

Chevron set type DVSS

Type DVSS is a seven piece single acting sealing set which consists of one reinforced cotton fabric backup ring , one thermoplastic header ring , three reinforced cotton fabric middle rings , and two elastomeric nitrile rubber middle rings.



Characteristics

Type: DVSS

Max. operating pressure: 400 bar

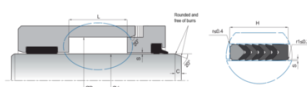
Maximum speed: 0.5 m/s

Application

- Used especially in hard working conditions such as iron and steel industry , mining equipment , marine hydraulics , scrap cutters and special cylinders where the actual conditions are difficult to predict.

Technical Information

- Adjustable seal housing height due to the reason of being used in open grooves.
- Functions even with poor surfaces
- Robust seal
- Easy installation and removal
- Long service life
- Able to work until the maintenance of continuity systems because of the adjustable housing
- Very good sealing performance both in high and low pressures



Operating Principle

- Being assembled in adjustable housing , the groove housing should have an adjustability of 7.5% of the seal height. If there is a requirement of being used in closed housings , individual parts should be cut with 45° angle and staggered by 75° angle at installation. When strongly squeezed , the flexibility of the sealing set may be substantially reduced. This could cause excessive friction force , high wear and vibrated operating under low pressures. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation all individual parts of the seal must be oiled with system oil.

Options

- For special applications that require high temperatures , our seal set is being manufactured in the following configuration , reinforced cotton fabric with FKM for header and middle rings and special mixture of PTFE backup ring. Permissible sealing gap S value should not be above 0.15 mm. For inner diameters above 200 mm , all the middle rings are being produced from reinforced cotton fabric with NBR material. Additional middle rings can be used depending on the application.

MEDIA	OPERATING CONDITIONS		
	Mineral oils (DIN 51524)	HFA and HFB	HFC
TEMPERATURE	from -30°C till +105°C	from +5°C till +60°C	from -30°C till +60°C
PRESSURE	max. 400 Bar	max. 400 Bar	max. 400 Bar
SPEED	max. 0.5 m/s	max. 0.5 m/s	max. 0.5 m/s
Note: The above data are maximum values and cannot be used at the same time.			

SURFACE ROUGHNESS	Ra	Rmax
Sliding Surface	max. 0.4 µm	3.2 µm
Groove Base	max. 1.6 µm	6.3 µm
Groove Flanks	max. 3.2 µm	16 µm
Note: It is recommended to have 50% to 90% of the working surface material contact area value.		

