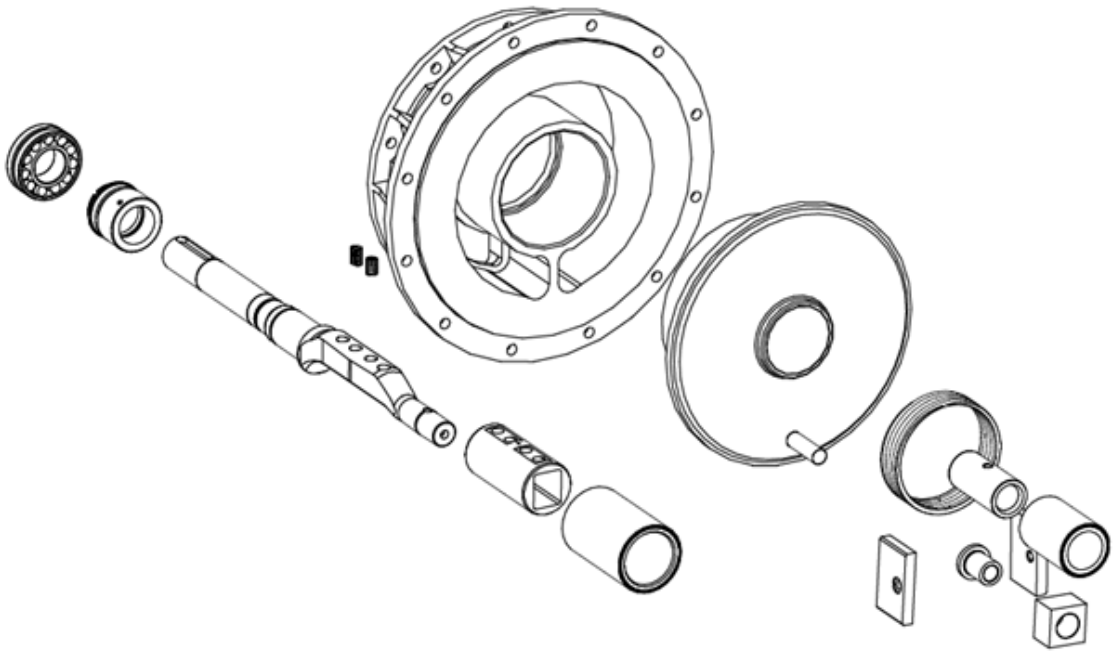
INSTRUCTIONS 1012-F00 e

Section	1012
Effective	August 2016
Replaces	November 2015

Original instructions

Wearing parts dimensions control A6 - A12 - A18 - A31 - A55



a DOVER company

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Your distributor :

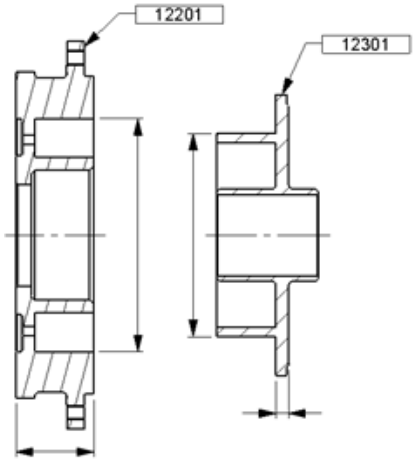
WEARING PARTS DIMENSIONS - mm (inch)

1. Bushings

To be replaced if inside diameter exceeds :

	A6	A12	A18	A31	A55
Piston bushing 12303	33,05 (1,301)	44,25 (1,742)	51,45 (2,025)	56,70 (2,232)	61,90 (2,437)
End cover bushing 12415	26,75 (1,053)	28,90 (1,137)	31,00 (1,220)	41,10 (1,618)	46,20 (1,818)

2. Piston 12301 and cylinder 12201



NOTICE

Proper pumping characteristics require a piston and cylinder couple with paired dimensions.

