	Додатне информације и појашњења	Ознака формулара	QF-G-029
		Број страна	1/1

ЈАВНО ПРЕДУЗЕЋЕ „ЕЛЕКТРОПРИВРЕДА СРБИЈЕ“ БЕОГРАД
ЕЛЕКТРОПРИВРЕДА СРБИЈЕ ЈП БЕОГРАД-ОГРАНАК ТЕ-КО КОСТОЛАЦ
Улица: Николе Тесле број: 5-7
Број: Е.05.01 - 370631/11-19
Костолац
(место и датум)

На основу члана 54. и 63. Закона о јавним набавкама („Службени гласник РС”, бр. 124/12, 14/15 и 68/15), Комисија за јавну набавку број 3100/0073/2019, за набавку добара семеринзи О прстенови на захтев заинтересованог лица, даје

ДОДАТНЕ ИНФОРМАЦИЈЕ ИЛИ ПОЈАШЊЕЊА
У ВЕЗИ СА ПРИПРЕМАЊЕМ ПОНУДЕ
Бр.3.

Пет и више дана пре истека рока предвиђеног за подношење понуда, заинтересовано лице је у писаном облику од наручиоца тражило додатне информације односно појашњења а Наручилац у року од три дана од дана пријема захтева **обајављује на Порталу јавних набавки и интернет страници Наручиоца**, следеће информације, односно појашњења:

Сходно конкурсној документацији по ЈН 3100/0073/2019 молимо Вас да нам доставите додатна појашњења за позиције:

ПИТАЊЕ бр.1. PRSTEN LAMELASTI ZAPTIVNI ULAZNOG VRATILA REDUKTOR RADNOG TOČKA PBUC-28 FLENDER SET – FK 3 AS 150 x 138 x 1,5 KAT.BR.135 SRS-470 x 17/1,5

Потребан је фабрички број редуктора да би се тачно одредила заптивка.

ОДГОВОР 1: Тражени фабрички број редуктора је No 4389880 – 0050 – 1. Приложени цртежи дефинишу тражени сет као стандардну робу произвођача. Фабрички број редуктора нема никакве везе са траженим сетом.

КОМИСИЈА

Славољуб Стокић

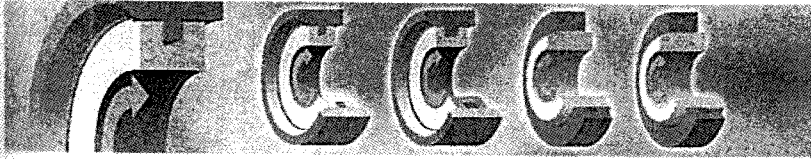




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FK3 - Single-wound laminar sealing rings

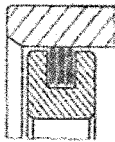


FK3 laminar rings are single-wound steel sealing rings. They are used as a grease seal for roller bearings and bearing bushes, for example. When greased, they protect against dust and moisture. The sealing effect of the combined "FK3 ASK" and "FK3 ISK" sets (additional seal through additional rings which seal against the groove diameter) is optimised by the enhanced labyrinth effect.

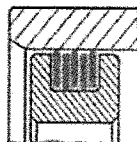
The externally tensioned sets "FK3 AS" and "FK3 ASK" are usually preferred over the internally tensioned sets "FK3 IS" and "FK3 ISK". The reason is that they are easier to install and allow higher admissible speeds. Depending on the application and technical requirements, the ring holders can be made in steel, cast iron or plastic.