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Rod diameter	Groove diameter	Groove width	Seal height	Material seal	Temperature range	Article
mm	mm	mm	mm		°C	
8	18	18.5	18.5	NBR/fabric	-30 / 100	14193627
10	20	18.5	18.5	NBR/fabric	-30 / 100	12342743
12	22	18.5	18.5	NBR/fabric	-30 / 100	14193628
13.5	25	16.5	16.5	NBR/fabric	-30 / 100	14193629
14	24	18.5	18.5	NBR/fabric	-30 / 100	10019331
15	25	18.5	18.5	NBR/fabric	-30 / 100	10019332
15	32	25	25	NBR/fabric	-30 / 100	14193630
16	26	18.5	18.5	NBR/fabric	-30 / 100	10019333
18	28	18.5	18.5	NBR/fabric	-30 / 100	11531392
18	32	23.5	23.5	NBR/fabric	-30 / 100	14193631
20	30	18.5	18.5	NBR/fabric	-30 / 100	14193632
20	32	22.5	22.5	NBR/fabric	-30 / 100	14193633
22	32	18.5	18.5	NBR/fabric	-30 / 100	14193634
22	34	22.5	22.5	NBR/fabric	-30 / 100	10019367
25	37	22.5	22.5	NBR/fabric	-30 / 100	14193635
25	40	22.5	22.5	NBR/fabric	-30 / 100	10019368
28	40	22.5	22.5	NBR/fabric	-30 / 100	14193636
28	43	22.5	22.5	NBR/fabric	-30 / 100	14193637
30	42	22.5	22.5	NBR/fabric	-30 / 100	12495064
30	45	22.5	22.5	NBR/fabric	-30 / 100	10019370
30	50	37	37	NBR/fabric	-30 / 100	14193638
32	44	22.5	22.5	NBR/fabric	-30 / 100	14193639
32	45	22.5	22.5	NBR/fabric	-30 / 100	14193641
32	47	22.5	22.5	NBR/fabric	-30 / 100	14193640
35	47	22.5	22.5	NBR/fabric	-30 / 100	12225697
35	50	22.5	22.5	NBR/fabric	-30 / 100	10019372
36	48	22.5	22.5	NBR/fabric	-30 / 100	12961523
36	51	22.5	22.5	NBR/fabric	-30 / 100	10019373
40	52	22.5	22.5	NBR/fabric	-30 / 100	14193642
40	55	22.5	22.5	NBR/fabric	-30 / 100	14193643
40	55	25	25	NBR/fabric	-30 / 100	14193644
40	56	22.5	22.5	NBR/fabric	-30 / 100	14193645
42	54	22.5	22.5	NBR/fabric	-30 / 100	10019344
42	57	22.5	22.5	NBR/fabric	-30 / 100	10019375
45	55	22	22	NBR/fabric	-30 / 100	14193647
45	60	22.5	22.5	NBR/fabric	-30 / 100	13275413
45	62	26	26	NBR/fabric	-30 / 100	14193648
45	65	22.5	22.5	NBR/fabric	-30 / 100	14193646
47	65	33	33	NBR/fabric	-30 / 100	14193649
48	63	22.5	22.5	NBR/fabric	-30 / 100	14193650
50	65	22.5	22.5	NBR/fabric	-30 / 100	14193651
50	70	30	30	NBR/fabric	-30 / 100	10019377
55	67	24	24	NBR/fabric	-30 / 100	14193653
55	70	22.5	22.5	NBR/fabric	-30 / 100	14193652
55	75	30	30	NBR/fabric	-30 / 100	10019378
56	71	22.5	22.5	NBR/fabric	-30 / 100	12961524
56	72	46	46	NBR/fabric	-30 / 100	14193654
56	76	37	37	NBR/fabric	-30 / 100	10019379
60	75	22.5	22.5	NBR/fabric	-30 / 100	14193655
60	80	37	37	NBR/fabric	-30 / 100	10019380
60	85	37	37	NBR/fabric	-30 / 100	14193656
63	78	22.5	22.5	NBR/fabric	-30 / 100	10019350
63	83	37	37	NBR/fabric	-30 / 100	14193657

