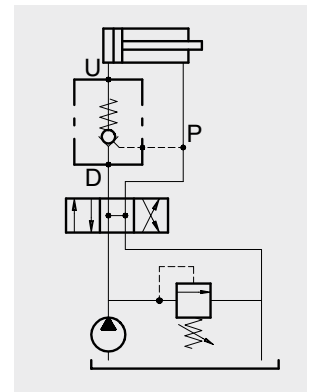


Operation

The valve allows oil flow from D to U and stops it in the opposite way (from U to D). Free oil flow from U to D is strictly possible when the pilot pressure in P is strong enough to open the valve poppet. To assert the minimum opening pressure divide the value of pressure in U by the pilot ratio. To provide best valve performance from U to D make sure that no counterpressure arises in D.



Performance

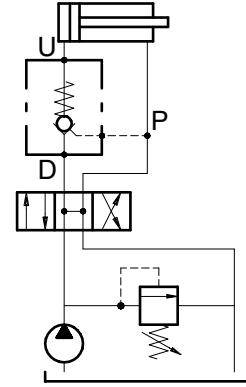
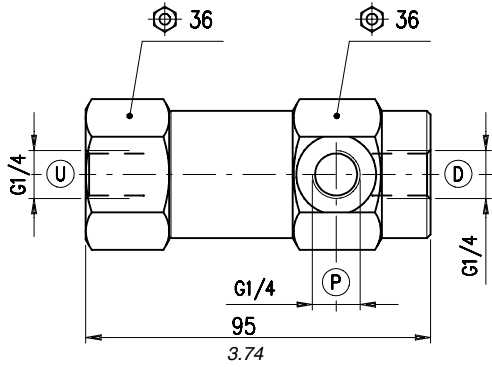
Body Valves

Type VUPSL	Maximum flow		Maximum pressure		Opening pressure from D to U	Oil leaks from U to D	Pilot ratio	Weight		
	l/min	US gpm	bar	psi				kg	lb	
VUPSL 14	20	5.3	400	5800	5 bar -72.5 psi with gasket (standard version) 2.5 bar -36.3 psi without gasket (on request only)	0,25 cm ³ /min -15x10 ⁻³ in ³ /min. (5 drops) at 210 bar -3050 psi	1:3	0,67	1.48	
VUPSL 38	35	9.2						0,95	2.09	
VUPSL 12	50	13	350	5100				1:2,8	1,55	3.42
VUPSL 34	100	26	300	4350				1:3,1	2,57	5.66
VUPSL 100	150	40								

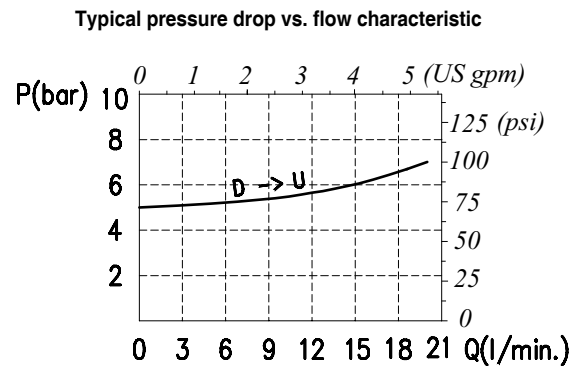
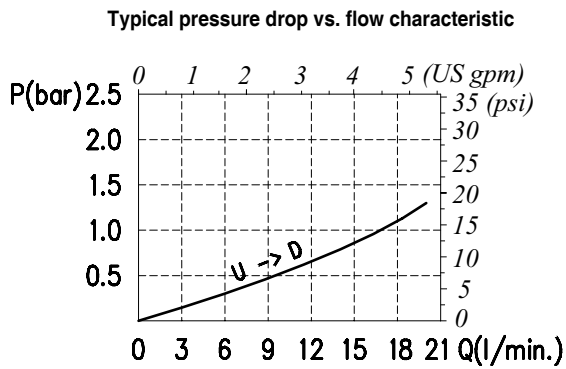
Cartridges

