

GENUINE **MEIARIS**



**YOUR SOURCE FOR HIGH QUALITY
PISTON PUMPS AND COMPONENTS**

PISTON PRODUCT LISTING
EFFECTIVE: APRIL 1, 2011

REXROTH® MA10V(S)O18 - Series 31

DESCRIPTION		MA10V(S)O18 - Series 31			
		PORTING			
PUMP - MA10V(S)O18**62N00		SAE - SIDE PORTS			
PUMP - MA10V(S)O18**12N00		METRIC - SIDE PORTS			
THRU DRIVE OPTION					
K01 - SAE A Mount (9 Tooth)		THE THRU DRIVE (K** OPTION) INCLUDES COUPLING AND HARDWARE			
DESCRIPTION		QTY.	MA10V(S)O18 - Series 31		
			METARIS #	REFERENCE #	
PISTON (EACH)		9 REQ.	B18-72-110	M925458	
RETAINER PLATE		1	B18-75-100	M946784	
BALL GUIDE		1	B18-75-200	M944741	
BARREL		1	B18-73-000	M940734	
SPRING - SEAT		1	B18-78-000	M934827	
SPRING		1	B18-76-100	M933409	
RETAINER		1	X05-02-25120	M934832	
LENS PLATE - LEFT		1	B18-74-200	M940732	
LENS PLATE - RIGHT		1	B18-74-100	M941477	
PIN (EACH)		3 REQ.	B18-77-500	M934826	
SHAFT (METRIC) - CODE P		1	B18-50-291	M948585	
SHAFT (SPLINED) - CODE S		1	B18-50-361	M948588	
SHAFT (KEYED) - CODE K		1	B18-50-161	M948587	
SHAFT (SPLINED) - CODE U		1	B18-50-311	M932607	
ROTARY GROUP L.H.		1	B18-70-200	M944801	
ROTARY GROUP R.H.		1	B18-70-100	M940435	
YOKE L.H.		1	B18-43-210	M960983	
YOKE R.H.		1	B18-43-110	M948592	
CONTROLLER (DFR/ DRF)***		1	B00-30-100	M907094/ M942581	
CONTROLLER (DFR1/ DRS)***			B00-30-200	M907096	
CONTROLLER (DRG)***		1	B00-30-400	M916069	
CONTROLLER (DR)***		1	B00-30-100	M907095	
SHAFT BEARING - CUP/CONE		1	X03-33-12245	M70109-005	
REAR BEARING - CUP/CONE		1	MPN101572	M772968	
SADDLE BEARING (EACH)		2 REQ.	B18-03-602	M925255	
CONTROL PISTON ASSY		1	B18-40-502	M940417	
SEAL KIT		1	B18-80-100F	M937565	
SEAL KIT - VITON		1	B18-80-200F	M941171	

*** Controller Included with Pump

* Does not include Coupling/Hardware

REXROTH® MA10V(S)O28 - Series 31

DESCRIPTION		MA10VO28 - Series 31		
		PORTING		
PUMP - MA10V(S)O28**62N00		SAE - SIDE PORTS		
PUMP - MA10V(S)O28**12N00		METRIC - SIDE PORTS		
PUMP - MA10V(S)O28**61N00		SAE - REAR PORTS		
PUMP - MA10V(S)O28**11N00		METRIC - REAR PORTS		
DFLR CONTROL OPTION				
THRU DRIVE OPTION - K**				
K01 -- SAE A Mount (9 Tooth)		THE THRU DRIVE (K** OPTION) INCLUDES COUPLING AND HARDWARE		
K02 -- SAE B Mount (13 Tooth)				
K03 -- SAE B Mount -SAE B Keyed				
DESCRIPTION		QTY.	MA10VO45 - Series 52 / 31	
			METARIS #	REFERENCE #
PISTON (EACH)		9 REQ.	B28-72-110	M925459 / M967658
RETAINER PLATE		1	B28-75-100	M942514
BALL GUIDE		1	B28-75-200	M944743
BARREL		1	B28-73-000	M907125 / M2407325
SPRING - SEAT		1	X05-04-33150	M2400717 / M918933
SPRING		1	B28-76-100	M924891
RETAINER		1	B28-78-000	M939048 / M2400716
LENS PLATE - LEFT		1	B28-74-200	M936647
LENS PLATE - RIGHT		1	B28-74-100	M936648
PIN (EACH)		3 REQ.	B28-77-500	M785407
SHAFT METRIC (CODE P)		1	B28-50-291	M923797 / M2415569
SHAFT SPLINED (CODE S)		1	B28-50-321	M947780 / M923789
SHAFT SPLINED (THRU DRIVE CODE S)		1	B28-50-322	M926327 / M2417371
SHAFT KEYED (CODE K)		1	B28-50-121	M926330
SHAFT METRIC (THRU DRIVE CODE P)		1	B28-50-292	M925275 / M2415913
SHAFT KEYED (THRU DRIVE CODE K)		1	B28-50-122	M926328
SHAFT SPLINED (THRU DRIVE CODE R)		1	B28-50-822	M962290
ROTARY GROUP L.H.		1	B28-70-200	M947782 / M958654
ROTARY GROUP R.H.		1	B28-70-100	M947781
YOKE L.H.		1	B28-43-210	M960999
YOKE R.H.		1	B28-43-110	M960813
YOKE LH DFLR		1	B28-43-220	M947785
YOKE RH DFLR		1	B28-43-120	M947783
CONTROLLER (DFR/ DRF)***		1	B00-30-100	M907094/ M942581
CONTROLLER (DFR1/ DRS)***		1	B00-30-200	M907096
CONTROLLER (DRG)***		1	B00-30-400	M916069
CONTROLLER (DR)***		1	B00-30-100	M907095
SHAFT BEARING - CUP/CONE		1	X03-33-12556	M70109-001
REAR BEARING - CUP/CONE		1	X03-33-11740	M70109-002
SADDLE BEARING (EACH)		2 REQ	B28-03-602	M902778 / M942158
THRU DRIVE COVER K01 (RH)*		1	B28-23-124	M5120-542-005
THRU DRIVE COVER K02 / K03 (RH)*		1	B28-24-124	M5120-542-006
THRU DRIVE COVER K01 (LH)*		1	B28-23-224	M5120-542-002
THRU DRIVE COVER K02 / K03 (LH)*		1	B28-24-224	M5120-542-003
CONTROL PISTON ASSY		1	B28-40-502	MBH00911164
COUPLING K01		1	B28-50-512	MBH00943539
COUPLING K02		1	B28-50-522	MBH00943542
COUPLING K03		1	B28-50-622	M764981
SEAL KIT		1	B28-80-100	M915845
SEAL KIT - VITON		1	B28-80-200	M915845V

*** Controller Included with Pump

* Does not include Coupling/Hardware

List Prices in US\$ Prices subject to change without notice.
OEM Part #'s displayed for reference purposes only. METPISTPLV15

