auto drain, pulsed type; 'D2" means lever type auto drain. For Example: PAW2000-0202. The normal auto drain for PAW3000-PAW5000 is lever type, but the float type auto drain is available for choose. Please check the details from AUTO DRAIN.

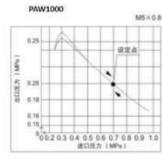
Note 2) Under the circumstance that the supply pressure is 7.1 Kg/sq.cm and set pressure is 5.1 Kg/sq.cm **Note 3)** RC, NPT thread are available.

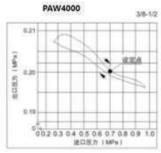
SI.No	DENOMINATION	MATERIAL			
51.110		PAW1000	PAW2000-40	000	PAW4000-5000
1.	Valve Body	Zince Die Casting Aluminium Die Casting			
2.	Valve Core	Reinforced Nylon Aluminium Die Casting			ium Die Casting
3.	Valve Core assembly	Brass, Rubber			
4.	Filter element	Brass			
5.	Drain Board	ABS			
6.	Flim	Rubber			
7.	WhirlWind Blade	ABS			
8.	Water Storage Cup	PolyCorbonate (Cold Rolled Sheet)			
9.	Spring	StainlessSteal			
10.	O Ring	Rubber			
11.	O Ring	Rubber			
12.	Hand Wheel	Reinforced Nylon			
13.	Middle part	Aluminium Die Casting			

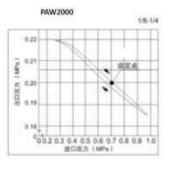


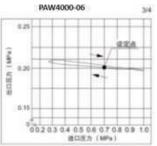


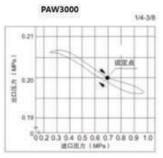












Inlet Pressure P1 = 7.0 Kg/sq.cm Outlet Pressure P2 = 2.0 Kg/sq.cm Rate of Flow Q=20 L/Min (ANR)