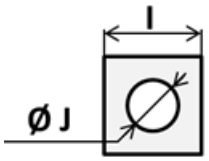
Therefore replacement of piston or cylinder requires replacement of the piston/cylinder couple.

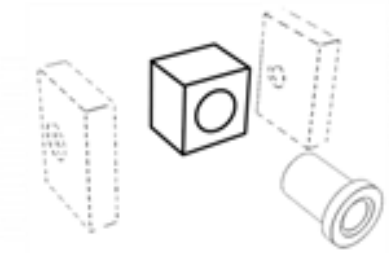
In addition, as using a cylinder / piston that is too worn may damage the pump's transmission system, it is advisable to replace the cylinder / piston if the minimale acceptable wear dimensions defined in the table below are reached.

			A6	A12	A18	A31	A55
Cylinder 12201	Thickness	New dimension	41,9 (1,650)	59,9 (2,358)	69,8 (2,748)	101,8 (4,008)	114,8 (4,520)
		Minimum wear dimension acceptable	39,7 (1,562)	57,3 (2,255)	67,4 (2,654)	98,2 (3,866)	111,2 (4,378)
	Diameter	New dimension	126,0 (4,961)	166,0 (6,535)	194,0 (7,638)	224,0 (8,819)	270,0 (10,630)
		Minimum wear dimension acceptable	127,0 (5,000)	167,0 (6,575)	195,0 (7,677)	225,0 (8,858)	271,5 (10,688)
Piston 12301	Thickness	New dimension	6,95 (0,274)	9,95 (0,392)	11,95 (0,470)	12,95 (0,510)	12,9 (0,508)
		Minimum wear dimension acceptable	5,2 (0,204)	8,0 (0,315)	9,6 (0,378)	10,4 (0,409)	10,4 (0,409)
	Diameter	New dimension	110,0 (4,331)	145,0 (5,709)	168,0 (6,614)	192,0 (7,559)	228,0 (8,976)
		Minimum wear dimension acceptable	108,9 (4,287)	143,5 (5,649)	166,4 (6,551)	190,2 (7,488)	226,0 (8,898)

WEARING PARTS DIMENSIONS - mm (inch)

3. Slide block 12312

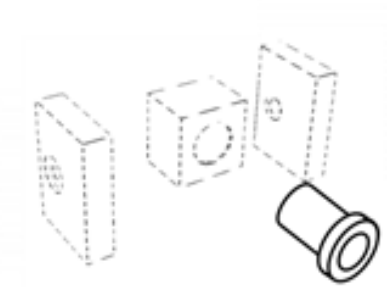




To be replaced if dimension is :

	A6	A12	A18	A31	A55
I <	24,87 (0,979)	27,87 (1,098)	31,86 (1,254)	39,86 (1,569)	49.86 (1,963)
J >	16,04 (0,631)	16,04 (0,631)	18,04 (0,710)	25,05 (0,986)	30,05 (1,183)

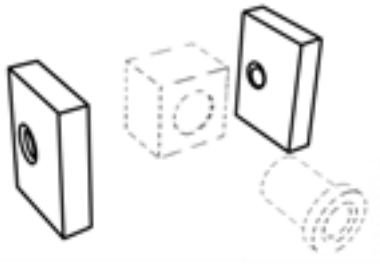
4. Slide block bushing 12306



To be replaced if outside diameter is below :

A6	A12	A18	A31	A55
15,83 (0,623)	15,90 (0,626)	17,90 (0,705)	24,90 (0,980)	29,89 (1,177)

5. Slide block pad 12404



To be replaced if thickness is below :

A6	A12	A18	A31	A55
7,45 (0,293)	9,45 (0,372)	11,45 (0,450)	11,45 (0,450)	11,45 (0,450)

