

SUH SERIES

PILOT SUPPLY UNITS



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The SUH is a direct acting pressure reducing valve which can be connected to either one or two main circuits via ports P1 and P2. Both ports feed through a shuttle valve to prevent circuit interaction. Reduced pressure is supplied to port P1 and P2.

A pre-set relief valve is fitted to prevent over pressure, and the unit is supplied with an accumulator connection for emergency power supply. An solenoid attachment is available to act as a safety system and to maintain the accumulator charge for a longer period by preventing leakage downstream from the 'U' ports. Also a version is available with integral filter to protect the output line and hence downstream components.

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

BENEFITS

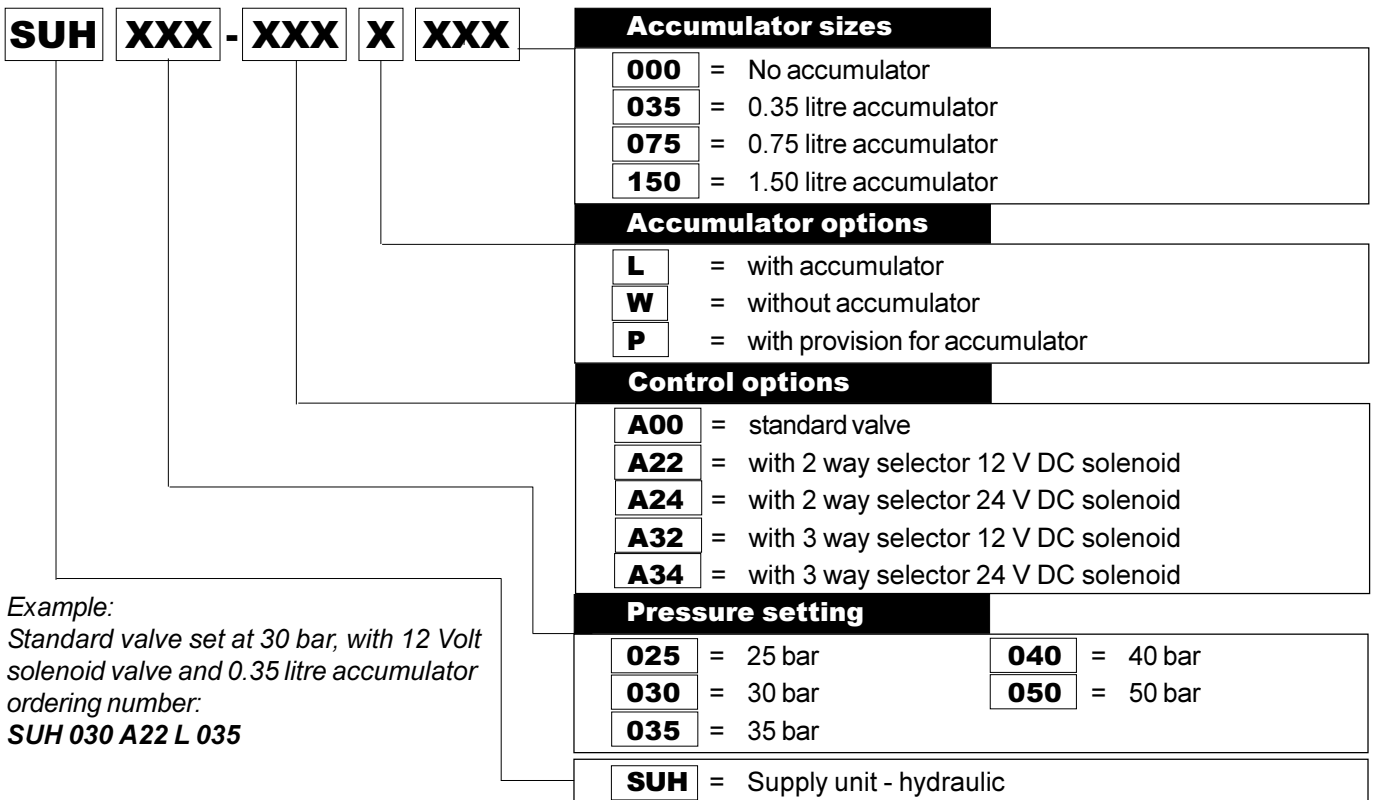
- Compact unit
- Optional accumulator for peak and emergency power
- Optional 2 way & 3 way, 12 or 24 V DC solenoid valves for safety and extended accumulator storage time
- Dual ports for maximum installation flexibility

