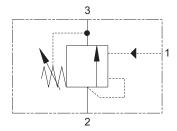
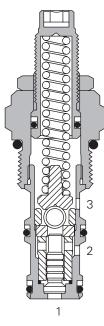
## PUV3-10 - Pilot Unloading Valve

Poppet, internal or external pilot operated, normally closed, unloading 4 L/min (1 USgpm) • 210 bar (3000 psi)



#### Sectional View



### Description

The PUV3 is a two-way, normally closed, externally or internally pilot operated screw-in cartridge type pilot unloading valve.

## Operation

This valve blocks flow from port 2 to port 3, until either the predetermined spring setting has been reached, or an external pilot has been applied to port 1. At this time flow is then allowed from port 2 to port 3. The valve will reseat at a percentage of the unloading setting as called out in the model code. This valve can be used alone for low flow applications or used as the pilot stage of a two-stage unloader valve (see application example). The main stage of the unloader is typically a DPS2 logic element.

#### Features

Hardened poppet and seat. Very low leakage when piloted closed without exerting excessive force on the seat.

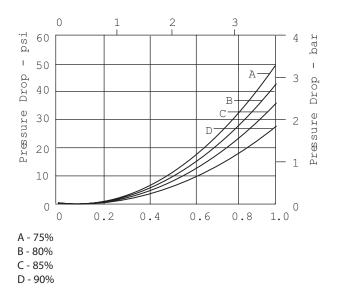
Performance Data
Batings and Specifications

Ratings and Specifications	
Performance data is typical with fluid at 21,8 cSt (105 SUS) an	d 49° C (120° F)
Typical application pressure (all ports)	210 bar (3000 psi)
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi
Rated flow	4 L/min (1 USgpm)
Unloading pressure adjustment range	20-210 bar (300-3000 psi)
Cavity	C-10-3
Standard housing materials	Aluminum
Temperature range	-40° to 120°C (-40° to 248°F)
Fluids	All general purpose hydraulic fluids such as MIL–H–5606, SAE 10, SAE 20, etc
Filtration	Cleanliness Code 18/16/13
Weight cartridge only	0,15 kg (0.33 lbs
Seal kits	565812 Buna–N 889611 Viton

Viton is a registered trademark of E.I. DuPont

## Pressure Drop Curves

Cartridge only Piloted full open



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.



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# PUV3-10 - Pilot Unloading Valve

Poppet, internal or external pilot operated, normally closed, unloading 4 L/min (1 USgpm) • 210 bar (3000 psi)

		(V) – * – 	** _ **_ **/**  5 6 7 8		
1 Function PUV3 - Pilot unloading valve	5 Port Size 0 - Cartridge only	8 Unloading Pressure Setting Within ranges in 2 Blank - Normal factory setting at approximate mid-range. User requested settings in			
2 Size 10 - 10 size	Code Port Size Housing Number Aluminum Aluminum Light duty Fatigue rated				
3 Seal Blank - Buna-N V - Viton <sup>°</sup>	6T SAE 6   3B 3/8" BSPP   6H SAE 6   8H SAE 8		6704 6711	3,45 bar (50 psi) steps, Coded as in the following examples: 10 - 70 bar (1000 psi) 9.5 - 65 bar (950 psi)	
4 Adjustment C - Cap S - Screw	2G1/4" BSPP3G3/8" BSPPSee section J for housing.6Loading (closing)	- 87	r6705	9 Special features 00 - None (Only required if valve has special features, omitted if "00.")	
	pressure, as percentage of unloading pressure75 - 75% 80 - 80% 85 - 85% 90 - 90%	Note:	re Range		
Dimensions mm (inch)	Torque cartridge in aluming housing to 47-54 Nm (35-4 ft. lbs).				
Cartridge Only	Installation Drawing				
46,0 (1.8)1	"C"Adjustment	39,0 (1.53)	"S"Adjustme	nt	
	-25,4 (1.0)x he		Maximum Torque to 1 (10 lbtf) f	,3	
	- 0.875 <b>-</b> 14Thd.				
46,0 (1.8)1 0 0 2					
	Ø 15,82 (0.623)				
	Ø 17A2 (0.686)	ents are critical request cortifi	ed drawings. We receive the	ight to change specifications without notice.	



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