

# TWO PUMP "HI-LOW" UNLOADING VALVES



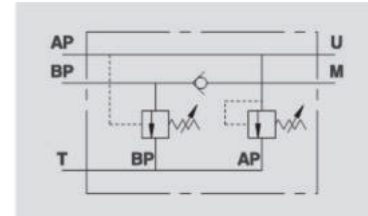
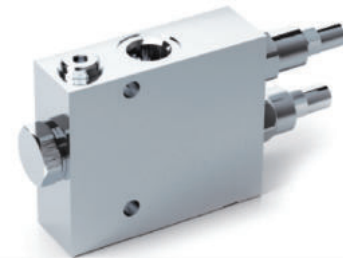
## VABP

**Flow Upto 80 LPM**  
**Pressure 350 Bar**

### Description & Operation

In a circuit which uses two parallel pumps, this valve unloads the larger pump to tank once the pressure setting of BP has been reached. From this point the circuit will only be supplied by the smaller pump at a higher pressure AP, therefore consuming less energy.

Connect BP to the higher flow pump, AP to the lower flow pump, T to the tank, M to the eventual manometer and U as for necessity.



Hydraulic Symbol

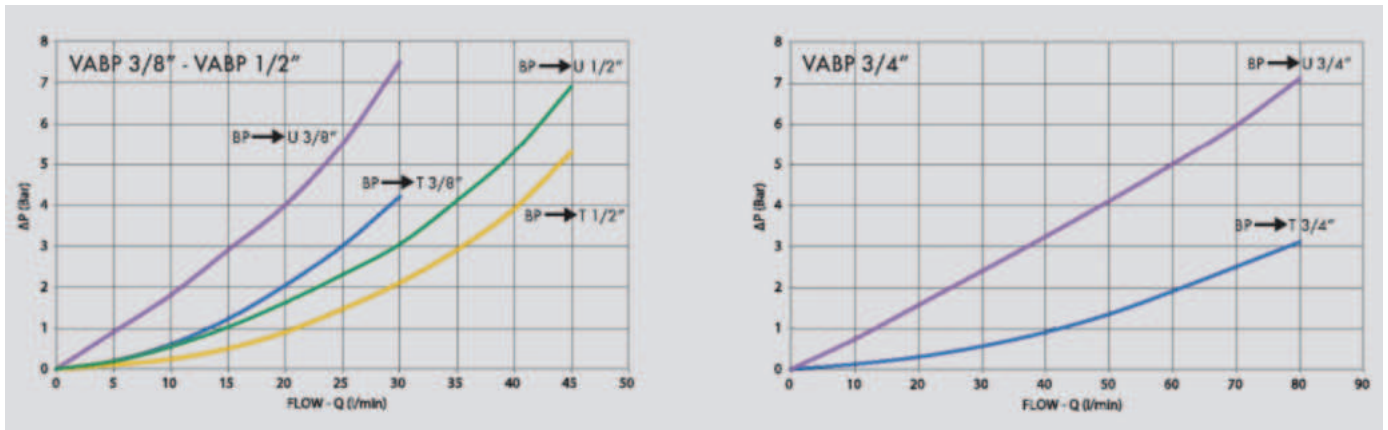
### Technical Data

Maximum Flow	80 LPM
Maximum Pressure	350 Bar
Body Material	Steel
Internal parts	Hardened and Ground steel
External Component treatment	Zn/Fe - standard (96h) / Zn/Ni (720h)
Oil Temperature	50 Deg. C
Fluids	Mineral based or synthetics with lubricating properties
Viscosity	30 cSt
Standard Sealing	NBR-Buna N
Filtration	20/18/15 ISO 4406 ( Max. Filtration admitted)
Orientation / Mounting	Inline
Weight	See Ordering details

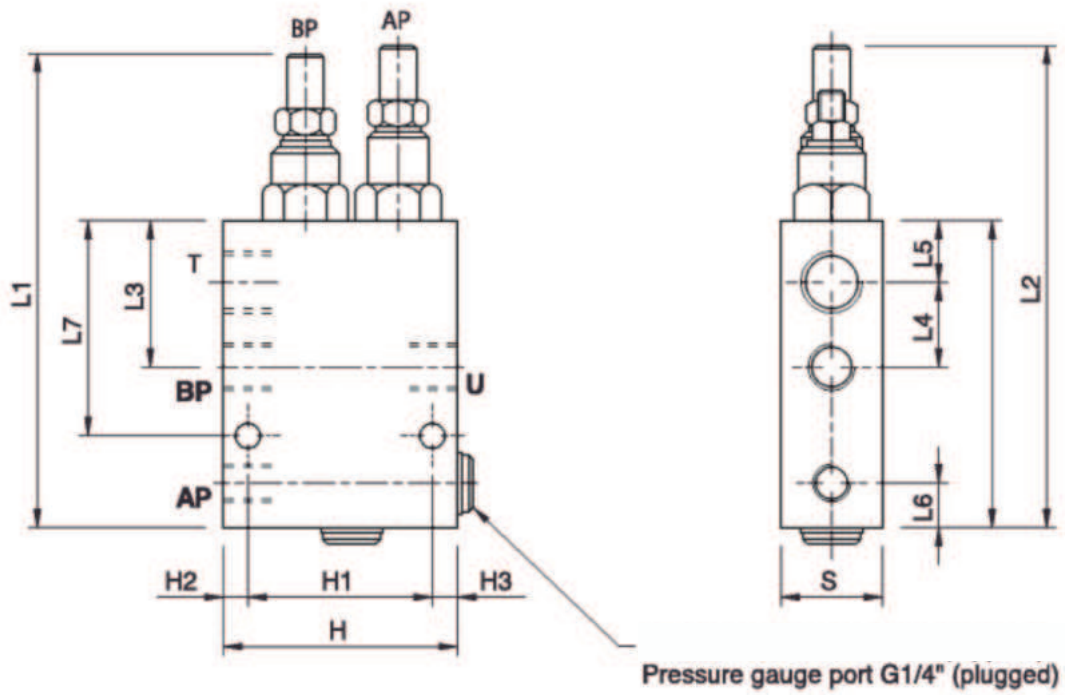
### Specifications

Type	Max.Flow			Max.Pressure	Min.Pressure	Weight
	AP	BP	T			
	LPM	Bar	Bar	Bar	Kg	
VABP 3/8"	20	40	60	350	100	1.748
VABP 1/2"	30	50	80	350	100	2.342
VABP 3/4"	40	80	120	350	100	3.970

**Performance Curve**



**Dimensional Drawing**



**Ordering Details**

Code	Type	AP	BP	U	T	L	L1	L2	L3	L4	L5	L6	L7	H1	H2	H3	H	S
		GAS	GAS	GAS	GAS	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
R-V0512	VABP 3/8"	G 1/4"	G 3/8"	G 3/8"	G 1/2"	100	142	155	50	30	20	13	69	65	8.5	6.5	80	30
R-V0513	VABP 1/2"	G 3/8"	G 1/2"	G 1/2"	G 3/4"	105	147	160	54	36	18	15	73	65	17	8	90	35
R-V0514	VABP 3/4"	G 1/2"	G 3/4"	G 3/4"	G 1"	140	187	212	52.5	42.5	20	20	95	65	27	8	100	40

**Springs Table**

VALVE	BP	AP
	Bar	Bar
VABP 3/8"	20-80	50-350
VABP 1/2"	20-80	50-350
VABP 3/4"	20-80	50-350

HIGH LOW VALVES