

## KDSB

### TENUTA PISTONE COMPATTA TIPO KDSB

#### Descrizione

La tenuta pistone compatta tipo KDSB è costituita da un elemento centrale in gomma nitrilica che esercita la funzione di tenuta, da due supporti laterali all'elemento in gomma che agiscono da anelli antiestrusione e da due guide esterne che mantengono in guida il pistone nel cilindro.

#### Dati tecnici

Pressione: da 0 a 300 bar con punte fino a 400 bar a 60 °C  
 Velocità: < 0.5 m/s  
 Temperatura: da - 30 °C a +100 °C  
 Fluidi: oli a base minerale  
 (vedi tabella 1 a pagina 12)

#### Materiale

I materiali utilizzati per la costruzione di questo tipo di tenuta sono i seguenti:

- L'elemento centrale è in NBR con durezza 70 Shore A  $\pm$  3
- I supporti laterali sono in elastomero termoplastico (TPE)
- Le guide esterne sono in resina poliacetalica (POM)

Codice materiale standard: CX

#### Montaggio

Il montaggio di questa tenuta può essere eseguito sia in cava chiusa su pistone monoblocco, sia in cava aperta su pistone in due pezzi.

L'ordine del montaggio deve essere il seguente:

- Elemento in gomma;
- Supporti;
- Guide.

E' necessario che il pistone non presenti bave di lavorazione meccanica che danneggerebbero l'elemento in gomma durante il montaggio.

### KDSB TYPE COMPACT PISTON SEAL

#### Description

The KDSB compact seal is made of a central unit in NBR working as a seal, two side supports, working as anti-extrusion ring, and two external guide rings, keeping aligned the piston in the cylinder.

#### Technical data

Pressure: from 0 to 300 bar with peaks till 400 bar at 60°C  
 Speed: < 0.5 m/s  
 Temperature: from - 30 °C at +100 °C  
 Fluids: Mineral oils  
 (see table 1, page 12)

#### Material

The compounds used to manufacture this seal type are the following:

- The central units is made of NBR, the hardness is 70 Shore A  $\pm$  3
- The sides support are made of a thermoplastic elastomer (TPE)
- The external wear rings are made of polyacetalic resin (POM)

Compound reference: CX

#### Assembling

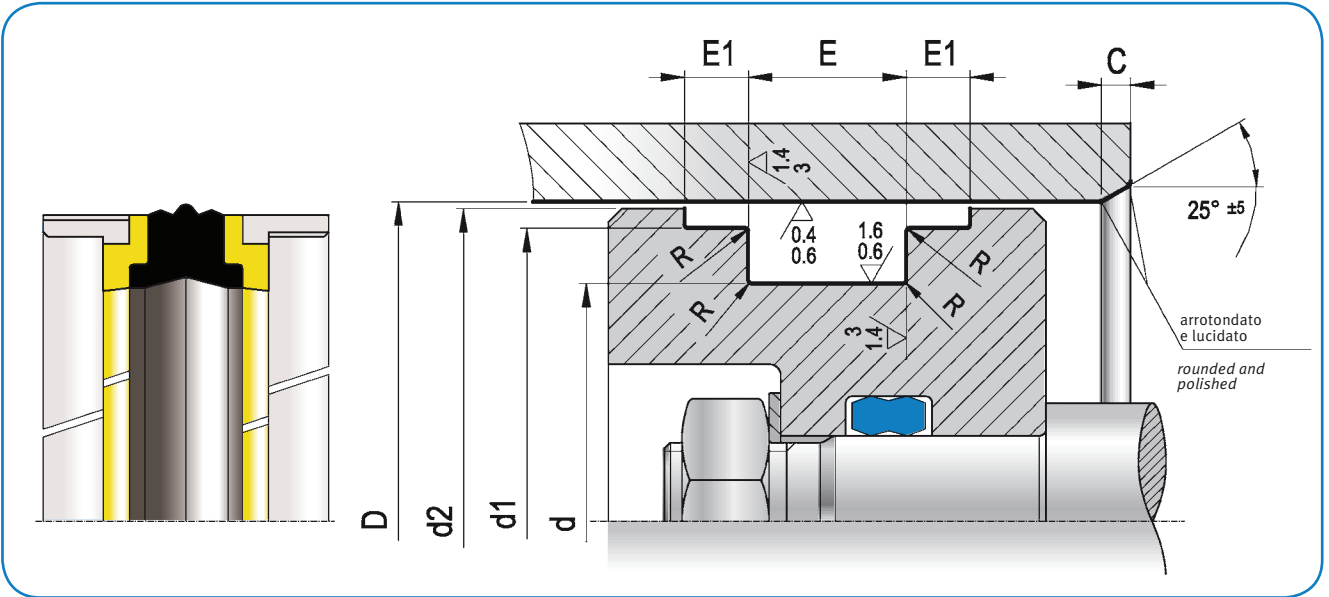
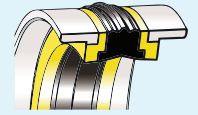
The assembling of this seal can be carried out in either closed groove in a mono-block piston, or in open groove in a two-parts piston.