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mm	mm	mm	mm		°C	
63.5	78	40	40	NBR/fabric	-30 / 100	14193658
65	80	22.5	22.5	NBR/fabric	-30 / 100	14193659
65	85	40	40	NBR/fabric	-30 / 100	14193660
70	85	22.5	22.5	NBR/fabric	-30 / 100	14193661
70	90	40	40	NBR/fabric	-30 / 100	10019383
75	87	25	25	NBR/fabric	-30 / 100	14193663
75	90	22.5	22.5	NBR/fabric	-30 / 100	10019353
75	95	40	40	NBR/fabric	-30 / 100	14193662
75	100	34	34	NBR/fabric	-30 / 100	14193664
78	100	35	35	NBR/fabric	-30 / 100	14193665
80	95	22.5	22.5	NBR/fabric	-30 / 100	12961525
80	100	40	40	NBR/fabric	-30 / 100	14193666
85	95	22.5	22.5	NBR/fabric	-30 / 100	14193667
85	100	22.5	22.5	NBR/fabric	-30 / 100	10019355
85	105	40	40	NBR/fabric	-30 / 100	12992098
90	105	22.5	22.5	NBR/fabric	-30 / 100	12961526
90	110	22.5	22.5	NBR/fabric	-30 / 100	14193669
90	110	26	26	NBR/fabric	-30 / 100	14193668
90	110	40	40	NBR/fabric	-30 / 100	12702284
95	120	50	50	NBR/fabric	-30 / 100	14193670
100	115	30	30	NBR/fabric	-30 / 100	12961518
100	120	40	40	NBR/fabric	-30 / 100	14193671
105	120	30	30	NBR/fabric	-30 / 100	14193672
105	125	40	40	NBR/fabric	-30 / 100	14193673
105	130	40	40	NBR/fabric	-30 / 100	14193674
110	125	30	30	NBR/fabric	-30 / 100	14193675
110	130	40	40	NBR/fabric	-30 / 100	11263187
115	130	30	30	NBR/fabric	-30 / 100	12764795
115	135	30	30	NBR/fabric	-30 / 100	14193677
115	140	46	46	NBR/fabric	-30 / 100	14193676
120	140	49	49	NBR/fabric	-30 / 100	14193678
120	145	46	46	NBR/fabric	-30 / 100	14193679
125	140	34	34	NBR/fabric	-30 / 100	14193680
125	150	46	46	NBR/fabric	-30 / 100	14193681
130	155	42.5	42.5	NBR/fabric	-30 / 100	14193682
135	160	40	40	NBR/fabric	-30 / 100	14193684
135	160	55	55	NBR/fabric	-30 / 100	14193683
140	155	34	34	NBR/fabric	-30 / 100	12961519
140	160	32	32	NBR/fabric	-30 / 100	14193686
140	165	46	46	NBR/fabric	-30 / 100	14193685
140	170	60	60	NBR/fabric	-30 / 100	14193687
150	170	40	40	NBR/fabric	-30 / 100	12399254
150	180	60	60	NBR/fabric	-30 / 100	14193688
160	175	34	34	NBR/fabric	-30 / 100	14193690
160	180	40	40	NBR/fabric	-30 / 100	14193626
160	190	60	60	NBR/fabric	-30 / 100	14193689
165	195	50.5	50.5	NBR/fabric	-30 / 100	11269828
170	190	40	40	NBR/fabric	-30 / 100	14193691
180	200	40	40	NBR/fabric	-30 / 100	14193692
180	210	60	60	NBR/fabric	-30 / 100	14193693
190	220	42	42	NBR/fabric	-30 / 100	14193694
200	220	40	40	NBR/fabric	-30 / 100	14193695
200	230	60	60	NBR/fabric	-30 / 100	14193696

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mm	mm	mm	mm		°C	
210	240	50	50	NBR/fabric	-30 / 100	14193697
215	245	41	41	NBR/fabric	-30 / 100	14193698
220	240	40	40	NBR/fabric	-30 / 100	14193699
230	260	58	58	NBR/fabric	-30 / 100	14193700
240	260	46	46	NBR/fabric	-30 / 100	14193702
240	270	60	60	NBR/fabric	-30 / 100	14193701
250	270	42	42	NBR/fabric	-30 / 100	14193703
260	290	60	60	NBR/fabric	-30 / 100	14193704
300	330	60	60	NBR/fabric	-30 / 100	14193705
310	340	60	60	NBR/fabric	-30 / 100	14193706
320	350	60	60	NBR/fabric	-30 / 100	14193707
320	360	46	46	NBR/fabric	-30 / 100	14193708
330	360	60	60	NBR/fabric	-30 / 100	14193709
360	390	60	60	NBR/fabric	-30 / 100	13305455
360	400	55	55	NBR/fabric	-30 / 100	14193710
370	400	55	55	NBR/fabric	-30 / 100	14193711
400	430	46	46	NBR/fabric	-30 / 100	14193713
400	440	65	65	NBR/fabric	-30 / 100	14193712
420	460	80	80	NBR/fabric	-30 / 100	11941265
440	480	68	68	NBR/fabric	-30 / 100	14193714
450	490	65	65	NBR/fabric	-30 / 100	14193715

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