

Product description

Injector MPV

DESCRIPTION

MPV Injectors are used in automatic grease lubrication systems of machine tools. They ensure that an accurate volume of grease is delivered to the appropriate lubrication point. The grease volume per cycle may be adjusted manually setting the stroke of the injector piston.

OPERATION

REST POSITION

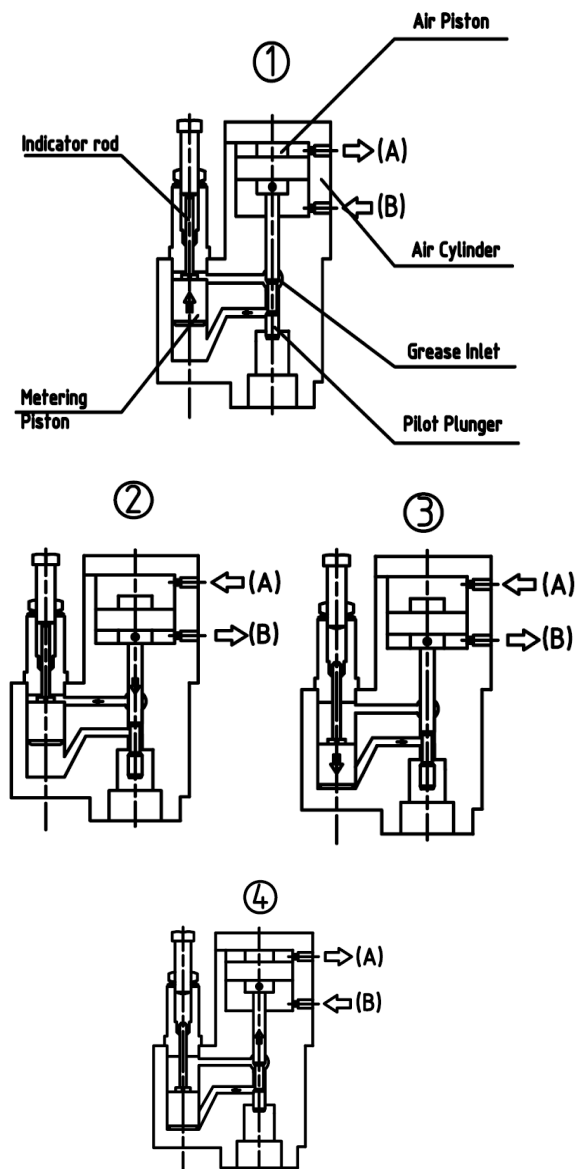
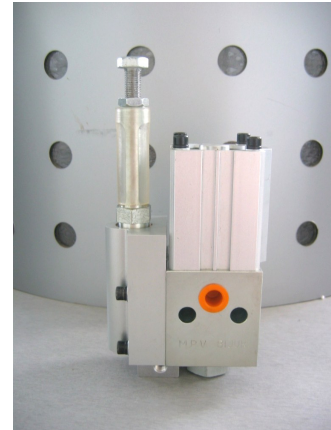
When pneumatic port A is exhausted and port B is pressurised through the 5/2 directional valve, the air piston will be in rest/top position. Grease is supplied continuously under pressure through the grease inlet port of the valve, from an external pump source. The pilot plunger blocks the grease outlet port but allows grease to pressurise both sides of the metering piston. The metering piston is forced into the top position due to differential sectional areas between top and bottom surfaces of the piston.

DISCHARGE

Once the 5/2 directional valve is energised, pressurised air through port A forces air piston downwards, moving the pilot plunger into the discharge position. This action forces the grease into the top chamber of the metering piston only and pushes the piston downwards, ejecting the grease out through the outlet. Once the metering piston has reached the end of its stroke no further grease will be discharged.

RESET

De-energizing the 5/2 directional valve forces air piston back up into rest position, closing off. Outlet and allowing the grease once again to push the metering piston back up, filling the metering chamber once more.



