

SV 2-4-8-16-30-60 Pumps Series Mechanical Seals (standard - optional)								ST/SV-T		
								1/4		
								Issue 1st: 20/10/1995		
								Last issue: July04		
								Rev.		
Dia (mm)	Type Roten Supplier ext.	Sliding faces, seals, spring and other components materials						DIN EN 12756 (ex DIN 24960)	Mech. with Sleeve OR	
		Rotary - Stationary	Elastomer OR	Spring	P/N	Used on	Digit			
12 X 32,5	UNITEN 5K	SILICON CARBIDE-CARBON	EPDM		002231255	SV2-4	STD	Q1BEGG*	KL01AAD	
	UNITEN 5K	WIDIA-CARBON	FPM		002231241		J	U3BVGG		
	UNITEN 5K	SILICON CARBIDE-WIDIA	EPDM		002231242		P	Q1U3EGG		
	UNITEN 5K	SILICON CARBIDE-WIDIA	FPM		002231243		N	Q1U3VGG		
	UNITEN 5K	SILICON CARBIDE (2 KINDS)	EPDM		002231245		Z	Q1Q1EGG		
	UNITEN 5K	SILICON CARBIDE (2 KINDS)	FPM	A316	002231246		W	Q1Q1VGG		
	UNITEN 5K	WIDIA-WIDIA	FPM		002231247		S	U3U3VGG		
	UNITEN 5K	CARBON Z-WIDIA	FPM		002231248		U	U3CVGG		
	UNITEN 5K	WIDIA-WIDIA	EPDM		002231249		T	U3U3EGG*		
	UNITEN 5K	CARBON Z-WIDIA	EPDM		002231250		L	U3CEGG		
	UNITEN 5K	SILICON CARBIDE-CARBON	FPM		002231251		2	Q1BVGG		KL01AAG
	UNITEN 5K	CL. SILICON CARBIDE (2 KINDS)	EPDM		002231257		Z	Q1Q1EGG		KL01AC7
	UNITEN 5K	CL. SILICON CARBIDE (2 KINDS)	FPM		002231258		W	Q1Q1VGG		KL01AC9
	UNITEN 5K	TRCL. SILICON CARBIDE-CARBON Z	PTFE		002231259		Y	Q1CTGG		KL01ADB
UNITEN 5K	TRCL. SILICON CARBIDE (2 KINDS)	PTFE		002231260		1	Q1Q1TGG	KL01ADD		
16 X 35	UNITEN 5K	SILICON CARBIDE-CARBON	EPDM		002231638	SV8-16	STD	Q1BEGG*	KL01AAE	
	UNITEN 5K	SILICON CARBIDE (2 KINDS)	EPDM		002231639		Z	Q1Q1EGG		
	UNITEN 5K	WIDIA-CARBON	FPM		002231641		W	U3BVGG		
	UNITEN 5K	WIDIA-SILICON CARBIDE	EPDM		002231642		P	Q1U3EGG		
	UNITEN 5K	SILICON CARBIDE-WIDIA	FPM	A316	002231643		N	Q1U3VGG		
