

PIW

RASCHIATORE BIDIREZIONALE TIPO PIW

Descrizione

Il raschiatore bidirezionale PIW (Pneumatic Innovative bidirectional Wiper) è stato studiato per eliminare le perdite dovute a imperfezioni di lavoro nelle sedi delle testate dei cilindri pneumatici (fig.45) .Testate che possono essere in materiale plastico rinforzato con fibre di vetro o in alluminio fuso lavorate a utensile. La particolare forma del profilo, con rilievi sul lato statico esterno, elimina completamente le perdite dovute a tagli, segni di lavorazione d'utensile, ovalizzazioni e conicità di sformo nelle testate in plastica.

Limiti d'impiego

Pressione: ‹ 20 bar
Velocità: ‹ 1 m/s
Temperatura: da - 40° C a + 90° C
Fluidi: aria (lubrificata e non) grassi minerali (v. tabella 3 a p.14)

Materiale

Il materiale utilizzato è un poliuretano di durezza 90 Shore A. Codice materiale: Bo

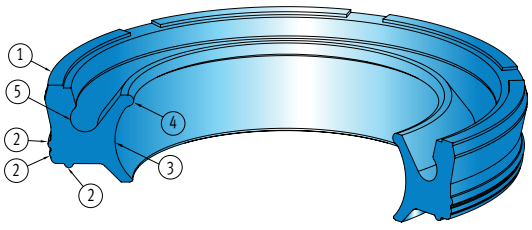
Montaggio

Il montaggio avviene in cava chiusa.
Si consiglia di eliminare spigoli vivi e bave per non danneggiare la tenuta durante la fase di montaggio.

Fig.55:

1- distanziali stabilizzatori per evitare back-pumping
2- rilievi per vincere le imperfezioni delle sedi
3- ampio raggio per creare effetto molla utile alle basse pressioni
4- raggio sul labbro dinamico per diminuire l'attrito di primo distacco
5- raggiatura per rendere maggiormente elastico il labbro statico

Fig.55 - *Pic.55:*



BI-DIRECTIONAL WIPER TYPE PIW

Description

The bi-directional wiper PIW "Pneumatic Innovative bidirectional Wiper" is design in order to eliminate the leakage due to the imperfection of the working in the groove of pneumatic cylinder head (Pic.45).
The pneumatic head cylinder can be made in plastic material filled with glass fibers or cast aluminum machined.
The particular shape of the profile, with reliefs on the external static side completely eliminates leakage due to: cut, signs of machine tool, ovality and taper draft in plastic head cylinders.

Technical data

Pressure: ‹ *20 bar*
Speed: ‹ *1 m/s*
Temperature: from - 40° C up to + 90° C
Fluids: air (lubricate or not) mineral grease (see table 3, page 14)

Material

The material used is Polyurethane with hardness 90 Shore A. Material code: Bo

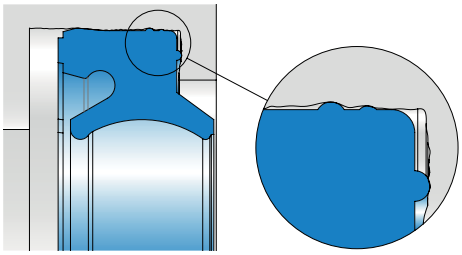
Assembling

The assemblin is on closed groove.
Eliminate sharps and burrs to avoid damage the seal during the assembling.

Pic.55:

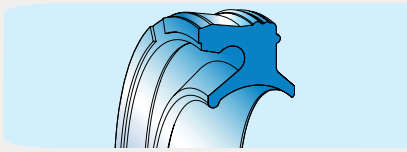
1- stabilizers spacers to avoid back-pumping
2- reliefs to win imperfection of the groove
3- big radius to create spring effect usefull at low pressure
4- radius on dynamic lip to decrease friction breakaway
5- radius to make more flexible static lip

