

# HPVS SERIES

*HYDRAULIC PILOT CONTROLS*



## HYDRAULIC PILOT CONTROL

HPV Pilot Control Valves are part of the comprehensive range of David Brown Hydraulics product.

The product, with its single lever dual axis control, and supported by an extensive range of control curve characteristics and handle options, makes it suitable for a wide range of both mobile and industrial applications.

Our engineers can offer specialist support to optimise this product to suit your application.

The product is supported by a comprehensive Sales and Service facility around the world.

## BENEFITS

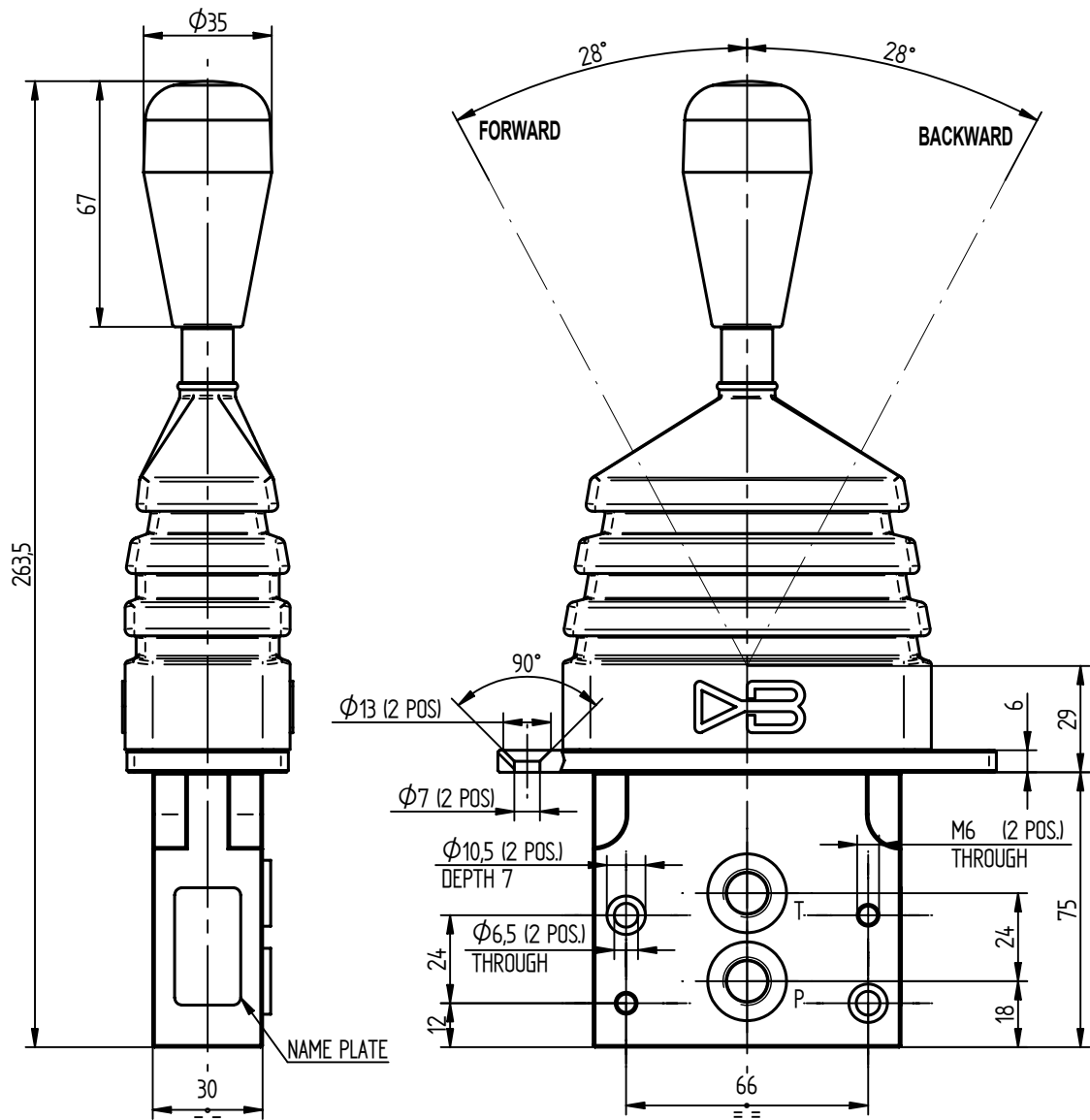
- Compact and light weight
- Suitable for arm rest of console mounting
- Compatible with a wide range of product
- Stylish good looks suitable for modern cabs
- Operator is insulated from high temperature components
- Proven, simple pressure reducing elements
- Wide range of low hysteresis, high accuracy, pressure control curves
- Wide range of electrical options in both standard and multi-functional ergonomic handles
- Low effort lever control

David Brown Hydraulics reserve the right to update the information and data contained in this catalogue at any time.

