

## HRSL

## Features

- **Pressure Rating- Two Models Available:**
  - 2500 PSI (17.2 MPa)
  - 6000 PSI (41.3 MPa)
- **Temperature Rating:**
  - -15°F - 400°F (-26°C - 204°C)
- **Short Length - Non-telescoping Design**
- **Lightweight and easy to use**
- **Meets NACE MR0175 and MR0103**
- **Pressure Equipment Directive (PED) Certified**
- **Cosasco Systems Safety Awareness Training Available**
- **For use with all 2" access fittings, including hydraulic type**



The Cosasco HRSL Retriever is a precision tool which allows safe, easy insertion and removal of various equipment and tools through a standard Cosasco Access Fitting or specially designed Cosasco Hydraulic Access Fitting, without de-pressurizing the pipeline or vessel. Used in conjunction with a Cosasco 6000 Service Valve, the HRSL tool can be used with two-inch system hydraulic access fittings, with no adapters required. Rotation and translation in and out of the fitting is controlled by two adjustable handles. No movement or telescoping of the tool body is necessary, requiring less clearance area than standard retrievers. For standard access fittings, the HRSL may be used in conjunction with Cosasco Single and Double Isolation Service Valves (3600psi or 6000psi), with no adapter required.

The major components of the HRSL Retriever are: a head assembly, rotation tube, translation tube, and socket adapter assembly. Sealing within the unit is achieved with Viton o-rings and graphite-impregnated Teflon dynamic seals.

A bleed valve assembly with a conveniently located pressure gauge is used with a back pressure pump to permit pressure to enter the retriever and be easily read to verify pressure equalization has been achieved in order to remove the hydraulic plug assembly. Once the service valve has been closed and the retriever is isolated from the process pressure, the bleed valve then allows the product inside the retriever to be bled away for safety and cleanliness.

To ensure safe working practices, a Back Pressure Pump is provided and must be used with the Cosasco HRSL Retriever. This is to achieve pressure equalization between the line and the retriever to eliminate the load on the access fitting assembly locking pins during the retrieval operation. Pressure equalization is crucial to ensure safe removal of the hydraulic plug assembly from the access fitting.

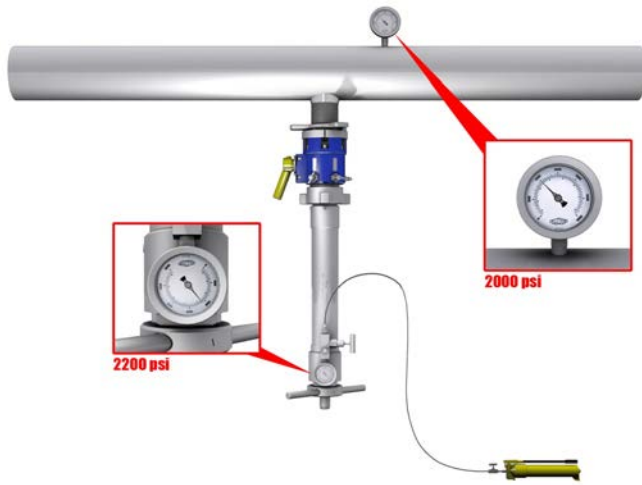
Each HRSL Retriever Kit is furnished with a Back Pressure Pump, service tools, and spare parts in a sturdy field service box to provide compact, easy storage and portability.



## Back Pressure Pump

"Back Pressuring" raises pressure inside the retriever to a level slightly higher than line pressure, thereby preventing a surge of pressure during plug removal and eliminates the load on the hydraulic access fitting locking pins. It also helps to loosen and repel any debris that may have accumulated in the access fitting.

Back pressure can easily be introduced into the retriever through either of the bleed ports on the retriever or service valve. For more details see Back Pressure Pump Data Sheet.



Small Capacity Pump



Large Capacity Pump

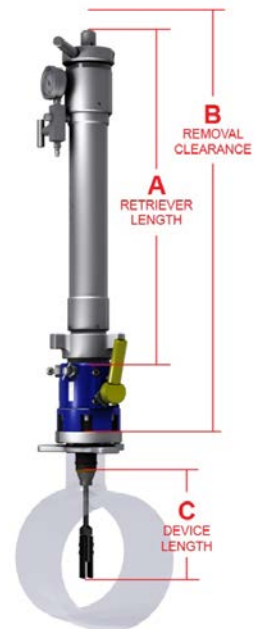
Back Pressure Pump shown connected to bleed port of the Retriever