The assembling has to be done as follows:

- Rubber element;
- Supports;
- Wear rings.

Avoid machining scores on the piston which may damage the rubber unit during the installation.

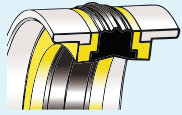
# KDSB



PSA  
PAE  
PSH  
RR  
PSO  
PSQ  
TPD  
KDSA  
**KDSB**  
KDSP  
KDAE

D <sub>H9</sub>	d <sub>H9</sub>	E <sub>+0,2</sub>	d <sub>1H9</sub>	d <sub>2±0,2</sub>	E <sub>1 0/+0,1</sub>	R	C	ART / ITEM
20,0	11,0	13,5	17,00	19,0	2,10	0,4	3,5	KDSB 0200 0110 135 CX
22,0	13,0	13,5	19,00	21,0	2,10	0,4	3,5	KDSB 0220 0130 135 CX
25,0	15,0	12,0	21,00	23,0	4,00	0,4	3,5	KDSB 0250 0150 120 CX
25,0	15,0	12,5	22,00	24,0	4,00	0,4	3,5	KDSB 0250 0150 125 CX
25,0	15,0	16,4	21,45	23,5	6,35	0,4	3,5	KDSB 0250 0150 164 CX
25,0	16,0	13,5	22,00	24,0	2,10	0,4	3,5	KDSB 0250 0160 135 CX
28,0	19,0	13,5	25,00	27,0	2,10	0,4	3,5	KDSB 0280 0190 135 CX
30,0	21,0	13,5	27,00	29,0	2,10	0,4	3,5	KDSB 0300 0210 135 CX
32,0	22,0	15,5	28,00	31,0	2,60	0,4	3,5	KDSB 0320 0220 155 CX
32,0	22,0	16,4	28,50	30,5	6,35	0,4	3,5	KDSB 0320 0220 164 CX
35,0	25,0	15,5	31,00	34,0	2,60	0,4	3,5	KDSB 0350 0250 155 CX
35,0	25,0	16,4	31,40	33,5	6,35	0,4	3,5	KDSB 0350 0250 164 CX
40,0	24,0	18,4	35,40	38,5	6,35	0,4	4,0	KDSB 0400 0240 184 CX
40,0	26,0	15,5	36,00	39,0	2,60	0,4	4,0	KDSB 0400 0260 155 CX
40,0	30,0	12,5	36,00	38,0	4,00	0,4	4,0	KDSB 0400 0300 125 CX
40,0	30,0	16,4	35,40	38,5	6,35	0,4	4,0	KDSB 0400 0300 164 CX
42,0	28,0	15,5	38,00	41,0	2,60	0,4	4,0	KDSB 0420 0280 155 CX
45,0	29,0	18,4	40,40	43,5	6,35	0,4	4,0	KDSB 0450 0290 184 CX
45,0	31,0	15,5	41,00	44,0	2,60	0,4	4,0	KDSB 0450 0310 155 CX
45,0	35,0	16,4	40,40	43,5	6,35	0,4	4,0	KDSB 0450 0350 164 CX
50,0	34,0	18,4	45,40	48,5	6,35	0,4	4,0	KDSB 0500 0340 184 CX
50,0	34,0	20,5	46,00	49,0	3,10	0,4	4,0	KDSB 0500 0340 205 CX
55,0	39,0	18,4	50,36	53,5	6,35	0,4	4,0	KDSB 0550 0390 184 CX
55,0	39,0	20,5	51,00	54,0	3,10	0,4	4,0	KDSB 0550 0390 205 CX
56,0	40,0	20,5	52,00	55,0	3,10	0,4	4,0	KDSB 0560 0400 205 CX
60,0	44,0	18,4	55,40	58,5	6,35	0,4	4,5	KDSB 0600 0440 184 CX
60,0	44,0	20,5	56,00	59,0	3,10	0,4	4,5	KDSB 0600 0440 205 CX