Types

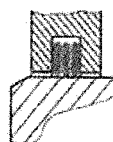
Implementation	Description
FK3 AS	Single-wound laminar ring, externally tensioned Seal on the housing with groove in the shaft 1 set consists of 3 rings
FK3 ASK	Single-wound laminar rings, externally and internally tensioned Seal on the housing with groove in the shaft 1 set consists of 3 externally tensioned and 2 internally tensioned rings
FK3 IS	Single-wound laminar ring, internally tensioned Seal on the shaft with a groove in the housing 1 set consists of 3 rings
FK3 ISK	Single-wound laminar rings, internally and externally tensioned Seal on the shaft with a groove in the housing 1 set consists of 3 internally tensioned and 2 externally tensioned rings



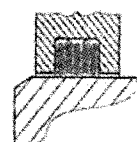
FK3-AS



FK3-ASK



FK3-IS



FK3-ISK

Materials

Material	Temperature	Surface treatment	Colour
1748	DIN 1.0605 max. +300°C	oiled	varying ¹⁾
0906	DIN 1.1221 max. +300°C	oiled	varying ¹⁾
06144	DIN 1.8159 max. +400°C	oiled	varying ¹⁾
0906	DIN 1.4310 max. +450°C	bright and dry	varying ¹⁾

¹⁾ The colour of the laminar rings may vary between silver, light brown and black as a result of the heat treatment.



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Sealing Rings

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[FK3 Single Wound](#)

[FK6 Double Wound](#)

[FK5 / FK5-HFL](#)

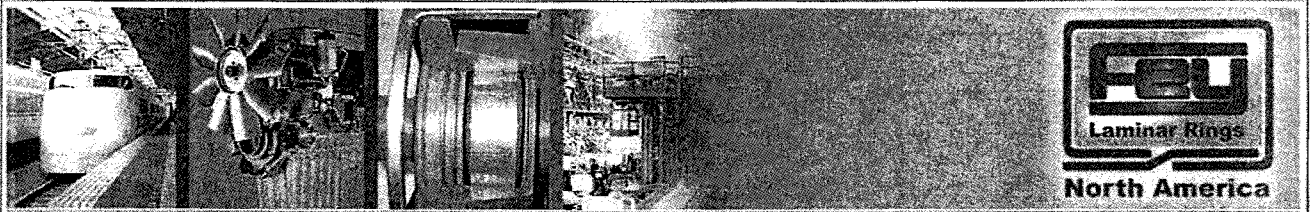
Sealing Rings Material Table

Steel Type	Spring Resistant Up To	Hardness	Surface Treatment	Surface Protection	Surface Color	Available for Series
C75S - DIN 1.0605	max +300°C	on request ¹⁾	-	oiled	variable ²⁾	FK2, FK3, FK4, FK6, FK7, FK8 ³⁾
C88E - DIN 1.1221	max +300°C	on request ¹⁾	-	oiled	variable ²⁾	FK2, FK3, FK4, FK6, FK7
50CrV4 - DIN 1.8159	max +400°C	on request ¹⁾	-	oiled	variable ²⁾	FK2, FK3, FK4, FK6, FK7
CrNi - DIN 1.4310	max +450°C	on request ¹⁾	-	bright and dry	variable ²⁾	FK3, FK6, FK7, FK8 ³⁾
CrNi - DIN 1.4571	max +500°C	on request ¹⁾	vibratory grinding	dry	variable ²⁾	FK5, FK5-HFL, FK8 ³⁾
CrNi - DIN 1.4980	max +700°C	on request ¹⁾	vibratory grinding	dry	variable ²⁾	FK5-HFL

1) Variable depending on the thermal treatment type. Hardness values depending on ring cross section measured in Rockwell HRA or HRC.
 2) The surface color can vary depending on the thermal treatment type: bright, light brown or blackened.
 3) For FK6 series, depending on the requirements, the listed laminar ring materials are available; please include the laminar ring material at your order.