TECHNICAL FEATURES

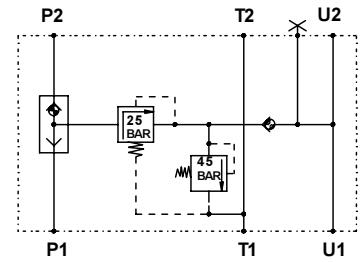
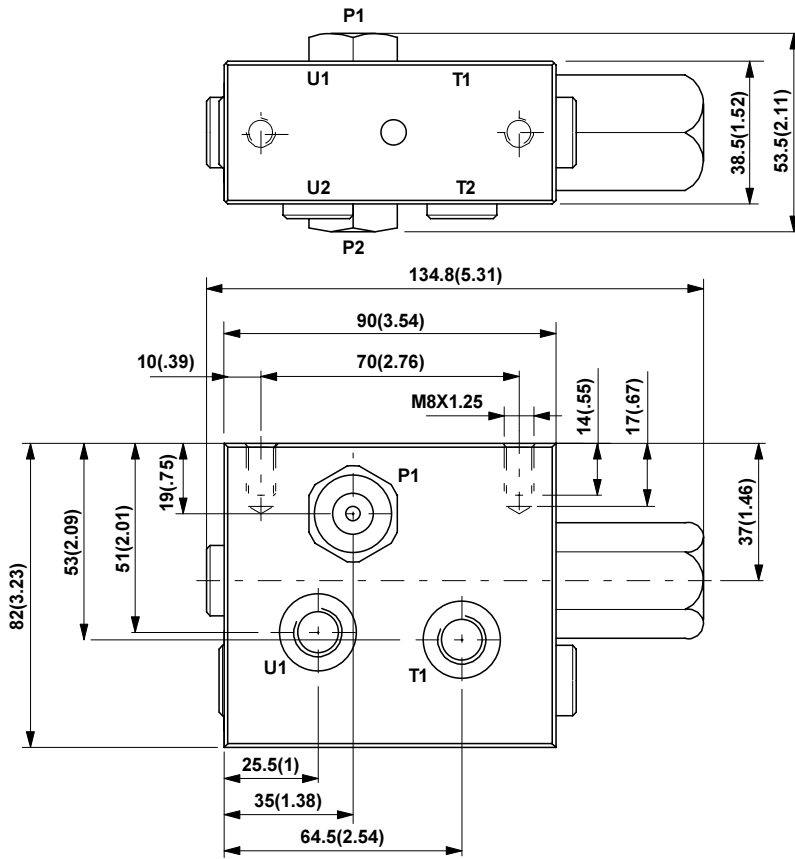
Input pressure P	: Min 8 bar, Max 350 bar
Output pressure s (nominal)	: 30 bar
Max pressure on drain port T	: 3 bar
Relief valve setting (nominal)	: 45 bar
Max accumulator pressure	: 210 bar (Nitrogen pre-charge 13 bar)
Flow capacity at ports S	: 5 l/min without accumulator : up to 40 l/min with accumulator
Hydraulic fluids	: ISO HM & HV bio-degradeable fluids
Fluid temperature range	: -20 to +80°C
Fluid viscosity	: 2.8 to 380 mm²/sec
Maximum filter rating	: 25µm (absolute)

Description	Weight (kg)
BASIC SUH VALVE	2.36
0.35 LITRE ACCUMULATOR	3.00
0.75 LITRE ACCUMULATOR	4.00
1.50 LITRE ACCUMULATOR	6.20
2 WAY SELECTOR	0.50
3 WAY SELECTOR	0.70