REXROTH® MA10V(S)O45 - Series 31 & 52

DESCRIPTION		MA10VO45 - Series 31 / 52		
		PORTING		
PUMP - MA10V(S)O45**62N00		SAE - SIDE PORTS		
PUMP - MA10V(S)O45**12N00		METRIC - SIDE PORTS		
PUMP - MA10V(S)O45**64N00		SAE - THREADED PORTS (O-RING)		
PUMP - MA10V(S)O45**61N00		SAE - REAR PORTS		
PUMP - MA10V(S)O45**11N00		METRIC - REAR PORTS		
DFLR CONTROL OPTION - 31 DESIGN ONLY				
THRU DRIVE OPTION - K** -- Available on 52 and 31 design units				
K01 - SAE A Mount (9 Tooth)		THE THRU DRIVE (K** OPTION) INCLUDES COUPLING AND HARDWARE		
K02 - SAE B Mount (13 Tooth)				
K03 - SAE B Mount (SAE B Keyed)				
K04 - SAE B Mount (15 Tooth)				
K05 - SAE B Mount (SAE BB Keyed)				
DESCRIPTION	QTY.	MA10VO45 - Series 31 / 52		
		METARIS #	REFERENCE #	
PISTON (EACH)	9 REQ.	B45-72-110	M925460 / M963893	
RETAINER PLATE	1	B45-75-100	M943627 / M978872	
BALL GUIDE	1	B45-75-200	M941318	
BARREL	1	B45-73-000	M907001	
SPRING - SEAT	1	B45-78-000	M2400727 / M939056	
SPRING	1	B45-76-100	M2400724 / M071072	
RETAINER	1	X05-04-38150	M2400726 / M912520	
LENS PLATE - LEFT	1	B45-74-200	M936644	
LENS PLATE - RIGHT	1	B45-74-100	M936645	
PIN (EACH)	3 REQ.	B45-77-500	M941277	
SHAFT SPLINED (CODE U)	1	B45-50-321	M987649 / M926325	
SHAFT SPLINED (CODE S)	1	B45-50-331	M923309 / M947729	
SHAFT KEYED (CODE K)	1	B45-50-131	M923308 / M947788	
SHAFT METRIC (CODE P)	1	B45-50-291	M923742 / M947820	
SHAFT SPLINED (THRU DRIVE CODE R)	1	B45-50-832	M962291/ M2417400	
SHAFT SPLINED (THRU DRIVE CODE U)	1	B45-50-322	M926326 / M2417398	
SHAFT KEYED (THRU DRIVE CODE K)	1	B45-50-132	M926335	
SHAFT SPLINED (THRU DRIVE CODE S)	1	B45-50-332	M923743	
SHAFT SPLINED (THRU DRV-CODE W)	1	B45-50-822	M902417398	
SHAFT KEYED (THRU DRIVE METRIC CODE P)	1	B45-50-292	M923310	
ROTARY GROUP L.H.	1	B45-70-200	M947789 / M914154	
ROTARY GROUP R.H.	1	B45-70-100	M947730 / M900510	
YOKE L.H. (52 Design)	1	B46-43-210	M929316	
YOKE R.H. (52 Design)	1	B46-43-110	M928665	
YOKE L.H. (31 Design)	1	B45-43-220	M947791	
YOKE R.H. (31 Design)	1	B45-43-120	M947790	
YOKE L.H. (31 Design) -DFLR	1	B45-43-220	M961026	
YOKE R.H. (31 Design) - DFLR	1	B45-43-120	M947793	
CONTROLLER (DFR/ DRF)***	1	B00-30-100	M907094/ M942581	
CONTROLLER (DFR1/ DRS)***	1	B00-30-200	M907096	
CONTROLLER (DRG)***	1	B00-30-400	M916069	
CONTROLLER (DR)***	1	B00-30-100	M907095	
SHAFT BEARING - CUP/CONE	1	X03-33-12957	M70109-004	
REAR BEARING - CUP/CONE	1	X03-33-12245	M70109-005	

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DESCRIPTION	QTY.	MA10VO45 - Series 31 / 52		
		METARIS #	REFERENCE #	
SADDLE BEARING - 31 design (EACH)	2 REQ	B45-03-602	M900198	
SADDLE BEARING - 52 design (EACH)	2 REQ	B46-03-602	M933793	
THRU DRIVE COVER K01 (RH)*	1	B45-23-135	M5130-542-006	
THRU DRIVE COVER K02 / K04 (RH)*	1	B45-24-135	M5130-542-007	
THRU DRIVE COVER K01 (LH)*	1	B45-23-235	M5130-542-002	
THRU DRIVE COVER K02 / K04 (LH)*	1	B45-24-235	M5130-542-003	
CONTROL PISTON ASSY - 31 design	1	B45-40-501	MBH00910852	
COUPLING K01	1	B45-50-512	MBH00943529	
COUPLING K02	1	B45-50-522	MBH00943531	
COUPLING K03	1	B45-50-622	M763764	
COUPLING K04	1	B45-50-532	MBH00738476	
COUPLING K05	1	B45-50-632	M766933	
SEAL KIT - 31 Design	1	B45-80-100	M925885	
SEAL KIT - VITON - 31 Design	1	B45-80-200	M925885V	
SEAL KIT - 52 Design	1	B46-80-100	M963478	
SEAL KIT - VITON - 52 Design	1	B46-80-200	M963478V	

*** Controller Included with Pump

* Does not include Coupling/Hardware

REXROTH® MA10V(S)O60 - Series 52

DESCRIPTION		MA10V(S)O60 - Series 52		
		PORTING		
PUMP - MA10V(S)O60**62N00		SAE - SIDE PORTS		
PUMP - MA10V(S)O60**12N00		METRIC - SIDE PORTS		
PUMP - MA10V(S)O60**61N00		SAE - REAR PORTS		
PUMP - MA10V(S)O60**11N00		METRIC - REAR PORTS		
PUMP - MA10V(S)O63**12/62/11/61N00		REPLACEMENT FOR A10V(S)O63		
THRU DRIVE OPTION - K**				
K01 -- SAE A Mount (9 Tooth)		THE THRU DRIVE (K** OPTION) INCLUDES		
K02 -- SAE B Mount (13 Tooth)		COUPLING AND HARDWARE		
DESCRIPTION		QTY.	MA10V(S)O60 - Series 52	
			METARIS #	REFERENCE #
PISTON (EACH)		9 REQ.	B60-72-110	M2418043
RETAINER PLATE		1	B60-75-300	M2413087
BALL GUIDE		1		M973533
BARREL		1	B60-73-000	M973540
SPRING - SEAT		1	B60-78-000	M2400742
SPRING		1	B60-76-100	M975251
RETAINER		1	MPN107182	M9156218
LENS PLATE - LEFT		1	B60-74-200	M2451807
LENS PLATE - RIGHT		1	B60-74-100	M978570
PIN (EACH)		3 REQ.	B60-77-500	M2400741
SHAFT SPLINED (CODE S)		1	B60-50-341	M2413417
SHAFT SPLINED (CODE U)		1	B60-50-331	M987666
SHAFT KEYED (CODE K)		1	B60-50-141	M2413414
SHAFT SPLINED (THRU DRIVE CODE S)		1	B60-50-342	
ROTARY GROUP L.H.		1	B60-70-200	M926276
ROTARY GROUP R.H.		1	B60-70-100	M973744
YOKE L.H (52 Design)		1	B60-43-210	M975095
YOKE R.H (52 Design)		1	B60-43-110	M973545
CONTROLLER (DFR/ DRF)***		1	B00-30-100	M907094/ M942581
CONTROLLER (DFR1/ DRS)***		1	B00-30-200	M907096
CONTROLLER (DRG)***		1	B00-30-400	M916069
CONTROLLER (DR)***		1	B00-30-100	M907095
SHAFT BEARING - CUP/CONE		1	X03-33-13573	M70109-007
REAR BEARING - CUP/CONE		1	X03-33-12552	M33205
SADDLE BEARING -R		1	B60-03-612	M2413837
SADDLE BEARING - L		1	B60-03-622	M2413836
CONTROL PISTON ASSY		1	B60-40-500	M993694
SEAL KIT		1	B60-80-100	M408523
SEAL KIT - VITON		1	B60-80-200	M408523V

*** Controller Included with Pump

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REXROTH® MA10V(S)O71 - Series 31

