

COSASCO®

RBSA Retriever Kit

Features

- **Pressure Rating — 2500 PSI (17.2 Mpa)**
- **Temperature Rating — +450°F (+232°C)**
- **Cosasco Systems Safety Awareness Training Available**
- **Pressure-balanced design with field-proven reliability**
- **Back Pressure Pump must be used to Ensure pressure equalization**
- **Lightweight and easy-to-use design**
- **Meets NACE MR0175 and MR0103**

The Cosasco RBSA Retriever is a precision tool which allows safe, easy insertion and removal of various equipment and tools through a Cosasco Access Fitting, without de-pressurizing the pipeline or vessel. Used in conjunction with a Cosasco Service Valve, and back pressure pump line pressure is equal to retriever pressure. The resulting balanced pressure allows easy insertion and retrieval under full operating pressures up to 2500 PSI (17.2 Mpa).

Any number of Cosasco access fittings can be serviced with a single RBSA Retriever, Service Valve, and back pressure pump, making it a convenient resource where multiple fittings are arrayed such as in a refinery, a producing field, or platform.

The major components of the RBSA Retriever are: a stationary inner barrel; thread adapter; moveable outer barrel and mandrel rod; and socket adapter assembly. Sealing within the unit is achieved with Viton O-rings, Teflon back-up rings, and graphite impregnated Teflon seals.

A bleed valve assembly with a conveniently located pressure gauge permits pressure entering the retriever to be easily read to verify pressure equalization has been achieved.



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. It also can be used for product sampling and is required for use when back pressuring.

To ensure safe working practices and in compliance with Cosasco work instructions, a Back Pressure Pump must be used with all Cosasco Retrievers to ensure pressure equalization has been achieved by normal operating procedures. Pressure equalization is crucial to prevent uncontrolled stroking, and to ensure safe removal of the plug assembly from the access fitting.

Each RBSA Retriever Kit includes service tools and an ample supply of spare parts. Parts subject to wear with normal use are available in Repair or Seal Kits. The complete RBSA Retriever Kit with component assemblies, service tools and spare parts is contained in a sturdy field service box to provide compact, easy storage and portability.

Standard RBSA Retriever Kit with various stroke lengths are indicated. Longer stroke lengths and temperature ratings variances are available on a special order basis. Please contact

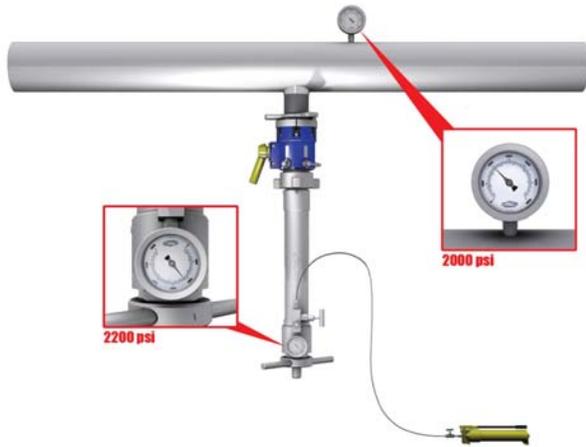


RBSA Retriever Kit

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 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.



Back Pressure Pump shown connected to bleed port of the Retriever



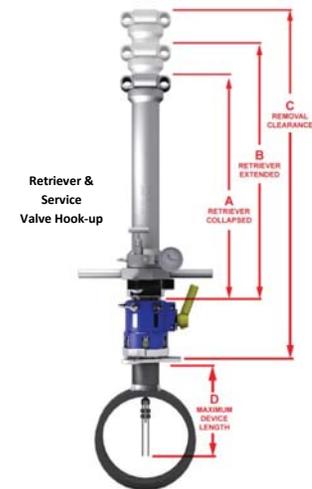
Small Capacity Pump



Large Capacity Pump

RSL Dimension & Weights

Description (See Illustration)		Stroke				
		14"	18"	25"	37"	49"
A) Retriever Collapsed		21.5"	25.50"	32.50"	44.50"	56.50"
B) Retriever Extended		35.62"	43.62"	57.62"	81.62"	105.62"
B) Removal Clearance	3600# S/V	44.25"	52.25"	66.25"	90.25"	114.25"
	6000# S/V	46.75"	54.75"	68.75"	92.75"	116.75"
	DBBV S/V (3600#)	47.25"	55.25"	69.25"	93.25"	117.25"
Retriever Kit Weight in pounds		73	83	101	122	143
Retriever Assembly Weight in pounds		41	45	53	70	87
Retriever Kit Cubage		2.1	2.3	2.6	3.3	4.0



