

Standard	A				AS			
Simmerring / Oil Seals								
Type	BA...		BAF...		BA...SL		BAF...SL	
Shape								
Compound	NBR 72 NBR 902		FKM 75 FKM 585 75 FKM 260466 75 FKM 595		NBR 72 NBR 902		FKM 75 FKM 585 75 FKM 260466 75 FKM 595	
	 °C: -40, 0, 50, 100, 200 °F: -40, 0, 100, 200, 300, 500		 °C: -40, 0, 50, 100, 200 °F: -40, 0, 100, 200, 300, 500		 °C: -40, 0, 50, 100, 200 °F: -40, 0, 100, 200, 300, 500		 °C: -40, 0, 50, 100, 200 °F: -40, 0, 100, 200, 300, 500	
	 m/s: 0, 10, 20, 30, 40, 50, 60 f/s: 0, 30, 60, 90, 120, 130		 m/s: 0, 10, 20, 30, 40, 50, 60 f/s: 0, 30, 60, 90, 120, 130		 m/s: 0, 5, 10, 20, 30, 40, 50, 60 f/s: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130		 m/s: 0, 5, 10, 20, 30, 40, 50, 60 f/s: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130	
	max. 0,05 MPa max. 7.25 psi		max. 0,02 MPa max. 2.9 psi		max. 0,05 MPa max. 7.25 psi		max. 0,02 MPa max. 2.9 psi	
	Mineral oils < +100 °C	●	●	●	●	●	●	
	Synthetic oils < 80 °C	●	○	●	●	○	●	
	Mineral oils > +100 °C		●			●		
	Synthetic oils > 80 °C		●			●		
	Greases	●	●	●	●	●	●	
	Aggressive Media							
	Normal impact of dirt from the outside				●	●	●	
	Moderate to medium impact of dirt from the outside							
	Large impact of dirt from the outside							
	Foreign bodies on the inside							
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Preferred Applications								

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Wartości zależne od innych danych!
Значения зависят от других параметров!

- = possible usage
- * = possible usage, verification by individual endurance test
- ** = possible usage, verification necessary
- = preferred usage
- +
- +
- B1 = one-piece metal housing

- BAB = operating pressure
- SL = dust lip (v = max. 8 m/s)
- X7 = grooved outer casing
- FUD = sealing lip produced in the tool
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AS		B		BS	
Simmerring / Oil Seals					
BABS L		B1...	B1F...	B1...SL	B1F...SL
NBR 72 NBR 902		NBR 72 NBR 902	NBR 72 NBR 902	NBR 72 NBR 902	NBR 72 NBR 902
FKM 75 FKM 595					
max. 1 MPa max. 145 psi → Fig. 2, page 22		max. 0,05 MPa max. 7.25 psi	max. 0,02 MPa max. 2.9 psi	max. 0,05 MPa max. 7.25 psi	max. 0,02 MPa max. 2.9 psi
○		○	○	○	○
○		○	○	○	○
		●			
		●			
○		○	○	○	○
●		●		●	●
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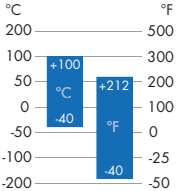
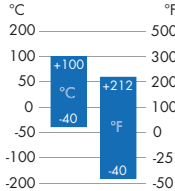
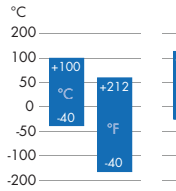
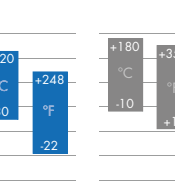
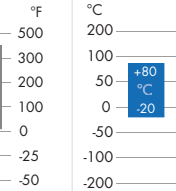
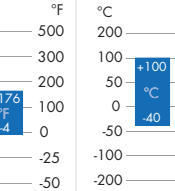
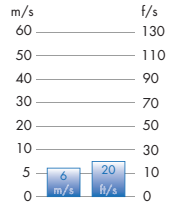
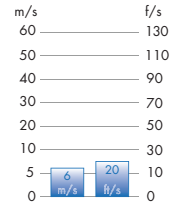
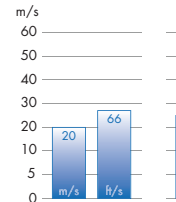
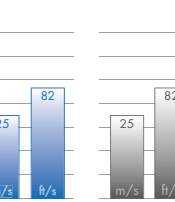
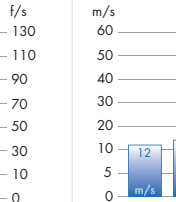
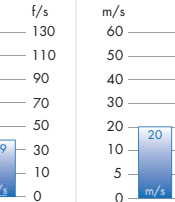