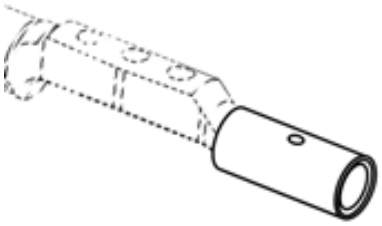
WEARING PARTS DIMENSIONS - mm (inch)

6. Piston bearing 12503

To be replaced if outside diameter is below :

A6	A12	A18	A31	A55
31,75 (1,250)	42,75 (1,683)	49,75 (1,959)	54,65 (2,152)	59,65 (2,348)

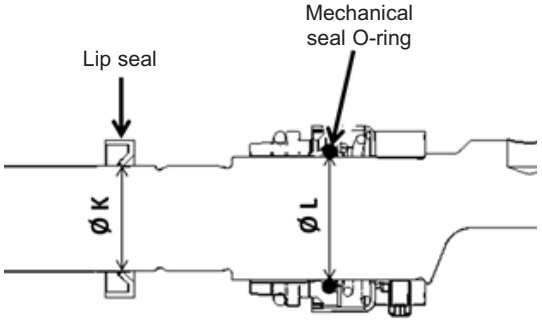
7. Sleeve 12521



To be replaced if outside diameter is below :

A6	A12	A18	A31	A55
25,80 (1,016)	27,80 (1,094)	29,75 (1,171)	39,70 (1,563)	44,75 (1,762)

8. Shaft 12501



To be replaced if dimension is :

	A6	A12	A18	A31	A55
K <	19,85 (0,781)	24,85 (0,978)	29,85 (1,175)	34,85 (1,372)	39,85 (1,569)
L <	21,90 (0,862)	29,90 (1,177)	34,89 (1,374)	39,95 (1,572)	44,95 (1,770)

WEARING PARTS DIMENSIONS - mm (inch)

9. Springs

Springs to be replaced if they are :

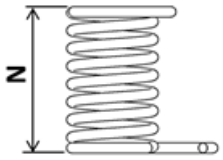
- Twisted
- Corroded

9.1 A6 pump

9.1.1 Radial spring 12504

To be replaced if M dimension on released spring is below 10,5 mm (0,413”).

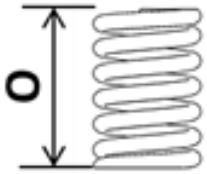
9.1.2 Axial springs 12310



To be replaced if N dimension on released spring is below 21 mm (0,826”).

9.2 A12 - A18 - A31 - A55 pumps

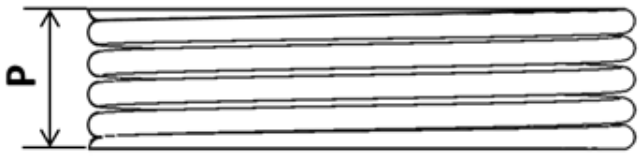
9.2.1 Radial springs 12504



To be replaced if O dimension on released spring is below :

A12	A18	A31	A55
16,60 (0,654)	24,00 (0,945)	24,00 (0,945)	27,00 (1,063)

9.2.2 Axial spring 12310



To be replaced if P dimension on released spring is below :

A12	A18	A31	A55
31,00 (1,220)	33,00 (1,299)	52,00 (2,047)	66,00 (2,598)

10. Mechanical seal

To be replaced if faces are showing :

- Scratches,
- Holes,
- Breakages,
- Permanent deformation.

11. Shaft bearing

To be replaced if :

- Hard points can be felt when rotating the bearing manually,
- Abnormal sound (squeaking…) is heard when pump is operated,
- Theoretical life span is exceeded.

Theoretical bearing life span (hours)

A6	A12	A18	A31	A55
15 000	20 000	20 000	20 000	20 000

NOTICE

The lifetime for the bearing is a theoretical lifetime calculated according to the standard ISO 281 recommendations.

This calculation was performed with the values of speed and acceptable maximal differential pressure and for a acceptable failure rate of 10%.