TECHNICAL DATA

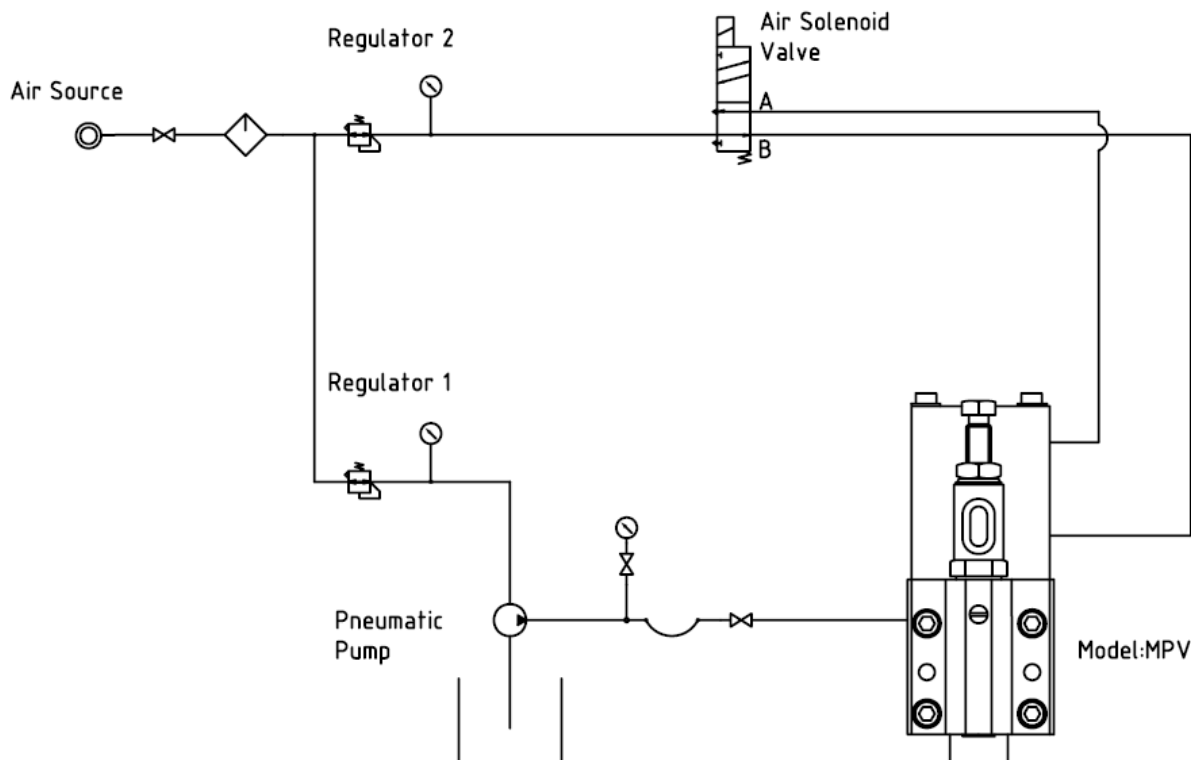
Delivery per cycle:	See table below
Air Supply Pressure:	4 bar to 7 bar
Grease Supply Pressure:	60 to 210 bar MPVB1 and MPVC1, 100 to 210 bar MPVA1
Recommended Lubricant:	Grease NLGI #0-#2
Injector Outlet Pressure:	150 bar max.
Operating Temperature:	-20°C to 60 °C
Electrical Control (optional):	Cycle Protection, using NPN or PNP Inductive Switch
Voltage:	10 to 24Vcc
Switching Current Capacity:	100mA max.
Frequency:	5kHz max.

TO ORDER

Define the correct reference and designation using the code below :

DESCRIPTION	PART NO	OUTPUT DELIVERY
Injector MPVA1	MPVA1	0.05-0.30 cc/stroke
Injector MPVB1	MPVB1	0.20-1.20 cc/stroke
Injector MPVC1	MPVC1	0.50-5.00 cc/stroke

