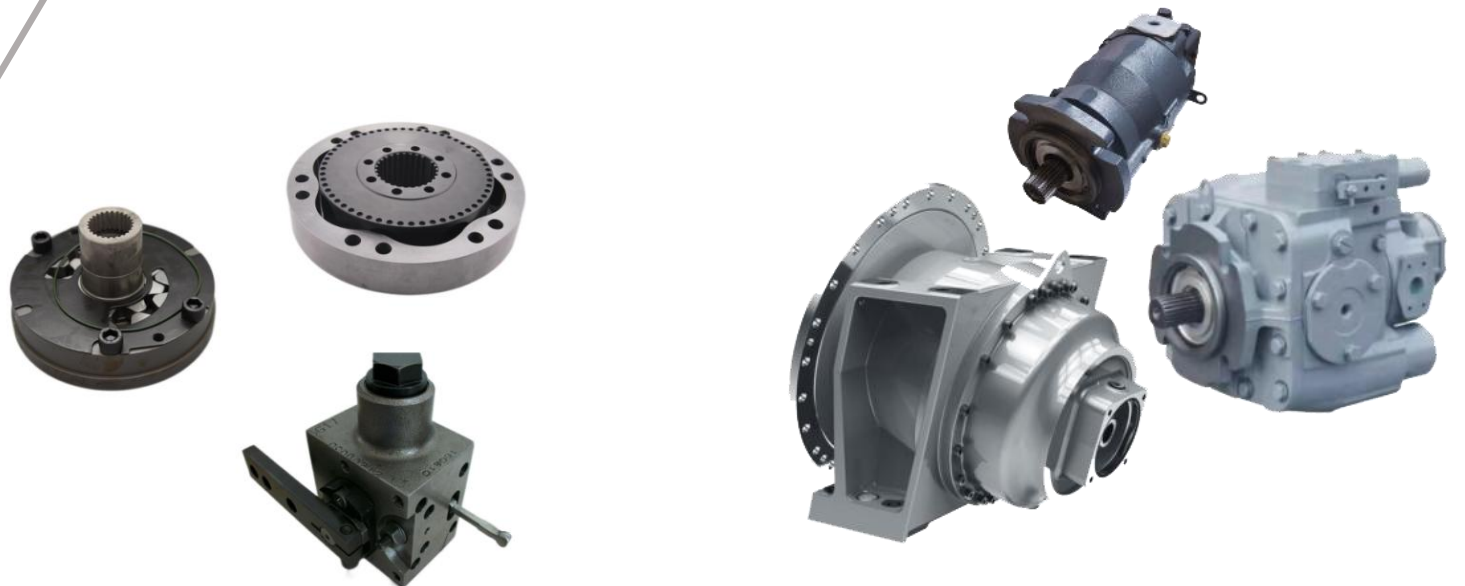
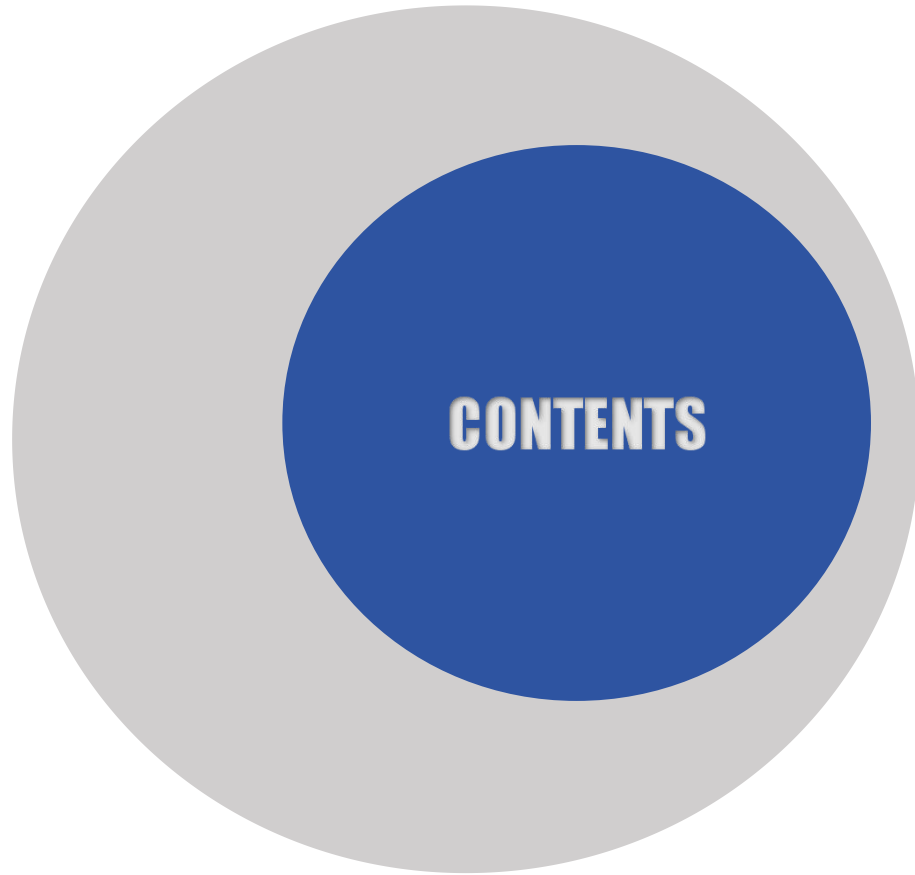




