



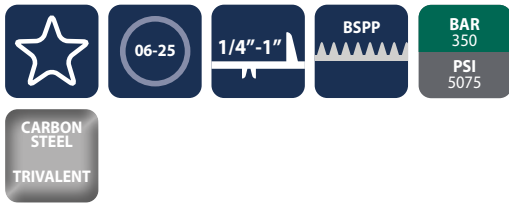
Hose burst valves and cartridges

VPC Series



INTRODUCTION

Holmbury's VPC Series bidirectional hose burst valves allows free flow under normal working conditions. Flow will immediately cease in the event of a catastrophic hose failure. The burst flow can be set by increasing or decreasing the cartridge setting (dimension 'S').



CONSTRUCTION

- Carbon steel with trivalent plating
- Metal to metal sealing

FEATURES

- Can be retrofitted to existing systems
- Male thread designed to be screwed into female threaded port
- Valves need to be manually set to alter the flow at which the valve shuts
- Replacement cartridges are available for the VPC Series
- Bidirectional flow

SPECIFICATIONS

- Operating temperatures : -20°C (-4°F) to 120°C (248°F)

APPLICATIONS

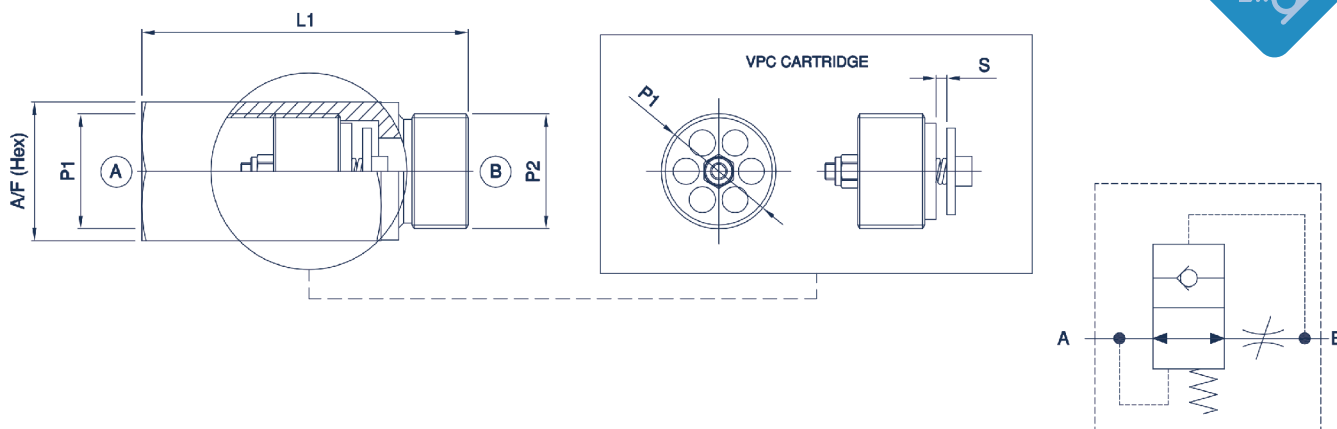
- Construction
- Lifting Equipment
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

VPC PERFORMANCE CHARACTERISTICS

Body Size	VPC06	VPC10	VPC12	VPC19	VPC25
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM				
Maximum working pressure	350 5075	350 5075	350 5075	350 5075	350 5075
Rated Flow	18.5 4.89	35.5 9.38	60 15.85	149 39.36	190 50.19
Maximum flow	30 7.9	45 11.9	65 17.2	170 44.9	225 59.4

Body Size	VPC06	VPC10	VPC12	VPC19	VPC25
Thread	1/4	3/8	1/2	3/4	1
Viscosity	10-200 cSt				
Max Level of Contamination	18 / 16 / 13 (ISO 4406)				
Fluid Temperature	With NBR Seals : -20 Deg C (-4 Deg F) to 80 Deg C (176 Deg F)				
Environmental temperature for conditions	From -40 Deg C (-40 Deg F) to 100 Deg C (212 Deg F)				

IMPORTANT: Replace the valve after each operation. Contact our sales office for different conditions.



