



MCS

Repair parts

Mechanical seal and o-ring

0 = Pre-engineered standard. For optional mechanical seal modify catalog order no. With seal code listed below.

Type 21 mechanical seal ($\frac{5}{8}$ " seal)						
Seal code	Rotary	Stationary	Elastomers	Metal parts	Part no.	Casing o-ring
0	Carbon	Ceramic	BUNA	18-8SS	10K10	BUNA
4		Sil-carbide	Viton	316 SS	10K55*	Viton

*Replaces obsolete 10K24.

MCS standard repair parts list

Item no.	Description	Materials of construction	1MS 1 x 1 $\frac{1}{4}$	2MS 1 $\frac{1}{4}$ x 1 $\frac{1}{2}$	3MS 1 $\frac{1}{2}$ x 2	Quantity
100	Casing	AISI 316L SS	1L81	1L82	1L83	1
101	Impeller		See Impeller chart on page 4			
108	Motor adapter (mounting plate)	Aluminum	1K336			
123	Deflector	BUNA-N	5K7			
184A	Seal housing standard	AISI 316L SS	1L79			
240	Motor support (feet)	300 SS	4K450			
	Rubber channel	Rubber	9K188			
	Rubber channel	Rubber**	9K286			
304	Impeller locknut	AISI 316 SS	13K286			
347	Guidevane	AISI 316L SS	3L23	3L24	3L25	
349	Seal ring, guidevane	Viton	5K269	5K270		
		EPR	5K273	5K274		
		BUNA	5K271	5K272		
356	Nut, casing	AISI 300 SS	13K269			8
357	Nut, motor		13K262			4
370	Socket head screw, casing	AISI 410 SS	13K268			8
371	Bolts, motor	Steel	13K287			4
383	Mechanical seal		See Mechanical Seal Chart Numbering System			1
408	Drain and vent plug, casing	AISI 316 SS	6L3			2
412B	O-ring, drain plugs	Viton, standard	5L99			
		EPR	5L80			
		BUNA	5L62			
513	O-ring, casing (square cut)	Viton	5K206			1
		EPR	5K193			
		BUNA standard	5K4			

Note: **Used on all single phase ODP units $\frac{1}{2}$ - 2 HP.

**MCS standard impellers
for pumps built after January 6, 2020**

Impeller code	Pump size					
	1 x 1¼ – 6		1¼ x 1½ – 6		1½ x 2 – 6	
	Diameter	Part no.	Diameter	Part No.	Diameter	Part no.
A	6 ¹ / ₈	2K1203	6 ¹ / ₈	2K1391	5 ¹ / ₈	2K1401
B	5¾	2K1202	6	2K1392	5	2K1402
C	5 ¹ / ₅	2K1201	5¾	2K1393	4¾	2K1403
D	4¾	2K1200	5 ¹ / ₃	2K1394	4½	2K1404
E	4 ⁴ / ₉	2K1199	5	2K1395	4 ³ / ₈	2K1405
F	4	2K1211	4 ⁷ / ₈	2K1396	4	2K1406
G			4 ⁵ / ₈	2K1397	3 ⁵ / ₈	2K1407
H			4¼	2K1398		
J			4	2K1399		

**MCS standard impellers
for pumps built prior to January 2020**

Impeller code	Pump size					
	1 x 1¼ – 6		1¼ x 1½ – 6		1½ x 2 – 6	
	Diameter	Part no.	Diameter	Part no.	Diameter	Part no.
A	6 ¹ / ₈	2K1203	6 ¹ / ₈	2K1391	5 ¹ / ₈	2K1401
B	5¾	2K1202	6	2K1392	5	2K1402
C	5 ¹ / ₅	2K1201	5¾	2K1393	4¾	2K1403
D	4¾	2K1200	5 ¹ / ₃	2K1394	4½	2K1404
E	4 ⁴ / ₉	2K1199	5	2K1395	4 ³ / ₈	2K1405
F	4	2K1211	4 ⁷ / ₈	2K1396	4	2K1406
G			4 ⁵ / ₈	2K1397	3 ⁵ / ₈	2K1407
H			4¼	2K1398		
J			4	2K1399		

**MCS standard impellers by motor size at 3500 RPM
For pumps built prior to January 2020**

HP	HP code		1MS	2MS	3MS
			ODP/TEFC	ODP/TEFC	ODP/TEFC
½	C	Repair #	2K1199		
		Dia.	4 ⁷ / ₁₆		
		Imp. Code	E		
¾	D	Repair #	2K1200	2K1212	
		Dia.	4¾	3 ⁷ / ₈	
		Imp. Code	D	F	
1	E	Repair #	2K1201	2K1213	2K1217
		Dia.	5 ³ / ₁₆	4¼	3 ⁵ / ₈
		Imp. Code	C	E	E
1½	F	Repair #	2K1202	2K1214	2K1218
		Dia.	5¾	4 ⁵ / ₈	4 ¹ / ₁₆
		Imp. Code	B	D	D
2	G	Repair #	2K1203	2K1215	2K1219
		Dia.	6 ¹ / ₈	4 ⁷ / ₈	4 ³ / ₈
		Imp. Code	A	C	C
3	H	Repair #	2K1203	2K1216	2K1220
		Dia.	6 ¹ / ₈	5¼	4¾
		Imp. Code	A	A	A
5 ODP Only	J	Repair #		2K1206	2K1209
		Dia.		5 ¹⁵ / ₁₆	5 ³ / ₈
		Imp. Code		G	G

MCS close-coupled motors 3500 RPM

HP	Single-phase, 60 Hz, 115/230 V**, 56Y frame					
	Open, drip-proof			Totally enclosed, fan cooled		
	Order number	Maximum amps	Weight (lbs.)	Order Number	Maximum amps	Weight (lbs.)
½	SFE04853S	10.2/5.1	24	SFE04821S	9.4/4.7	30
¾	SFE05853S	13.4/6.7	26	SFE05821S	12.2/6.1	33
1	SFE06853S	14.0/7.0	27	SFE06821S	15.2/7.6	37
1½	SFE07853S	20.0/10.0	28	SFE07821S	14.4/8.7	40
2	SFE08854S	21.0/10.5	30	SFE08821S	10.0	42
3	SFE09854S	15.2	36	SFE09821S	13.8	48
5	SFE10754S	22.0	48			

Note:** 2 HP TEFC and all 3 and 5 HP Single-Phase motors are 230 V only.

HP	Three-phase, 60 Hz, 208-230/460 V, 56Y frame					
	Open, drip-proof			Totally enclosed, fan cooled		
	Order number	Maximum amps	Weight (lbs.)	Order Number	Maximum amps	Weight (lbs.)
½	SFE04873S	2.6/1.3	19	SFE04876S	2.6/1.3	20
¾	SFE05873S	3.4/1.7	25	SFE05876S	3.4/1.7	21
1	SFE06873S	4.0/2.0	26	SFE06876S	4.0/2.0	23
1½	SFE07878S	5.6/2.8	28	SFE07876S	5.4/2.7	35
2	SFE08874S	6.4/3.2	34	SFE08876S	6.6/3.3	36
3	SFE09874S	9.0/4.5	34	SFE09876S	9.8/4.9	40
5	SFE10774S	14.4/7.2	46			

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