DESCRIPTION		MA10VO71 - Series 31		
		PORTING		
PUMP - MA10V(S)O71**62/92N00		SAE - SIDE PORTS		
PUMP - MA10V(S)O71**12/42N00		METRIC - SIDE PORTS		
PUMP - MA10V(S)O71**61/91N00		SAE - REAR PORTS		
PUMP - MA10V(S)O71**11/41N00		METRIC - REAR PORTS		
PUMP - MA10V(S)O74**62/92/12/42/11/41N00		ALL TYPES AVAILABLE		
DFLR CONTROL OPTION				
THRU DRIVE OPTION - K**				
K01 - SAE A Mount (9 Tooth)		THE THRU DRIVE (K** OPTION) INCLUDES COUPLING AND HARDWARE		
K02 - SAE B Mount (13 Tooth)				
K03 - SAE B Mount (SAE B Keyed)				
K04 - SAE B Mount (15 Tooth)				
K05 - SAE B Mount (SAE BB Keyed)				
K07 - SAE C Mount (14 Tooth)				
K08 - SAE C Mount (SAE C Keyed)				
MA10VO71 - Series 31				
DESCRIPTION	QTY.	METARIS #	REFERENCE #	
PISTON (EACH)	9 REQ.	B71-72-110	M720011 / M924554	
RETAINER PLATE	1	B71-75-100	M919813	
BALL GUIDE	1	B71-75-200	M749745	
BARREL	1	B71-73-000	M907126	
SPRING - SEAT	1	B71-78-000	M720186	
SPRING	1	B71-76-100	M720178	
RETAINER	1	X05-04-45180	M919038	
LENS PLATE - LEFT	1	B71-74-200	M936640	
LENS PLATE - RIGHT	1	B71-74-100	M936641	
PIN (EACH)	3 REQ.	B71-77-500	M785423	
SHAFT METRIC (CODE P)	1	B71-50-291	M947821 / M995064	
SHAFT SPLINED (CODE S)	1	B71-50-341	M923553 / M947796	
SHAFT KEYED (CODE K)	1	B71-50-141	M926333 / M2412021	
SHAFT SPLINED (THRU DRIVE CODE S)	1	B71-50-342	M923471	
SHAFT KEYED (THRU DRIVE CODE K)	1	B71-50-142	M926344 / M2412030	
SHAFT METRIC (THRU DRIVE CODE P)	1	B71-50-292	M925556 / M987680	
SHAFT SPLINED (THRU DRV-CODE R)	1	B71-50-842	9622292	
ROTARY GROUP L.H.	1	B71-70-200	M947802 / M911929	
ROTARY GROUP R.H.	1	B71-70-100	M947801 / M956007	
YOKE L.H.	1	B71-43-220	M904689	
YOKE R.H.	1	B71-43-120	M903881	
YOKE LH DFLR	1	B71-43-220	M904689	
YOKE RH DFLR	1	B71-43-120	M961017	
CONTROLLER (DFR/ DRF)***	1	B00-30-100	M907094/ M942581	
CONTROLLER (DFR1/ DRS)***	1	B00-30-200	M907096	
CONTROLLER (DRG)***	1	B00-30-400	M916069	
CONTROLLER (DR)***	1	B00-30-100	M907095	
SHAFT BEARING - CUP/CONE	1	X03-33-13573	M70109-007	
REAR BEARING - CUP/CONE	1	X03-33-12557	M70109-008	
SADDLE BEARING (EACH)	2 REQ	B71-03-602	M902777	
BEARING KIT	1	B71-03-800	M5140-635-014	

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DESCRIPTION	QTY.	MA10VO71 - Series 31	
		METARIS #	REFERENCE #
THRU DRIVE COVER K07 / K08 (RH)*	1	B71-25-196	M5140-542-021
THRU DRIVE COVER K01 (RH)*	1	B71-23-196	M5140-542-017
THRU DRIVE COVER K02 / K04 (RH)*	1	B71-24-196	M5140-542-019
THRU DRIVE COVER K01 (LH)*	1	B71-23-296	M5140-542-018
THRU DRIVE COVER K02 / K04 (LH)*	1	B71-24-296	M5140-542-020
THRU DRIVE COVER K07 / K08 (LH)*	1	B71-25-296	M5140-542-022
CONTROL PISTON ASSY	1	B71-40-501	M910873 / 910870
COUPLING K01	1	B71-50-512	MBH00943545
COUPLING K02	1	B71-50-522	MBH00943547
COUPLING K03	1	B71-50-622	M795682
COUPLING K04	1	B71-50-532	MBH00943548
COUPLING K05	1	B71-50-632	M764906
COUPLING K07	1	B71-50-542	MBH00943549
COUPLING K08	1	B71-50-642	M766895
SEAL KIT	1	B71-80-100	M915846 / M5140-635-005
SEAL KIT - VITON	1	B71-80-200	M915846V / M5140-635-007

*** Controller Included with Pump

* Does not include Coupling/Hardware

REXROTH® MA10V(S)O100 - Series 31

DESCRIPTION		MA10VO100 - Series 31		
		PORTING		
PUMP - MA10V(S)O100**62N00		SAE - SIDE PORTS		
PUMP - MA10V(S)O100**12N00		METRIC - SIDE PORTS		
PUMP - MA10V(S)O100**61N00		SAE - REAR PORTS		
PUMP - MA10V(S)O100**11N00		METRIC - REAR PORTS		
DFLR CONTROL OPTION				
THRU DRIVE OPTION - K**				
K01 - SAE A Mount (9 Tooth)		<i>THE THRU DRIVE (K** OPTION) INCLUDES COUPLING AND HARDWARE</i>		
K02 - SAE B Mount (13 Tooth)				
K04 - SAE B Mount (15 Tooth)				
K07 - SAE C Mount (14 Tooth)				
K08 - SAE C Mount (SAE C Keyed)				
K24 - SAE C Mount (17 Tooth)				
K52- SAE A Mount - (11 Tooth)				
DESCRIPTION	QTY.	MA10VO100 - Series 31		
		METARIS #	REFERENCE #	
PISTON (EACH)	9 REQ.	B10-72-110	M925463 / M2418003	
RETAINER PLATE	1	B10-75-100	M967136 / M996526	
BALL GUIDE	1	B10-75-200	M906813 / M944744	
BARREL	1	B10-73-000	M906882 / M2407207	
SPRING - SEAT	1	B10-78-000	M906880	
SPRING	1	MPN400031	M906894	
RETAINER	1	X05-02-62200	M791555	
LENS PLATE - LEFT	1	B10-74-200	M936639	
LENS PLATE - RIGHT	1	B10-74-100	M936661	
PIN (EACH)	3 REQ.	B10-77-500	M906879	
SHAFT SPLINED (CODE U)	1	B10-50-341	M2410600 / M923312	
SHAFT SPLINED (CODE S)	1	B10-50-381	M924553 / M987698	
SHAFT KEYED (CODE K)	1	B10-50-181	M923317/ M2410595	
SHAFT METRIC (CODE P)	1	B10-50-291	M925162 / M987699	
SHAFT SPLINED (THRU DRIVE CODE R)	1	B10-50-882	M993523	
SHAFT SPLINED (THRU DRIVE CODE W)	1	B10-50-842	M987686	
SHAFT METRIC (THRU DRIVE CODE P)	1	B10-50-292	M923709 / M987697	
SHAFT KEYED (THRU DRIVE CODE K)	1	B10-50-182	M924552 / M2410605	
SHAFT SPLINED (THRU DRIVE CODE S)	1	B10-50-382	M923316	
ROTARY GROUP L.H.	1	B10-70-200	M907681 / M948604	
ROTARY GROUP R.H.	1	B10-70-100	M948603 / M906871	
YOKE L.H.	1	B10-43-210	M948606	
YOKE R.H.	1	B10-43-110	M961050	
YOKE LH DFLR	1	B10-43-220	M948606	
YOKE RH DFLR	1	B10-43-120	M093881	
CONTROLLER (DFR/ DRF)***	1	B00-30-100	M907094/ M942581	
CONTROLLER (DFR1/ DRS)***	1	B00-30-200	M907096	
CONTROLLER (DRG)***	1	B00-30-400	M916069	
CONTROLLER (DR)***	1	B00-30-100	M907095	

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 OEM Part #'s displayed for reference purposes only. METPISTPLV15