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Sealing Rings

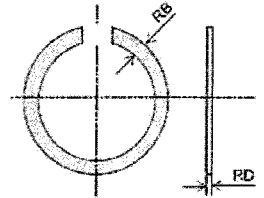
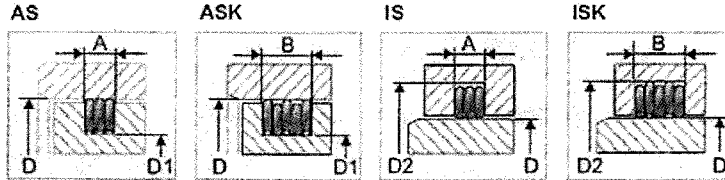
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[FK3 Single Wound](#)

[FK6 Double Wound](#)

[FK5 / FK5-HFL](#)

FK3/FK5 Single Wound Sealing Rings



Bore Shaft D	Ring Dim.		Groove Width		Groove # D1	Groove # D2
	RB	RD	A	B		
15 - 24.9	1.0	0.65	2.2	3.6	D - 2.6	D + 2.6
25 - 29.9	1.2	0.65	2.2	3.6	- 3.0	+ 3.0
30 - 35.9	1.5	0.65	2.2	3.6	- 3.6	+ 3.6
36 - 42.9	1.8	0.65	2.2	3.6	- 4.2	+ 4.2
43 - 48.9	2.2	0.72	2.4	4.0	- 5.0	+ 5.0
49 - 51.9	2.4	0.72	2.4	4.0	- 5.4	+ 5.4
52 - 59.9	2.6	0.72	2.4	4.0	- 5.8	+ 5.8
60 - 69.9	2.8	0.82	2.7	4.5	- 6.2	+ 6.2
70 - 74.9	3.1	0.82	2.7	4.5	- 6.8	+ 6.8
75 - 79.9	3.3	0.82	2.7	4.5	- 7.2	+ 7.2
80 - 89.9	3.5	0.82	2.7	4.5	- 7.6	+ 7.6
90 - 99.9	3.6	0.82	2.7	4.5	- 8.2	+ 8.2
100 - 104.9	4.1	0.82	2.7	4.5	- 8.8	+ 8.8
105 - 109.9	4.3	0.98	3.3	5.5	- 9.2	+ 9.2
110 - 119.9	4.6	0.98	3.3	5.5	- 9.8	+ 9.8
120 - 129.9	5.0	0.98	3.3	5.5	- 10.8	+ 10.8
130 - 149.9	5.5	0.98	3.3	5.5	- 11.8	+ 11.8
150 - 170.9	6.0	1.0	3.4	5.6	- 13.0	+ 13.0
150 - 170.9	*6.0	1.5	5.1	8.2	- 13.0	+ 13.0
171 - 199.9	7.0	1.0	3.4	5.6	- 15.0	+ 15.0
171 - 199.9	*7.0	1.5	5.1	8.2	- 15.0	+ 15.0
200 - 259.9	8.0	1.2	4.1	6.6	- 18.0	+ 18.0
200 - 259.9	*8.0	1.5	5.1	8.2	- 18.0	+ 18.0
260 - 319.9	9.0	1.5	5.1	8.2	- 20.0	+ 20.0
320 - 399.9	10.0	1.5	5.2	8.3	- 22.0	+ 22.0
400 - 439.9	11.0	1.5	5.2	8.3	- 24.0	+ 24.0
440 - 600.9	12.0	1.5	5.2	8.3	- 26.0	+ 26.0
440 - 600.9	*12.0	2.5	8.3	13.5	- 26.0	+ 26.0
601 - 699.9	14.0	2.5	8.3	13.5	- 32.0	+ 32.0
700 - 799.9	16.0	2.5	8.3	13.5	- 36.0	+ 36.0
600 - 699.9	18.0	2.5	8.3	13.5	- 40.0	+ 40.0
500 - 699.9	20.0	2.5	8.3	13.5	- 44.0	+ 44.0
1000 - 1300	22.0	2.5	8.4	13.6	- 48.0	+ 48.0
Bore Shaft D	Ring Dim.		Groove Width		Groove # D1	Groove # D2
	RB	RD	A	B		

Tolerance Table

Axial Movement Considerations

Radial Movement Considerations

How to Specify FK3

How to Specify FK5

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FK3 AS $\phi 150 / \phi 138 \times 1.5$

