

# Material Pressure Regulator

Manual adjusted or Servo regulated



A material pressure regulator is used to regulate downstream material pressures and to minimize any pressure pulsations induced by air-driven piston pumps when dispensing viscous materials. The

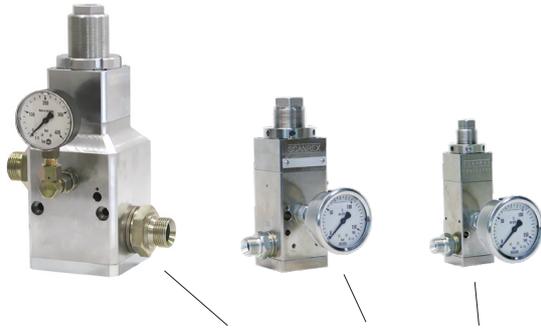
material pressure is easily adjusted by screw or by an air-driven servo. The regulator can be adapted to highly abrasive and corrosive materials. Material pressure can be regulated in the range of 1-200 bar.

# Material Pressure Regulator

– Manual adjusted or Servo regulated

## MANUALLY REGULATED

The manual regulator is used to regulate downstream material pressures and minimise pressure pulsations from air driven piston pumps. The manual regulator is set and locked at desired pressure.



Model:	<u>164002650</u>	<u>164002680</u>	<u>164002550</u>
<b>Input pressure range [bar]:</b>	50-200	up to 250	up to 250
<b>Regulated pressure out [bar]:</b>	20-100	5-150	1-90
<b>Throughput diameter [mm]:</b>	32	10	5
<b>Connection diameter [BSP]:</b>	1 1/4"	1/2"	1/4"
<b>Weight [kg]:</b>	15	3,1	1,2
<b>Dimensions [mm]:</b>	105x105x260	60x60x190	40x40x150

(without air regulator and manometer)

## STANDARD COMPONENTS

Regulator  
Adjustment screw  
Spring package  
Manometer

## OPTIONS

Heating element  
Regulator in stainless steel (RF)  
Seat/ball in Hard metal (HM)

*All data and characteristics mentioned in this booklet are by way of example only. Given flow capacities and material pressure are depending on; inlet air pressure, material viscosity, the hose dimensions and other equipment fitted after the pump outlet. Aplicator Group reserves the right to modify the products without prior notice.*

## SERVO REGULATED

The servo regulator is highly accurate and easy to fine tune. Instead of a spring package the servo regulator works with compressed air to give a smooth regulated material flow. Fitted with an E/P-converter the servo gives a remote control stepless output material pressure, proportional to an electrical input signal.



Model:	<u>164002641</u>	<u>1640631060</u>
<b>Input pressure range [bar]:</b>	up to 250	up to 250
<b>Regulated pressure out [bar]:</b>	5-180	1-100
<b>Throughput diameter [mm]:</b>	10	5
<b>Connection diameter [BSP]:</b>	1/2"	1/4"
<b>Weight [kg] stage 1/2/etc:</b>	5,1/+0,9/+0,9	2,1/+0,21/+0,21
<b>Dimensions min/max [mm]:</b>	155-335x135	150-330x70

(without air regulator and manometer)

The table shows a simplified correlation between set air pressure and inlet material pressure. Set air pressure to 4 bar and an inlet material pressure to 100 bar, gives an even outlet material pressure of 48 bar.

Air pressure	50 bar	100 bar	150 bar	200 bar
1 bar	5	10	20	30
2 bar	12	23	41	56
3 bar	18	35	62	81
4 bar	25	48	84	107
5 bar	32	60	105	133
6 bar	40	75	130	159
7 bar	x	x	x	180

## STANDARD COMPONENTS

Air servo  
Regulator  
Manometer

## OPTIONS

E/P converter  
Heating  
Regulator in stainless steel (RF)  
Seat/ball in Hard metal (HM)  
Control system