DESCRIPTION	QTY.	MA10VO100 - Series 31	
		METARIS #	REFERENCE #
SHAFT BEARING - CUP/CONE	1	X03-33-14587	M906908
REAR BEARING - CUP/CONE	1	X03-333-13062	M906909
SADDLE BEARING (EACH)	2 REQ	B10-03-602	M906881
CONTROL PISTON ASSY	1	B10-40-501	M913784
THRU DRIVE COVER K01/ K52(RH)	1	B10-23-147	M910375
THRU DRIVE COVER K01/ K52(LH)	1	B10-23-247	910729
THRU DRIVE COVER K02 / K04 (RH)*	1	B10-24-147	910369
THRU DRIVE COVER K02 / K04 (LH)*	1	B10-24-247	
THRU DRIVE COVER K71 / K24 / K08 (RH)*	1	B10-25-147	
THRU DRIVE COVER K71 / K24 / K08 (LH)*	1	B10-25-247	
COUPLING K01	1	B10-50-512	M943560
COUPLING K02	1	B10-50-522	M943562
COUPLING K04	1	B10-50-532	M943563
COUPLING K07	1	B10-50-542	M943564
COUPLING K08	1	B10-50-642	M943569
COUPLING K24	1	B10-50-582	M943565
COUPLING K52	1	B10-50-592	M943561
SEAL KIT	1	B10-80-100	M915847
SEAL KIT - VITON	1	B10-80-200	M915847V

*** Controller Included with Pump

REXROTH® MA10V(S)O140 - Series 31

DESCRIPTION		MA10VO140 - Series 31		
		PORTING		
PUMP - MA10V(S)O140**62N00		SAE - SIDE PORTS		
PUMP - MA10V(S)O140**12N00		METRIC - SIDE PORTS		
DFLR CONTROL OPTION				
THRU DRIVE OPTION - K**				
K07 -SAE C Mount (14 Tooth)		THE THRU DRIVE (K** OPTION) INCLUDES COUPLING AND HARDWARE		
K17 - SAE D Mount (13 Tooth)				
DESCRIPTION		QTY.	MA10VO140 - Series 31	
			METARIS #	REFERENCE #
PISTON (EACH)	9 REQ.	B14-72-110	M925464	
RETAINER PLATE	1	B14-75-100	M996527	
BALL GUIDE	1	B14-75-200	M944745	
BARREL	1	B14-73-000	M945341	
SPRING - SEAT	1	B14-78-000	M917727	
SPRING	1	B14-76-100	M918171	
RETAINER	1	X05-02-58200	918189	
LENS PLATE - LEFT	1	B14-74-200	M975126	
LENS PLATE - RIGHT	1	B14-74-100	M973907 / M975125	
PIN (EACH)	3 REQ.	B14-77-500	M917728	
SHAFT SPLINED (CODE S)	1	B14-50-351	M923593 / M948614	
SHAFT KEYED (CODE K)	1	B14-50-151	M923315 / M948513	
SHAFT METRIC (CODE P)	1	B14-50-291	M923594 / M948612	
SHAFT KEYED (THRU-DRIVE CODE K)	1	B14-50-152	M923314	
SHAFT SPLINED (THRU-DRIVE CODE S)	1	B14-50-352	M923595	
SHAFT METRIC (THRU-DRIVE CODE P)	1	B14-50-292	M923313	
ROTARY GROUP L.H.	1	B14-70-200	M948618	
ROTARY GROUP R.H.	1	B14-70-100	M948617	
YOKE L.H.	1	B14-43-210	M948620	
YOKE R.H.	1	B14-43-110	M948619	
CONTROLLER (DFR/DFR1)*	1	B14-30-100	M924993	
CONTROLLER (DRG)*	1	B14-30-400	M928528	
CONTROLLER (DR)*	1	B14-30-300	M920182	
SHAFT BEARING - CUP/CONE	1	MPN101573	M918203	
REAR BEARING - CUP/CONE	1	MPN091749	M32207F	
SADDLE BEARING (EACH)	2	B14-03-602	M918174	
COUPLING K07	1	B14-50-542	M921508	
COUPLING K17	1	B14-50-552	M932172	
SEAL KIT	1	B14-80-100	M941169	
SEAL KIT - VITON	1	B14-80-200	M941169V	

*** Controller Included with Pump

REXROTH® MA8VO107

DESCRIPTION	QTY.	MA8VO107	
		METARIS #	REFERENCE #
ROTATING GROUP (DRIVE)	1	B87-70-112	M428522 / M441183
ROTATING GROUP (DRIVE) 215/225 Exc.	1	MPN108021	
ROTATING GROUP (IDLER)	1	B87-70-211	M428185 / M441184
ROTATING GROUP (w/o SHAFT)	1	B87-70-000	M434586
VALVE PLATE - LEFT	1	B87-74-200	M650454
VALVE PLATE - RIGHT	1	B87-74-100	M650453
CYLINDER BARREL	1	B87-73-000	M430886
SCREW (EACH)	14 REQ.	X41-21-05016	M449235
PISTON RING (EACH)	7 REQ.	B87-72-300	M156248
RETAINER PLATE	1	B87-75-100	M444764
PISTON (EACH)	7 REQ.	B87-72-110	M443469
PISTON WITH RING (EACH)	7 REQ.	B87-72-120	M2021910
SPACER	1	AS REQUIRED	AS REQUIRED
SHIM	1	AS REQUIRED	AS REQUIRED
DISC SPRING (EACH)	4 REQ.	B87-76-200	M409134
CENTER PIN	1	B87-77-400	M410289
DRIVE SHAFT (Main)	1	B87-50-399	M430673
DRIVE SHAFT (Hub)	1	B87-50-999	M411723 / M425724
DRIVE SHAFT (24 Tooth)	1	MPN101743	
SHAFT BEARING (ASSEMBLY)	1	MPN098921	M154486
SEAL KIT	1	B87-80-200	M270941
CUP COLLAR	1	B87-92-051	M412570

REXROTH® MA8VO160

DESCRIPTION	QTY.	MA8VO160	
		METARIS #	ALTERNATIVE #
ROTARY GROUP - DRIVE (RH)	1	C268-70-112	
ROTARY GROUP - IDLER (LH)	1	C268-70-211	
ROTARY GROUP w/o SHAFT	1	B86-70-000	
DRIVE SHAFT - DRIVE	1	MPN400055	M436475
DRIVE SHAFT - IDLER	1	MPN400056	M436474
VALVE PLATE - LEFT	1	B86-74-200	M650456
VALVE PLATE - RIGHT	1	B86-74-100	M650455
CYLINDER BARREL	1	B86-73-000	M430794
SCREW (EACH)	14 REQ.	X41-21-06020	M831108
PISTON RING (EACH)	7 REQ.	B86-72-300	M9831897
RETAINER PLATE	1	B86-75-100	M6269
PISTON (EACH)	7 REQ.	B86-72-110	M440274
PISTON WITH RING (EACH)	7 REQ.	B86-72-120	M2021911
SPACER	1	AS REQUIRED	AS REQUIRED
DISC SPRING (EACH)	4 REQ.	MPN025016	M410551
CENTER PIN	1	B86-77-400	M410552
BEARING ASSEMBLY	1	MPN101942	
BEARING (Main)*	1	MPN400057	M156512
BEARING - SHAFT	1	MPN400058	M23232
CUP COLLAR	1	MPN025018	M414031