Type BC..A	Maximum flow		Maximum pressure		Opening pressure from 2 to 3	Oil leaks from 3 to 2	Pilot ratio	Weight		Cavities and tools
	l/min	US gpm	bar	psi				kg	lb	
BC08A	15	4	350	5100	5 bars -72.5 psi with gasket (standard version)	0,10 cm ³ /min -61x10 ⁻⁴ in ³ /min. (2 drops) at 210 bar -3050 psi	1:2,5	0,10	0.22	see cavity SAE 8-3 page 105
BC10A	30	8						0,10	0.22	see cavity SAE 10-3 page 105
BC12A	50	13			2.5 bars -36.3 psi without gasket (on request only)	0,25 cm ³ /min -15x10 ⁻³ in ³ /min. (5 drops) at 210 bar -3050 psi	1:3	0,23	0.51	see cavity SAE 12-3 page 105
BC16A	100	26								

Dimensions and hydraulic circuit



Rating diagrams



Order code

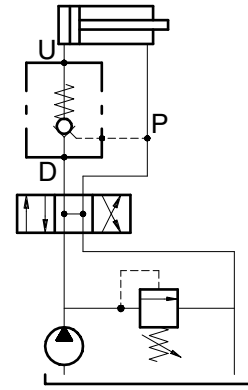
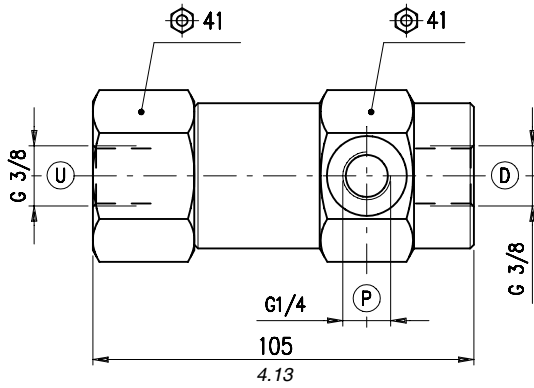
VUPSL 14 / □□



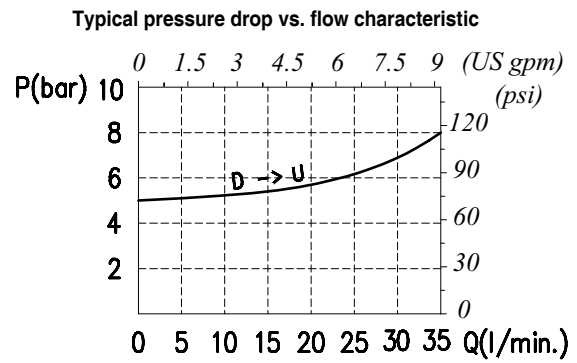
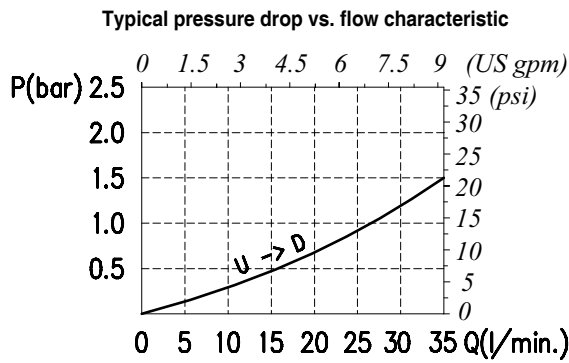
Pilot ratio

