

Inflatable packers

for hydrogeological investigations
and civil / underground engineering

INSTRUCTIONS FOR SAFE WORK WITH HIGH-PRESSURE PACKERS

RULES FOR SAFE WORK WITH HIGH-PRESSURE PACKERS

(hereafter referred to as HP-P):

1. Do not stay near the packer when it is under pressure.
2. Always use protective clothing and equipment (goggles, helmet, ear plugs and clothes).
3. Always use precisely calibrated pressure gauges.
4. Never exceed the maximum permitted inflation pressure.
5. Never inflate packers with air outdoor.
6. Before removal, deflate the packer.
7. Prior to and after each use clean the packer with a solution of water and detergent. Check the packer surface for any cracks, cuts or other damages.
8. Always choose a suitable packer size with regard to the borehole size.
9. Before packer insertion clean the borehole thoroughly, if possible.
10. Always insert packer correctly into the borehole.

HOW TO CHOOSE A SUITABLE HP-P

1. Always choose a proper packer size: measure the borehole diameter and choose a packer that covers the borehole area.

HOW TO PREPARE THE HP-P AND THE BOREHOLE

1. Prior to each use clean the packer and examine its surface for any cracks, cuts or any other damages. (If you suspect that packer or equipment is damaged, consult a Sava representative and make arrangements for returning the product for inspection, or destroy the product and replace it with a new one. If you notice anything unusual, remove the packer and consult your supervisor or safety engineer.)
2. Always check connections and hoses for leaks.

USE OF SAFETY DEVICES

1. Always use protective clothing and equipment.
2. Use only properly calibrated pressure gauges.

CORRECT PACKER INSERTION INTO THE BOREHOLE

1. Make sure that the packer is fully inserted in the borehole and its parts do not project over the hole when the packer is under pressure.
2. First inflate the packer to touch the borehole wall, then slowly and carefully increase the pressure up to the maximum permitted inflation pressure.

CORRECT USE OF HP-P

1. Do not stay near the packer when it is under pressure.
2. Never exceed the maximum permitted inflation pressure in the packer.

CORRECT REMOVAL OF THE PACKER FROM THE BOREHOLE

1. Always first release the pressure in the HP-P.

NON-OBSERVANCE OF INSTRUCTIONS AND WARNINGS FOR SAFE WORK WITH HIGH-PRESSURE PACKERS CAN RESULT IN SERIOUS INJURIES OR EVEN DEATH.

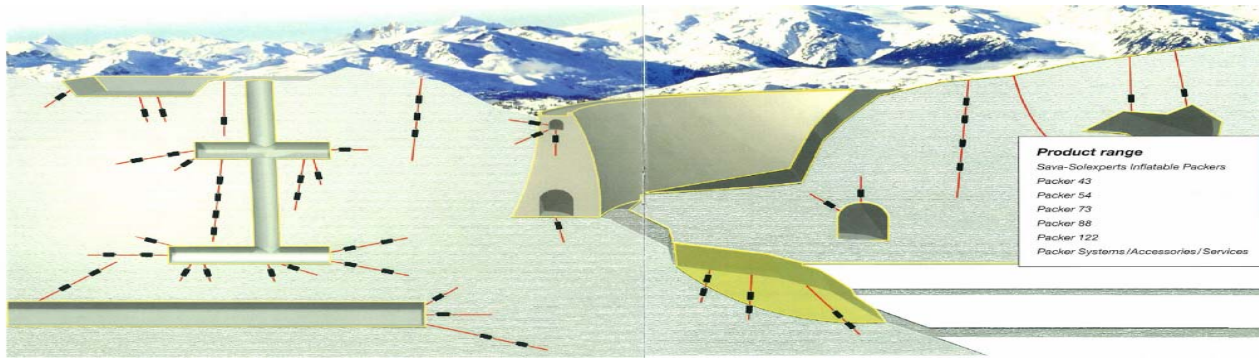
single



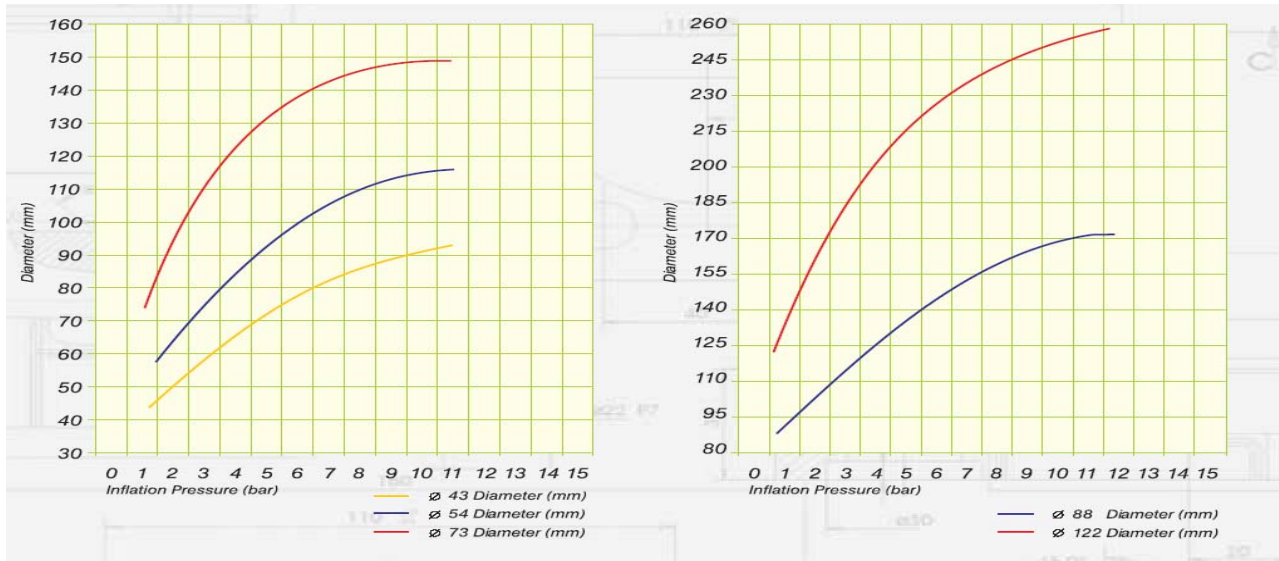
double



Range of application for HIGH-PRESSURE PACKERS



Inflation curves of high-pressure packers:



Range of operation of high-pressure packers: by size - Sava SOLEXPERTS:

Working diameter (mm)	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125
Type Ø 43 (bar)	145	125	105	85	80	75	70	45	40	35	30						
Working diameter (mm)	56	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135
Type Ø 54 (bar)	155	140	120	100	80	70	60	50	40	35	30	25	20				
Working diameter (mm)	76	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155
Type Ø 73 (bar)	110	100	90	80	70	60	55	50	40	35	30	30	25	25	25	20	
Working diameter (mm)	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170
Type Ø 88 (bar)	130	120	110	110	100	90	80	70	60	55	50	45	40	35	35	30	30
Working diameter (mm)	126	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280
Type Ø 122 (bar)	103	100	80	60	55	55	50	45	40	35	30	30	25	25	20		

FOR INFLATABLE PACKERS CONTACT

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