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REXROTH SERIES



A2F(VK)5/12/23/28/55/80/107/125/160/
180/200/225/250/355/500/1000

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTONS	7
4	HALF RING	2
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	DISC SPRING	4
8	SPRING SEAT	1
9	CENTER PIN	1
10	SOCKET BOLT	7
11	OIL SEAL	1

REXROTH SERIES



A2FM(FE)10/12/16/23/28/32/45/56/63/
80/107/125/160/180/200/355/500/1000

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	RING PISTON	7
4	RING	14
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	DISC SPRING	4
8	CENTER PIN	1
9	SOCKET BOLT	14
10	OIL SEAL	1

REXROTH SERIES



A2FO 05/10/12/16/23/28/32/45/56/63/80/90/107/125/
160/180/200/250/355/500/710/1000

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	RING PISTON	7
4	RING	14
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	DISC SPRING	4
8	CENTER PIN	1
9	SOCKET BOLT	14
10	OIL SEAL	1

REXROTH SERIES



A4V40/56/71/90/125/180/250/355/500
A4VO130 A4VD250

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	DISC SPRING	4
8	SADDLE BEARING	2
9	SHOE PLATE	1

REXROTH SERIES



A4VG28/40/45/56/71/90/95/110/125/140/
145/175/180/250/355/500 A4VTG56/71/90

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	SADDLE BEARING	2
8	BEARING SEAT	2
9	DISC SPRING	4
10	SWASH PLATE	1
11	BEARING	1
12	SOLENOID COIL	1
13	CHARGE PUMP	1

REXROTH SERIES



A4VSO40/45/50/56/71/90/125/180/250/
355/500/750/1000

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	SADDLE BEARING	2
8	FIX PLATE	2
9	SEAT	2
10	DISC SPRING	4
11	THRUST PLATE	1
12	BEARING	1
13	SEAL OIL	1

REXROTH SERIES



A6VM(VE)12/28/55/63/80/107/140/160/
172/200/250/355/500/1000

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	RING PISTON	7
4	RING	14
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	DISC SPRING	4
8	CENTER PIN	1
9	SOCKET BOLT	14
10	OIL SEAL	1

REXROTH SERIES



A7V(A8V)28/55/58/59/80/86/107/115/125/
160/172/200/225/250/355/500/1000

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTONS	7
4	HALF RING	2
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	DISC SPRING	4
8	HEAD COVER	1
9	CENTER PIN	1
10	SOCKET BOLT	14
11	OIL SEAL	1

REXROTH SERIES



A7VO12/28/55/63/80/107/160/172/200/
250/355/500

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	RING PISTON	7
4	RING	14
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	DISC SPRING	4
8	SPRING SEAT	1
9	CENTER PIN	1
10	SOCKET BOLT	14
11	OIL SEAL	1

REXROTH SERIES



A8V055/80/107/120/140/160/200

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	VALVE PLATE	1
3	RING PISTON	14
4	RING	28
5	RETAINER PLATE	2
6	DRIVE SHAFT	2
7	HEAD COVER	1
8	DISC SPRING	8
9	SPRING SEAT	1
10	CENTER PIN	2
11	SOCKET BOLT	28
12	OIL SEAL	1

REXROTH SERIES



A10VSO10/16/18/28/45/63/71/85/100/140

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	THRUST PLATE	1
8	SADDLE BEARING	2
9	PRESS PIN	3
10	HOUSING	1
11	SWASH PLATE	1
12	BEARING	1
13	HEAD COVER	1

REXROTH SERIES



A10VG18/28/45/63

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	SADDLE BEARING	2
8	BEARING SEAT	2
9	PRESS PIN	3
10	SWASH PLATE	1
11	SEAL OIL	1

REXROTH SERIES



A11V(L)O40/60/75/95/130/145/160/190/
200/210/250/260/355/500

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	SADDLE BEARING	2
8	BEARING SEAT	2
9	RETAINER	2
10	HOUSING	1
11	SWASH PLATE	1
12	BEARING	1
13	HEAD COVER	1

