

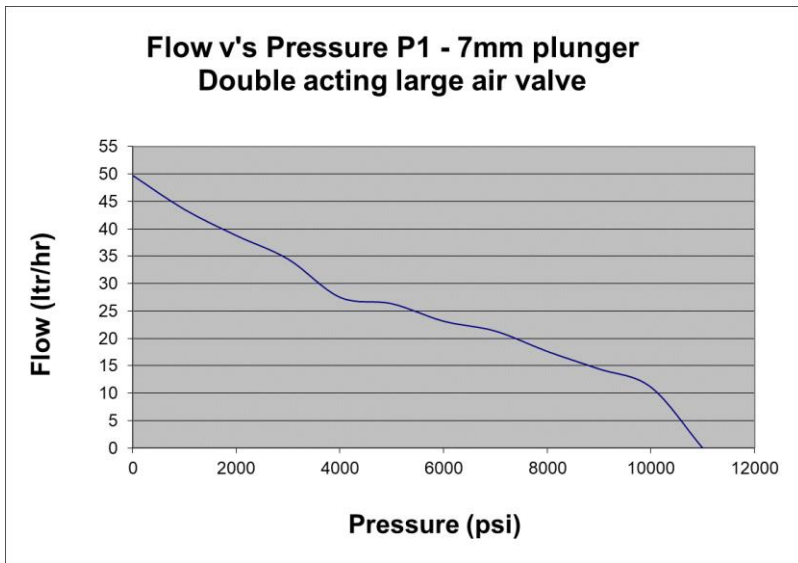
P1 Series CP-P1-7-D Data Sheet

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 L/hr, stroke volumes would remain the same. Please note flow for the P1 series is listed in litres per hour.

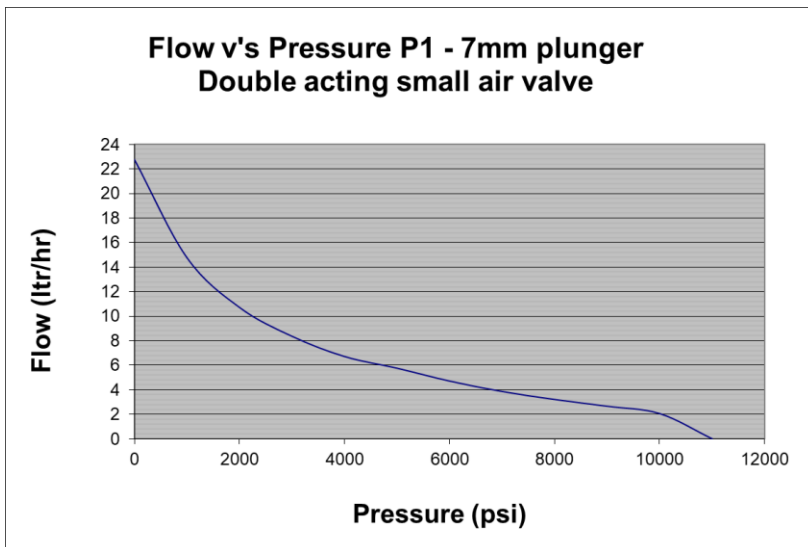
Air input to hydraulic discharge pressure static/stall values.

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

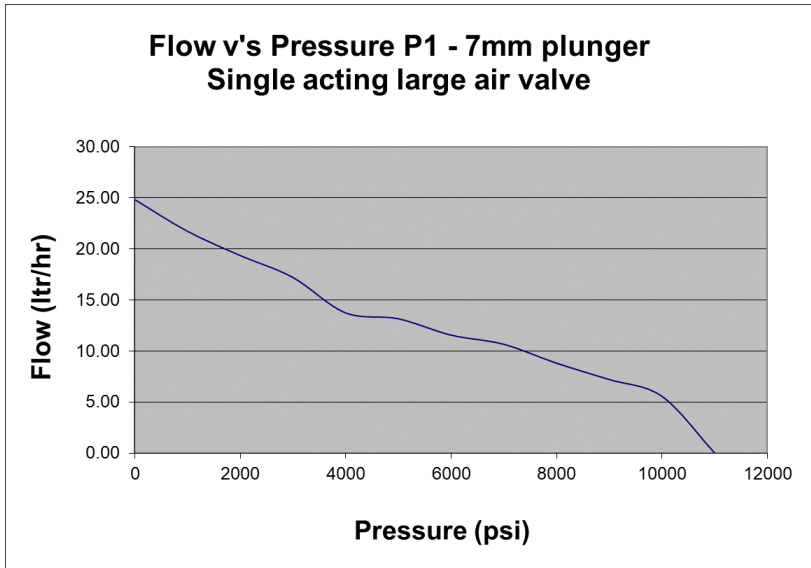
Flow Charts:



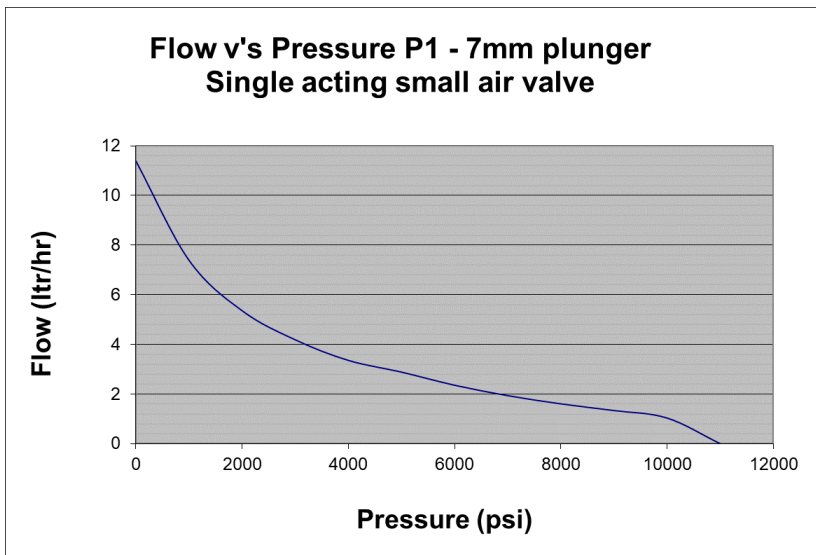
Pressure (psi)	Flow (ltr/hr)
0	49.65
1000	43.45
2000	38.70
3000	34.40
4000	27.45
5000	26.30
6000	23.10
7000	21.30
8000	17.60
9000	14.40
10000	11.10



Pressure (psi)	Flow (ltr/hr)
0	22.75
1000	14.75
2000	10.70
3000	8.35
4000	6.70
5000	5.75
6000	4.70
7000	3.85
8000	3.20
9000	2.65
10000	2.05



Pressure (psi)	Flow (ltr/hr)
0	24.83
1000	21.73
2000	19.35
3000	17.20
4000	13.73
5000	13.15
6000	11.55
7000	10.65
8000	8.80
9000	7.20
10000	5.55



Pressure (psi)	Flow (ltr/hr)
0	11.38
1000	7.38
2000	5.35
3000	4.18
4000	3.35
5000	2.88
6000	2.35
7000	1.93
8000	1.60
9000	1.33
10000	1.03

Pump Dimensions:

