Starting force and dimensions

Stroke [mm]	XL 32 Ø32 400 daN 680 daN* Max lenght [mm]	XL 32 Ø32 400 daN 680 daN* Min lenght [mm]	XL 38 Ø38 560 daN 1000 daN* Max lenght [mm]	XL 38 Ø38 560 daN 1000 daN* Min lenght [mm]
10	50	40	50	40
13	56	43	56	43
16	62	46	62	46
19	68	49	68	49
25	80	55	80	55
32	94	62	94	62
38	106	68	106	68
50	130	80	130	80
63	156	93	156	93
75	180	105	180	105
80	190	110	190	110
100	230	130	230	130
125	280	155	280	155

Stroke [mm]	XL 45 Ø45 800 daN 1350 daN* Max lenght [mm]	XL 45 Ø45 800 daN 1350 daN* Min lenght [mm]	XL 50 Ø50 1000 daN 1750 daN* Max lenght [mm]	XL 50 Ø50 1000 daN 1750 daN* Min lenght [mm]
10	52	42	58	48
13	58	45	64	51
16	64	48	70	54
19	70	51	76	57
25	82	57	88	63
32	96	64	102	70
38	108	70	114	76
50	132	82	138	88
63	158	95	164	101
75	182	107	188	113
80	192	112	198	118
100	232	132	238	138
125	282	157	288	163

Stroke [mm]	XL 63 Ø63 1750 daN 3000 daN* Max lenght [mm]	XL 63 Ø63 1750 daN 3000 daN* Min lenght [mm]	XL 75 Ø75 2500 daN 4250 daN* Max lenght [mm]	XL 75 Ø75 2500 daN 4250 daN* Min lenght [mm]
10	64	54	65	55
13	70	57	71	58
16	76	60	77	61
19	82	63	83	64
25	94	69	95	70
32	108	76	109	77
38	120	82	121	83
50	144	94	145	95
63	170	107	171	108
75	194	119	195	120
80	204	124	205	125
100	244	144	245	145
125	294	169	295	170

Standard values @20 °C 105 bar.
* @180 bar - for correct use refer to the specification.

xela
MORE THAN AN IDEA

A PRODUCT OF

CAPPELLER
MORE THAN AN INDUSTRY

We manufacture high end gas springs:

- for safety,
- for durability,
- for strength,
- for your benefit!

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MORE THAN AN IDEA

HIGH END GAS SPRINGS

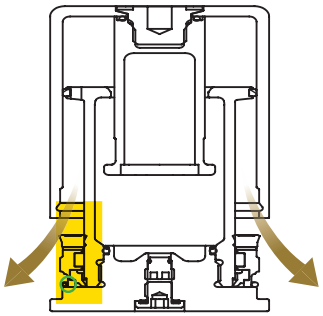
LONG LIFE
because of low inside pressure and high force

MAXIMUM SAFETY
overtstroke security by patented fast unpressuring

WEAR RESISTANCE
dirt protection by exclusive design and wiper on pressure

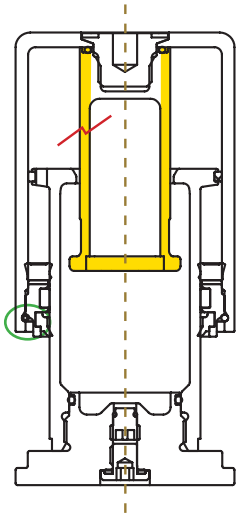
Safety

Overstroke



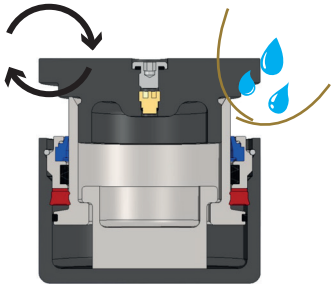
1. Decoupling of the safety ring instantly releases the pressure; a single overstroke push is sufficient for complete pressure relief.
2. Prior to decoupling, a force peak indicates a potential risk to the press, usable on presses equipped with a monitoring system.

Retains components, preventing uncontrolled ejection



In case of damage, the components cannot be ejected or projected outward.
1. The **safety ring** locks in place in case of pin failure.
2. The **pin locks** in place in case of ring disengagement.

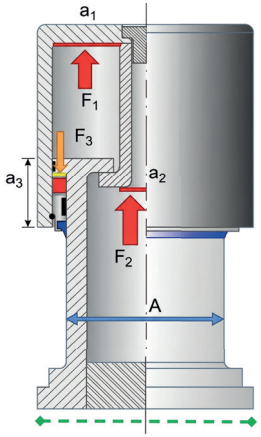
Protection against fluid ingress



Overpressure risk is eliminated due to the positive internal pressure within the piston. In **addition** a dedicated **wiper** prevent fluid ingress from outside.

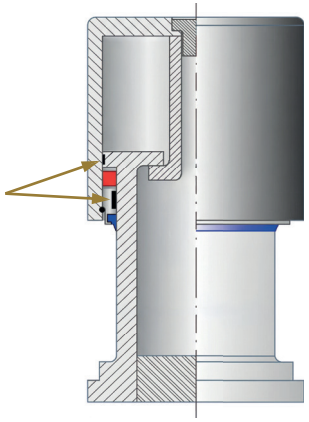
Long life

Low Pressure



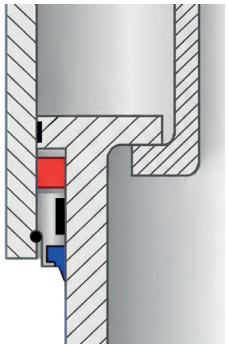
Developed to enhance efficiency, safety, and durability, the Xela design operates at lower pressures than standard models, while maintaining identical dimensions ensuring equal or even greater force output.
+40/ 60% more area compare to competition.

Double guide



Durability and precision during motion are ensured by two sliding guides: one is coupled to the cup, while the other operates within the cup.

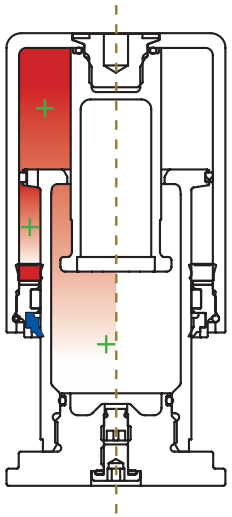
Optimized wear



Internal pressure continuously compresses the special red gasket, ensuring optimal sealing performance. The sealing system is composed by the **gasket**, the **rigid metal ring** and the **wiper**. The low pressure and the sliding surfaces ensure optimal operating temperature inside the spring.

Wear resistance

Protection against contaminants

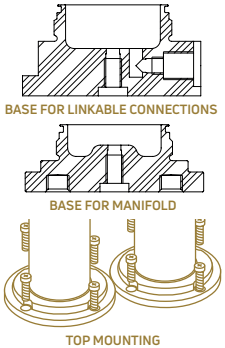


The spring is designed to maintain positive pressure throughout the entire internal volume, keeping the **gasket** uniformly loaded. A special **wiper** prevents any entrance of any contaminants.

Wider top, wider force distribution

The black sliding cover distributes the force on down holder across a wide surface. It works alo as a safety cover by protecting against particles.

Modular + reusable



Bases can be changed to reuse Xela in new projects. The base is equipped with standard holes for full compatibility, or an innovative top mounting system.