

COSASCO®

RBS RETRIEVER KIT

Features

- **Pressure Rating - 6000 PSI (41.3 Mpa)**
- **Temperature Rating - + 400°F (+232°C)**
- **Back Pressure Pump must be used to Ensure pressure equalization**
- **Pressure - balanced design with field-proven reliability**
- **Meets NACE MR0175 and MR0103 Cosasco Systems Safety Awareness Training available**

The Cosasco RBS 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 and retriever pressure can be equalized. The resulting balanced pressure allows easy insertion and retrieval under full operating pressures up to 6000 PSI (41.3 Mpa) when used with a 6000 PSI Service Valve.

Any number of Cosasco access fittings can be serviced with a single RBS Retriever and 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 RBS 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 backup 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 RSL 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 RBS 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 RBS Retriever Kits with stroke lengths are indicated below. Lower stroke lengths and other temperature ratings are available on a special order basis. Please contact Cosasco for specifics.



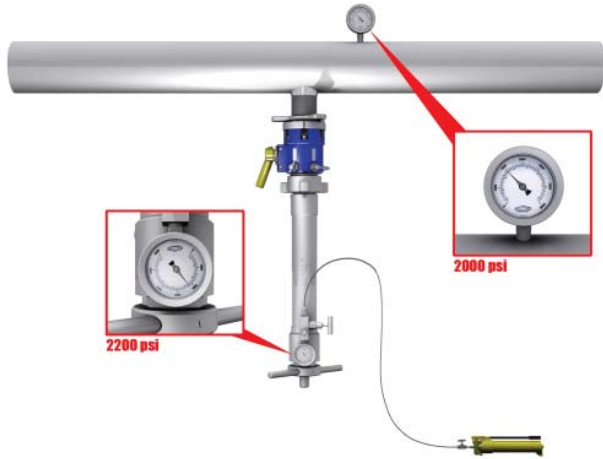
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RBS Retriever Kit

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



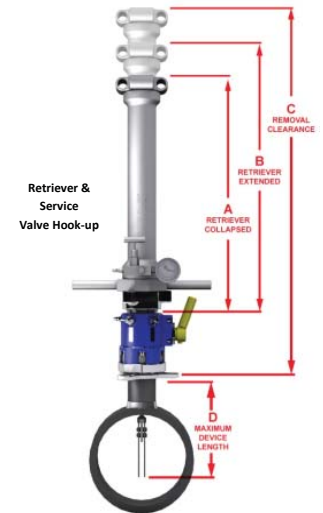
Small Capacity Pump



Large Capacity Pump

RBS 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"
C) 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		84	94	112	133	153
Retriever Assembly Weight in pounds		52	56	64	81	98
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"	23.00"

RBS Retriever Kit

How to Order

Sizing of retrievers is governed by the length of the stroke required. Stroke length is the distance the plug assembly and its longest attachment must travel from the seated position within the access fitting through the Service Valve that will allow the valve to be closed. After minimum stroke length is determined, the Retriever Kit with the next longest stroke length should be selected.

Ordering Information

Part Number	Description
RBS-LL	Retriever Kit Consisting of:
600010-RBS-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
610013-LL	Field Service Box



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

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.

LL - Stroke.

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

Options and Spare Parts for RBS Retrievers

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	RBA/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

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