Standard		C		CS		
Simmerring / Oil Seals						
Type		B2...	B2F...	B2...SL	B2F...SL	B2PT
Shape						
Compound		NBR 72 NBR 902	NBR 72 NBR 902	NBR 72 NBR 902	NBR 72 NBR 902	PTFE PTFE10/56101
		 °C: -40 to +100 °F: -40 to +212	 °C: -40 to +100 °F: -40 to +212	 °C: -40 to +100 °F: -40 to +212	 °C: -40 to +100 °F: -40 to +212	 °C: -80 to +200 °F: -112 to +392
	Please refer to the diagram on page 20!	 m/s: 0 to 14 ft/s: 0 to 45	 m/s: 0 to 14 ft/s: 0 to 45	 m/s: 0 to 8 ft/s: 0 to 26	 m/s: 0 to 8 ft/s: 0 to 26	 m/s: 0 to 30 ft/s: 0 to 100
		max. 0,05 MPa max. 7.25 psi	max. 0,02 MPa max. 2.9 psi	max. 0,05 MPa max. 7.25 psi	max. 0,02 MPa max. 2.9 psi	max. 1 MPa max. 145 psi → Fig. 2, page 22
	Mineral oils < +100 °C	○	○	○	○	○
	Synthetic oils < 80 °C	○	○	○	○	○
	Mineral oils > +100 °C					
	Synthetic oils > 80 °C					
	Greases	○	○	○	○	○
	Aggressive Media					●
	Normal impact of dirt from the outside			●	●	
	Moderate to medium impact of dirt from the outside					
	Large impact of dirt from the outside					
	Foreign bodies on the inside					
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Preferred Applications						

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Значения зависят от других параметров!

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- = preferred usage
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A		B		Merkel Radiamatic						
Simmerring / Oil Seals										
BAOF		BTOF		R 35		R 35 Eco	R 35 LD			
										
NBR 72 NBR 902		NBR 72 NBR 902		NBR 80 NBR B241	HNBR 75 HNBR U467	FKM 80 FKM K670	NBR 80 NBR 245565	NBR 80 NBR B241	HNBR 75 HNBR U467	
										
										
-		-		max. 0,05 MPa max. 7.25 psi		max. 0,05 MPa max. 7.25 psi	max. 0,05 MPa max. 7.25 psi			
○		○		●	●	●	●	●	●	
○		○		●	●	●	●	●	●	
				●	●	●	●	●	●	
				●	●	●	●	●	●	
●		●		●	●	●	●	●	●	
				○*	○*	○*	○*	○*	○*	
○		○		●	●	●	●	●	●	
○		○		○**	○**	○**	○**	○**	○**	
58		58		172						
										