REXROTH® MA8VO200	DESCRIPTION	QTY.	MA8VO200	
			METARIS #	REFERENCE #
	ROTATING GROUP (C/W DRIVE SHAFT)	1	B82-70-112	
	ROTATING GROUP (IDLER)	1	B82-70-211	
	ROTATING GROUP (w/o SHAFT)	1	B82-70-000	
	IDLER SHAFT	1	B82-50-999	
	VALVE PLATE - LEFT	1	B82-74-200	
	VALVE PLATE - RIGHT	1	B82-74-100	2074401
	BARREL	1	B82-73-000	
	SCREWS	14 REQ.	B82-75-100	
	PISTON RINGS	14 REQ.	B82-72-300	
	PISTON	7 REQ.	B82-72-110	
	RETAINER PLATE	1	B82-75-100	
	SPACER KIT	1	B82-92-000	
	DISC SPRING	4REQ.	B82-73-200	
	CENTER PIN	1	B82-77-400	
	BEARING ASSEMBLY	1	MPN101942	
	FRONT BEARING	1	MPN108149	
	RETAINING RING	1	MPN108151	
	PLATE	1	B82-92-601	
	PLATE	1	B82-92-602	
	PLATE	1	B82-92-603	
	PLATE	1	B82-92-604	
	PLATE	1	B82-92-605	
	PLATE	1	B82-92-606	
	PLATE	1	B82-92-607	
	PLATE	1	B82-92-608	
	SHIM	1	B82-92-981	
	SHIM	1	B82-92-982	
	SHIM	1	B82-92-983	
	SHIM	1	B82-92-984	
	SHIM	1	B82-92-985	
REXROTH® MA2F107	DESCRIPTION	QTY.	MA2F107	
			METARIS #	REFERENCE #
	PISTON (EACH)	7 REQ.	B27-72-110	M426823 / M410321
	RETAINER PLATE	1	B87-75-100	M444764
	BARREL	1	B27-73-010	M421288 / M421309
	SPRING	1	B27-76-200	M400105
	CENTER PIN	1	B27-77-400	M409486
	VALVE CONTROL PLATE -RH	1	B27-74-100	M650851

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VICKERS® MPVE19/21	DESCRIPTION		QTY	MPVE 19	
				METARIS #	REFERENCE #
	Rotating Group Assembly	1	MPN093160	M923948	
	Barrel	1	MPN093151	M426454	
	Piston (EACH)	9 REQ.	MPN093627	M923939	
	Shoe Cage {Retainer Plate}	1	MPN093628	M402650	
	Ball Guide (Spherical Washer)	1	MPN093629	M402580	
	Valve Plate - LH	1	MPN093152	M425415	
	Valve Plate - RH	1	MPN093153	M425412	
	Pin Retainer	1	MPN093165	M410050	
	Pin (EACH)	3 REQ.	MPN093155	M248810	
	Spring	1	MPN093157	M402579	
	Spring Washer a	1	MPN093156	M404932	
	Spring Washer b	1	MPN093158	M423368	
	Snap Ring	1	MPN093159	M99907	
	Seal Kit	1	MPN093163	M923989	
	Yoke	1	MPN105133	M409997	
	DESCRIPTION		QTY	MPVE 21	
				METARIS #	REFERENCE #
	Rotating Group Assembly	1	MPN093171	M923947	
	Barrel	1	MPN093161	M418215	
	Piston (EACH)	9 REQ.	MPN093162	M923946	
	Shoe Cage {Retainer Plate}	1	MPN093628	M402650	
	Ball Guide (Spherical Washer)	1	MPN093629	M402580	
	Valve Plate - LH	1	MPN093164	M425416	
	Valve Plate - RH	1	MPN093630	M425413	
	Load Sensing Control Valve	1	MPN090694	M02-125161	
	Standard 'C' Compensator	1	MPN090509	M02-125160	
Pin Retainer	1	MPN093165	M410050		
Pin (EACH)	3 REQ.	MPN093155	M248810		
Spring	1	MPN093157	M402579		
Spring Washer a	1	MPN093156	M404932		
Spring Washer b	1	MPN093158	M423368		
Snap Ring	1	MPN093159	M99907		
Seal Kit	1	MPN093163	M923989		
Yoke	1	MPN105133	M409997		

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VICKERS® MPVH57 / MPVE27	DESCRIPTION	QTY	MPVH 57 / MPVE 27	
			METARIS #	REFERENCE #
	PUMP - MPVH57	1	See Model Code for Configurations	
	PUMP - MPVE27 Replacement*			
	PVE Adapter Kit**			
	Thru Drive Option			
	Rotating Group Assembly MPVE27	1	MPN098556	M938102
	Rotating Group Assembly MPVH57	1	MPN098418	M877420
	Barrel	1	MPN093108	M937023 / M680625
	Piston (EACH)	9 REQ.	MPN093109	M306362
	Piston Kit (SET)	1	MPN098552	M926257
	Shoe Cage (Retainer Plate)	1	MPN093110	M584512
	Valve Plate - LH	1	MPN093115	M680631
	Valve Plate - RH	1	MPN093116	M680630
	Yoke PVH57	1	MPN093118	M690832
	Shaft (Keyed) - #1	1	MPN107679	M527166
	Shaft (Splined) - #2	1	MPN101819	M513839
	Shaft (Splined) - #8	1	MPN101595	M913978
	Shaft (Splined) - #10	1	MPN101418	M857787
	Shaft (Splined) - #24	1	MPN101419	M997024
	Shaft - Thru-Drive (Splined) - #2	1	MPN101680	M526684
	Saddle Bearing (W) MPVH57 (each)	1	MPN092338	M513885
	Saddle Bearing (N) MPVH57 (each)	1	MPN092339	M513886
	Coupling SAE C - 14 Tooth	1	MPN101753	M526696
	Coupling SAE B - 13 Tooth	1	MPN101754	M526694
	Coupling SAE BB - 15 Tooth	1	MPN101752	M526695
	Thru Drive Cover (RH) MPVH57 SAE		MPN101679	M928730
	Thru Drive Cover (LH) MPVH57 SAE	1	MPN101678	M928705
	Spacer Pair (2pc Included)	2 REQ.	MPN093119	M690801
	Spring Guide	1	MPN093111	M680624
	Shaft Bearing	1	X03-33-13565	M513433
	Spring	1	MPN093112	M627524
	Spring Guide	1	MPN093113	M584524
	Retaining Ring	1	MPN093114	M85560
	Spacer PVE27	1	MPN098072	M632587
	Swash Plate PVE27	1	MPN098075	M584515
	Load Sensing Control Valve	1	MPN090694	M02-125161
	Standard 'C' Compensator	1	MPN090509	M02-125160
	Limiter Pair (2pc Included)	2 REQ.	MPN093120	M690218
	Gasket - PVH	1	MPN093624	M513846
	Seal Kit - PVH	1	MPN400125	M102244

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VICKERS® MPVH74/ MPVE35	DESCRIPTION	QTY	MPVH 74 / MPVE 35	
			METARIS #	REFERENCE #
	PUMP - MPVH74	1	See Model Code for Configurations	
	PUMP - MPVE35 Replacement*			
	PVE Adapter Kit**			
	Thru Drive Option			
	Rotating Group Assembly PVH74	1	MPN098417	M877421
	Rotating Group Assembly PVE35	1	MPN098451	M938101
	Barrel	1	MPN092725	M937025 / M680626
	Piston (EACH)	9 REQ.	MPN092724	M305857
	Piston Kit (SET)	1	MPN093626	M941424
	Shoe Cage (Retainer Plate)	1	MPN093631	M584774
	Valve Plate - LH	1	MPN093632	M627437
	Valve Plate - RH	1	MPN400060	M627438
	Valve Plate (QI) - LH - PVH	1	MPN095586	M513890
	Valve Plate (QI) - RH - PVH	1	MPN107583	M513889
	Yoke - PVH	1	MPN093105	M526651
	Shaft (Keyed) - #1 (74 only)	1	MPN107676	M692567
	Shaft (Splined) - #2 (74 only)	1	MPN107677	M513865
	Shaft (Threaded-Keyed) - #5 (74 only)	1	MPN107166	M883252
	Shaft (Splined) - #10 - (74 only)	1	MPN107167	M883326
	Shaft Thru-Drive (Splined) - #2 (74 only)	1	MPN107119	M883229
	Shaft Thru-Drive (Splined) - #10 (74 only)	1	MPN109000	M875792
	Coupling SAE B - 13 Tooth	1	MPN101758	M864457
	Coupling SAE BB - 15 Tooth	1	MPN101755	M864459
	Coupling SAE C - 14 Tooth	1	MPN101756	M864458
	Coupling SAE CC - 17 Tooth	1	MPN101757	M864461
	Coupling SAE A - 9 Tooth	1	MPN101838	M864460
	Thru Drive Cover (RH) (MPVH74) SAE	1	MPN101827	M928732
	Thru Drive Cover (LH) (MPVH74) SAE	1	MPN101355	M928707
	Spacer (2pc Included)	2 REQ.	MPN093106	M526639
	Spring Guide	1	MPN400061	M631568
	Spring	1	MPN400062	M584454
	Spring Guide	1	MPN400063	M584483
	Retaining Ring	1	MPN400064	M91365
	Spacer PVE35	1	MPN098074	M584473
	Yoke PVE74	1	MPN090156	M526651
	Swash Plate PVE35	1	MPN098076	M631567
	Limiter (2pc Included)	2 REQ.	MPN093107	M690796
	Load Sensing Control Valve	1	MPN090694	M02-125161
	Standard 'C' Compensator	1	MPN090509	M02-125160
	Gasket MPVH74	1	MPN101332	M526631
	Seal Kit MPVH74	1	MPN400066	M102262
	Saddle Bearing (N) PVH74 (each)	1	MPN098399	M513927
	Saddle Bearing (W) PVH74 (each)	1	MPN098400	M513926

