



**HYSTAT**  
Piston Accumulators

Hydraulic Manufacturing Excellence since 1976



OIL SOLUTIONS

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"For All Your Hydraulic Needs"

# Stainless Steel 316 Piston Accumulators

Manufactured from stock for quick delivery!

# One of the UK's leading Manufacturers of piston accumulators with an excellent reputation for unsurpassed product quality, reliability and customer support.

Throughout the years our piston accumulators have gained global recognition with Hystat and representatives operating worldwide. As a continuation of our growth and success, we also offer a standard range of [Hystat Stainless Steel 316 Piston Accumulators](#).



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## PAS 100 SERIES

BARREL BORE: Ø100mm  
VOLUME RANGE: 0,5 to 15 litres  
MAX. WORKING PRESSURE: 250 bar  
TEST PRESSURE: 358 bar

## PAS 180 SERIES

BARREL BORE: Ø180mm  
VOLUME RANGE: 5 to 40 litres  
MAX. WORKING PRESSURE: 242 bar  
TEST PRESSURE: 346 bar

## PAS 195 SERIES

BARREL BORE: Ø195mm  
VOLUME RANGE: 10 to 100 litres  
MAX. WORKING PRESSURE: 250 bar  
TEST PRESSURE: 358 bar

- CE Approved to PED 2014/68/EU
- Designed in accordance with PD5500 and EN14359
- Optional design codes available (ASME VIII Div.I, AS1210, NR-13)
- Optional 3rd party review available: Lloyds, DNV·GL, ABS, BV, ASME U stamp
- Full material traceability to BSEN10204 type 3.1 (Optional 3.2)
- Standard design temperature -10°C to +50°C (Optional -40°C)
- Standard sealing materials (Nitrile and Polytetrafluoroethylene)

[Hystat Stainless Steel 316 Piston Accumulators](#) are designed to provide the maximum resistance towards corrosion, typically for use where water or aggressive fluids are common place, such as offshore, marine and subsea environments.

Our piston position indicator is an additional feature within the accumulator which can indicate the position of the piston at any point. When combined with any optional extra including visual flapper indicator, transmitter, linear transducer or "stayput" reed switch ensure perfect accumulator operation.

## BESPOKE DESIGNS

In addition to our standard range, our dedicated sales and design engineers can tailor any configuration of accumulator that you require.

DESIGN PRESSURES:

5 bar to 3,500 bar

VOLUMES:

0.1 litres to over 1,500 litres

OPERATING TEMPERATURES:

-40°C to +200°C

PORTING:

BSP, NPT, SAE, Autoclave & alternatives

SEALS MATERIALS:

Nitrile (NBR), Polytetrafluoroethylene (PTFE), Viton (FPM), Polyurethane (PUR), Perfluoroelastomer (FFKM)

### Typical applications include;

#### PULSATION DAMPENING AND SHOCK ABSORPTION.

With correct placement within a hydraulic system, Hystat piston accumulators can absorb and cushion shocks and surges, reducing or eliminating the damaging effects of high pressure pumps or quick opening/closing valves which are the main reasons for fluid leakage in oil tubings.

#### ENERGY STORAGE/ STAND-BY POWER.

Hystat piston accumulators store energy in hydraulic systems where work cycles are intermittent. This stored energy can supplement system flow during peak demand periods and amplify the accumulators capacity. Its simplicity and reliability make it an ideal emergency energy device whenever the system has pump or electric power failure.

#### PRESSURE VOLUME COMPENSATION/EXPANSION.

Liquids can be stored under constant and precise controlled pressure within the accumulator. And compensate for internal and external leakage in a hydraulic system. Hystat piston accumulators can also absorb volume changes originating from thermal effects in a closed system.

