

soma

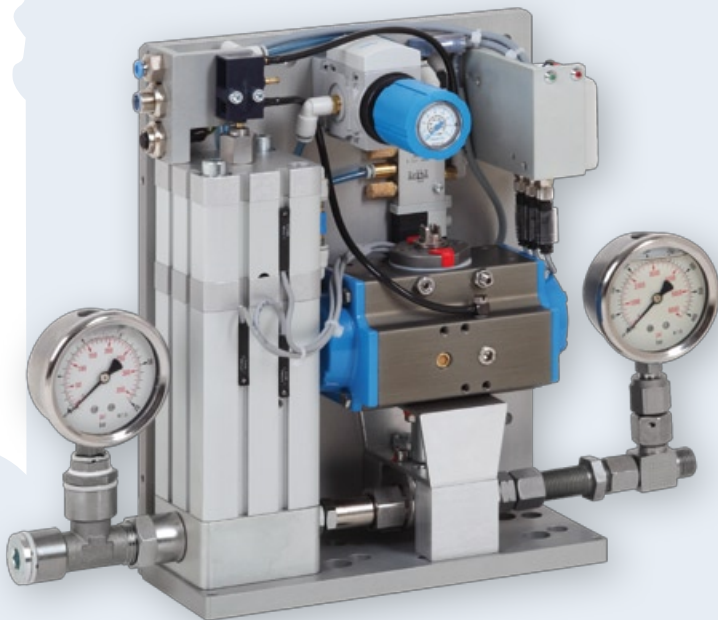
DAS 120/12 – Pressure Balance System

Dosing quality begins before the valve



DAS 120/12 – Pressure Balance System

Dosing quality begins before the valve



The patented DAS 120/12 Pressure Balance System limits the high pressure within supply systems for industrial greases and highly viscous fluids before they are fed into the dosing components, and prevents pressure fluctuations.

Adjustable medium pressure

In order to achieve consistently good dosing results, the medium pressure before the dosing valve has to be limited to the maximum pressure that is optimal for the respective application. With a maximum input pressure of 120 bar (1,740 PSI), the DAS 120/12 ensures that the medium pressure level set on its output side is constantly supplied to the dosing valves without pressure fluctuations. This makes it highly suited for use in supply systems for highly viscous media using low or medium pressure pumps.

DAS 120/12 – Method of functioning

Via a pneumatically operated ball stop valve, the medium to be dosed is pumped into a precisely adjustable pressurised

storage cylinder, causing the piston to be pushed upwards. Until the piston reaches its final upper position which is checked by a sensor, there is equal pressure between the air-pressurised cylinder space and the pumped-in dosing medium. Once the storage cylinder is completely filled with the dosing medium, the ball stop valve automatically cuts off the medium supply. On the output side, the connected dosing valves are then supplied with the dosing medium at the preset pressure and free of any pressure fluctuations. When the

storage cylinder runs out of dosing medium, the ball stop valve automatically opens the pump input and the filling process is repeated without interrupting the supply to the dosing valves.

Optional pressure monitoring

Particularly, when using pressure and time controlled dosing valves, the supply of a constant medium pressure is of functional importance. Instead of the standard manometer for the indication of the grease output pressure, a pressure monitor with digital pressure indication and adjustable min/max alarm limits can be directly integrated and connected to the DAS 120/12. The output signals of the pressure monitor are led internally to the interface plug for superordinated control systems.

Technical data

Weight:	9.3 kg
Air pressure:	6–8 bar (87–116 PSI)
Input pressure:	max. 120 bar (1,740 PSI)
Output pressure:	0–12 bar (0–174 PSI)
Voltage supply:	24 Volts
Optional pressure monitor with switching outputs	
Dimensions (W×H×D):	375×290×125 mm