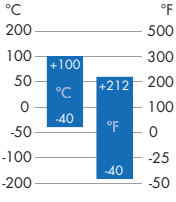
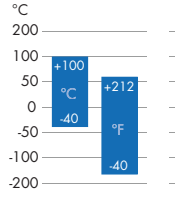
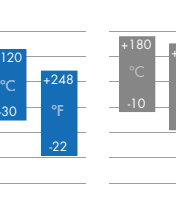
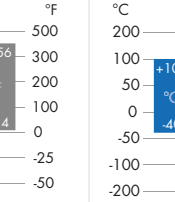
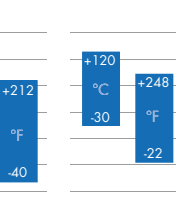
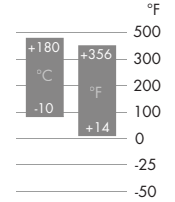
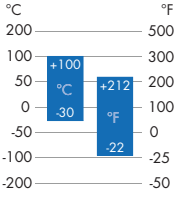
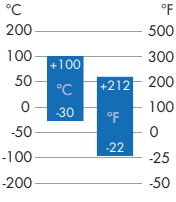
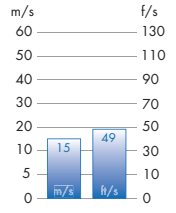
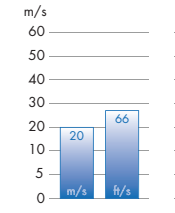
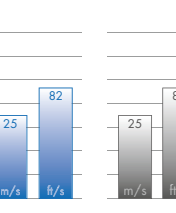
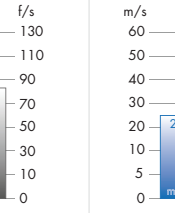
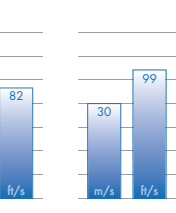
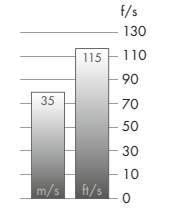
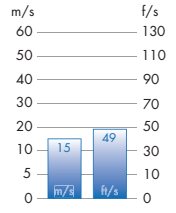
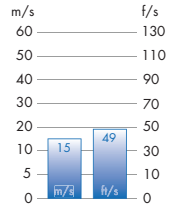




Standard	Merkel Radiamatic							
Type	R 36			R 37			R 37 Eco	
Shape								
Compound	NBR 80 NBR B241	HNBR 75 HNBR U467	FKM 80 FKM K670	NBR 80 NBR B241	HNBR 75 HNBR U467	FKM 80 FKM K670	NBR 80 NBR 245565	
Temperature								
Speed								
Pressure	max. 0,05 MPa max. 7.25 psi			max. 0,05 MPa max. 7.25 psi			max. 0,05 MPa max. 7.25 psi	
Media	Mineral oils < +100 °C	•	•	•	•	•	•	•
	Synthetic oils < 80 °C	•	•	•	•	•	•	•
	Mineral oils > +100 °C		•	•		•	•	
	Synthetic oils > 80 °C		•	•		•	•	
	Greases	•	•	•	•	•	•	•
	Aggressive Media	○*	○*	○*	○*	○*	○*	○*
Impact of dirt	Normal impact of dirt from the outside	•	•	•	•	•	•	•
	Moderate to medium impact of dirt from the outside	○**	○**	○**	○**	○**	○**	○**
	Large impact of dirt from the outside							
	Foreign bodies on the inside							
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Preferred Applications								

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Merkel Radiamatic							
R 58	RS 85			RHS 51			RPM 41
							
NBR 80 NBR B241	NBR 80 NBR B241	HNBR 75 HNBR U467	FKM 80 FKM K670	NBR 80 NBR B241	HNBR 75 HNBR U467	FKM 80 FKM K670	NBR 85 NBR 245461
<p>°C °F</p> 	<p>°C °F</p> 	<p>°C °F</p> 	<p>°C °F</p> 	<p>°C °F</p> 	<p>°C °F</p> 	<p>°C °F</p> 	<p>°C °F</p> 
<p>m/s f/s</p> 	<p>m/s f/s</p> 	<p>m/s f/s</p> 	<p>m/s f/s</p> 	<p>m/s f/s</p> 	<p>m/s f/s</p> 	<p>m/s f/s</p> 	<p>m/s f/s</p> 
max. 0,05 MPa max. 7.25 psi	max. 0,05 MPa max. 7.25 psi			max. 0,05 MPa max. 7.25 psi			max. 0,05 MPa max. 7.25 psi
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
		•	•		•	•	
		•	•		•	•	
•	•	•	•	•	•	•	•
○*	○*	○*	○*	○*	○*	○*	○*
•	•	•	•	•	•	•	•
○**	○**	○**	○**	○**	○**	○**	○**
172	172			172			
							