# Standard Stock Range



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PAS – (VOLUME) – (PRESSURE) – (BORE)

TYPE DESIGNATION	VOLUME (litres)	LENGTH (mm)	BORE (mm)	O/DIA (mm)	M.W.P. (bar)	WEIGHT (kg)
PAS - 0,5 - 250 - 100	0,5	207	100	125	250	13.8
PAS - 001 - 250 - 100	1	270	100	125	250	15.9
PAS - 002 - 250 - 100	2	397	100	125	250	20.3
PAS - 003 - 250 - 100	3	524	100	125	250	24.8
PAS - 004 - 250 - 100	4	651	100	125	250	29.2
PAS - 005 - 250 - 100	5	778	100	125	250	33.6
PAS - 006 - 250 - 100	6	905	100	125	250	38.0
PAS - 007 - 250 - 100	7	1037	100	125	250	42.4
PAS - 008 - 250 - 100	8	1159	100	125	250	46.8
PAS - 010 - 250 - 100	10	1413	100	125	250	55.6
PAS - 012 - 250 - 100	12	1667	100	125	250	64.4
PAS - 015 - 250 - 100	15	2048	100	125	250	77.6

PAS - 005 - 242 - 180	5	430	180	212	242	68.0
PAS - 010 - 242 - 180	10	627	180	212	242	83.0
PAS - 015 - 242 - 180	15	823	180	212	242	98.2
PAS - 020 - 242 - 180	20	1019	180	212	242	113.3
PAS - 025 - 242 - 180	25	1215	180	212	242	128.5
PAS - 030 - 242 - 180	30	1411	180	212	242	143.6
PAS - 035 - 242 - 180	35	1607	180	212	242	158.8
PAS - 040 - 242 - 180	40	1803	180	212	242	174.0

PAS - 010 - 250 - 195	10	608	195	236	250	112.6
PAS - 015 - 250 - 195	15	776	195	236	250	130.9
PAS - 020 - 250 - 195	20	943	195	236	250	149.0
PAS - 025 - 250 - 195	25	1111	195	236	250	167.4
PAS - 030 - 250 - 195	30	1278	195	236	250	185.6
PAS - 035 - 250 - 195	35	1446	195	236	250	204.0
PAS - 040 - 250 - 195	40	1613	195	236	250	222.1
PAS - 045 - 250 - 195	45	1780	195	236	250	240.3
PAS - 050 - 250 - 195	50	1948	195	236	250	258.6
PAS - 055 - 250 - 195	55	2115	195	236	250	276.8
PAS - 060 - 250 - 195	60	2283	195	236	250	295.1
PAS - 065 - 250 - 195	65	2450	195	236	250	313.3
PAS - 070 - 250 - 195	70	2618	195	236	250	331.6
PAS - 075 - 250 - 195	75	2785	195	236	250	349.8
PAS - 080 - 250 - 195	80	2952	195	236	250	368.0
PAS - 085 - 250 - 195	85	3120	195	236	250	386.3
PAS - 090 - 250 - 195	90	3287	195	236	250	404.5
PAS - 095 - 250 - 195	95	3455	195	236	250	422.7
PAS - 100 - 250 - 195	100	3622	195	236	250	440.9

Require an accumulator not listed?  
No problem, just contact sales!

[www.hystat.co.uk](http://www.hystat.co.uk)



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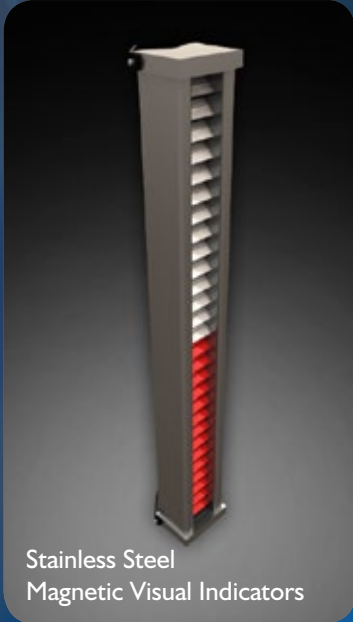
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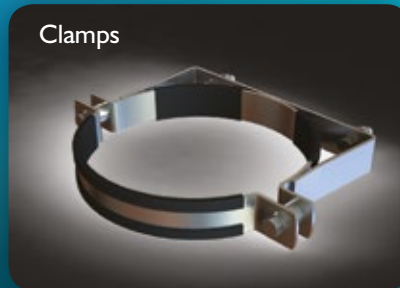
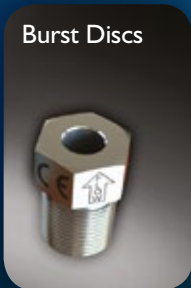


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PISTON POSITIONAL INDICATORS INCLUDE:



OPTIONAL EXTRAS INCLUDE:



**Hystat Systems Ltd.**

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