

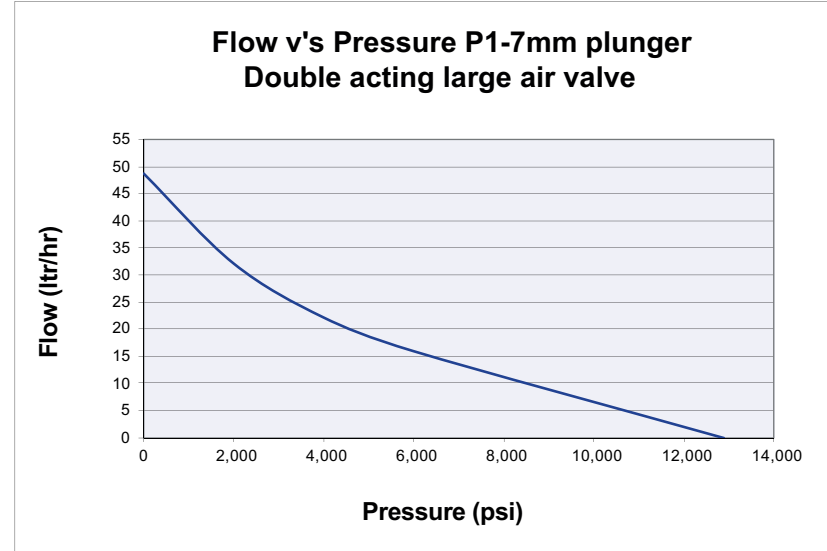
# P1 Series CP-P1-7-D Data Sheet

The CP-P1-7-D operates with a 7mm plunger, it is the smallest in the P1 series giving lower more accurate injection rates but at a higher pressure than the rest of the series. The CP-P1-7-D has a pressure range up to 13,000 psi and an injection rate up to 48 L/hr with a stroke volume of 1.62cc. 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 0.1 ltr/hr, stroke volumes would remain the same. Please note flow for the P1 series is listed in litres per hour.

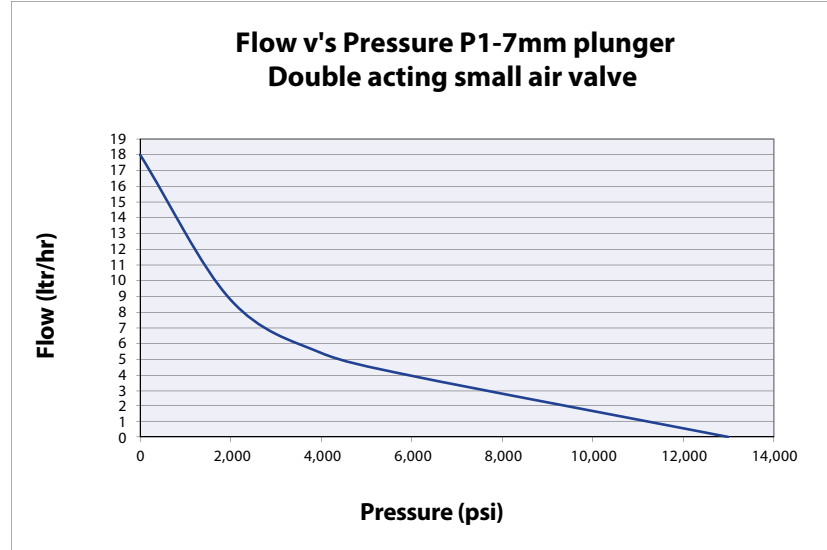
### Air input to hydraulic discharge pressure static/stall values:

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-P1-7-D	7mm	129 - 1	2,500	5,100	7,700	10,000	13,000

### Flow Charts:

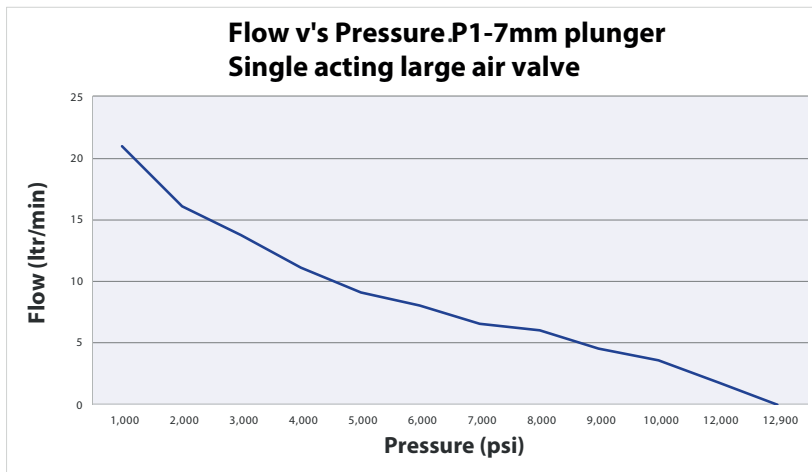


Pressure (PSI)	Flow (ltr/hr)
0	49.65
1,000	43.45
2,000	38.70
3,000	34.40
4,000	27.45
5,000	26.30
6,000	23.10
7,000	21.30
8,000	17.60
9,000	14.40
10,000	11.10

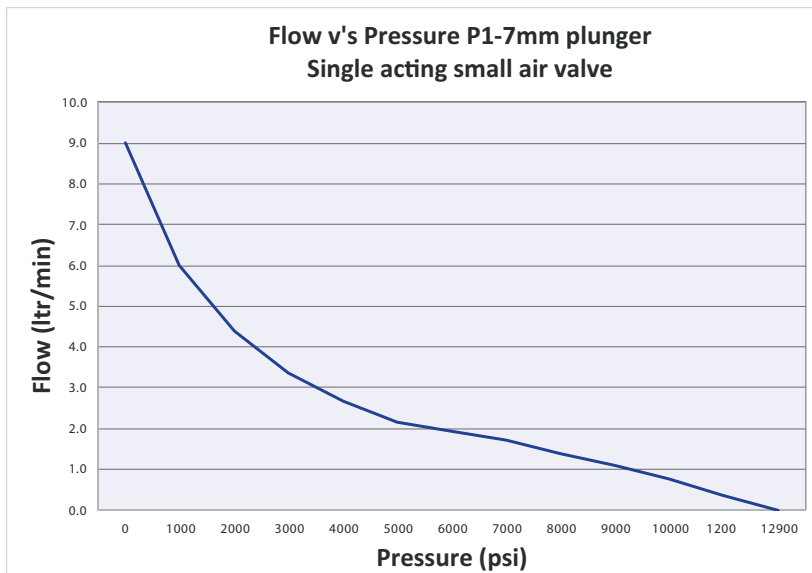


Pressure (PSI)	Flow (ltr/hr)
0	22.75
1,000	14.75
2,000	10.70
3,000	8.35
4,000	6.70
5,000	5.75
6,000	4.70
7,000	3.85
8,000	3.20
9,000	2.65
10,000	2.05

## Flow Charts:



Pressure (PSI)	Flow (ltr/hr)
0	24.83
1,000	21.73
2,000	19.35
3,000	17.20
4,000	13.73
5,000	13.15
6,000	11.55
7,000	10.65
8,000	8.80
9,000	7.20
10,000	5.55



Pressure (PSI)	Flow (ltr/hr)
0	11.38
1,000	7.38
2,000	5.35
3,000	4.18
4,000	3.35
5,000	2.88
6,000	2.35
7,000	1.93
8,000	1.60
9,000	1.33
10,000	1.03

## Pump Dimensions:

