



# ITT

# Lowara

FHA - FH/P pump Series Mechanical Seals ( standard - optional )							ST/FH		
							Issue 1st : 01/11/1999		
							Last issue: March2010		Rev.
Dia X L(k) mm	Type UNITEN Roten Supplier ext	Materials sliding faces, seals, spring A316, others			P/N	Digit	Used on:		
		Rotary - Stationary	Elastomer OR	DIN EN 12756 (DIN 24960)					
22 X 37,5	3K	CERAMIC - CARBON	NBR	VBPGG	002232200	STD	FHE 2/4 POLE:	FHS 2/4 POLE:	FHF 2/4 POLE:
	3K	CERAMIC - CARBON	EPDM	VBEGG	002232204	B	32-125 ; 32-160 ; 32-200	32-125 ; 32-160 ; 32-200	32-125 ; 32-160 ; 32-200
	3K	CERAMIC - CARBON	FPM	VBVGG	002232201	A	40-125 ; 40-160 ; 40-200	40-125 ; 40-160	40-125 ; 40-160 ; 40-200
	5K-CL	CERAMIC - CARBON Z	EPDM	VCEGG	002232270	5	50-125 ; 50-160 ; 50-200	FHS 2/4 POLES:	50-125 ; 50-160 ; 50-200
	5K-CL	CERAMIC - CARBON Z	FPM	VCVGG	002232271	C	65-125	40-200	65-125
	5K-CL	WIDIA - CARBON Z	EPDM	U3CEGG	002232272	L	+ MODELS:	50-160 ; 50-200	+ MODELS:
	5K-CL	WIDIA - CARBON Z	FPM	U3CVGG	002232273	U	FHE 40-250/92, /110	65-125	FHF 40-250/110
	5K-CL	WIDIA - SiC	EPDM	U3Q1EGG	002232247	P	FHE4 40-250/11, /15	+ MODELS:	FHF4 40-250/11, /15
	5K-CL	WIDIA - SiC	FPM	U3Q1VGG	002232248	N	FHE 65-160/92	FHS 40-250/110, /110A	FHF 65-160/110A
	5K-CL	WIDIA - WIDIA	EPDM	U3U3EGG	002232248	T	FHE4 65-160/11	FHS4 40-250/11, /15	FHF4 65-160/11A
	5K-CL	WIDIA - WIDIA	FPM	U3U3VGG	002232246	S	2FHE 2/4 POLE:	FHS 50-125	FHF 65-160/110A
	5K-CL	SiC - Si-SiC	EPDM	JQ1EGG	002232274	Z	32-250	FHS 65-160/110A	FHF4 65-160/11
	5K-CL	SiC - Si-SiC	FPM	JQ1VGG	002232244	W		FHS4 65-160/11, /15	
	28 X 42,5	3K	CERAMIC - CARBON	NBR	VBPGG	002232800	STD	FHE 2/4 POLE:	FHS 2/4 POLE:
3K		CERAMIC - CARBON	EPDM	VBEGG	002232801	B	50-250	50-250	50-250
3K		CERAMIC - CARBON	FPM	VBVGG	002232802	A	65-200 ; 65-250	65-200 ; 65-250	65-160 ; 65-250
5K-CL		CERAMIC - CARBON Z	EPDM	VCEGG	002232847	5	80-160 ; 80-200	80-160 ; 80-200	80-200
5K-CL		CERAMIC - CARBON Z	FPM	VCVGG	002232848	C	+ MODELS:	+ MODELS:	+ MODELS:
5K-CL		WIDIA - CARBON Z	EPDM	U3CEGG	002232849	L	FHE 40-250/150	FHS 40-250/150	FHF 40-250/150
5K-CL		WIDIA - CARBON Z	FPM	U3CVGG	002232805	U	FHE4 40-250/22	FHS4 40-250/22	FHF4 40-250/22
5K-CL		WIDIA - SiC	EPDM	U3Q1EGG	002232870	P	FHE 65-160/110, /150	FHS 65-160/110, /150	FHF 65-200/150, /185, /220
5K-CL		WIDIA - SiC	FPM	U3Q1VGG	002232847	N	FHE4 65-160/15, /22	FHS4 65-160/22	FHF4 65-200/15, /22, /30
5K-CL		WIDIA - WIDIA	EPDM	U3U3EGG	002232871	T	FHE4 80-250/40	FHS 80-250/370	FHF 80-160/110, /150, /185
5K-CL		WIDIA - WIDIA	FPM	U3U3VGG	002232845	S		FHS4 80-250/40	FHF4 80-160/15, /22
5K-CL		SiC - Si-SiC	EPDM	JQ1EGG	002232873	Z			FHF 80-250/370
5K-CL		SiC - Si-SiC	FPM	JQ1VGG	002232874	W			FHF4 80-250/40
33 X 42,5		3K	CERAMIC - CARBON	NBR	VBPGG	002233300	STD	MODELS:	MODELS:
	3K	CERAMIC - CARBON	EPDM	VBEGG	002233301	B	FHE4 80-250/55, /75	FHS 80-250/450, /550	FHF 80-250/450, /550
	3K	CERAMIC - CARBON	FPM	VBVGG	002233302	A		FHS4 80-250/55, /75	FHF4 80-250/55, /75
	5K-CL	CERAMIC - CARBON Z	EPDM	VCEGG	002233341	5			
	5K-CL	CERAMIC - CARBON Z	FPM	VCVGG	002233342	C			
	5K-CL	WIDIA - CARBON Z	EPDM	U3CEGG	002233343	L			
	5K-CL	WIDIA - CARBON Z	FPM	U3CVGG	002233305	U			
	5K-CL	WIDIA - SiC	EPDM	U3Q1EGG	002233344	P			
	5K-CL	WIDIA - SiC	FPM	U3Q1VGG	002233340	N			
	5K-CL	WIDIA - WIDIA	EPDM	U3U3EGG	002233345	T			
	5K-CL	WIDIA - WIDIA	FPM	U3U3VGG	002233346	S			
	5K-CL	SiC - Si-SiC	EPDM	JQ1EGG	002233347	Z			
	5K-CL	SiC - Si-SiC	FPM	JQ1VGG	002233348	W			