Standard	Merkel Radiamatic			Modular Oil Seal (MSS)		
Type	HTS II 9535		HTS II 9539	MSS1		MSS7
Shape						
Compound	PTFE K212	PTFE C104	PTFE Y002	NBR-FKM 72 NBR 902/ 75 FKM 585	FKM-FKM 75 FKM 585/ 75 FKM 585	NBR-NBR 72 NBR 902/ 72 NBR 902
Temperature	 °C: +200, +392, -80, -112 °F: +392, +800, -112, -200		 °C: +200, +392, -80, -112 °F: +392, +800, -112, -200	 °C: +100, +160, -40, -25 °F: +212, +320, -40, -13		 °C: +80, +176, -40, -40 °F: +176, +327, -40, -40
Speed	 m/s: 25, 82 ft/s: 50, 164		 m/s: 25, 82 ft/s: 50, 164	 m/s: 6, 20 ft/s: 12, 40		 m/s: 15, 49 ft/s: 30, 150
Pressure	max. 0,6 MPa max. 87 psi		max. 0,6 MPa max. 87 psi	max. 0,05 MPa max. 7.25 psi		max. 0,05 MPa max. 7.25 psi
Media	Mineral oils < +100 °C	●	●	●	●	○
	Synthetic oils < 80 °C	●	●	●	○	○
	Mineral oils > +100 °C	●	●	●	●	
	Synthetic oils > 80 °C	●	●	●	●	
	Greases	●	●	●		○
	Aggressive Media	●	●	●		
Impact of dirt	Normal impact of dirt from the outside	○	○	○	●	●
	Moderate to medium impact of dirt from the outside	○	○	○		○
	Large impact of dirt from the outside					●
	Foreign bodies on the inside				●	●
Page	172		172	186		186
Preferred Applications						

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Cassette Seal							
Type 1		Type 2		Type 3		HS	
NBR 75 NBR 106200	FKM 75 FKM 595	NBR 75 NBR 106200	FKM 75 FKM 595	NBR 75 NBR 106200	FKM 75 FKM 595	NBR 75 NBR 106200	FKM 75 FKM 585
max. 0,05 MPa max. 7.25 psi		max. 0,05 MPa max. 7.25 psi		max. 0,05 MPa max. 7.25 psi		max. 0,03 MPa max. 4.35 psi	
•	•	•	•	•	•	•	•
•	○	•	○	•	○	•	○
○	•	○	•	○	•	○	•
○	•	○	•	○	•	○	•
•	•	•	•	•	•	○	•
•						○	
		•				•	
				•			
190		190		190			






