



# PISTON ACCUMULATORS

## General

Piston accumulators are an ideal solution for applications that require wide range of fluid volumes typically in energy storage, thermal expansion and auxiliary power applications. Due to their durable design and various material options, they are suitable for numerous mobile, industrial and oil & gas application.

## Benefits

- Suitable for high compression ratios
- High flow rates
- Flexible mounting options
- Wide temperature range
- Negligible gas permeation
- Loss of gas is gradual due to seal wear
- Can be customized easily
- Durable construction
- Low maintenance.
- Failure is gradual in most cases
- Piston location monitoring option available

## Design Features

- Cylinder – Durable steel meeting PED guidelines. Honed inside surface to extend seal life. Various material options available
- End Caps – Threaded end caps offer service friendly repair and seal replacement
- Piston – Light weight aluminum as standard with steel & Stainless steel options
- Seals – Low friction high speed Nitrile seals as standard. Available in PTFE or FKM options
- Fluid Port – SAE Female thread option as standard. Other options available.
- Gas Valve - Schrader type gas valve connection
- Gas Valve Guard – Steel guard protect the valve from accidental damage
- Protection – Durable 2 part external paint
- Certification – Certified to European PED 2014/68/EU with CE marking.

## Applications

- Oil & Gas
- Agriculture Machinery
- Forestry Machinery
- Mobile & Construction Machinery
- Automotive – Breaking & Suspension
- Machine Tools
- Railroad

## Applications

Piston accumulators can be mounted in any position but recommended method is vertical with fluid port at the bottom for optimum performance and seal durability. We recommend mounting brackets for secured installation. Do not weld anything on the accumulator.

## Special Pistons

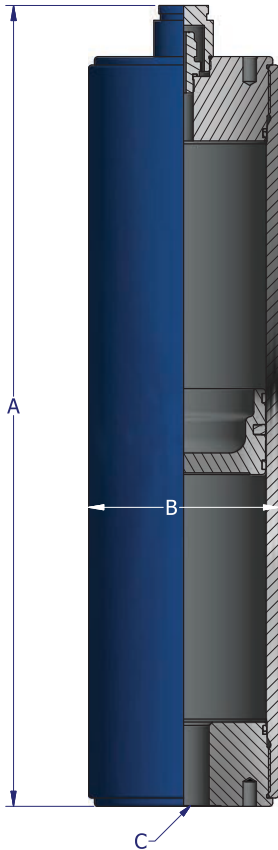
- Capacity range from 1 Pint (0.5 L) up to 265 Gal (1000 L)
- Pressure range between 70 psi (5 bar) to 43,700 psi (3000 bar)
- Material option is Carbon, stainless, duplex and super duplex steel grades
- Piston indicator and electrical limit switch options
- ASME, ABS, DNV-GL and other options available



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3650 PSI Series



## Piston Accumulator 3,650 psi (250 Bar)

Model Code	Size		Dimensions In. (mm)			Port Thread [E]	Weight
	Gal.	Liters	Bore	OD	Length	SAE	Lbs (Kg)
PS001-250-115-SJBN-OAF	0.25	1	4	4.52	11.6	1-5/16"-12UN	29
			(100)	(115)	(294)	SAE # 16	(13)
PS002-250-115-SJBN-OAF	0.5	2	4	4.52	16.6	1-5/16"-12UN	35
			(100)	(115)	(421)	SAE # 16	(16)
PS004-250-115-SJBN-OAF	1	4	4	4.52	26.6	1-5/16"-12UN	46
			(100)	(115)	(675)	SAE # 16	(21)
PS006-250-115-SJBN-OAF	1.5	6	4	4.52	36.6	1-5/16"-12UN	57
			(100)	(115)	(929)	SAE # 16	(26)
PS004-250-160-SKBN-OAF	1	4	5.5	6.3	18.9	1-5/8"-12UN	75
			(140)	(160)	(480)	SAE # 20	(34)
PS006-250-160-SKBN-OAF	1.5	6	5.5	6.3	24	1-5/8"-12UN	86
			(140)	(160)	(610)	SAE # 20	(39)
PS008-250-160-SKBN-OAF	2	8	5.5	6.3	29.1	1-5/8"-12UN	95
			(140)	(160)	740	SAE # 20	(43)
PS010-250-160-SKBN-OAF	2.5	10	5.5	6.3	34.25	1-5/8"-12UN	106
			(140)	(160)	(870)	SAE # 20	(48)
PS020-250-160-SKBN-OAF	5	20	5.5	6.3	59.9	1-5/8"-12UN	156
			(140)	(160)	(1520)	SAE # 20	(71)
PS030-250-160-SKBN-OAF	8	30	5.5	6.3	85.5	1-5/8"-12UN	209
			(140)	(160)	(2170)	SAE # 20	(95)

**Please consult factory for other available sizes and customization**



Design Approval	CE Approved as per PED 97/23/EG
Design Temperature	-4 Deg F (-20 Deg C) to + 176 Deg F (80 Deg C)
Material	High strength Carbon Steel. Stainless Steel option available
Piston	Aluminum piston for quick response
Gas Valve	Schrader type US gas valve in Stainless Steel
Seals	Nitrile Seals as Standard. Other material option available
Maintenance	Ease of Maintenance with threaded end caps
Protection	2 part one coat combi paint

### Accessories & Seal Kits

Mounting Clamp Model Code	Piston OD	Seal Kit (Nitrile) Model Code	Piston OD
CL115-1	4.52 (115)	SKP-115N	4.52 (115)
CL160-1	6.3 (160)	SKP-160N	5.5 (140)