	UNITEN 5K	SILICON CARBIDE (2 KINDS)	FPM		002231644		W	Q1Q1VGG		
	UNITEN 5K	WIDIA-WIDIA	FPM		002231645		S	U3U3VGG		
	UNITEN 5K	SILICON CARBIDE (2 KINDS)	FPM		002231646		W	Q1Q1VMG		
	UNITEN 5K	CL. CARBON Z-WIDIA	EPDM		002231647		L	U3CEGG		
	UNITEN 5K	CARBON Z-WIDIA	FPM		002231648		U	U3CVGG		
	UNITEN 5K	WIDIA-WIDIA	EPDM		002231649		T	U3U3EGG*		
	UNITEN 5K	CL. SILICON CARBIDE-WIDIA	PTFE		002231651		-	U3Q1TGG		
	UNITEN 5K	SILICON CARBIDE (2 KINDS)	NBR		002231652		3	Q1Q1PGG		
	UNITEN 5K	TRCL. SILICON CARBIDE (2 KINDS)	PTFE		002231654		1	Q1Q1TGG		KL01ADE
	UNITEN 5K	CL. SILICON CARBIDE (2 KINDS)	FFKM		002231655		-	Q1Q1KGG		
	UNITEN 5K	CL. SILICON CARBIDE (2 KINDS)	EPDM		002231656		Z	Q1Q1EGG		KL01AC8
	UNITEN 5K	SILICON CARBIDE-CARBON	FPM		002231657		2	Q1BVGG		KL01AAH
	UNITEN 5K	CL. SILICON CARBIDE (2 KINDS)	FPM		002231658		W	Q1Q1VGG		KL01ADA
	UNITEN 5K	TRCL. SILICON CARBIDE (2 KINDS)	PTFE		002231659		Y	Q1CTGG		KL01ADC
	UNITEN 5K	CARBON-CARBON Z	EPDM		002231660		5	VCEGG		
UNITEN85N	CL. SILICON CARBIDE (2 KINDS)	EPDM		002231683		P	Q1Q1EGG			
25 X 40	BURGMANN MG12-G60	SILICON CARBIDE-CARBON	EPDM		002232550	SV30-60	STD	AQ1EGG	KL01AAL KL01AAM	
	UNITEN 5K	SILICON CARBIDE-CARBON	FPM		002232551		2	AQ1VGG		
	UNITEN 5K	SILICON CARBIDE (2 KINDS)	FPM		002232541		W	Q1Q1VGG		
	UNITEN 5K	SILICON CARBIDE-WIDIA	EPDM	A316	002232542		P	U3Q1EGG		
	UNITEN 5K	SILICON CARBIDE-WIDIA	FPM		002232543		N	U3Q1VGG		
	UNITEN 5K	WIDIA-WIDIA	EPDM		002232546		T	U3U3EGG		
	UNITEN 5K	WIDIA-WIDIA	FPM		002232549		S	U3U3VGG		
	UNITEN 5K	CARBON-WIDIA	FPM		002232570		J	U3BVGG		
	UNITEN 5K	SILICON CARBIDE (2 KINDS)	EPDM		002232571		Z	Q1Q1EGG		
	UNITEN 5K	SILICON CARBIDE (2 KINDS)	NBR		002232572		3	Q1Q1PGG		
UNITEN 5K	SILICON CARBIDE-WIDIA	PTFE		002232573		-	U3Q1TGG			

ext. = stationary extension (short CC,long CL, special) with stop ring/key, eventually positive drive TR.

Materials.
Ceramic Tungsten carbide = Widia
Carbon Solid silicon carbide
Special carbon Z A316 = 316 SS
Metalized graphite

NBR = Nitrile rubber
EPDM = Ethylene propylene acc. WRAS std*
FPM = Fluoroelastomer
PTFE = Polytetrafluoroethylene
FFKM = Perfluoroelastomer

SV 2-4-8-16-30-60 PUMP Series O-RINGS					ST/SV - E	2/4
					Issue 1st: 01/11/1999	
					Last issue: Feb2001	Rev.
SV 2 - 4 std and speciality digits						
Component	EPDM Elastomers (Standard version)	Kit	FPM Elastomers (Speciality A)	Kit	FEP-FPM Elastomers (Speciality G)	Kit
OR internal pin drain plug SV2-4	002221826 (OR 6.02 x 2.62 EPDM)	KL02AA1	002222503 (OR 6.02 x 2.62 FPM)	KL02AA2	002223090 (OR 6.02 x 2.62 FFKM)	KL02AA3
OR external body drain plug	002221827 (OR 9.19 x 2.62 EPDM)	KL02AA1	002222506 (OR 9.19 x 2.62 FPM)	KL02AA2	002223050 (OR 9.19 x 2.62 FEP-FPM)	KL02AA3
OR fill and drain plug # 2	002221829 (OR 15.88 x 2.62 EPDM)	KL02AA1	002222515 (OR 15.88 x 2.62 FPM)	KL02AA2	002223055 (OR 15.54 x 2.62 FEP-FPM)	KL02AA3
OR impeller wear ring SV2-4 -> # like stages	002221832 (OR 39.34 x 2.62 EPDM)		002222534 (OR 39.34 x 2.62 FPM)		002223056 (OR 39.34 x 2.62 FEP-FPM)	
OR outer sleeve SV2-4 # 2	002221878 (OR 123.42 x 3.53 EPDM)	KL02AA1	002222664 (OR 123.42 x 3.53 FPM)	KL02AA3	002223155 (OR 126.6 x 3.53 FEP-FPM)	KL02AA3
OR for oval flange SV2-4 T # 2	002221866 (OR 47.22 x 3.53 EPDM)		002222623 (OR 47.22 x 3.53 FPM)		Not available	
Fill plug	140170150 (with OR EPDM)		140170250 (with OR FPM)		140170710 (with OR FEP-FPM)	
Drain plug	140170140 (with OR EPDM)		140170240 (with OR FPM)		140170720 (with OR FEP-FPM)	
SV 8 - 16 std and speciality digits						
Component	EPDM Elastomers (Standard version)	Kit	FPM Elastomers (Speciality A)	Kit	FEP-FPM Elastomers (Speciality G)	Kit
OR external body drain plug	002221827 (OR 9.19 x 2.62 EPDM)	KL02AA4	002222506 (OR 9.19 x 2.62 FPM)	KL02AA5	002223050 (OR 9.19 x 2.62 FEP-FPM)	KL02AA6
OR fill and drain plug # 2	002221829 (OR 15.88 x 2.62 EPDM)	KL02AA4	002222515 (OR 15.88 x 2.62 FPM)	KL02AA5	002223055 (OR 15.54 x 2.62 FEP-FPM)	KL02AA6
OR impeller wear ring SV8 # like stages	002221864 (OR 44.04 x 3.53 EPDM)		002222620 (OR 44.04 x 3.53 FPM)		002223153 (OR 44.04 x 3.53 FEP-FPM)	
OR impeller wear ring SV16 # like stages	002221867 (OR 53.57 x 3.53 EPDM)		002222629 (OR 53.57 x 3.53 FPM)		002223154 (OR 53.57 x 3.53 FEP-FPM)	
OR outer sleeve SV8-16 # 2	002221880 (OR 152 x 3.53 EPDM)	KL02AA4	002222673 (OR 152 x 3.53 FPM)	KL02AA5	002223156 (OR 158.3 x 3.53 FEP-FPM)	KL02AA6
OR for oval flange SV 8 T # 2 --->	002221870 (OR 66.27 x 3.53 EPDM)		002222641 (OR 66.27 x 3.53 FPM)		Not available	
Fill plug	140170150 (with OR EPDM)		140170250 (with OR FPM)		140170710 (with OR FEP-FPM)	
Drain plug	140170160 (with OR EPDM)		140170260 (with OR FPM)		140170730 (with OR FEP-FPM)	
SV 30 - 60 std and speciality digits						
Component	EPDM Elastomers (Standard version)	Kit	FPM Elastomers (Speciality A)	Kit	FEP-FPM Elastomers (Speciality G)	Kit
OR external body drain plug	002221827 (OR 9.19 x 2.62 EPDM)	148992050	002222506 (OR 9.19 x 2.62 FPM)	148992120	002223050 (OR 9.19 x 2.62 FEP-FPM)	
OR fill and drain plug # 2	002221829 (OR 15.88 x 2.62 EPDM)	148992050	002222515 (OR 15.88 x 2.62 FPM)	148992120	002223055 (OR 15.54 x 2.62 FEP-FPM)	
OR fill plug	002221830 (OR 20.24 x 2.62 EPDM)	148992050	002222519 (OR 20.24 x 2.62 FPM)	148992120	Not available	
OR outer sleeve SV30-60 # 4	002221891 (OR 189.86 x 5.34 EPDM)	148992050	002221691 (OR 189.86 x 5.34 FPM)	148992120	Not available	
Fill plug	140170150 (with OR EPDM)		140170250 (with OR FPM)		140170710 (with OR FEP-FPM)	
Drain plug	140170160 (with OR EPDM)		140170260 (with OR FPM)		140170730 (with OR FEP-FPM)	