VPC SERIES VALVES

Body Size	Part Number	A/F		P1 thread	L1		P2 thread	Factory Setting S	
		mm	inch		mm	inch		mm	inch
06 (1/4)	VPC06-04G-04G	19.0	0.75	1/4 BSPP	50.0	1.97	1/4 BSPP	1.0	0.04
	VPC06-04G-04GM	19.0	0.75	1/4 BSPP	50.0	1.97	1/4 BSPP Male	1.0	0.04
10 (3/8)	VPC10-06G-06G	22.0	0.87	3/8 BSPP	58.0	2.28	3/8 BSPP	1.5	0.06
	VPC10-06G-06GM	22.0	0.87	3/8 BSPP	60.0	2.36	3/8 BSPP Male	1.5	0.06
12 (1/2)	VPC12-08G-08G	27.0	1.06	1/2 BSPP	60.0	2.36	1/2 BSPP	1.9	0.08
	VPC12-08G-08GM	27.0	1.06	1/2 BSPP	63.0	2.48	1/2 BSPP Male	1.9	0.08
19 (3/4)	VPC19-12G-12G	32.0	1.26	3/4 BSPP	76.0	2.99	3/4 BSPP	2.2	0.09
	VPC19-12G-12GM	32.0	1.26	3/4 BSPP	75.0	2.95	3/4 BSPP Male	2.2	0.09
25 (1)	VPC25-16G-16G	41.0	1.61	1 BSPP	85.0	3.35	1 BSPP	2.6	0.10
	VPC25-16G-16GM	41.0	1.61	1 BSPP	88.0	3.46	1 BSPP Male	2.6	0.10

For all other configurations or thread types please contact the sales office.

To set distance S : Example.

VPC12 - Body Size 12 - 1/2 BSPP

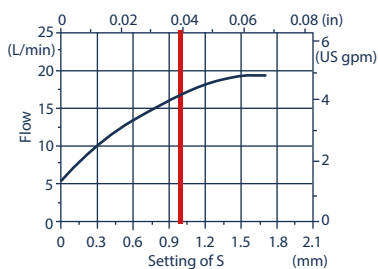
Target closure flow rate: 30 l/min

Adjust for spikes in flow during normal use
(Multiply target closure flow rate by 1.5) : 45 l/min

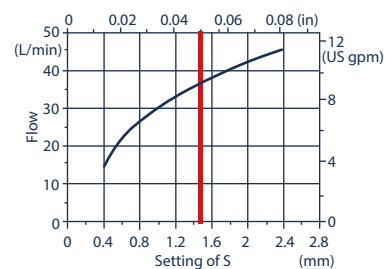
Locate adjusted target closure flow rate on relevant graph (Y Axis) and read off S distance
(X Axis) : 1.25 mm

Set distance S at 1.25 mm

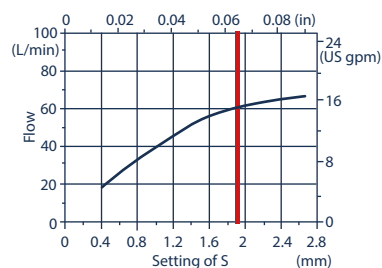
Body Size 06 (1/4 BSPP)



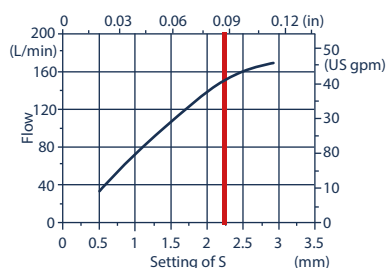
Body Size 10 (3/8 BSPP)



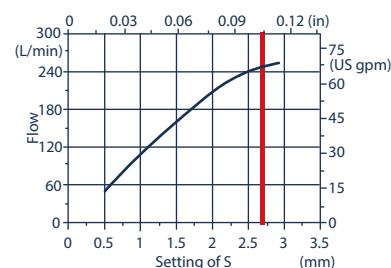
Body Size 12 (1/2 BSPP)



Body Size 19 (3/4 BSPP)



Body Size 25 (1 BSPP)



Technical specification and diagrams are measured with ISO VG32 Oil at 40 Deg C (104 Deg F).
The red vertical lines on the graphs denote the factory setting.

