

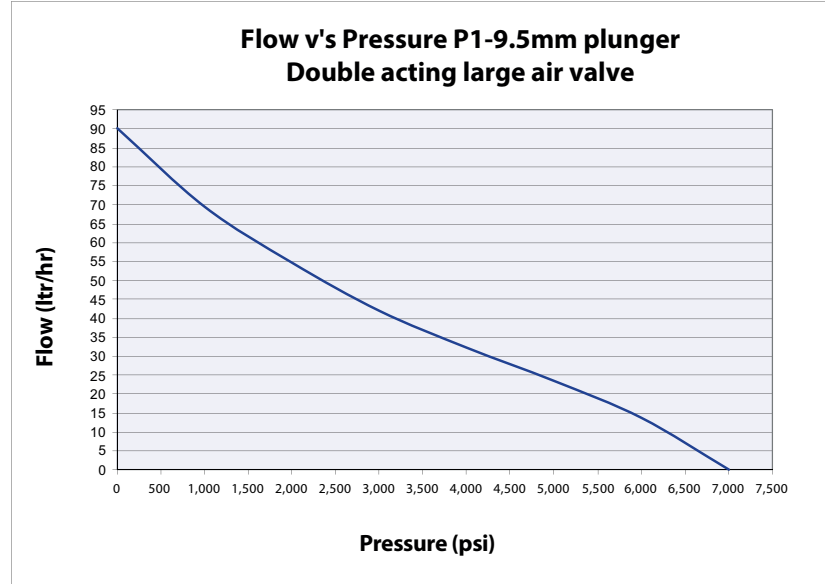
# P1 Series CP-P1-9-D Data Sheet

The CP-P1-9-D operates with a 9.5mm plunger, it is the mid size in the P1 series giving higher injection rates but at a lower pressure. The CP-P1-9-D has a pressure range up to 7,000 psi and an injection rate up to 90 L/hr with a stroke volume of 2.7cc. For lower injection rates the pump can be modified from a double acting hydraulic pump to a single acting hydraulic pump. Further modifications can be made by fitting a smaller air control valve to this pump, this would reduce the injection rate to as low as 0.162 L/hr, stroke volumes would remain the same. Please note flow for the P1 series is listed in litres per hour.

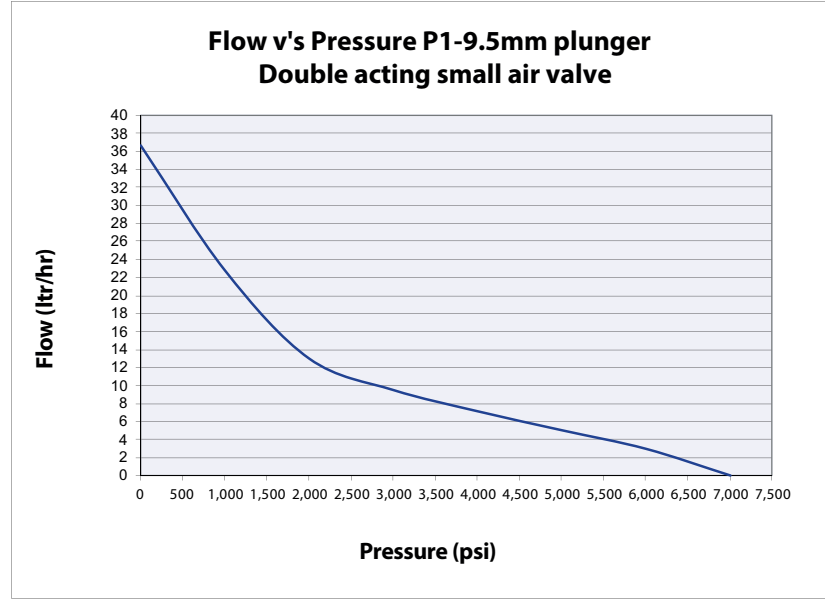
## Air input to hydraulic discharge pressure static/stall values:

Pump Model	Hydraulic Piston Diameter	Pump Ratio	20 psig Air Supply	40 psig Air Supply	60 psig Air Supply	80 psig Air Supply	100 psig Air Supply
CP-P1-9-D	9.5mm	70 - 1	1,400	2,800	4,200	5,600	7,000

## Flow Charts:



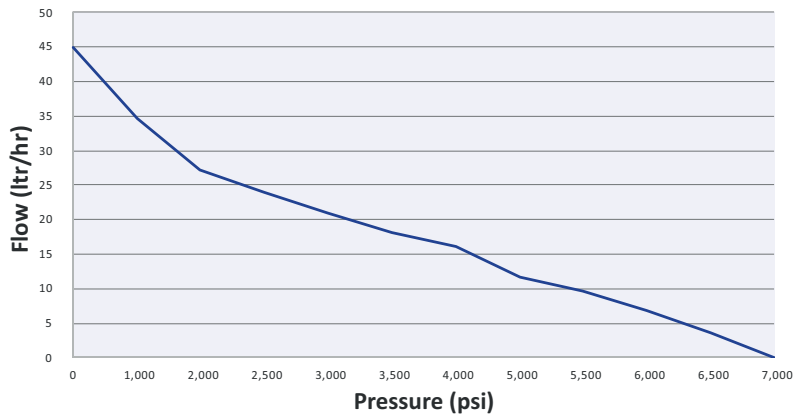
Pressure (PSI)	Flow (ltr/hr)
0	90.00
1,000	72.95
2,000	59.20
3,000	44.90
4,000	34.35
5,000	26.50
6,000	11.85



Pressure (PSI)	Flow (ltr/hr)
0	39.80
1,000	20.70
2,000	13.85
3,000	10.30
4,000	7.50
5,000	5.20
6,000	2.35

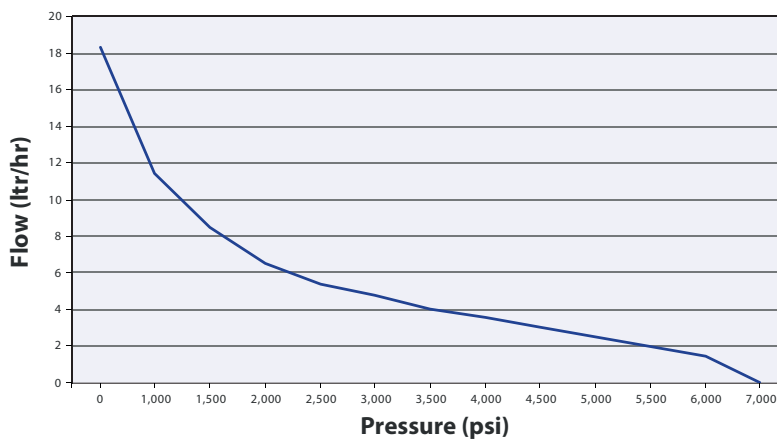
## Flow Charts:

Flow v's Pressure P1-9.5mm plunger  
Single acting large air valve



Pressure (PSI)	Flow (ltr/hr)
0	45.00
1,000	36.48
2,000	29.60
3,000	22.45
4,000	17.18
5,000	13.25
6,000	5.93

Flow v's Pressure P1-9.5mm plunger  
Single acting small air valve



Pressure (PSI)	Flow (ltr/hr)
0	19.90
1,000	10.35
2,000	6.93
3,000	5.15
4,000	3.75
5,000	2.60
6,000	1.18

## Pump Dimensions:

