

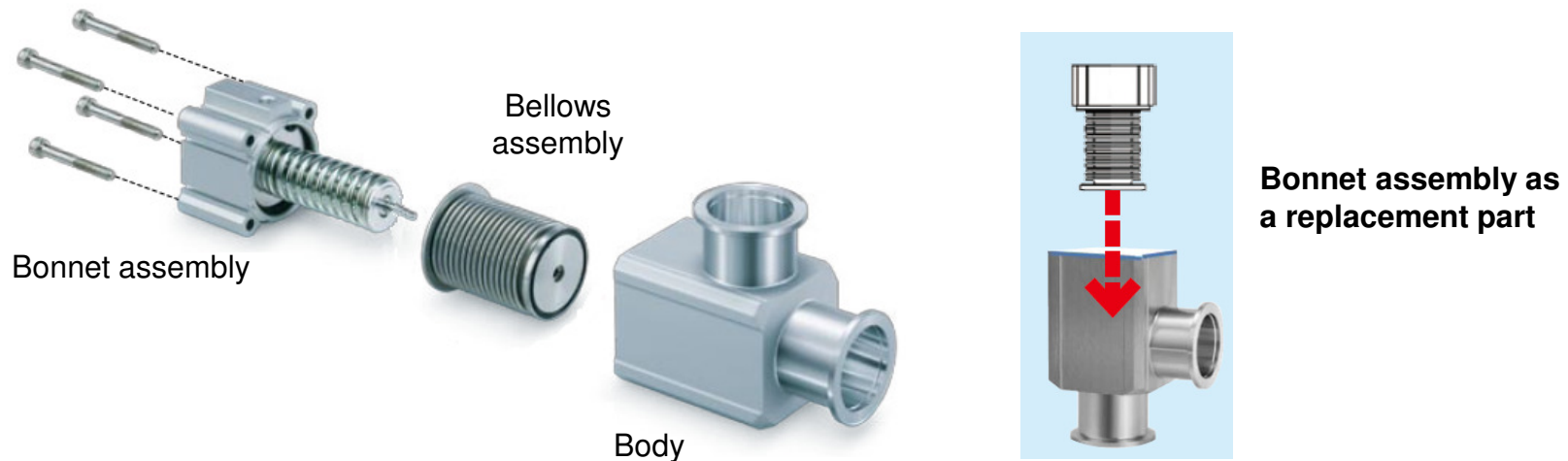


New XLA Aluminium High Vacuum Angle Valve

Improved features and related benefits

FEATURE: Possible to replace the bellows. The bonnet assembly is prepared as a replacement part.