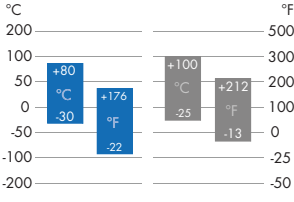
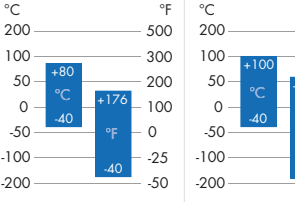
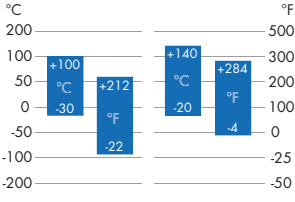
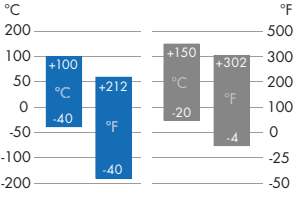
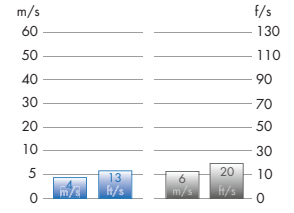
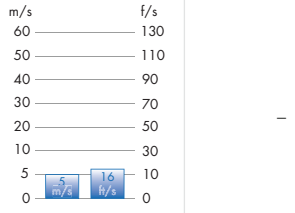
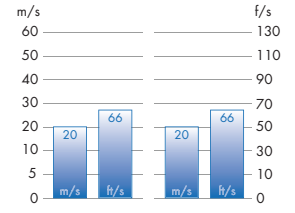
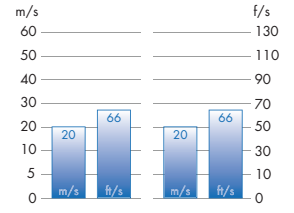
Standard	Combi Seal					
Type	SF5		SF6		SF8	
Shape						
Compound	NBR 75 NBR 106200	FKM 75 FKM 595	NBR 75 NBR 106200	FKM 75 FKM 595	NBR 75 NBR 106200	FKM 75 FKM 595
Temperature						
Speed						
Pressure	max. 0,05 MPa max. 7.25 psi		max. 0,05 MPa max. 7.25 psi		max. 0,05 MPa max. 7.25 psi	
Media	Mineral oils < +100 °C	●	●	●	●	●
	Synthetic oils < 80 °C	●	○	●	○	○
	Mineral oils > +100 °C		●		●	●
	Synthetic oils > 80 °C	○	●	○	●	●
	Greases	●	●	●	●	●
	Aggressive Media					
Impact of dirt	Normal impact of dirt from the outside	○		○		○
	Moderate to medium impact of dirt from the outside	●		●		●
	Large impact of dirt from the outside					
	Foreign bodies on the inside					
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Preferred Applications						

Werte in Abhängigkeit sonstiger Werte!
Diğer değerlere bağlı olan değerler!
Wartości zależne od innych danych!
Значения зависят от других параметров!

○ = possible usage
○* = possible usage, verification by individual endurance test
○** = possible usage, verification necessary
● = preferred usage
+ = preferred Design
B1 = one-piece metal housing

BAB = operating pressure
SL = dust lip (v = max. 8 m/s)
X7 = grooved outer casing
FUD = sealing lip produced in the tool
UIM = sealing lip machined on the front face (predominantly for FKM)
U ... X2 = sealing lip machined on the front face (predominantly for NBR)

Bitte beachten Sie unsere allgemeinen Konstruktionshinweise in → Technisches Handbuch
Daha detaylı montaj bilgisi için → Bkz. Technical Manual
W celu zaznajomienia się z ogólnymi uwagami proszę skorzystać z Instrukcji
Общие технические рекомендации см. → Техническое руководство

Combi Seal		End Caps	V-ring seal / deflectors				
SF19		Combi Seal	GA, GSA	EA, EAX		WA-A, WA-AX	
							
NBR 75 NBR 106200		NBR 75 NBR 106200	NBR 75 NBR 99004	NBR 80 NBR B241	HNBR 75 HNBR U467	NBR 60 NBR B297	FKM 65 FKM K698
							
							
max. 0,05 MPa max. 7.25 psi		max. 0,05 MPa max. 7.25 psi		max. 0,03 MPa max. 4.35 psi		max. 0,03 MPa max. 4.35 psi	
●	●	●	●	●	●	●	●
●	○	●	●	●	●	●	●
	●				●		●
○	●	○			●		●
●	●	●	●	●	●	●	●
				○*	○*	○*	○*
○		○	●	●	●	●	●
		●	●	●	●	●	●
●			●	○**	○**	○**	○**
		190	194				