REXROTH SERIES



A11VG12/19/35/50

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	SADDLE BEARING	2
8	BEARING SEAT	2
9	DISC SPRING	4
10	SWASH PLATE	1
11	SEAL OIL	1

REXROTH SERIES



A2V12/28DR A2VK12/28

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTONS	7
4	HALF RING	2
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	CENTER PIN	1

REXROTH SERIES



A10VO10/28/45/60/63/85-52/53

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTONS	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	BLOCK SPRING	9
7	SWASH PLATE	1
8	DRIVE SHAFT	1
9	SADDLE BEARING	2

REXROTH SERIES



A15VSO175/210

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTONS	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	THRUST PLATE	1

REXROTH SERIES



A20VO520/060

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTONS	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1

REXROTH SERIES



A10VT28/45/71

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTONS	9
4	BALL GUIDE	1
5	RETAINER PLATE	1

REXROTH SERIES



A10F16/28/45/71

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTONS	9
4	THRUST PLATE	1
5	BALL GUIDE	1
6	RETAINER PLATE	1
7	DRIVE SHAFT	1

REXROTH SERIES



A10VM18/35/63

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTONS	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1

REXROTH UCHIDA SERIES



A10VD17/23/28/40/43/71

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	VALVE PLATE	1
3	PISTON SHOES	18
4	BALL GUIDE	2
5	RETAINER PLATE	2
6	DRIVE SHAFT	2
7	SHOE PLATE	2
8	PRESS PIN	6
9	SWASH PLATE	1
10	COIL SPRING	2

REXROTH UCHIDA SERIES



AP2D12/14/16/18/21/25/28/36/38/42

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	10
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	SHOE PLATE	1
8	PRESS PIN	3
9	SWASH PLATE	1
10	BARREL WASHER	2

SAUER DANFOSS SERIES



MMF/MMV 16A/035/044/046/500

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	THRUST PLATE	1

SAUER DANFOSS SERIES



MPV/MPT 025/035/044/046 M46 MPV45
MPR63

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7/9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	THRUST PLATE	1
8	BEARING PLATE	1
9	SWASH PLATE	1
10	PRESS PIN	3
11	WASHER	1
12	SADDLE BEARING	2
13	SNAP RING	1

SAUER DANFOSS SERIES



PV/PVD 20/21/22/23/24/25/26/27/112
SPV6/119 SPV15/18 OPV27 PVD45 TB35/45

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	THRUST PLATE	1
8	BEARING PLATE	1
9	SWASH PLATE	1
10	SWASH PLATE	1
11	SHAFT BEARING	1
12	LOCATING PIN	1
13	BLOCK SPRING	6

SAUER DANFOSS SERIES



PV90R/90M030/042/55/75/100/130/180
/250

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	FIX PLATE	2
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	THRUST PLATE	1
8	SADDLE BEARING	2
9	BEARING SEAT	2
10	SWASH PLATE	1
11	SHAFT BEARING	1
12	SEAL OIL	1
13	WASHER	1

SAUER DANFOSS SERIES



JRR/JRL/ERR/KRR/LRR/ERL/FRR
045/051/060/065/075/100/130/147

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	SADDLE BEARING	2
7	SWASH PLATE	1

SAUER DANFOSS SERIES



SAUER 90 OTHERS BRL100 SPV14 HRR057
M44

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	THRUST PLATE	1
8	SADDLE BEARING	2
9	SWASH PLATE	1
10	PRESS PIN	3/4
11	WASHER	2
12	SNAP RING	1

EATON VICKERS SERIES



006/3321/31/22 4621/23/33/31-007
5421/23/31/33 3932-243 6423/33 7621/30 78461/2

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	FIX PLATE	2
8	SNAP SPRING	1
9	BEARING PLATE	1
10	THRUST PLATE	1
11	PRESS PIN	3
12	SHAFT SEAL ASSY	1

EATON VICKERS SERIES



PVQ32/40/50

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	PISTON SHOES	9
3	RETAINER PLATE	1
4	DRIVE SHAFT	1
5	SNAP SPRING	1
6	SHAFT BEARING	1
7	SEAL OIL	1
8	PRESS PIN	3
9	SWASH PLATE	1
10	HEAD COVER	1
11	HOUSING	1

EATON VICKERS SERIES



PVH45/57/74/81/98/106(HPN1398)/131/
141

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	FIX PLATE	2
8	SEAT	2
9	SNAP SPRING	1
10	BEARING	1
11	THRUST PLATE	1
12	SADDLE BEARING	2
13	SWASH PLATE	1

EATON VICKERS SERIES



PVB5/6/10/15/20/29/38/45/110

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	VALVE	1
8	SNAP SPRING	1
9	BEARING PLATE	1
10	THRUST PLATE	1
11	PRESS PIN	3
12	SWASH PLATE	1
13	HEAD COVER	1

EATON VICKERS SERIES



PVE12/19/21/27/35/47/62 TA19 MFE19

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	VALVE	1
8	SNAP SPRING	1
9	SHAFT BEARING	1
10	SEAL OIL	1
11	PRESS PIN	3
12	SWASH PLATE	1
13	HEAD COVER	1

KOMATSU SERIES



HPV35/55/90/160 PC60/120/200-3/5/300/400-3/5/50/400-7

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	FIX PLATE	2
5	SPACER	2
6	RETAINER PLATE	1
7	DRIVE SHAFT	1
8	SWASH PLATE	1
9	GEAR PUMP	1
10	VALVE	1
11	SOCKET BOLT	8
12	SERVO PISTON	2

KOMATSU SERIES



HPV75/95/132/140/165 PC60-7/220-6/7/300-6/7/360-7/400-7/200-8/240-8/1250

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	VALVE PLATE	2
3	PISTON SHOES	18
4	BALL GUIDE	2
5	RETAINER PLATE	2
6	DRIVE SHAFT	2
7	SWASH PLATE	2
8	SUPPORT	2
9	VALVE	1
10	GEAR PUMP	1

KOMATSU SERIES



PC30UU/35MR/45/50/55/27/30-7 PUMP

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	10
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	SWASH PLATE	1
8	BALL FOR SWASH PLATE	2

KOMATSU SERIES



PC30/45-8/75UU/40-7/50 SWING

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	FRICTION PLATE	3
8	SEPARATION PLATE	2

KOMATSU SERIES



PC60-6/7/78US-6/KMF41 SWING

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	THRUST PLATE	1
8	SNAP RING	1
9	COIL SPRING	1
10	FRICTION PLATE	3
11	SEPARATION PLATE	2

KOMATSU SERIES



PC200-6/7/PC220-6/7/8/PC300-7/8/PC400-7 SWING

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	CENTER PIN	1

KOMATSU SERIES



PC60-8/PC70-8/PC75UU/PC78US-6/PC40-8/PC2000-8/PC3000-8 PC160-7 PUMP

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7/9/10
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	SWASH PLATE	1
8	SUPPORT	1
9	COIL SPRING	1

KOMATSU SERIES



PC600-7/PC400-6/7/PC200-6/7/PC300-6/7/HMV110/160 TRAVEL

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	CENTER PIN	1
7	DRIVE SHAFT	1
8	FRICTION PLATE	3
9	SEPARATION PLATE	4

KOMATSU SERIES



KMF40/90/160/KPV90/100/105/PC60-6/PC120-3/6/PC200-3/5/PC220-3/5 SWING

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	CENTER BALL	1
5	RETAINER PLATE	1
6	CENTER PIN	1
7	DRIVE SHAFT	1

CATERPILLAR SERIES



VRD63(CAT120) DOUBLE PUMP

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	VALVE PLATE	2
3	PISTON SHOES	18
4	SNAP RING	2
5	SPRING	2
6	RETAINER PLATE	2
7	DRIVE SHAFT	2
8	SWASH PLATE	2
9	SUPPORT	2
10	BALL GUIDE	2
11	WASHER	2

CATERPILLAR SERIES



SBS80/120/140 CAT312C/320C/325C

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	VALVE PLATE	2
3	PISTON SHOES	18
4	SHOE PLATE	2
5	PIN	1
6	RETAINER PLATE	2
7	DRIVE SHAFT	2
8	SWASH PLATE	1
9	SUPPORT	2
10	BALL GUIDE	2
11	BALL GUIDE SPRING	12
12	SADDLE BEARING	4

CATERPILLAR SERIES



E200B/AP-12/14 CAT325C SPK10/10

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	SPRING	18
3	VALVE PLATE	2
4	PISTON SHOES	18
5	THRUST PLATE	2
6	WASHER	2
7	RETAINER PLATE	2
8	DRIVE SHAFT	2
9	AXIAL SHAFT	4
10	BEARING	4
11	BALL GUIDE	2
12	GEAR PUMP	2

CATERPILLAR SERIES



SPV10/10 MS180 DOUBLE PUMP

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	PINS	4
3	VALVE PLATE	2
4	PISTON SHOES	18
5	THRUST PLATE	2
6	SWASH PLATE	2
7	RETAINER PLATE	2
8	DRIVE SHAFT	2
9	AXIAL SHAFT	4
10	BEARING	4
11	BALL GUIDE	2
12	DRUM SEAL	18
13	BEARING PLATE	2

CATERPILLAR SERIES



CAT12G/14G/16G/120G/140G
CAT215/225/235/245/963/973/993

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	SNAP RING	1
3	COIL SPRING	1
4	WASHER	1
5	VALVE PLATE	1
6	PISTON SHOES	9
7	THRUST PLATE	1
8	SWASH PLATE	1
9	RETAINER PLATE	1
10	YOKE PISTON	2
11	DRIVE SHAFT	1
12	BALL GUIDE	2

CATERPILLAR SERIES



E200B/AP-12/14 CAT325C SPK10/10

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	SPRING	18
3	VALVE PLATE	2
4	PISTON SHOES	18
5	THRUST PLATE	2
6	WASHER	2
7	RETAINER PLATE	2
8	DRIVE SHAFT	2
9	AXIAL SHAFT	4
10	BEARING	4
11	BALL GUIDE	2
12	GEAR PUMP	2

CATERPILLAR SERIES



SPV10/10 MS180 DOUBLE PUMP

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	PINS	4
3	VALVE PLATE	2
4	PISTON SHOES	18
5	THRUST PLATE	2
6	SWASH PLATE	2
7	RETAINER PLATE	2
8	DRIVE SHAFT	2
9	AXIAL SHAFT	4
10	BEARING	4
11	BALL GUIDE	2
12	DRUM SEAL	18
13	BEARING PLATE	2

CATERPILLAR SERIES



CAT12G/14G/16G/120G/140G
CAT215/225/235/245/963/973/993

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	SNAP RING	1
3	COIL SPRING	1
4	WASHER	1
5	VALVE PLATE	1
6	PISTON SHOES	9
7	THRUST PLATE	1
8	SWASH PLATE	1
9	RETAINER PLATE	1
10	YOKE PISTON	2
11	DRIVE SHAFT	1
12	BALL GUIDE	2

CATERPILLAR SERIES



CAT215/245/992

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	SNAP RING	1
3	COIL SPRING	1
4	WASHER	2
5	VALVE PLATE	1
6	PISTON SHOES	9
7	THRUST PLATE	2
8	SWASH PLATE	1
9	RETAINER PLATE	2
10	YOKE PISTON	2
11	DRIVE SHAFT	1
12	RETAINER	2

CATERPILLAR SERIES



PSV450/PSV600

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	SPRING	9
3	VALVE PLATE	1
4	PISTON SHOES	9
5	BALL GUIDE	1
6	BALL GUIDE WASHER	1
7	RETAINER PLATE	1
8	FRICION PLATE	3

CATERPILLAR SERIES



CAT385H

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BALL GUIDE	1
5	RETAINER PLATE	1

CATERPILLAR SERIES



E307D/311/312

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	SPRING	9
3	VALVE PLATE	1
4	PISTON SHOES	9
5	BALL GUIDE	1
6	SWASH PLATE	1
7	RETAINER PLATE	1
8	YOKE PISTON	1

CATERPILLAR SERIES



E70B/E308

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	RETAINER PLATE	1
3	VALVE PLATE	1
4	PISTON SHOES	9
5	BALL GUIDE	1
6	THRUST PLATE	1

CATERPILLAR SERIES



CAT973

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	DRIVE SHAFT	1
5	CENTER PIN	1

HITACHI SERIES



HPV091/091DS/091EW/091DW EX100/120-2/3/5 EX200/220-2/3

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	14
4	VALVE PLATE DOUBLE	1
5	CENTER PIN	2
6	RETAINER PLATE	1
7	DRIVE SHAFT	2
8	GEAR PUMP	1
9	VARIABLE PISTON	2
10	BACK COVER	1

HITACHI SERIES



HPV116/145 EX200-1 EX300-1/2/3

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	VALVE PLATE BOLT	2
5	CENTER PIN	1
6	DRIVE SHAFT	1
7	GEAR PUMP	1
8	BACK COVER	1

HITACHI SERIES



HMF160/200

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	SNAP RING	1
3	COIL SPRING	1
4	WAHSER	2
5	VALVE PLATE	1
6	PISTON SHOES	9
7	SWASH PLATE	1
8	SERVO PISTON	2
9	RETAINER PLATE	1
10	DRIVE SHAFT	1
11	SADDLE BEARING	2
12	PRESS PIN	2
13	RETAINER	2

HITACHI SERIES



ZX330 ZX330-2 TRAVEL

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	FRICITION PLATE	4
3	SEPERATION PLATE	3
4	SPRING	6
5	VALVE PLATE	1
6	PISTON SHOES	9
7	SWASH PLATE	1
8	BALL GUIDE	1
9	RETAINER PLATE	1
10	DRIVE SHAFT	1