P3) 1:3

Dimensions and hydraulic circuit



Rating diagrams



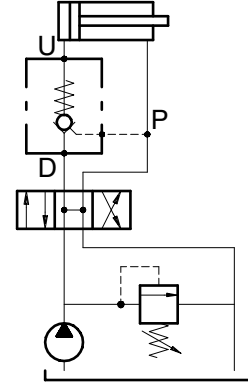
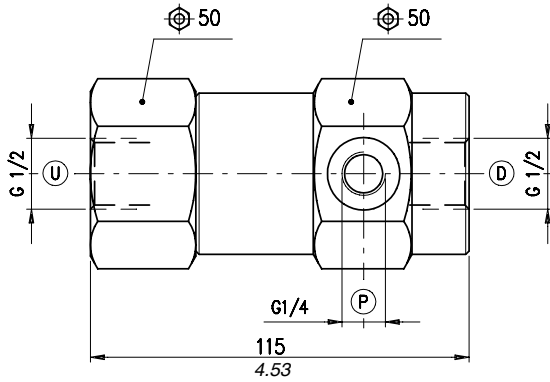
Order code

VUPSL 38 / □□

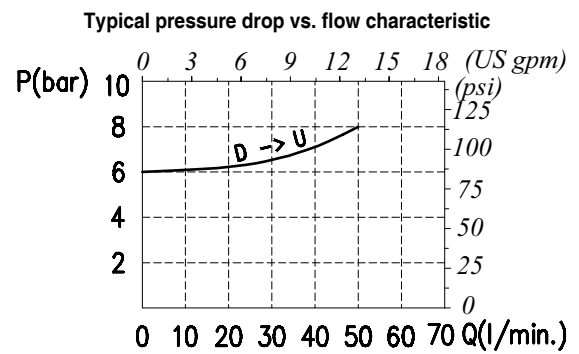
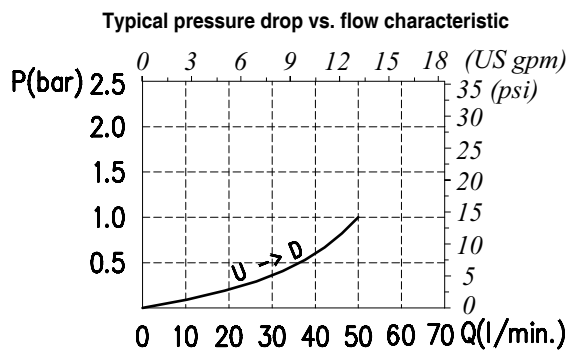
Pilot ratio

p3) 1:3,2

Dimensions and hydraulic circuit

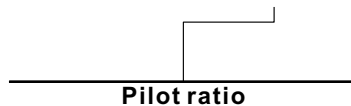


Rating diagrams



Order code

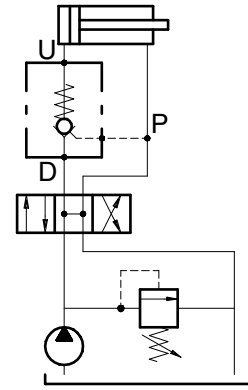
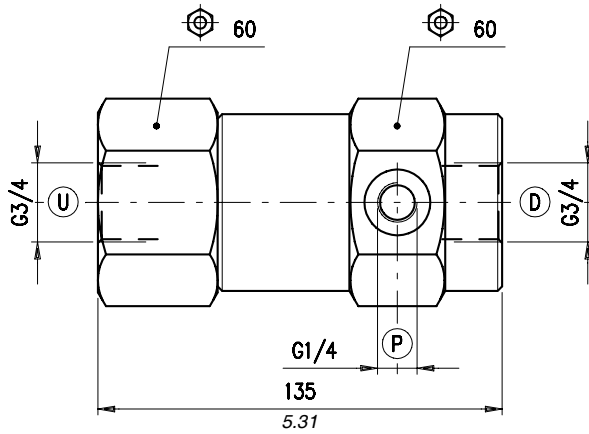
VUPSL 12 / □□