SUH SERIES MODEL CODING

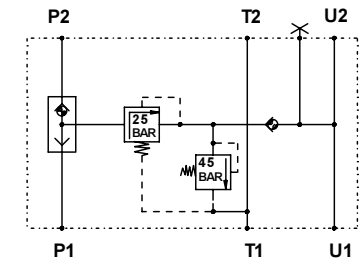
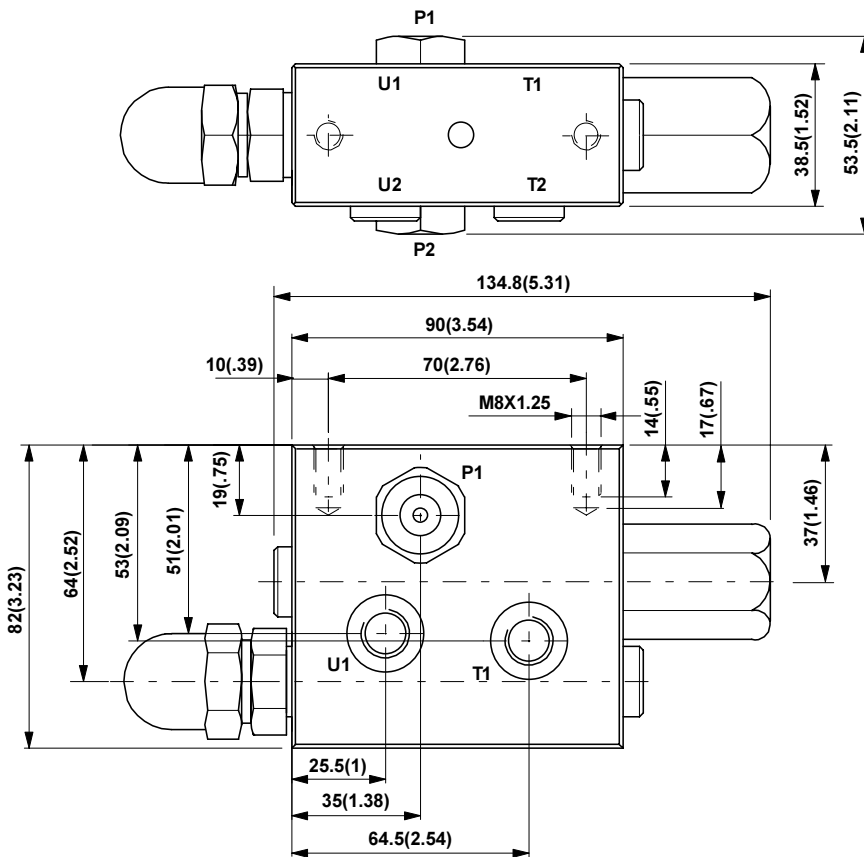


SUH-xxx-A00-W-000 standard valve with no accumulator and no provision for an accumulator



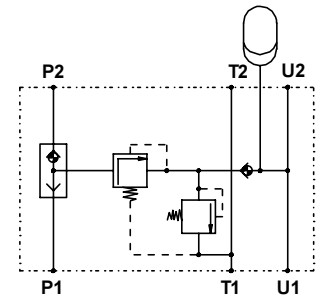
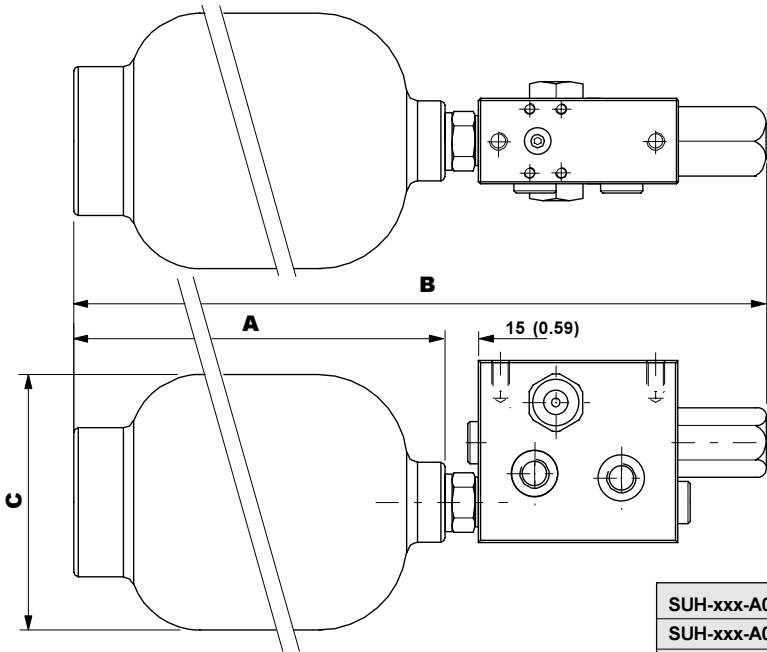
CIRCUIT DIAGRAM

SUH-xxx-A00-P-000 standard valve with no accumulator and with provision for an accumulator