HITACHI SERIES



EX550-3 SK430 HMGF95 TRAVEL

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	BALL GUIDE SPRING	9
3	SEPERATION PLATE	1
4	DRIVE SHAFT	1
5	VALVE PLATE	1
6	PISTON SHOES	9
7	SWASH PLATE	1
8	BALL GUIDE	1

HITACHI SERIES



HMGE36EA ZX200 TRAVEL

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	FRICITION PLATE	4
3	SEPERATION PLATE	3
4	SPRING	6
5	VALVE PLATE	1
6	PISTON SHOES	9
7	SWASH PLATE	1
8	BALL GUIDE	1
9	RETAINER PLATE	1

HITACHI SERIES



HPV125A/B UH07/07-7/083 HMT125AC/AE
TRAVEL (EX ZX)

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	DRIVE SHAFT	1
3	CENTER PIN	1
4	VALVE PLATE	1
5	PISTON SHOES	9

HITACHI SERIES



EX60-2/3 SWING (EX/ZX)

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	BALL GUIDE	1
3	RETAINER PLATE	1
4	VALVE PLATE	1
5	PISTON SHOES	9

HITACHI SERIES



EX105-2 EX120-2/5 AP5S53/67 SWING

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	BALL GUIDE	1
3	RETAINER PLATE	1
4	VALVE PLATE	1
5	PISTON SHOES	9
6	DRIVE SHAFT	1
7	THRUST PLATE	1
8	CUP SPRING	4

HITACHI SERIES



ZAX120 SWING EX ZX

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	BALL GUIDE	1
3	RETAINER PLATE	1
4	VALVE PLATE	1
5	PISTON SHOES	9
6	WASHER	4
7	THRUST PLATE	1

HITACHI SERIES



EM56 TRAVEL

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	WASHER	2
3	SNAP RING	1
4	COIL SPRING	1
5	BALL GUIDE	1
6	RETAINER PLATE	1
7	VALVE PLATE	1
8	PISTON SHOES	9
9	DRIVE SHAFT	1

HITACHI SERIES



HMGC16/32/35/48 EX100-1 EX200-1/5 TRAVEL

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	FRICITION PLATE	2
3	SEPERATION PLATE	3
4	SPRING	1
5	VALVE PLATE	1
6	PISTON SHOES	7
7	CENTER PIN	1
8	DRIVE SHAFT	1

HITACHI SERIES



HPV050/102/105/118/135
EX200-5/6 ZX200-3 ZX270

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	GEAR PUMP	1
3	SOCKET BOLT	2
4	BACK COVER	1
5	VALVE PLATE	2
6	PISTON SHOES	14
7	CENTER PIN	2
8	DRIVE SHAFT	2

HITACHI SERIES



ZX120-6 HPK055 EX120-6

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	SWASH PLATE	2
3	SUPPORT	2
4	RETAINER PLATE	2
5	VALVE PLATE	2
6	PISTON SHOES	18
7	CENTER PIN	2
8	THRUST PLATE	2
9	DRIVE SHAFT	2

KAWASAKI SERIES



M2X22/45/55/63/96/120/146/150/170/210
EX200-2 /5 EX400 EX270/280/300 SWING MOTOR

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	RETAINER PLATE	1
5	DRIVE SHAFT	1
6	THRUST PLATE	1
7	BALL GUIDE	1
8	WASHER	1
9	PRESS PIN	6
10	SPRING	1
11	FRICTION PLATE	3
12	SEPERATION PLATE	4

KAWASAKI SERIES



MX50/80/150/173/200/250/450/500/530/ 750 SWING MOTOR

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	RETAINER PLATE	1
5	DRIVE SHAFT	1
6	THRUST PLATE	1
7	BALL GUIDE	1
8	CUP SPRING	4

KAWASAKI SERIES



M5X130/180 CAT320C KOBELCO 350-8 SWING MOTOR

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	RETAINER PLATE	1
5	DRIVE SHAFT	1
6	THRUST PLATE	1
7	BALL GUIDE	1
8	FRICTION PLATE	3
9	SEPERATION PLATE	4
10	RETAINER	1

KAWASAKI SERIES



MAG150/170 SWING MOTOR

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	RETAINER PLATE	1
5	DRIVE SHAFT	1
6	THRUST PLATE	1
7	BALL GUIDE	1
8	SWASH PLATE	1
9	WASHER	2
10	PRESS PIN	3
11	SPRING	1
12	FRICTION PLATE	3
13	SEPERATION PLATE	4

KAWASAKI SERIES



LZV30/120/LVWO60 SWING MOTOR
LZV030/060/090/120/180/260/500 PUMP

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	RETAINER PLATE	1
5	DRIVE SHAFT	1
6	CENTER PIN	1
7	WASHER	7

KAWASAKI SERIES



TM40VD TRAVEL MOTOR

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	YOKE PISTON	1
5	DRIVE SHAFT	1
6	BALL GUIDE	1

KAWASAKI SERIES



KVC925/930/932

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	RETAINER	2
5	DRIVE SHAFT	1
6	THRUST PLATE	1
7	AXIAL SHAFT	2
8	SWASH PLATE	1
9	SNAP RING	1
10	WASHER	2
11	SPRING	1

KAWASAKI SERIES



NX15/500

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	RETAINER PLATE	1
5	DRIVE SHAFT	1
6	THRUST PLATE	1
7	BALL GUIDE	1
8	CUP SPRING	4

KAWASAKI SERIES



NVK45 FOR KOBELCO EXCAVATOR

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	VALVE PLATE	2
3	PISTON SHOES	18
4	RETAINER PLATE	2
5	DRIVE SHAFT	1
6	THRUST PLATE	2
7	BALL GUIDE	2
8	PRESS PIN	12

KAWASAKI SERIES



NV45/50/60/64/70/80/84/90/111DT/120/137/150/172/210/237/270

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	VALVE PLATE	2
3	PISTON SHOES	18
4	RETAINER PLATE	2
5	DRIVE SHAFT	2
6	SWASH PLATE	2
7	SUPPORT	2
8	BALL GUIDE	2
9	CUP SPRING	8

KAWASAKI SERIES



K7V63/100 K7VG180/265

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	VALVE PLATE	2
3	PISTON SHOES	18
4	RETAINER PLATE	2
5	DRIVE SHAFT	2
6	SWASH PLATE	2
7	SUPPORT	2
8	BALL GUIDE	2
9	BALL GUIDE SPRING	12
10	THRUST PLATE	2

KAWASAKI SERIES



K3V45DT/63DT/112DT/140DT/180DT/280 K3VG180/280
K5V80/140/160/200 (DOOSAN 300-7) (HYUNDAI 300-6)

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	VALVE PLATE	2
3	PISTON SHOES	18
4	RETAINER PLATE	2
5	DRIVE SHAFT	2
6	SWASH PLATE	2
7	SUPPORT	2
8	BALL GUIDE	2
9	SERVO BLOCK	2
10	THRUST PLATE	2
11	GEAR PUMP	1
12	PILOT VALVE	1

KAWASAKI SERIES



K3VL28/45/63/80/112/140/200

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	RETAINER PLATE	1
5	DRIVE SHAFT	1
6	SWASH PLATE	1
7	SUPPORT	1
8	BALL GUIDE	1
9	THRUST PLATE	1

KAWASAKI SERIES



K3SP36C SDV36 K7SP36C

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	10
4	RETAINER PLATE	1
5	DRIVE SHAFT	1
6	SWASH PLATE	1
7	YOKE BALL	2
8	COULPING	1
9	BALL GUIDE SPRING	10
10	BALL GUIDE	1
11	GEAR PUMP	1

LINDE SERIES



HPV55T/75/105/135/165/210/280 HPR75/90/100/105/130/160 HMR75/105/135/165/210/280-2 HMV210/280

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	RETAINER	2
5	SADDLE BEARING	2
6	RETAINER PLATE	1
7	DRIVE SHAFT	1
8	SWASH PLATE	1
9	SUPPORT	1
10	SERVO PISTON	1

LINDE SERIES



BPV35/50/70/100/200

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	SNAP RING	1
5	WASHER	2
6	COIL SPRING	1
7	DRIVE SHAFT	1

LINDE SERIES



B2PV35/50/75/105/140/186
BPR50/55/75/105/140/186/260

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	CENTER PIN	1
7	WASHER	7

LINDE SERIES



BMV35/55/75/105/135/140 BMV75.27

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	CENTER PIN	1
7	WASHER	7

LINDE SERIES



BPR55/75/105/140/186/260

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	BALL GUIDE	1
5	RETAINER PLATE	1
6	CENTER PIN	1
7	WASHER	7

LINDE SERIES



BMF35/50/55/75/105/140/186/260

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	CENTER PIN	1
5	RETAINER PLATE	1
6	DRIVE SHAFT	1
7	SNAP RING	1
8	WASHER	1

KAYABA SERIES



PSVD2-13E/16E/17E/19E/21E/26E/27E/57E
SVD22 MAIN PUMP

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	10
4	SNAP SPRING	1
5	WASHER	2
6	RETAINER PLATE	1
7	DRIVE SHAFT	1
8	SWASH PLATE	1
9	GEAR PUMP	1
10	COIL SPRING	1
11	BALL GUIDE	1
12	PRESS PIN	3

