



A Borehole Packer shown in its inflated state.

Available for **QUICK DELIVERY**  
Contact RST for Details

ORDERING INFO
Hole diameter
Accessories needed
Differential pressure
Model no. / Part no.
Gland length

	PRODUCT CATEGORY:
	BOREHOLE PACKERS + ACCESSORIES

## Borehole Packers

RST Instruments Borehole Packers are pneumatically or hydraulically inflatable packers that incorporate one fixed and one sliding head attached to a center shaft. This sliding head allows the packer gland to retract about the center shaft as it inflates. The packer heads are constructed of either plated steel or aluminum while the shaft is polished stainless steel or aluminum. The packer gland consists of a rubber membrane reinforced with either polyester fabric or steel. Packers made from steel heads, stainless steel shaft and a steel reinforced gland are suitable for medium pressure applications.

### > WHY IT IS IMPORTANT

#### Single packers in an open borehole or well screen:

Isolates a zone from the packer to the bottom of the well.	Allows samples to be taken and pressure to be monitored in the zone below the packer.
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Allows water to be pumped under pressure to below the packer for permeability testing or hydrofracturing.

#### Two packers separated by a specified length of perforated spacer pipe:

Can be used to test a zone or formation at a specific depth.	Only the zone between the packers is affected.
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Can also be used with a wireline system - water can be pumped down the drill rods for zone testing below the second packer, eliminating the need to pull the rods for each test, therefore minimizing in-hole disturbance and costly re-drilling.

### > APPLICATIONS

Monitor well sampling.	Zone testing and monitoring.
Permeability testing.	Pressure grouting.
Packer piezometers.	Sealing off artesian flows in open or cased holes.

### > FEATURES

Packer heads can include sealed pass throughs for instrumentation leads, pump leads, etc.

Steel reinforced, abrasion resistant glands are easily replaced in the field.

Hollow center shaft for placement of sampling and monitoring equipment, or for passing water through the packer during permeability testing.

Suitable for a wide variety of applications in open or cased holes.

## MEDIUM PRESSURE PACKER SPECIFICATIONS

Steel reinforced gland, plated steel heads, stainless steel shaft.

MODEL	PART #	DEFLATED DIAMETER		MAX. INFLATED DIAMETER		MAX. UNCONFINED WORKING PRESSURE*		STANDARD GLAND LENGTHS	CENTRE SHAFT I.D.		SHAFT THREAD SIZE
N	BP0053 BP0054	4.3 cm	1.69 in.	8.25 cm	3.25 in.	2482 kPa	360 psi	635 mm (25 in.) 1000 mm (40 in.)	1.25 cm	0.493 in.	3/8 NPT
H	BP0103 BP0104	5.7 cm	2.25 in.	11.05 cm	4.35 in.	1930 kPa	280 psi	635 mm (25 in.) 1000 mm (40 in.)	2.09 cm	0.824 in.	3/4 NPT
P	BP0153 BP0154	7.2 cm	2.83 in.	14.78 cm	5.82 in.	1172 kPa	170 psi	635 mm (25 in.) 1000 mm (40 in.)	3.51 cm	1.38 in.	1 1/4 NPT
P5-9	BP0224	11.9 cm	4.7 in.	25.65 cm	10.1 in.	965 kPa	140 psi	1250 mm (49 in.)	5.26 cm	2.07 in.	2 NPT

\*The working pressures are specified in free air.


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## SPECIFICATIONS + ORDERING

BOREHOLE PACKER PARTS				
ITEM	MODELS			
	N	H	P	P5-9
Spare Gland - 635mm (25 in.)	BP0051	BP0101	BP0151	N/A
Spare Gland - 1000mm (40 in.)	BP0052	BP0102	BP0152	N/A
Spare Gland - 1250mm (49 in.)	N/A			BP0226
O-Ring Kit	BP0NH	BP0HQ	BP0PQ	BP059
Seating Cone	BP0501	BP0502	BP0503	N/A
Swivel Wireline Adapter	BP0531	BP0530	BP0529	N/A
Nipple	BPFN038	BPFN075	BPFN125	BPFN200
Coupling	BPFC038	BPFC075	BPFC125	BPFC200
End Cap	BPFE038	BPFE075	BPFE125	BPFE200
Perforated Spacer - 5 ft.	BPP5038	BPP5075	BPP5125	BPP5200
Solid Spacer - 5 ft.	BPP6038	BPP6075	BPP6125	BPP6200
3/16 in. Coiled Inflation Line	BP0557-C-N	BP0557-C-H	BP0557-C-P	N/A
1/4 in. Coiled Inflation Line	N/A	BP0558-C-H	BP0558-C-P	N/A
Lifting Bail	BP0521	BP0522	BP0523	BP0527


BOREHOLE PACKER ACCESSORIES	
PART #	DESCRIPTION
BP0557	3/16 in. dia. Nylon Inflation Tubing (3200 psi burst)
BP0558	1/4 in. dia. Nylon Inflation Tubing (3200 psi burst)
BP0511	NQ Stuffing Box - 3/16 in. Inflation Line
BP0511-1/4	NQ Stuffing Box for 1/4 in. Inflation Line
BP0511SK	Stuffing Box Seal Kit 3/16 in. Inflation Line
BP0511SK-1/4	Stuffing Box Seal Kit 1/4 in. Inflation Line
BP0512	HQ Pin Sub
BP0513	PQ Pin Sub
BP0560	Inflation Regulator 0-359 psi
BP0560HP	Inflation Regulator 0-1500 psi
BPFLW100	1 in. Flow System - 150 psi
C-700-1	Replacement Flow Meter for 1 in. Flow System
FIAB1H11	B1H-11 1/8 in. Female Quick Connect
FIAB1K11	B1-K11 1/8 in. Female Quick Connect
FIA68CA32	68CA-3-2 3/16 in. Tube x 1/8 MNPT Fitting
FIA61CA3	61CA-3 3/16 in. Nut and Sleeve
FIA62CA3	62CA-3 3/16 in. Tube Union
FIA68CA42	1/4 in. Tube x 1/8 in. MNPT Fitting
FIA61CA4	61CA-4 1/4 in. Nut and Sleeve
FIA62CA4	62CA-4 1/4 in. Tube Union




Inflation Regulators are used to control inflation of the borehole packers. Two models are available: 0-350 psi and 0-1500 psi. Each regulator includes a quick connect (to attach the packer inflation line) and a standard nitrogen bottle connector.




Seating Cones are used to set the packer assembly in place at the drill bit.




Lifting Bails are used to raise and lower the packer assembly by utilizing the wireline. If a swivel wireline connection is already in place, a modified lifting bail with threads matching to the swivel connector is available.



Feed-through Adapters allow instrument leads to be passed through the packers to the pumps and other equipment in the zone below the packer.



Stuffing Boxes provide a seal on the drill rods and against the wireline and inflation line. This allows water to be pumped down the drill rods under pressure.



A Flow System is used to monitor and control water during downhole testing. Each flow system includes a flow meter, pressure gauge, shut-off valve, by-pass valve, connection hose, and aluminum frame.