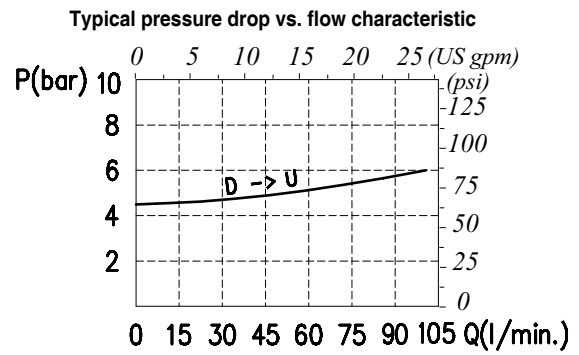
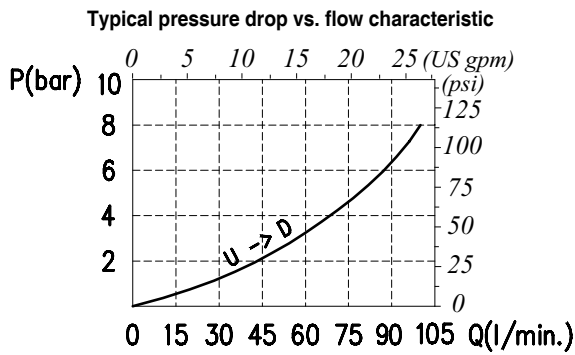
Pilot ratio

p3) 1:2,8

Dimensions and hydraulic circuit

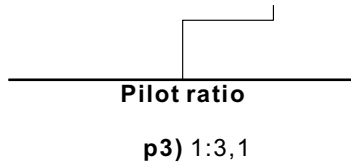


Rating diagrams

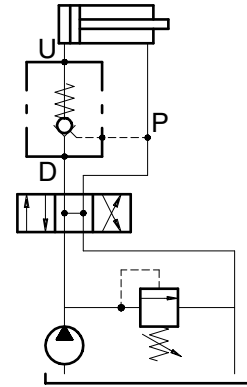
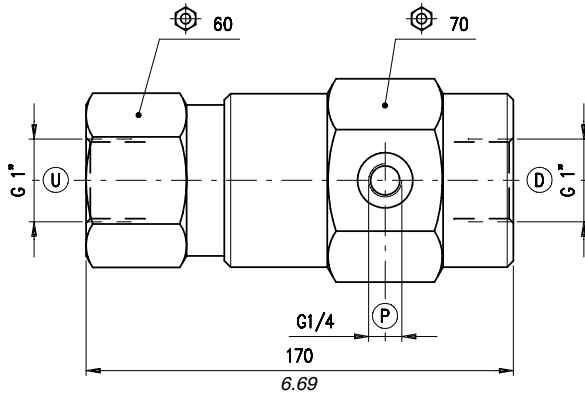


Order code

VUPSL 34 / □□

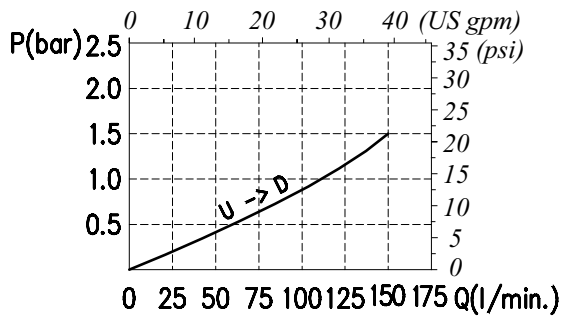


Dimensions and hydraulic circuit

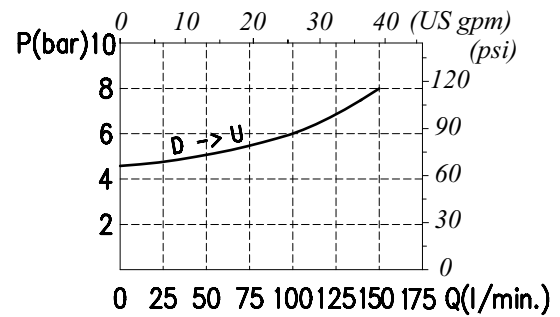


Rating diagrams

Typical pressure drop vs. flow characteristic



Typical pressure drop vs. flow characteristic



Order code

VUPSL 100 / □□

Pilot ratio

p3) 1:3