KAYABA SERIES



MSF 18/23/27/37/40/46/52/53/56/65/85/89/150
/170/190/340/200/230/550/750 GMY18 SWING

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	SNAP SPRING	1
5	WASHER	2
6	RETAINER PLATE	1
7	DRIVE SHAFT	1
8	SWASH PLATE	1
9	PIN	1
10	COIL SPRING	1
11	BALL GUIDE	1
12	PRESS PIN	3

KAYABA SERIES



PSV2-55T/62T/63T PSVH-45CS
SUMITOMO 120/265

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	2
2	VALVE PLATE	2
3	PISTON SHOES	18
4	CUP SPRING	8
5	LOCATING PIN	2
6	RETAINER PLATE	2
7	DRIVE SHAFT	2
8	SWASH PLATE	2
9	SADDLE BEARING	4
10	BEARING SEAT	4
11	BALL GUIDE	2
12	SLIDE BLOCK	2

KAYABA SERIES



PSVK2-25 PSVL36/42/54 KYB-25CC IHI45/60
KUBOTA K040/K045

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	10
4	SNAP SPRING	1
5	WASHER	2
6	RETAINER PLATE	1
7	DRIVE SHAFT	1
8	SWASH PLATE	1
9	PRESS PIN	3
10	COIL SPRING	1

KAYABA SERIES



KMF40/40-2/90/105 KPV90 PC200-
1/2/3(SWING,TRAVEL)

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	SLEEVE	1
5	WASHER	7
6	RETAINER PLATE	1
7	DRIVE SHAFT	1
8	CENTER PIN	1
9	LOCATING PIN	1
10	COIL SPRING	1
11	CENTER BALL	1

KAYABA SERIES



MSG18P/27P/44P/50P SGMF27/10W
LSGMF44/10W-R21

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	SNAP SPRING	1
5	WASHER	2
6	RETAINER PLATE	1
7	DRIVE SHAFT	1
8	THRUST PLATE	1
9	SEPERATION PLATE	2
10	COIL SPRING	1
11	BALL GUIDE	1
12	FRICITION PLATE	3
13	PRESS PIN	3

KAYABA SERIES



MAG-10/12/18/26/33/44/50/85/120
/150/170/200/230VP/330 TRAVEL

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	BEARING	1
5	WASHER	2
6	RETAINER PLATE	1
7	DRIVE SHAFT	1
8	SWASH PLATE	1
9	YOKE PISTON	2
10	COIL SPRING	1
11	BALL GUIDE	1

KAYABA SERIES



KYB33/36/87/90 MSG-60P

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	SLEEVE	1
5	WASHER	7
6	RETAINER PLATE	1
7	DRIVE SHAFT	1
8	CENTER PIN	1
9	COIL SPRING	1

PARKER SERIES



F11-005/006/010/012/014/019/
020/28/39/80/110/150/250

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	DRIVE GEAR	1
5	CENTER PIN	1
6	DRIVE SHAFT	1

PARKER SERIES



PVM16/18/23/28/32/40/46/63/80/90

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	SNAP RING	1
5	WASHER	2
6	COIL SPRING	1
7	BALL GUIDE	1
8	RETAINER PLATE	1

PARKER SERIES



PVXS130/180/250 PVSO250 PV180/250
PLV250

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	RETAINER	2
5	SADDLE BEARING	2
6	DRIVE SHAFT	1
7	RETAINER PLATE	1

PARKER SERIES



PV016/020/023/028/032/040/046/063/080
/092/140/180/270

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	RETAINER	2
5	SWASH PLATE	1
6	DRIVE SHAFT	1
7	RETAINER PLATE	1

PARKER SERIES



PAVC33/38/65/100

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	RETAINER PLATE	1
5	BALL GUIDE	1

PARKER SERIES



PVT38/47/64

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	SNAP RING	1
5	WASHER	2
6	COIL SPRING	1
7	PRESS PIN	3
8	SERVO PISTON	1
9	SWASH PLATE	1
10	SADDLE BEARING	2
11	BALL GUIDE	1
12	RETAINER PLATE	1

PARKER SERIES



F12-030/040/060/080/110/125/150/250

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	DRIVE GEAR	1
5	DRIVE SHAFT	1

PARKER SERIES



PVP16/23/33/38/41/48/60/76/100/140

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	9
4	SNAP RING	1
5	WASHER	2
6	COIL SPRING	1
7	BALL GUIDE	1
8	RETAINER PLATE	1

PARKER SERIES



P2/P3-060/075/105/145

ITEM	DESCRIPTION	QUANTITY
1	CYLINDER BLOCK	1
2	VALVE PLATE	1
3	PISTON SHOES	7
4	RETAINER PLATE	1
5	DRIVE SHAFT	1