## HRSL Dimensions & Weights

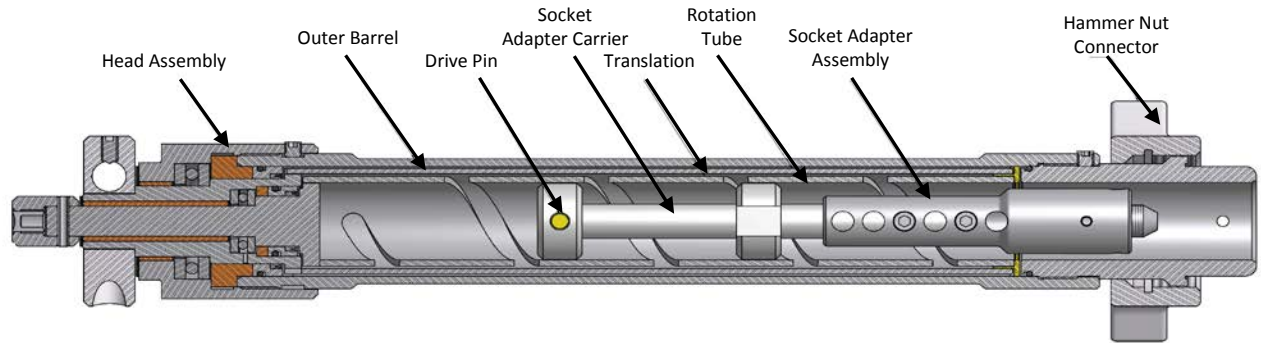
Description (See Illustration)		Stroke Length		
		18"	25"	37"
A) Retriever Length		34.50"	41.50"	53.50"
B) Removal Clearance	3000# S/V	41.75"	48.75"	60.75"
	6000# S/V	44.75"	51.75"	63.75"
	DBBV S/V (3600#)	45.25"	52.25"	64.25"
Retriever Assembly Weight Lbs.) (2500 psi rated retriever)		50	57	69
Retriever Assembly Weight Lbs.) (6000 psi rated retriever)		55	63	76
Retriever Kit Weight (Lbs) (2500 psi rated retriever)		130	145	160
Retriever Kit Weight (Lbs) (6000 psi rated retriever)		135	151	167
Retriever Kit Volume (Cu. Ft.)		3.6	4.3	5.5

Stroke	Plug Type	C) Maximum Device Length		
		3600# S/V (7.06" face-to-face)	6000# S/V (10.00" face-to-face)	Double Block & Bleed S/V (10.25" Face to Face)
18"	Solid	9.00"	6.00"	5.50"
	Hollow	7.50"	4.50"	4.00"
25"	Solid	16.00"	13.00"	12.50"
	Hollow	14.50"	11.50"	11.00"
37"	Solid	28.00"	25.00"	24.50"
	Hollow	26.50"	23.50"	23.00"

**NOTE:** HRSL Retriever can only be used with hydraulic fittings when using 6000# service valve.



Retriever &  
Service  
Valve Hook-up



## How to Order

Sizing of retrievers is governed by the length of the stroke required. The stroke length required is based on the size of the service valve, and the size of the longest device that will be retrieved with the tool. Please see the chart on the previous page for the maximum device lengths for each stroke length tool, and order the smallest tool which will accommodate the largest device length.

The model HRSL retriever is available with two pressure ratings: 2500 PSI or 6000 PSI. The lower pressure tool has the advantage of lighter weight.

## Ordering Information

Part Number	Description
HRSL-XXXX-LL	Retriever Kit consisting of:
600025-XXXX-LL	Retriever Assembly
610075	Rotation Handle
610076	Translation Handle
125102	Thread Chaser
125137	Brass Hammer
610094	Spacer
610072	Drive Pin
741013	Tool Kit
203855	Back Pressure Pump
610081-L	Field Service Box

Note: XXXX = Pressure Rating (2500 or 6000)  
 LL = Stroke Length (18, 25, or 37")

### Optional & Spare Parts for HRSL Retriever

- |                                  |                                          |
|----------------------------------|------------------------------------------|
| 127500 - Socket Adapter Assembly | 124669 - Diverter Hose Assembly – 10 ft. |
| 125137 - Brass Hammer            | 741034 - Repair Kit                      |
| 125111 - Thread Tap              | 741033 - Seal Kit                        |
| 123672 - Surge Tube Assembly     |                                          |

## COSASCO Training

Cosasco Systems Safety Awareness Training is highly recommended for all users of Cosasco Retrievers and Services Valves. See Cosasco Systems Safety Awareness Training datasheet for more details or contact your nearest Cosasco office.

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