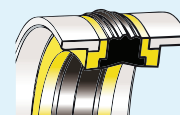
OLEODINAMICA  
HYDRAULIC



## KDSB

D <sub>H9</sub>	d <sub>H9</sub>	E <sub>+0,2</sub>	d <sub>1H9</sub>	d <sub>2±0,2</sub>	E <sub>1 0/+0,1</sub>	R	C	ART / ITEM
63,0	47,0	18,4	58,40	61,5	6,35	0,4	4,5	KDSB 0630 0470 184 CX
63,0	47,0	19,4	58,40	61,5	6,35	0,4	4,5	KDSB 0630 0470 194 CX
63,0	47,0	20,5	59,00	62,0	3,10	0,4	4,5	KDSB 0630 0470 205 CX
65,0	49,0	20,5	61,00	64,0	3,10	0,4	4,5	KDSB 0650 0490 205 CX
65,0	50,0	18,4	60,40	63,5	6,35	0,4	4,5	KDSB 0650 0500 184 CX
70,0	50,0	22,4	64,20	68,3	6,35	0,4	4,5	KDSB 0700 0500 224 CX
70,0	54,0	20,5	66,00	69,0	3,10	0,4	4,5	KDSB 0700 0540 205 CX
75,0	55,0	22,4	69,20	73,3	6,35	0,4	4,5	KDSB 0750 0550 224 CX
75,0	59,0	20,5	71,00	74,0	3,10	0,4	4,5	KDSB 0750 0590 205 CX
80,0	60,0	22,4	74,15	78,3	6,35	0,4	4,5	KDSB 0800 0600 224 CX
80,0	62,0	22,5	76,00	79,0	3,60	0,4	4,5	KDSB 0800 0620 225 CX
85,0	65,0	22,4	79,15	83,3	6,35	0,4	4,5	KDSB 0850 0650 224 CX
90,0	70,0	22,4	84,15	88,3	6,35	0,4	4,5	KDSB 0900 0700 224 CX
90,0	72,0	22,5	86,00	89,0	3,60	0,4	4,5	KDSB 0900 0720 225 CX
95,0	75,0	22,4	89,15	93,3	6,35	0,4	4,5	KDSB 0950 0750 224 CX
100,0	75,0	22,4	93,15	98,0	6,35	0,4	5,0	KDSB 1000 0750 224 CX
100,0	82,0	22,5	96,00	99,0	3,60	0,4	5,0	KDSB 1000 0820 225 CX
105,0	80,0	22,4	98,10	103,0	6,35	0,4	5,0	KDSB 1050 0800 224 CX
110,0	85,0	22,4	103,10	108,0	6,35	0,4	5,0	KDSB 1100 0850 224 CX
110,0	92,0	22,5	106,00	109,0	3,60	0,4	5,0	KDSB 1100 0920 225 CX
115,0	90,0	22,4	108,10	113,0	6,35	0,4	5,0	KDSB 1150 0900 224 CX
115,0	97,0	22,5	111,00	114,0	3,60	0,4	5,0	KDSB 1150 0970 225 CX
120,0	95,0	22,4	113,10	118,1	6,35	0,8	5,0	KDSB 1200 0950 224 CX
125,0	100,0	25,4	118,10	123,0	6,35	0,8	5,0	KDSB 1250 1000 254 CX
125,0	103,0	26,5	121,00	124,0	5,10	0,8	5,0	KDSB 1250 1030 265 CX
130,0	105,0	25,4	122,60	127,5	9,50	0,8	5,0	KDSB 1300 1050 254 CX
130,0	105,0	25,4	123,10	128,0	6,35	0,8	5,0	KDSB1 1300 1050 254 CX
135,0	110,0	25,4	127,60	132,5	9,50	0,8	5,0	KDSB 1350 1100 254 CX
135,0	110,0	25,4	128,10	133,0	6,35	0,8	5,0	KDSB1 1350 1100 254 CX
140,0	115,0	25,4	132,60	137,5	9,50	0,8	5,0	KDSB 1400 1150 254 CX
140,0	115,0	25,4	133,00	138,0	6,35	0,8	5,0	KDSB1 1400 1150 254 CX
140,0	118,0	26,5	136,00	139,0	5,10	0,8	5,0	KDSB 1400 1180 265 CX
145,0	120,0	25,4	137,60	142,5	9,50	0,8	5,0	KDSB 1450 1200 254 CX
145,0	120,0	25,4	138,30	143,0	6,35	0,8	5,0	KDSB1 1450 1200 254 CX
150,0	125,0	25,4	142,60	147,5	9,50	0,8	5,0	KDSB 1500 1250 254 CX
150,0	125,0	25,4	143,00	148,0	6,35	0,8	5,0	KDSB1 1500 1250 254 CX
150,0	128,0	26,5	146,00	149,0	5,10	0,8	5,0	KDSB 1500 1280 265 CX
155,0	130,0	25,4	147,60	152,5	9,50	0,8	5,0	KDSB 1550 1300 254 CX
155,0	130,0	25,4	148,00	153,0	6,35	0,8	5,0	KDSB1 1550 1300 254 CX
160,0	130,0	25,4	153,00	157,5	6,35	0,8	5,0	KDSB1 1600 1300 254 CX
160,0	130,0	25,4	152,60	157,5	9,50	0,8	5,0	KDSB 1600 1300 254 CX
160,0	135,0	25,4	152,60	157,5	9,50	0,8	5,0	KDSB 1600 1350 254 CX
160,0	138,0	26,5	156,00	159,0	5,10	0,8	5,0	KDSB 1600 1380 265 CX
165,0	140,0	25,4	157,60	162,5	9,50	0,8	5,0	KDSB 1650 1400 254 CX
170,0	145,0	25,4	161,70	167,1	12,70	0,8	5,0	KDSB 1700 1450 254 CX