CIRCUIT DIAGRAM

SUH-xxx-A00-L-xxx standard valve with accumulator / with no solenoid



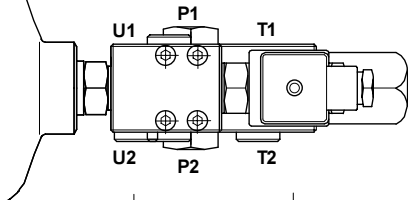
TYPICAL CIRCUIT DIAGRAM

STANDARD VALVE
For dimensions see page 3

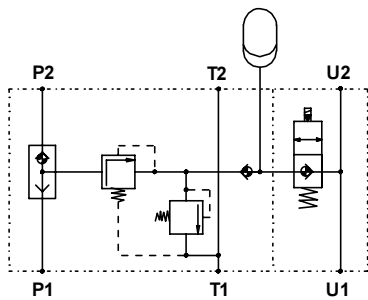
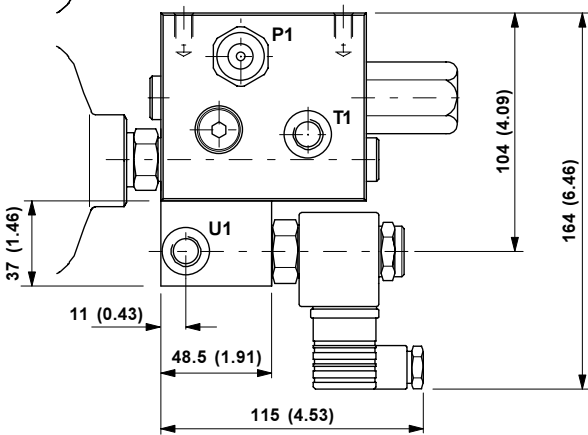
	Accumulator Capacity	A Accumulator Length	B Overall Unit Length	C Maximum Diameter
SUH-xxx-A00-L-035	0.35 litres	162 (6.38)	302 (11.89)	99 (3.90)
SUH-xxx-A00-L-075	0.75 litres	200 (7.87)	340 (13.39)	115 (4.53)
SUH-xxx-A00-L-150	1.50 litres	295 (11.61)	435 (17.13)	115 (4.53)

SUH-xxx-A22-L-xxx
valve with accumulator and 12V DC 2-way solenoid

For dimensions including accumulators see above



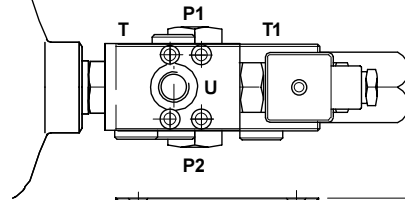
STANDARD VALVE
For dimensions see page 3



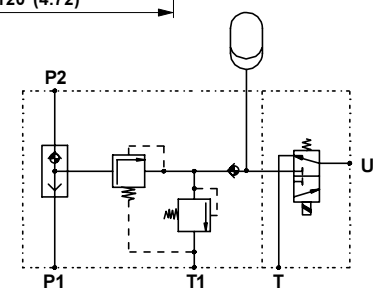
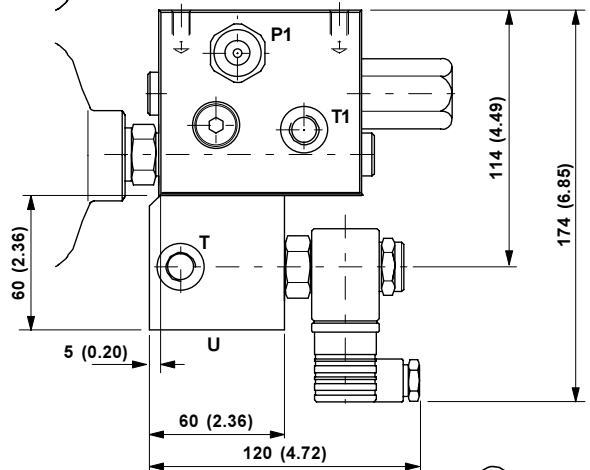
CIRCUIT DIAGRAM

SUH-xxx-A34-L-xxx
valve with accumulator and 24V DC 3-way solenoid

For dimensions including accumulators see above



STANDARD VALVE
For dimensions see page 3



CIRCUIT DIAGRAM

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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