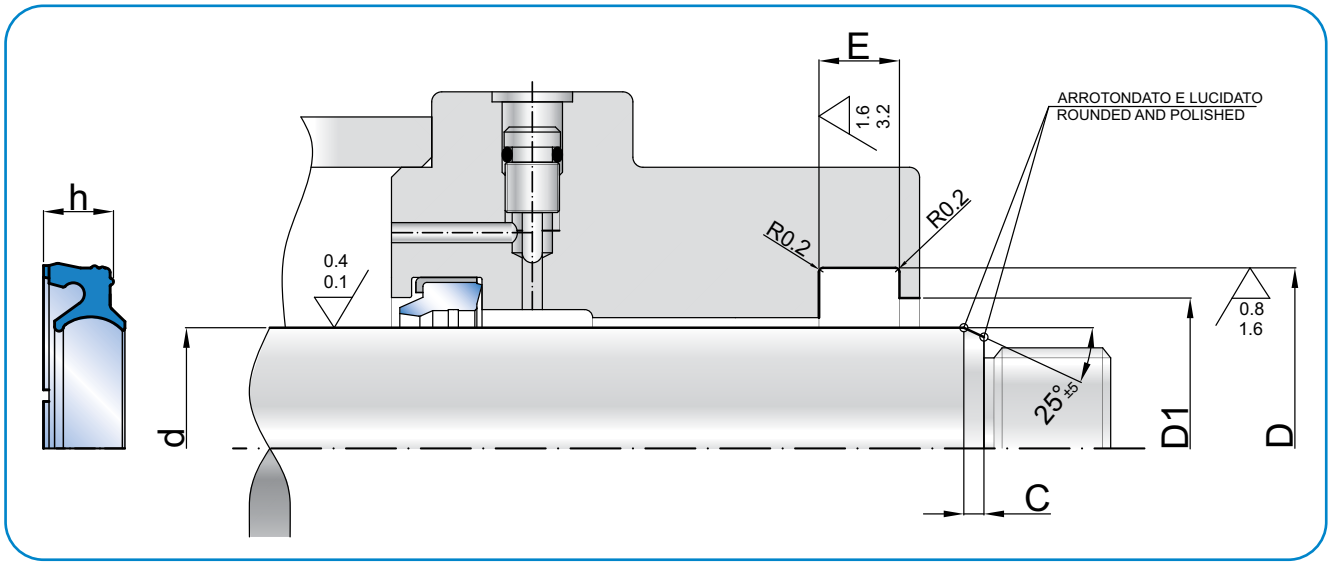
Fig.56 - *Pic.56:*



ARTIC SEALS

PIW





d_{f9}	D_{H10}	Toll H10	D_1	h	$E_{+0,2}$	ART / *ITEM*
3,0	8,8	+0.058/0	5,0	4,0	4,5	PIW 0030 0088 040 Bo
4,0	7,0	+0.058/0	6,0	2,2	2,7	PIW 0040 0070 022 Bo
4,0	8,8	+0.058/0	5,4	4,0	4,5	PIW 0040 0088 040 Bo
5,0	8,0	+0.058/0	6,2	2,2	2,7	PIW 0050 0080 022 Bo
6,0	9,0	+0.070/0	7,2	2,2	2,7	PIW 0060 0090 022 Bo
6,0	10,8	+0.070/0	8,0	4,0	4,5	PIW 0060 0108 040 Bo
8,0	11,5	+0.070/0	9,2	2,5	3,0	PIW 0080 0115 025 Bo
8,0	12,8	+0.070/0	10,0	4,0	4,5	PIW 0080 0128 040 Bo
8,0	14,0	+0.070/0	11,0	4,0	4,5	PIW 0080 0140 040 Bo
10,0	14,0	+0.070/0	11,4	2,8	3,2	PIW 0100 0140 028 Bo
10,0	16,0	+0.070/0	12,5	3,6	4,0	PIW 0100 0160 036 Bo
10,0	16,8	+0.070/0	13,0	4,0	4,5	PIW 0100 0168 040 Bo
10,0	18,0	+0.070/0	14,0	4,5	5,0	PIW 0100 0180 045 Bo
12,0	16,5	+0.070/0	13,7	3,2	3,7	PIW 0120 0165 032 Bo
12,0	18,0	+0.070/0	14,5	3,6	4,0	PIW 0120 0180 036 Bo
12,0	20,0	+0.084/0	16,0	3,2	3,7	PIW 0120 0200 032 Bo
12,0	20,0	+0.084/0	16,0	4,5	5,0	PIW 0120 0200 045 Bo
12,0	20,0	+0.084/0	16,0	5,0	5,5	PIW 0120 0200 050 Bo
12,0	22,0	+0.084/0	16,0	5,0	6,0	PIW 0120 0220 050 Bo
14,0	18,5	+0.084/0	15,7	3,2	3,7	PIW 0140 0185 032 Bo
14,0	20,0	+0.084/0	16,5	3,6	4,0	PIW 0140 0200 036 Bo
14,0	22,0	+0.084/0	18,0	4,5	5,0	PIW 0140 0220 045 Bo
14,0	24,0	+0.084/0	18,0	5,0	6,0	PIW 0140 0240 050 Bo
16,0	20,5	+0.084/0	17,7	3,2	3,7	PIW 0160 0205 032 Bo
16,0	22,0	+0.084/0	18,5	3,6	4,0	PIW 0160 0220 036 Bo
16,0	24,0	+0.084/0	18,5	4,5	5,0	PIW 0160 0240 045 Bo
16,0	26,0	+0.084/0	20,0	5,0	6,0	PIW 0160 0260 050 Bo
18,0	22,5	+0.084/0	19,7	3,2	3,7	PIW 0180 0225 032 Bo
18,0	24,0	+0.084/0	20,5	3,6	4,0	PIW 0180 0240 036 Bo
18,0	26,0	+0.084/0	21,0	4,5	5,0	PIW 0180 0260 045 Bo