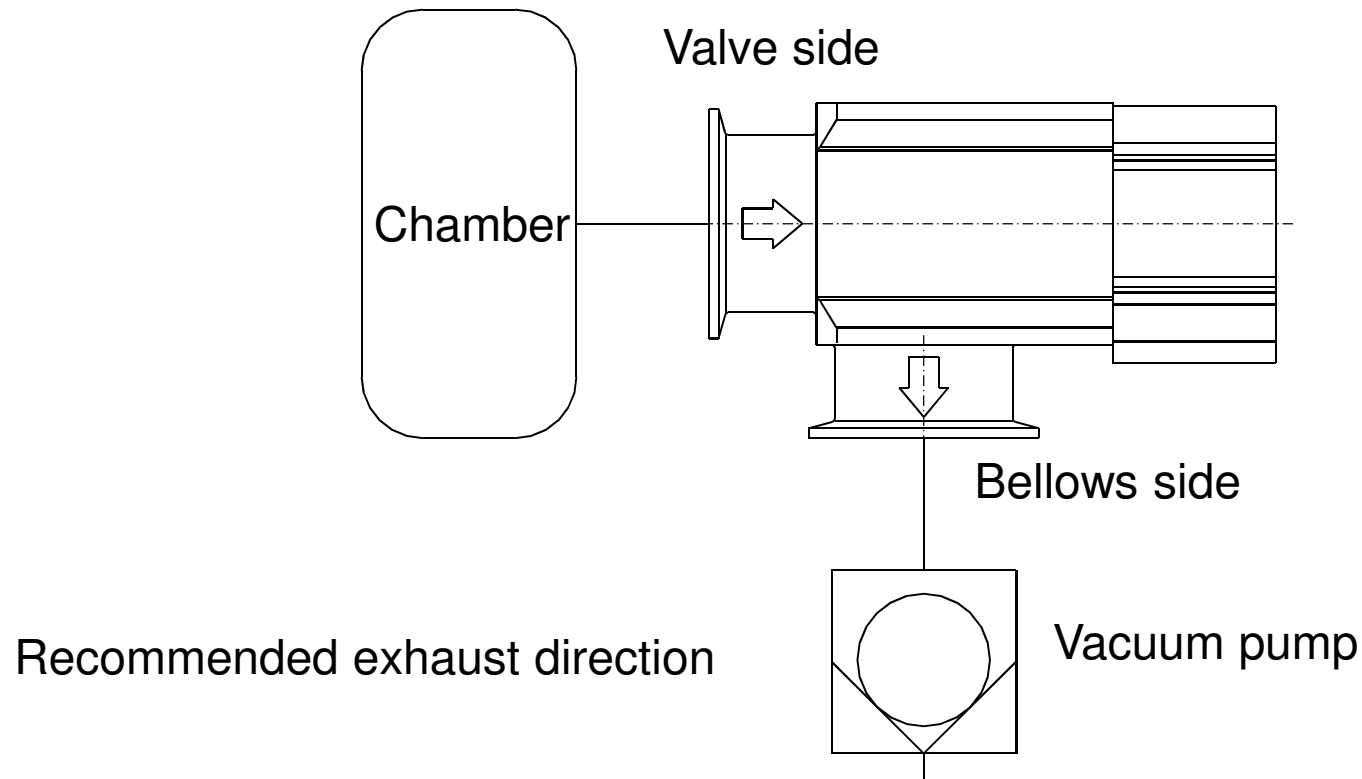
CUSTOMER BENEFIT: Maintenance costs reduced. Waste materials reduced.



Improved features and related benefits

FEATURE: The bellows of 80 size has improved durability with a newly designed shape (2 million cycles possible even with high speed and large flows when the product is used with the exhaust direction as shown in the illustration).

CUSTOMER BENEFIT: Cost savings due to a longer life span.



Technical details

External appearance changes (i)

External form/appearance is different



Existing XLA

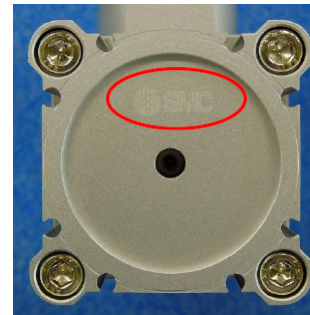


New XLA

SMC trademark is marked by laser, not printed



Top view – printed design



Top view – laser marking

Technical details

External appearance changes (ii)

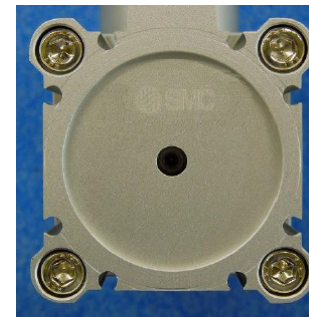
Same design and label for both standard type (5 to 60 °C) and optional high temperature type (5 to 150 °C)



Standard type



High temperature type



Unique design in new XLA



Standard type label



High temperature type label



Same & unique label in new XLA

Technical details

External appearance changes (iii)

The heater cover (for option with heater) is different, and the lead wire entry direction of this heater cover has also been changed.



Heater cover



Heater cover



Lead wire entry direction (top)



Lead wire entry direction (bottom)

Although the heater lead wire entry direction of the new XLA is basically bottom entry, it can be changed to top entry.

For it, remove the bolts holding the heater, turn it around and remount it. When doing this, take care not to damage the insulation components of the connection part and lead wire.

Technical details

▪ Addition and removal or product variations and options

Variations - The type with solenoid valve, series XLAV is not available in the new XLA. Please use the existing series.

Body surface treatment options – Seal material ULTIC ARMOR® is not available as a standard, but as a special product (please consult SMC for details).

Seal material changed part and leakage options – There are differences in the changed parts of the different options (A, B, C) and there are new options (D, E).