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VICKERS® MPVH98/ MPVE47	DESCRIPTION	QTY	MPVH 98 / MPVE 47	
			METARIS #	REFERENCE #
	PUMP - PVH98	1	See Model Code for Configurations	
	PUMP - PVE47 Replacement*			
	PVE Adapter Kit**			
	Thru Drive Option			
	Rotating Group Assembly PVH98	1	MPN098419	M877422
	Rotating Group Assembly PVE47	1	MPN098554	M938103
	Barrel	1	MPN091101	M680627
	Piston (EACH)	9 REQ.	MPN091100	M02-152400
	Piston Kit (SET)	1	MPN098553	M926246
	Shoe Cage (Retainer Plate)	1	MPN025013	M584539
	Valve Block - RH	1	MPN098098	M928635
	Valve Block - LH	1	MPN091104	M928684
	Valve Block Metric -LH	1	MPN091105	M928685
	Mobile Valve Plate - LH	1	MPN091106	M584540
	Mobile Valve Plate - RH	1	MPN091107	M627371
	Industrial Valve Plate - RH	1	MPN090489	M514122
	Industrial Valve Plate - LH	1	MPN090503	M514120
	Yoke PVH98	1	MPN090508	M513629
	Saddle Bearing (W)	1	MPN095061	M513911
	Saddle Bearing (N)	1	MPN095062	M513912
	Front Shaft Bearing	1	MPN092123	M388154
	Rear Shaft Bearing	1	MPN092126	M413603
	Shaft (Keyed) - #1	1	MPN091568	M527167
	Shaft (Splined) - #2	1	MPN090488	M513627
	Shaft Thru-Drive (Splined) - #2	1	MPN101374	M860679
	Shaft Thru-Drive (Splined) - #3	1	MPN101416	M864453
	Shaft Thru-Drive (Threaded-Keyed) - #5	1	MPN109001	M500613
	Coupling SAE B - 13 Tooth	1	MPN101579	M877040
	Coupling SAE BB - 15 Tooth	1	MPN101638	M877044
	Coupling SAE C - 14 Tooth	1	MPN101580	M877045
	Coupling SAE CC - 17 Tooth	1	MPN101639	M877046
	Coupling SAE A - 9 Tooth	1	MPN101839	M877039
	Thru Drive Cover (RH) (MPVH98) SAE	1	MPN101910	M928732
	Thru Drive Cover (LH) (MPVH98) SAE	1	MPN101375	M928710
	Spacer PVH98 (2pc Included)	2 REQ.	MPN092271	M513625
	Spacer PVE47	1	MPN098073	M584545
	Spring Guide	1	MPN091596	M584546
	Spring	1	MPN091597	M627192
	Spring Guide	1	MPN091594	M584547
	Retaining Ring	1	MPN091595	M102038
	Swash Plate PVE47	1	MPN098077	M584531
	Limiter (Pair)	2 REQ.	MPN091103	M513626
	Load Sensing Control Valve	1	MPN090694	M02-125161
	Standard 'C' Compensator	1	MPN090509	M02-125160
	Shaft Seal	1	MPN091827	M589332
	Gasket (Metal)	1	MPN091593	M513631
	Seal Kit	1	MPN092717	M102264

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VICKERS® MPVH106

DESCRIPTION	QTY	MPVH 106	
		METARIS #	REFERENCE #
PUMP - PVH106	1	See Model Code for Configurations	
Thru Drive Option			
Rotating Group Assembly	1	MPN101979	02-102053
Barrel	1	MPN102084	688218
Piston (EACH)	9 REQ.	MPN102085	02-306365
Shoe Cage (Retainer Plate)	1	MPN102086	688217
Valve Block - RH	1	MPN101978	688219
Valve Block - LH	1	MPN102087	688220
Valve Block Metric -LH	1	MPN091105	M928685
Mobile Valve Plate - LH	1	MPN091106	M584540
Mobile Valve Plate - RH	1	MPN091107	M627371
Industrial Valve Plate - RH	1	MPN090489	M514122
Industrial Valve Plate - LH	1	MPN090503	M514120
Yoke PVH98	1	MPN090508	M513629
Saddle Bearing (W)	1	MPN095061	M513911
Saddle Bearing (N)	1	MPN095062	M513912
Front Shaft Bearing	1	MPN092123	M388154
Rear Shaft Bearing	1	MPN092126	M413603
Shaft (Keyed) - #1	1	MPN091568	M527167
Shaft (Splined) - #2	1	MPN090488	M513627
Shaft Thru-Drive (Splined) - #2	1	MPN101374	M860679
Shaft Thru-Drive (Splined) - #3	1	MPN101416	M864453
Shaft Thru-Drive (Threaded-Keyed) - #5	1	MPN109001	M500613
Coupling SAE B - 13 Tooth	1	MPN101579	M877040
Coupling SAE BB - 15 Tooth	1	MPN101638	M877044
Coupling SAE C - 14 Tooth	1	MPN101580	M877045
Coupling SAE CC - 17 Tooth	1	MPN101639	M877046
Coupling SAE A - 9 Tooth	1	MPN101839	M877039
Thru Drive Cover (RH) SAE	1	MPN101910	M928732
Thru Drive Cover (LH) SAE	1	MPN101375	M928710
Spacer (2pc Included)	2 REQ.	MPN092271	M513625
Spring Guide	1	MPN091596	M584546
Spring	1	MPN091597	M627192
Spring Guide	1	MPN091594	M584547
Retaining Ring	1	MPN091595	M102038
Limiter (Pair)	2 REQ.	MPN091103	M513626
Load Sensing Control Valve	1	MPN090694	M02-125161
Standard 'C' Compensator	1	MPN090509	M02-125160
Shaft Seal	1	MPN091827	M589332
Gasket (Metal)	1	MPN091593	M513631
Seal Kit	1	MPN092717	M102264

