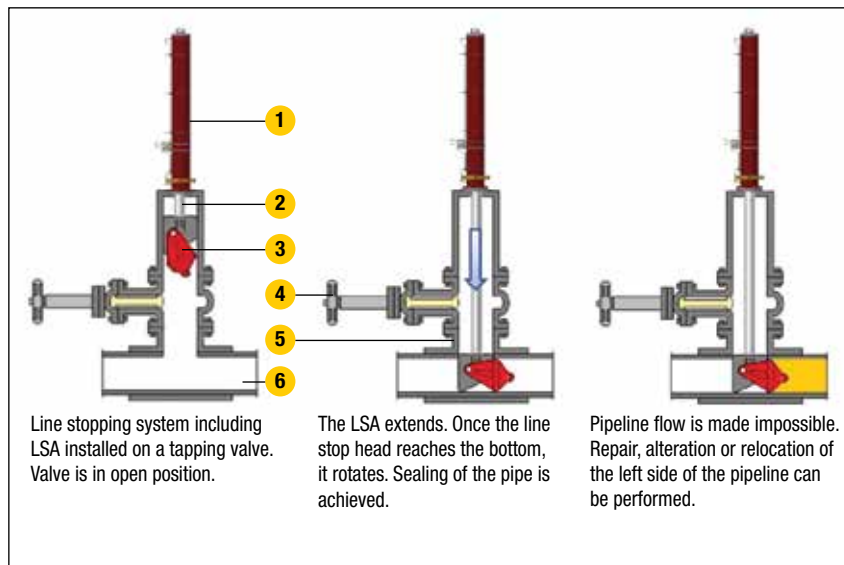


▼ LSA, Hydraulic Line Stop Actuator



- Series of four hydraulic line stop actuators covering a plugging head size range of 4 to 48 inches (102 - 1219 mm)
- Maximum working pressure of 1480 psi (102 bar) at 181° F (83° C)
- Fail-safe mechanical lock prevents control rod movement
- Anti-rotation feature to ensure aligned plugging head deployment
- Hydraulic control situated at the working end of the cylinder for ease of use
- Visible control bar depth control



Safe, Simple and Reliable Pipeline Isolation



LSA-Series, Line Stop Actuators

The Enerpac Line Stop Actuators (LSA) are offered in a variety of sizes. They form part of the Enerpac Hot Tapping and Line Stopping Series that is essential to allow for cost-effective isolation of pipelines to allow for maintenance and modifications avoiding interruption of service and costly shutdown.

Unique anti-rotation feature

The durability, ease-of-use, anti-rotation feature and fail-safe locking mechanism make the Enerpac LSA a safer choice for maintenance crews repairing in-service pipelines that are under pressure.



◀ The LSA is part of a complete line stopping system. Line plugging service is ideal for temporary or permanent isolation of pipe work, allowing repair or modification without the need for plant shutdown or the loss of production or process media.

Stopping the flow in a pipeline under pressure:

- 1 LSA Line Stop Actuator
- 2 Control Bar
- 3 Line Stop Folding Head
- 4 Tapping Gate Valve
- 5 Hot Tap Tee
- 6 Pipeline

Hydraulic Line Stop Actuators



Temporarily Pipeline Isolation

The LSA-Series is used to temporarily isolate a section of pipeline for repairs, maintenance or additions without the need to shut down the line.

Safer, easier and more precise alignment LSA-Series Line Stop Actuators include a unique anti-rotation feature that eliminates excessive play.

This ensures the folding head and sealing elements align easily within the pipe.

The control bar design uses a fail-safe mechanical locking device - an important safety feature that prevents the folding head and seals from unseating if there is an unexpected spike or drop in pressure.

LSA Series



Plugging Head Range:

4 - 48" / 102 - 1219 mm

Stroke:

72 - 140" / 1829 - 3556 mm

Maximum Operating Temperature:

181° F / 83° C

Maximum Operating Pressure:

1480 psi / 102 bar

▼ SELECTION & SPECIFICATIONS (IMPERIAL)

Plugging Head Size (min. - max.) (in)	Capacity at 1015 psi * (US ton)		Hydraulic Line Stop Actuator Model Number	Stroke (in)	Standard Certified Pressure (psi)	Maximum Operating Temperature (continuous) (°F)
	Extend	Retract				
4 - 12	6.1	4.3	LSA412-H	72	1480	181
14 - 20	24.7	19.7	LSA1420-H	102	1480	181
22 - 36	38.7	31.2	LSA2236-H	140	1480	181
38 - 48	55.7	43.5	LSA3848-H	140	1480	181

* Hydraulic oil flow required at 1015 psi: variable flow.

▼ SELECTION & SPECIFICATIONS (METRIC)

Plugging Head Size (min. - max.) (mm)	Capacity at 70 bar* (kN)		Hydraulic Line Stop Actuator Model Number	Stroke (mm)	Standard Certified Pressure (bar)	Maximum Operating Temperature (continuous) (°C)
	Extend	Retract				
102 - 305	55	38	LSA412-H	1829	102	83
356 - 508	220	175	LSA1420-H	2591	102	83
559 - 914	344	277	LSA2236-H	3556	102	83
965 - 1219	495	387	LSA3848-H	3556	102	83

* Hydraulic oil flow required at 70 bar: variable flow.



LSA-Series machines are supplied complete with:

- Hydraulic Line Stop Actuator
- Hydraulic valve and pressure relief
- Certified lifting points
- Hydraulic quick connections ISO16028
- Industry standard flange connections
- Pressure certificate for working pressure 1480 psi (102 bar)

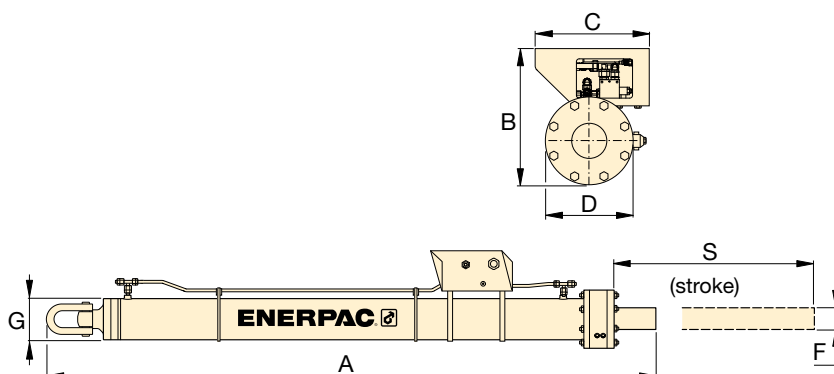


Accessory Compatibility

LSA-Series users can be reassured the product will interface with market standard items, such as plugging heads and housings.

Recommended Hydraulic Power

- Enerpac HPU5 44 kW diesel hydraulic power pack
- Hydraulic hoses



Model Number	Dimensions (inch)							Wt. (lbs)	Dimensions (mm)							Wt. (kg)
	A	B	C	D	F	G	S		A	B	C	D	F	G	S	
LSA412-H	109.3	14.5	15.7	7.2	2.0	4.7	72	297	2777	369	397	184	50,8	120	1829	135
LSA1420-H	144.2	19.2	15.6	12.2	3.5	8.7	102	990	3664	485	397	311	88,9	220	2591	450
LSA2236-H	189.4	22.0	20.5	15.5	4.0	11.0	140	1631	4811	561	520	394	101,6	280	3556	740
LSA3848-H	189.4	25.2	23.5	18.7	5.5	14.0	140	3410	4811	642	598	476	139,7	356	3556	1550