## HPVS SERIES MODEL CODING

### HPVS XX X XX F X X XX

Micro Switch options	
<b>M1</b>	= 1 switch senses out of center position
<b>M2</b>	= 2 switches sense movement away from neutral each way
<b>M3</b>	= 1 switch senses forward movement away from neutral
<b>M4</b>	= 1 switch senses backward movement away from neutral
Port Size & Type	
<input type="checkbox"/>	= Omit for 1/4" BSP
<b>S</b>	= 7/16"-20 UNF SAE #4
Return Spring	
<b>0</b>	= 1.4 to 2.8 daN (Standard)
<b>1</b>	= 3.0 to 4.5 daN
<b>F</b>	= Standard Control Plunger
Metering curve	
see <i>PCV Characteristics</i> catalogue	
Handle type	
see <i>Handles</i> catalogue	
<b>W</b>	= Without Handle
Basic Model Number - includes 2 service ports	
<b>01</b>	= lever spring returned to neutral
<b>02</b>	= lever detented in any position
<b>03</b>	= lever detented in any position with neutral sensor
<b>04</b>	= lever detented at both stroke ends
<b>05</b>	= lever detented in neutral position
<b>06</b>	= lever detented in neutral and friction hold in any position
<b>07</b>	= lever detented to U1 and spring return to neutral from U2
<b>08</b>	= lever detented to U2 and spring return to neutral from U1
<b>HPVS</b>	= sectional hydraulic compact pilot valve series S

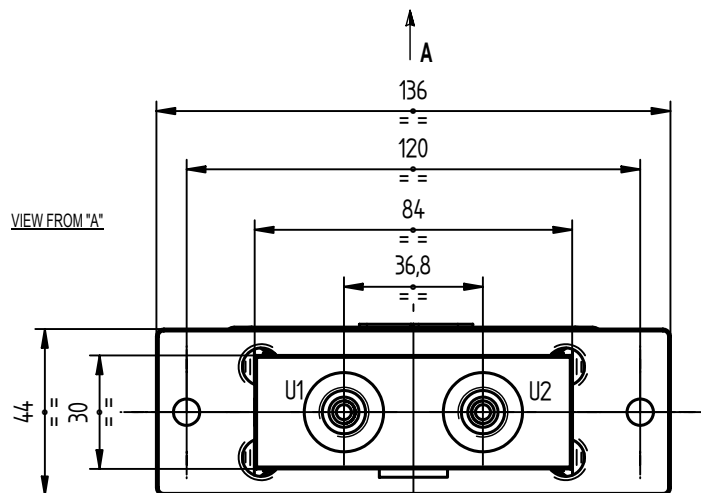


**PORT OPTIONS**

P, T, U1, U2, U3, U4:  
 1/4" BSP OR 7/16"-20 UNF SAE #4

**TECHNICAL SPECIFICATIONS**

Maximum Inlet Pressure at Port P: 50 bar  
 Maximum Back Pressure at Port T: 3 bar  
 Inlet Flow Range: 5 to 20 litre/min  
 Maximum Hysteresis Band: +/- 0.5 bar  
 Fluid: Hydraulic Mineral Oil ISO HM E HV  
 Contamination Class: 21/16/13 - ISO 4406/1999  
 Fluid Temperature Range: -20 to +80 °C



**Global Hydraulics** combines the businesses of David Brown Hydraulics, Hydreco, and Powauto and supports worldwide customers with application expertise and famously reliable products.

The Global Hydraulics range includes pumps, motors, valves, pilot valves and power take offs to provide transport and mobile hydraulic solutions to customers seeking reliability combined with advanced performance. For assistance see contact information below.



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