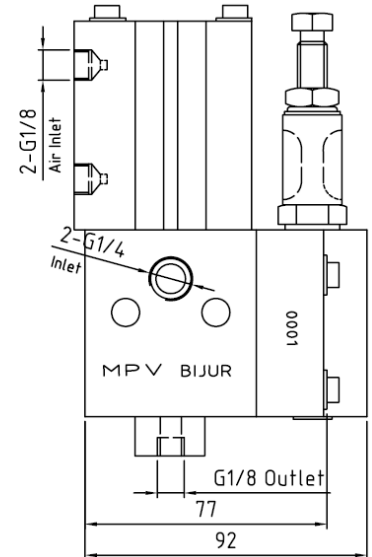
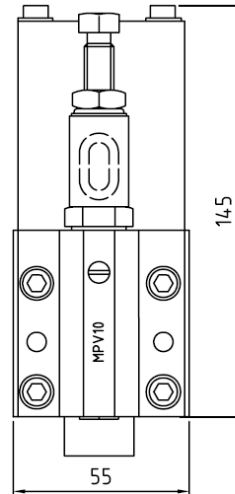
INSTALLATION SCHEMATIC



TECHNICAL LAYOUT MPVA1

SPARE PARTS MPVA1 :

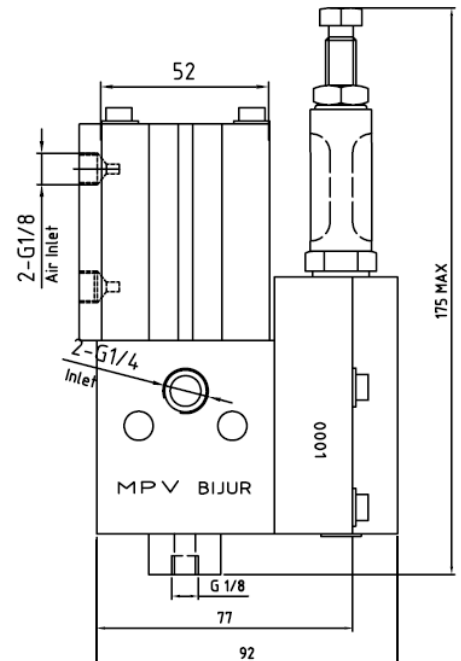
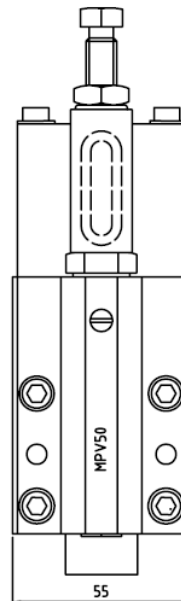
Part Nbr	DESCRIPTION
50504	Complete indicator assembly
292011	Seal kit



TECHNICAL LAYOUT MPVA1

SPARE PARTS MPVB1 :

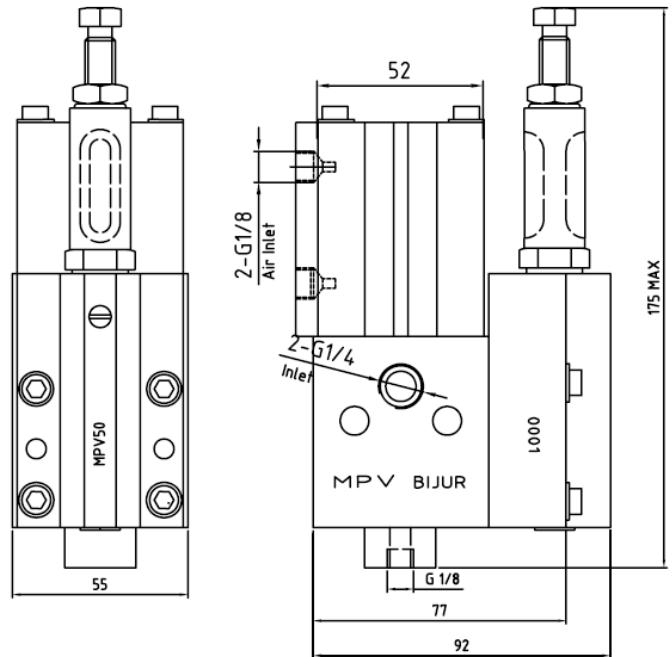
Part Nbr	DESCRIPTION
50504	Complete indicator assembly
292012	Seal kit



TECHNICAL LAYOUT MPVB1

SPARE PARTS MPVC1:

Part Nbr	DESCRIPTION
5056	Complete indicator assembly
292013	Seal kit



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