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VICKERS® MPVH131	DESCRIPTION	QTY	MPVH 131	
			METARIS #	REFERENCE #
	PUMP - PVH131	1	See Model Code for Configurations	
Thru Drive Option				
Rotating Group Assembly	1	MPN098425	M877419	
Barrel	1	MPN093699	M680628	
Piston (EACH)	9 REQ.	MPN025003	M159749	
Shoe Cage {Retainer Plate}	1	MPN025011	M683791	
Valve Plate - LH	1	MPN095223	M527163	
Valve Plate - RH	1	MPN095224	M527164	
Yoke	1	MPN095225	M692941	
Spacer Kit (2 pcs included)	2 REQ.	MPN095226	M526757	
Limitter (2 pcs included)	2 REQ.	MPN095227	M526758	
Saddle Bearing (W)	1	MPN098401	M692949	
Saddle Bearing (N)	1	MPN098402	M692948	
Shafts Splined # 2	1	MPN102424	M860802	
Shaft splined # 3	1	MPN102069	M877042	
Shafts # 6	1	MPN102324	M928810	
Shaft Splined # 10	1	MPN102323	M913395	
Shaft splined # 12	1	MPN102322	M860593	
Shaft Keyed # 13	1	MPN102309	M876175	
Shaft keyed # 23	1	MPN102321	M913685	
Shaft Thru-Drive # 3	1	MPN102320	M876177	
Shaft Thru-Drive Keyed # 6	1	MPN102071	M877049	
Shaft Thru-Drive Splined # 10	1	MPN102072	M913561	
Shaft Thru-Drive Splined # 12	1	MPN102070	M860594	
Shaft Thru-Drive Keyed # 23	1	MPN102073	M883240	
Coupling SAE BB - 15 Tooth	1	MPN101638	M877044	
Coupling SAE C - 14 Tooth	1	MPN101580	M877045	
Coupling SAE CC - 17 Tooth	1	MPN101639	M877046	
Coupling SAE B - 13 Tooth	1	MPN101579	M877039	
Thru Drive Cover (RH) (MPVH131) SAE	1	MPN101814	M928736	
Thru Drive Cover (LH) (MPVH131) SAE	1	MPN101813	M928713	
Gasket (Metal)	1	MPN107566	M526760	
Load Sensing Control Valve	1	MPN090694	M02-125161	
Standard 'C' Compensator	1	MPN090509	M02-125160	
Spring Guide	1	MPN098140	M581104	
Spring	1	MPN098139	M626111	
Spring Guide	1	MPN098138	M417667	
Retaining Ring	1	MPN098141	M135066	
Seal Kit	1	MPN099711	M102266	

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DESCRIPTION		SERIES 5 to 29	
		METARIS #	ALTERNATIVE #
MPVB 5/6 PUMP		MPN102272	
MPVB 10/15 PUMP		MPN102289	
MPVB 20/29 PUMP		MPN102273	
DESCRIPTION	QTY.	MPVB 5/6	
		METARIS #	ALTERNATIVE #
ROTATING GROUP - PVB 5	1	MPN090157	M875775
PISTON KIT (SET OF 9) - PVB 5	1	MPN091856	M942229
ROTATING GROUP PVB6	1	MPN091092	M875773
PISTON KIT (SET OF 9) -PVB6	1	MPN091857	M942230
VALVE PLATE LH - MPVB5/6	1	MPN091861	M942224
VALVE PLATE RH - MPVB5/6	1	MPN090158	M942223
SHAFT - KEYED	1	MPN091098	M266162
SHAFT - SPLINED	1	MPN091845	M286848
SHAFT BEARING	1	MPN091647	M283233
PINTLE BEARING *	1	MPN091649	M317572
SEAL KIT (NITRILE)	1	MPN091653	M919191
DESCRIPTION	QTY.	MPVB 10/15	
		METARIS #	ALTERNATIVE #
ROTATING GROUP - PVB10	1	MPN090160	M938276
PISTON KIT (SET OF 9) - PVB10	1	MPN091858	M942047
ROTATING GROUP - PVB15	1	MPN090785	M938273
PISTON KIT (SET OF 9) - PVB15	1	MPN091859	M941887
VALVE PLATE LH - MPVB15	1	MPN091863	M942162
VALVE PLATE RH - MPVB15	1	MPN091862	M942163
VALVE PLATE LH - MPVB10	1	MPN091864	M942161
VALVE PLATE RH - MPVB10	1	MPN091865	M942160
SHAFT - KEYED	1	MPN091099	M261478
SHAFT - SPLINED	1	MPN091846	M292077
SHAFT BEARING	1	MPN091648	M284397
PINTLE BEARING *	1	MPN091641	M012016
SEAL KIT (NITRILE)	1	MPN091654	M919682
DESCRIPTION	QTY.	MPVB 20/29	
		METARIS #	ALTERNATIVE #
ROTATING GROUP - PVB20	1	MPN090163	M938274
PISTON KIT (SET OF 9) - PVB20	1	MPN090819	M941883
ROTATING GROUP - PVB29	1	MPN091094	M938275
PISTON KIT (SET OF 9) - PVB29	1	MPN091860	M941888
VALVE PLATE LH - MPVB29	1	MPN091866	M942172
VALVE PLATE RH - MPVB29	1	MPN091867	M942171
VALVE PLATE LH - MPVB20	1	MPN090210	M942170
VALVE PLATE RH - MPVB20	1	MPN090164	M942169
SHAFT - KEYED	1	MPN091096	M362135
SHAFT - SPLINED	1	MPN091847	M282880
SHAFT BEARING	1	MPN091646	M283090
PINTLE BEARING *	1	MPN091651	M353230
SEAL KIT (NITRILE)	1	MPN091655	M919683

SUNDSTRAND® MSPV20 Series

DESCRIPTION		SERIES 20 to 23	
		METARIS #	ALTERNATIVE #
Charge Pump 1.1 LH		MPN102272	M9510656LX
Charge Pump 1.1 RH		MPN102289	M9510656RX
Charge Pump .75 LH		MPN102273	M9510655LX
Charge Pump .75 RH		MPN102290	M9510655RX
DESCRIPTION		SERIES 20 (SPV20)	
		METARIS #	ALTERNATIVE #
	QTY.		
ROTATING GROUP	1	MPN091075	M510149
VALVE PLATE - RH	1	MPN090149	M9200428
VALVE PLATE - LH	1	MPN090148	M9200429
MOTOR PLATE	1	MPN090128	M9200430
THRUST PLATE	1	MPN090137	M9200159
BEARING PLATE	1	MPN090136	M9200216
BALL GUIDE	1	MPN090147	M9200124
SLIPPER RETAINER	1	MPN090146	M9200158
PISTON (EACH)	9 REQ.	MPN090145	M9200499/ M501528
CYLINDER BLOCK	1	MPN090144	M49155
PUMP GASKET KIT (Includes Shim Kit)	1	MPN090645	M9510224
MOTOR GASKET KIT FIXED (Includes Shim Kit)	1	MPN090942	M9510225
MOTOR GASKET KIT VARIABLE (Includes Shim Kit)	1	MPN090947	M9510226
SHAFT SEAL	1	MPN080160	M9510189
DESCRIPTION		SERIES 21 (SPV21)	
		METARIS #	ALTERNATIVE #
	QTY.		
ROTATING GROUP	1	MPN091076	M9210696
VALVE PLATE - RH	1	MPN090143	M9210478
VALVE PLATE - LH	1	MPN090142	M9210479
MOTOR PLATE	1	MPN090127	M9210480
THRUST PLATE	1	MPN090150	M9210293
BEARING PLATE	1	MPN090135	M9210658
BALL GUIDE	1	MPN080163	M9210219
SLIPPER RETAINER	1	MPN080162	M9210292
PISTON - WELDED (EACH)	9 REQ.	MPN093420	M9510408-0010
CYLINDER BLOCK	1	MPN090141	M9210576
PUMP GASKET KIT (Includes Shim Kit)	1	MPN090646	M9510227
MOTOR GASKET KIT FIXED (Includes Shim Kit)	1	MPN090943	M9510228
MOTOR GASKET KIT VARIABLE (Includes Shim Kit)	1	MPN090948	M9510229
SHAFT SEAL	1	MPN080160	M9510189
DESCRIPTION		SERIES 22 (SPV22)	
		METARIS #	ALTERNATIVE #
	QTY.		
ROTATING GROUP	1	MPN091077	M9221448
VALVE PLATE - RH	1	MPN090140	M9220990
VALVE PLATE - LH	1	MPN090139	M9220991
MOTOR PLATE	1	MPN090126	M9220992
THRUST PLATE	1	MPN090138	M9220626
BEARING PLATE	1	MPN090076	M9221335