SV 2-4-8-16-30-60 Impeller Dimensions			ST/SV-G			
			4/4			
			Issue 1st: 16/05/97			
			Last issue : November04		Rev.	
Pump Type	Impeller	Impeller	Dimensions (mm)			
	P/N A304	P/N A316	De	ba	Db	Dm
SV 2	150702100	150702160	94.5	2.1	37.8	12
SV 4	150702110	150702170	96	2.5	37.8	12
SV 8	150702120	150702180	111	3.5	42.2	16
SV 16	150702130	150702190	119	5.9	51.6	16
SV 30 RIGHT rotation	-	150702240 R	135/125	9	61.8	25
SV 30 LEFT rotation	-	150702250 L	135/125	9	61.8	25
SV 60 RIGHT rotation	-	150702260 R	128/109	17.6	83.9	25
SV 60 LEFT rotation	-	150702270 L	128/109	17.6	83.9	25
			De -->	- Imp. OUTside Blade Dia.		
			ba -->	- Blade Height		
			Db -->	- Imp. EYE Dia.		
			Dm -->	- Hub INTernal Dia.		

	Sleeve SV2-4	Stages	LENGHT (mm)
		N°	
A304	156403500	2	103.2
	156403510	3	128.2
	156403520	4	153.2
	156403530	5	178.2
	156403540	6	203.2
	156403550	7	228.2
	156403560	8	253.2
	156403570	9	278.2
	156403580	10	303.2
	156403590	11	328.2
	156403600	12	353.2
	156403610	13	378.2
	156403620	14	403.3
	156403630	15	428.3
	156403640	16	453.3
	156403660	18	503.3
156403680	20	553.3	
156403700	22	603.3	
156403720	24	653.3	
A316	156403730	2	103.2
	156403740	3	128.2
	156403750	4	153.2
	156403760	5	178.2
	156403770	6	203.2
	156403780	7	228.2
	156403790	8	253.2
	156403800	9	278.2
	156403810	10	303.2
	156403820	11	328.2
	156403830	12	353.2
	156403840	13	378.2
	156403850	14	403.3
	156403860	15	428.3
	156403870	16	453.3
	156403890	18	503.3
156403910	20	553.3	
156403930	22	603.3	
156403950	24	653.3	

Dia external = 133.0

SV2-SV4 SLEEVES (FT/N) (A304/A316)

	Sleeve SV8-16	Stages	LENGHT (mm)
		N°	
A304	156403960	2	142.1
	156403970	3	180.1
	156403980	4	218.1
	156403990	5	256.1
	156404000	6	294.1
	156404010	7	332.1
	156404020	8	370.1
	156404030	9	408.2
	156404040	10	446.2
	156404050	11	484.2
	156404060	12	522.2
	156404070	13	560.2
	156404080	14	598.2
	156404090	15	636.2
	156404100	16	674.2
	A316	156404120	2
156404130		3	180.1
156404140		4	218.1
156404150		5	256.1
156404160		6	294.1
156404170		7	332.1
156404180		8	370.1
156404190		9	408.2
156404200		10	446.2
156404210		11	484.2
156404220		12	522.2
156404230		13	560.2
156404240		14	598.2
156404250		15	636.2
156404260		16	674.2

Dia external = 164.6

SV8-SV16 SLEEVES (FT/N) (A304/A316)

SV 2-16 FASTENERS

Dimension	Material	Articles	Used on	Torque (Nm)
M8	A316-PRO	IMPELLER STACK	SV2-4	20
M10			SV8-16	35
M12	Fe ZNT	TIE-ROD	SV2-4	25
M14			SV8-16	30
M10		OVAL FLANGE	SV2-4	40
M12			SV8	60
G 3/8		PLUGS	SV2-16	20
M6	Fe ZNT	COUPLING SV2-16	MOT 71-80-90	15
M8			MOT 100-112	25
M10			MOT 132	50
M12			MOT 160	75
M6	Fe ZNT	FLANGE ADAPTER / MOTOR SV2-16	MOT71-80	8
M8			MOT90-100-112	20
M10			MOT132	60
M12/M16			MOT160	60/75

xylem