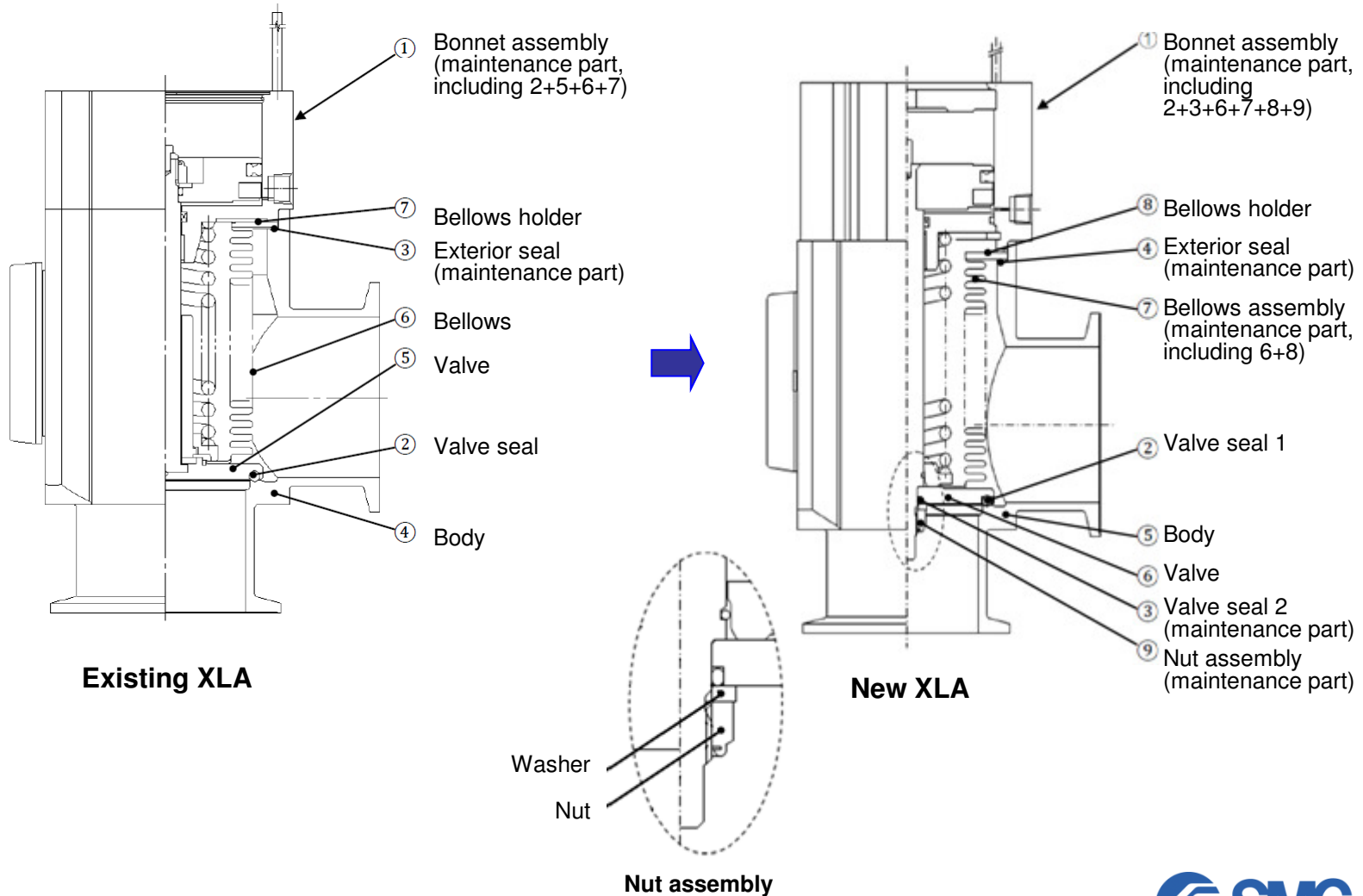
Body surface treatment / Seal material and its changed part