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	DESCRIPTION	QTY.	SERIES 22 (SPV22)	
			METARIS #	ALTERNATIVE #
	BALL GUIDE	1	MPN080173	M9220500
	SLIPPER RETAINER	1	MPN080172	M9220628
	PISTON - WELDED (EACH)	9 REQ.	MPN093421	M9510408-0001
	CYLINDER BLOCK	1	MPN090134	M9221102
	PUMP GASKET KIT (Includes Shim Kit)	1	MPN090647	M9510230
	MOTOR GASKET KIT FIXED (Includes Shim Kit)	1	MPN090944	M9510231
	MOTOR GASKET KIT VARIABLE (Includes Shim Kit)	1	MPN090949	M9510232
	SHAFT SEAL	1	MPN080160	M9510189
	SHAFT - 21 Tooth	1	MPN090660	M9220417
	DESCRIPTION	QTY.	SERIES 23 (SPV23)	
			METARIS #	ALTERNATIVE #
	ROTATING GROUP	1	MPN091078	M9230973
	VALVE PLATE - RH	1	MPN090133	M9230560
	VALVE PLATE - LH	1	MPN090132	M9230561
	MOTOR PLATE	1	MPN090125	M9230562
	THRUST PLATE	1	MPN080404	M9230235
	BEARING PLATE	1	MPN090077	M9230881
	BALL GUIDE	1	MPN080405	M9230158
	SLIPPER RETAINER	1	MPN080403	M9230234
	PISTON - WELDED (EACH)	9 REQ.	MPN093422	M9510408-0002
	CYLINDER BLOCK	1	MPN080401	M9230651
	PUMP GASKET KIT (Includes Shim Kit)	1	MPN090648	M9510233
	MOTOR GASKET KIT FIXED (Includes Shim Kit)	1	MPN090945	M9510234
	MOTOR GASKET KIT VARIABLE (Includes Shim Kit)	1	MPN090950	M9510235
	SHAFT SEAL	1	MPN090075	M9510190
	SHAFT - 14 Tooth	1	MPN090661	M9230476
	SHAFT - 21 Tooth	1	MPN090659	M9230325
	DESCRIPTION	QTY.	SERIES 24 (SPV24)	
			METARIS #	ALTERNATIVE #
	ROTATING GROUP	1	MPN091079	M9240641
	VALVE PLATE - RH	1	MPN090131	M9240277
	VALVE PLATE - LH	1	MPN090130	M9240278
	MOTOR PLATE	1	MPN090124	M9240279
	THRUST PLATE	1	MPN080409	M9240124
	BEARING PLATE	1	MPN090129	M9240560
	BALL GUIDE	1	MPN080410	M9240097
	SLIPPER RETAINER	1	MPN080408	M9240125
	PISTON (EACH)	9 REQ.	MPN093423	M9510408-0004
	CYLINDER BLOCK	1	MPN080406	M9240394
	PUMP GASKET KIT (Includes Shim Kit)	1	MPN090649	M9510236
	MOTOR GASKET KIT FIXED (Includes Shim Kit)	1	MPN090946	M9510237
	MOTOR GASKET KIT VARIABLE (Includes Shim Kit)	1	MPN090951	M9510238
	SHAFT SEAL	1	MPN090075	M9510190

SUNDRAND® MSPV20 Series

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SUNDSTRAND® MPV90 Series

DESCRIPTION	QTY.	SERIES 90 (55cc)	
		METARIS #	ALTERNATIVE #
ROTATING GROUP - PUMP	1	MPN093054	M80020S07
ROTATING GROUP - MOTOR	1	MPN093666	M80030S07
CYLINDER BLOCK Assy - W/O Speed Ring	1	MPN093667	M8000128
CYLINDER BLOCK Assy - W/ Speed Ring	1	MPN093668	M8000336
PISTON (EACH)	9 REQ.	MPN093064	M367672
VALVE PLATE, -2 DEGREE	1	MPN093056	M8000071
VALVE PLATE (PV90 R-55) CP15+0.5	1	MPN013158	M508125
MOTOR PLATE	1	MPN093060	M8000132
THRUST PLATE (Motor)	1	MPN093669	M8000374
RETAINER SLIPPER GUIDE	1	MPN095313	M8000072
SHIM-SLIPPER GUIDE RETAINER	1	MPN095316	M8000073

DESCRIPTION	QTY.	SERIES 90 (75cc)	
		METARIS #	ALTERNATIVE #
ROTATING GROUP - PUMP	1	MPN093053	M81020S07
ROTATING GROUP - MOTOR	1	MPN093681	M81030S07
CYLINDER BLOCK Assy - W/O Speed Ring	1	MPN093682	M8100267
CYLINDER BLOCK Assy - W/ Speed Ring	1	MPN093683	M8100525
PISTON (EACH)	9 REQ.	MPN093063	M708230
VALVE PLATE, +0 DEGREE	1	MPN093057	M518805
MOTOR PLATE	1	MPN093059	M8100278
THRUST PLATE (Motor)	1	MPN093685	M8100156
RETAINER SLIPPER GUIDE	1	MPN095314	M8100271
SHIM-SLIPPER GUIDE RETAINER	1	MPN095317	M8100272

DESCRIPTION	QTY.	SERIES 90 (100cc)	
		METARIS #	ALTERNATIVE #
ROTATING GROUP - PUMP	1	MPN093052	M82020S07
ROTATING GROUP - MOTOR	1	MPN093650	M82030S07
CYLINDER BLOCK Assy - W/O Speed Ring	1	MPN093651	M8200124
CYLINDER BLOCK Assy - W/ Speed Ring	1	MPN093652	M8200277
PISTON (EACH)	9 REQ.	MPN093062	M364000
VALVE PLATE, - 2 DEGREE	1	MPN093055	M518994
VALVE PLATE (PV90 R-55) CP15+0.5	1	MPN013159	M508806
MOTOR PLATE	1	MPN093058	M8200134
THRUST PLATE (Motor)	1	MPN093654	M8200167
RETAINER SLIPPER GUIDE	1	MPN095315	M8200128
SHIM-SLIPPER GUIDE RETAINER	1	MPN095318	M8200129

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PISTON PRODUCT LISTING

WARRANTY POLICY AND PROCEDURES

WARRANTY

Metaris Inc. and Metaris Corp. hereinafter "Metaris", Warrants all of its product to be free from defects in material and workmanship under normal operating conditions and proper application in accordance with the specifications for operation as described by the manufacturer for the period of twelve (12) months in service.

LIMITATIONS ON WARRANTY

This warranty is expressly in lieu of any other warranties expressed or implied. Buyers sole and exclusive remedy under this Warranty shall be limited to the repair, replacement or exchange of warranted products at our option, F.O.B. our factory, or designated service center.

No special, incidental, consequential or other damage shall be recoverable. Metaris shall not be liable for consequential damages or contingent liabilities including, but not limited to, loss of life, personal injury, loss of crops, loss due to water or fire damage, loss of business income, down time costs and trade or other commercial loss arising out of failure of the product. Metaris will in no event be liable for any sum in excess of the price received by it for the product for which liability is claimed or asserted.

No products shall be returned without prior authorization from Metaris. Buyers and their Agents shall prepay all transportation charges for the return of such products to Metaris 'factory or designated service center. There will be no acceptance of any charges for labor and/or parts incidental to the removal or remounting of products repaired or replaced under Warranty.

The above Warranty does not cover conditions over which Metaris has no control, including, without limitation, contamination, pressure in excess of recommended maximum, products damaged or subject to accident abuse or misuse after shipment from our factory, products altered or repaired by anyone other than Metaris personnel, authorized Metaris factory personnel or persons so designated in writing by Metaris prior to commencement of said work.

A return goods authorization number must be obtained from Metaris or a Metaris authorized service center, or a Metaris authorized agent prior to any products being returned for Warranty.

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