## KDSB



D <sub>Hg</sub>	d <sub>hg</sub>	E <sub>+0,2</sub>	d <sub>1hg</sub>	d <sub>2±0,2</sub>	E <sub>1 0/+0,1</sub>	R	C	ART / ITEM
170,0	148,0	26,5	166,00	169,0	5,10	0,8	5,0	KDSB 1700 1480 265 CX
175,0	150,0	25,4	166,70	172,1	12,70	0,8	5,0	KDSB 1750 1500 254 CX
180,0	150,0	35,4	172,95	177,9	6,35	0,8	5,0	KDSB 1800 1500 354 CX
180,0	155,0	25,4	171,70	177,1	12,70	0,8	5,0	KDSB 1800 1550 254 CX
185,0	160,0	25,4	176,70	182,1	12,70	0,8	5,0	KDSB 1850 1600 254 CX
190,0	165,0	25,4	181,70	187,0	12,70	0,8	5,0	KDSB 1900 1650 254 CX
195,0	170,0	25,4	186,70	192,0	12,70	0,8	5,0	KDSB 1950 1700 254 CX
200,0	175,0	25,4	191,60	197,0	12,70	0,8	6,0	KDSB 2000 1750 254 CX
210,0	185,0	25,4	201,60	207,0	12,70	0,8	6,0	KDSB 2100 1850 254 CX
220,0	190,0	35,4	212,70	217,9	6,35	0,8	6,0	KDSB 2200 1900 354 CX
220,0	195,0	25,4	211,60	217,0	12,70	0,8	6,0	KDSB 2200 1950 254 CX
230,0	205,0	25,4	221,60	227,0	12,70	0,8	6,0	KDSB 2300 2050 254 CX
240,0	215,0	25,4	231,60	237,0	12,70	0,8	6,0	KDSB 2400 2150 254 CX
250,0	220,0	35,4	242,90	247,9	6,35	0,8	6,0	KDSB 2500 2200 354 CX
250,0	225,0	25,4	241,60	247,0	12,70	0,8	6,0	KDSB 2500 2250 254 CX

PSA  
PAE  
PSH  
RR  
PSO  
PSQ  
TPD  
KDSA  
**KDSB**  
KDSP  
KDAE

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.