Seal material changed part and leakage

Symbol	Changed part		Leakage [Pa·m ³ /s or less]			
			Internal		External	
	existing XLA	new XLA	existing XLA	new XLA	existing XLA	new XLA
-	none	none	1.3 x 10 ⁻¹⁰ (FKM)	1.3 x 10 ⁻¹¹ (FKM)	1.3 x 10 ⁻¹¹ (FKM)	1.3 x 10 ⁻¹¹ (FKM)
A	2, 3	2, 3, 4	1.3 x 10 ⁻⁸	1.3 x 10 ⁻⁹	1.3 x 10 ⁻⁹	1.3 x 10 ⁻⁹
B	2	2, 3	1.3 x 10 ⁻⁸	1.3 x 10 ⁻¹¹ (FKM)	1.3 x 10 ⁻¹¹ (FKM)	1.3 x 10 ⁻⁹
C	3	4	1.3 x 10 ⁻¹⁰ (FKM)	1.3 x 10 ⁻⁹	1.3 x 10 ⁻⁹	1.3 x 10 ⁻⁹
D	-	2	-	1.3 x 10 ⁻⁸	-	1.3 x 10 ⁻¹¹ (FKM)
E	-	2, 4	-	1.3 x 10 ⁻⁸	-	1.3 x 10 ⁻⁹

Technical details

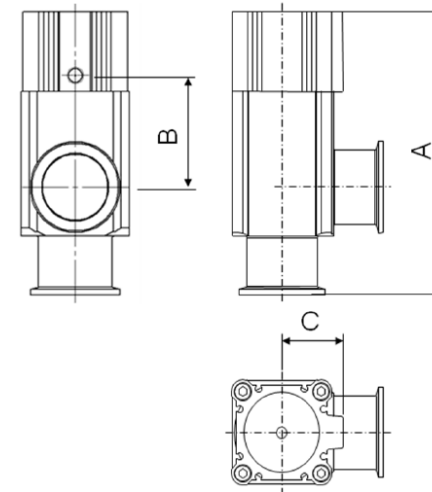
Construction changes



Technical details

External dimensions change

Flange size	Symbol	existing XLA	new XLA
16	A	103	108
	B	40	44
	C	20	20
25	A	113	121
	B	39	44
	C	25	27
40	A	158	171
	B	63	67
	C	35	39
50	A	170	185
	B	68	72
	C	41,5	46
63	A	196	212
	B	69	76
	C	53	55
80	A	235	257
	B	90	104
	C	61,5	65



*There are **no changes in the face to face dimension and piping diameter**, but the total length has changed (value A). There is no change in the pilot port size, but the mounting location dimensions have been changed (values B and C).*

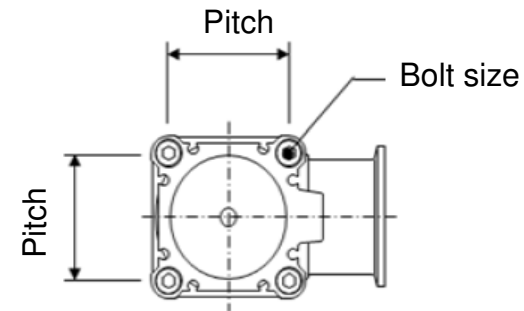
Weight changes

Flange size	existing XLA	new XLA
16	0,25	0,28
25	0,45	0,47
40	1,1	1,1
50	1,6	1,7
63	2,9	3,1
80	5	5,1

Technical details

■ Mounting pitch changes

[mm]			
Flange size	Item	existing XLA	new XLA
16	Pitch	29	28
	Bolt size	M4, L=30mm	M4, L=30mm
25	Pitch	37	37
	Bolt size	M5, L=30mm	M5, L=35mm
40	Pitch	50	50
	Bolt size	M6, L=40mm	M6, L=50mm
50	Pitch	61	60
	Bolt size	M8, L=40mm	M8, L=55mm
63	Pitch	81	77
	Bolt size	M8, L=50mm	M10, L=60mm
80	Pitch	95	94
	Bolt size	M10, L=60mm	M10, L=80mm



Although **the piping and mounting of the new product is interchangeable with the old design**, the bonnet assembly is not interchangeable.

Changes in mounting pitch: the location (parts with no change) can be rearranged between the old and the new product, but the interchangeability cannot be guaranteed.