ext. = stationary extension (short, long, special) with stop ring/key

L<sub>(k)</sub> = Working length  
 UNITEN : mechs with dimensions acc. DIN 12756 (DIN 24960) / ISO 3069 std  
 CL = stationary ring with extension and slot

**Materials.**  
 Ceramic  
 Carbon  
 Special carbon Z

**Widia = Tungsten carbide**  
 SiC , Si-SiC = Solid silicon carbide  
 A316

**NBR = Nitrile**  
 EPDM = Ethylene propylene  
 FPM = Fluoro carbon



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FH/A - FHP pump Series O-Ring ( standard - optional )					ST/FH	
					Issue 1st: 01/11/99	
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<p>NBR = Nitrile            Fluoro carbon = like VITON            EPDM = Ethylene propylene</p>						
Models		OR Size	Material	Dim's	P/N	
FHE - FHS - FHF		USED ON PARTS				
Std B A	32-125	CASING dim. 1	NBR	171 X 3.53	002221275	
	32-160		EPDM	171 X 3.53	002221774	
	40-125		FPM	171 X 3.53	002221638	
	40-160					
	50-125					
Std B A	32-200	CASING dim. 2	NBR	209.1 X 3.53	002221281	
	40-200		EPDM	209.1 X 3.53	002221777	
	50-160		FPM	209.1 X 3.53	002221662	
	50-200					
	65-125					
Std B A	40-250	CASING dim. 3	NBR	253.6 X 3.53	002221288	
	50-250		EPDM	253.6 X 3.53	002221788	
	65-160		FPM	253.6 X 3.53	002221666	
	65-200					
	65-250					
	80-160					
	80-200					
80-250						
Models		OR Size	Material	Dim's	P/N	
2FHE		USED ON PARTS				
Std B A	32-250	Diffuser	NBR	240.9 X 3.53	002221286	
			EPDM	240.9 X 3.53	002221884	
			FPM	240.9 X 3.53	002222687	
Std B A	32-250	Suction flange	NBR	266.27 X 3.53	002221289	
			EPDM	266.27 X 3.53	002221886	
			FPM	266.27 X 3.53	002222690	