Stroke	Plug Type	C) Maximum Device Length			
		3600# S/A (7.06" face-to-face)	6000# S/A (10.00" face-to-face)	DBB 3600 S/V (10.25" face-to-face)	DBB 6000# S/V (11.25" face-to-face)
14"	Solid	5.50"	N/A	N/A	N/A
	Hollow	3.50"	N/A	N/A	N/A
18"	Solid	9.00"	6.00"	5.50"	4.50"
	Hollow	7.50"	4.50"	4.00"	3.00"
25"	Solid	16.00"	13.00"	12.50"	11.50"
	Hollow	14.50"	11.50"	11.00"	10.00"
37"	Solid	28.00"	25.00"	24.50"	23.50"
	Hollow	26.50"	23.50"	23.00"	22.00"

RBSA Retriever Kit

How to Order

Sizing of Retrievers is governed by the length of the stroke required. The stroke is defined as the distance the Solid or Hollow Plug Assembly and its longest tool or attachment must travel from its seated position within the Access Fitting Body through the Service Valve allowing the valve ball to be closed. Determine stroke length required for longest retrievable attachment to be used. Select the next longer stroke length Retriever Kit available.

Ordering Information

Part Number	Description
RBSA-LL	Retriever Kit Consisting of:
600010-RBSA-LL	Retriever Assembly
127500	Socket Adapter Assembly, 6.88"
207024	Retriever Head Bar
125060	Retriever Wood Clamp
125137	Brass Hammer
125102	Thread Chaser
126409	Wrench Set
741013	Tool Kit
610081-L	Field Service Box



RBSA Retriever KIT shown with RBSA Retriever, Wood Clamp, Brass Hammer, Thread Tap, and Field Service box.

LL = Stroke.

Standard Stroke Lengths available are 14", 18", 25", 37", and 49".

Back Pressure Pump

Part Number	Description
203855	Small Capacity - Back Pressure Pump Kit includes: Portable Auto 2-Speed Hand Pump, 10 Ft. Diverter hose, 3/8" MNPT to 1/4" FNPT Reducer, 1/4" NPT x 1/4" NPT x 2" Nipple, and 1/4" NPT Needle Valve. For use with 14", 18", and 25" Retrievers.
027653	Large Capacity - Back Pressure Pump Kit includes: Portable Auto 2-Speed Hand Pump, 10 Ft. Diverter hose, 3/8" MNPT to 1/4" FNPT Reducer, 1/4" FNPT Quick Coupling, 1/4" NPT x 1/4" NPT x 1 1/2" Nipple, and 1/4" FNPT Needle Valve. For use for 37" or 49" Retrievers.

Optional & Spare Parts for RBSA

Options

123672	Surge Tube Assembly
124669	Diverter Hose Assembly - 10 ft.
124931	Diverter Hose Assembly - 25 ft.
124685	Diverter Hose Assembly - 50 ft.
126720	Tool Kit
126292	Overshot Adapter
125115	Pipe Plug Retriever Adapter

Spare Parts

210238	RBS/RBSA Retriever Repair Kit
210237	RBS/RBSA Retriever Seal Kit
126409	Wrench Set
201688	Lubricant Synthetic
210473	Seal Installation Tool

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.

Cosasco
11841 Smith Avenue
Santa Fe Springs, CA 90670, USA
Tel: 1-562-949-0123
Email: sales@cosasco.com
Web Site: www.cosasco.com

©Rohrbach Cosasco Systems, Inc. All rights reserved

The contents of this publication are presented for information purposes only, and while effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described wherein or their use or applicability. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.

COSASCO[®]



FM 10694

RSL-DS rev-B
Rev. Date 05/10/2018

www.cosasco.com