d_{f9}	D_{H10}	Toll H10	D_1	h	$E_{+0,2}$	ART / *ITEM*
18,0	28,0	+0.084/0	22,0	5,0	6,0	PIW 0180 0280 050 Bo
20,0	25,0	+0.084/0	21,9	3,6	4,0	PIW 0200 0250 036 Bo
20,0	26,0	+0.084/0	22,5	3,6	4,0	PIW 0200 0260 036 Bo
20,0	30,0	+0.084/0	24,0	6,0	7,0	PIW 0200 0300 060 Bo
22,0	27,0	+0.084/0	23,9	3,6	4,0	PIW 0220 0270 036 Bo
22,0	29,0	+0.084/0	24,5	4,3	5,0	PIW 0220 0290 036 Bo
22,0	28,0	+0.084/0	24,5	3,6	4,0	PIW 0220 0280 036 Bo
22,0	32,0	+0.084/0	26,0	6,0	7,0	PIW 0220 0320 060 Bo
25,0	30,0	+0.084/0	26,9	3,6	4,0	PIW 0250 0300 036 Bo
25,0	31,0	+0.100/0	27,5	3,6	4,0	PIW 0250 0310 036 Bo
25,0	35,0	+0.100/0	29,0	6,0	7,0	PIW 0250 0350 060 Bo
28,0	38,0	+0.100/0	32,0	6,0	7,0	PIW 0280 0380 060 Bo
30,0	35,5	+0.100/0	32,1	3,9	4,5	PIW 0300 0355 039 Bo
30,0	38,0	+0.100/0	33,0	4,5	5,0	PIW 0300 0380 045 Bo
30,0	40,0	+0.100/0	34,0	6,0	7,0	PIW 0300 0400 060 Bo
32,0	37,5	+0.100/0	34,1	3,9	4,5	PIW 0320 0375 039 Bo
32,0	40,0	+0.100/0	35,0	4,5	5,0	PIW 0320 0400 045 Bo
32,0	42,0	+0.100/0	36,0	6,0	7,0	PIW 0320 0420 060 Bo
35,0	45,0	+0.100/0	39,0	6,0	7,0	PIW 0350 0450 060 Bo
36,0	44,0	+0.100/0	39,0	4,5	5,0	PIW 0360 0440 045 Bo
36,0	46,0	+0.100/0	40,0	6,0	7,0	PIW 0360 0460 060 Bo
40,0	46,0	+0.100/0	43,0	4,3	4,8	PIW 0400 0460 043 Bo
40,0	50,0	+0.100/0	44,0	6,0	7,0	PIW 0400 0500 060 Bo
45,0	53,0	+0.120/0	48,0	4,5	5,0	PIW 0450 0530 045 Bo
45,0	55,0	+0.120/0	49,0	6,0	7,0	PIW 0450 0550 060 Bo
50,0	62,0	+0.120/0	55,0	7,5	8,5	PIW 0500 0620 075 Bo

Nota: altre dimensioni non a catalogo a richiesta. Consultare il nostro ufficio tecnico.

Remark: please contact our technical dept. for further dimensions not included in the catalogue.