

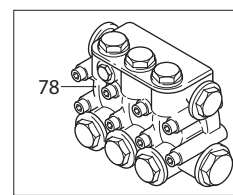
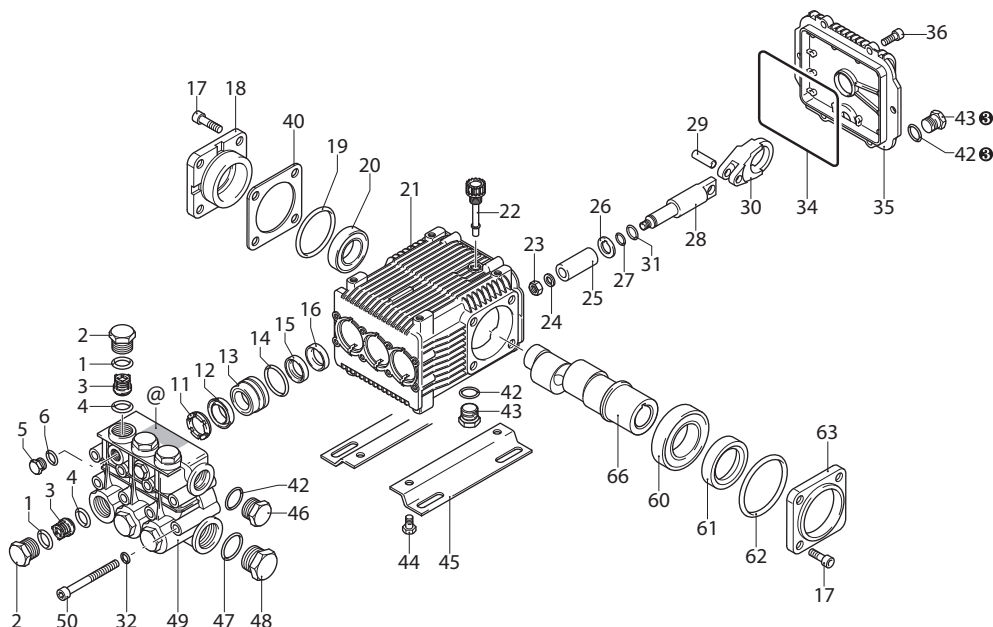
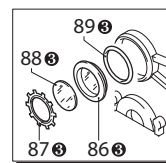
RK

VERSION

C

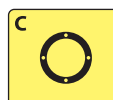
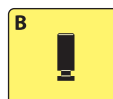
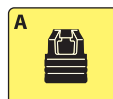
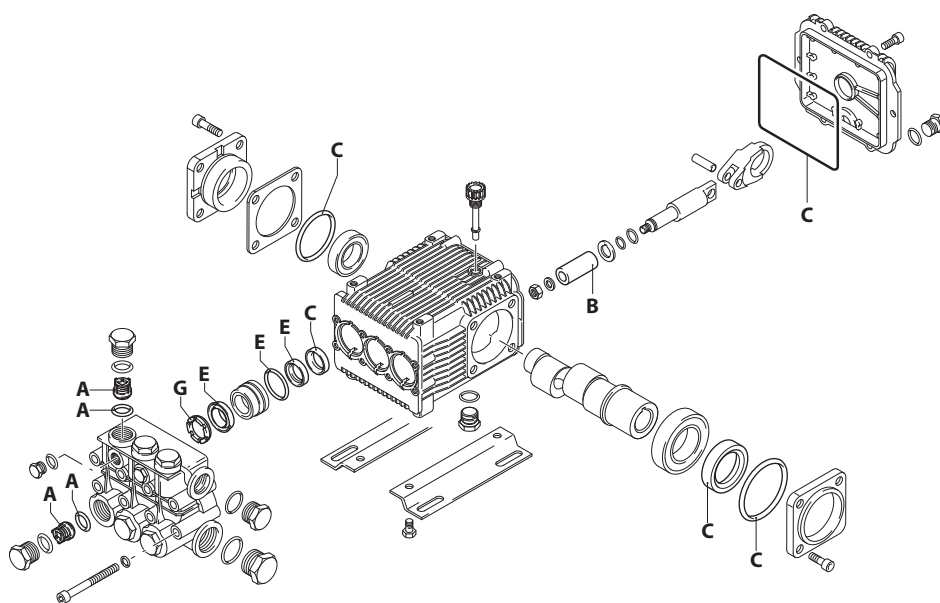
1450_{rpm}

Ø 28 mm



UN003306-MR

KIT RICAMBI / PART KITS



UN003307-AS

228 Series

RK 1450 rpm C version ø 28 mm



11.20 H (20647) 13.20 H (20650) 15.20 H (20653) 21.10 (20656)
13.12 (20648) 14.16 (20651) 18.12 (20654) 21.15 H (20657)
13.17 (20649) 15.15 (20652) 18.16 H (20655)

Pos.	Cod.	Denominazione	Description	Qt	Note	Pos.	Cod.	Denominazione	Description	Qt	Note
1	960160	Guarnizione OR Ø 17,86x2,62	O-ring	6		35	1789010	Coperchio completo	Cover	1	
2	960090	Tappo	Plug	6	● RK C=54Nm	36	1343510	Vite TCEI M6x14	Screw	6	C=10Nm
	960850	Tappo	Plug	6	● RK H H=54Nm	40	1380120	Spessore 0,10 mm	Shim 0.10 mm	1÷3	
	1380740	Tappo	Plug	6	● RK H C=54Nm		1380130	Spessore 0,19 mm	Shim 0.19 mm	1÷3	
3	1389051	Valvola completa	Complete valve	6			1380530	Spessore 0,25 mm	Shim 0.25 mm	1÷3	
4	880830	Guarnizione OR Ø 15,54x2,62	O-ring	6			1382810	Spessore 0,05 mm	Shim 0.05 mm	1÷3	
5	880581	Tappo 1/4" G	Plug	2	● RK C=15Nm	42	740290	Guarnizione OR Ø 14x1,78	O-ring	3	③
	1380690	Tappo 1/4" G nickel	Plug	2	● RK H - H H=15Nm	43	1980740	Tappo 3/8" G ottone	Plug	2	③
6	820510	Guarnizione OR Ø 10,82x1,78	O-ring	2		44	1263130	Vite TE M8x12	Screw	4	Optional
11	960110	Anello appoggio Ø 18	Ring	3	○ □ ● ☆	45	1380141	Piede	Foot	2	Optional
	840300	Anello appoggio Ø 20	Ring	3	☆	46	1980740	Tappo 3/8" G ottone	Plug	1	RK C=25Nm
	840320	Anello appoggio Ø 22	Ring	3	★		1981180	Tappo 3/8" G nickel	Plug	1	RK H - H H=25Nm
12	1382740	Tenuta acqua Ø 18	Water seal	3	○ □ ● ☆	47	180101	Guarnizione OR Ø 17,5x2	O-ring	1	
	840290	Tenuta acqua Ø 20	Water seal	3	☆	48	820361	Tappo 1/2" G ottone	Plug	1	RK C=40Nm
	840330	Tenuta acqua Ø 22	Water seal	3	★		960870	Tappo 1/2" G nickel	Plug	1	RK H - H H=40Nm
13	1380090	Guida pistone Ø 18	Piston guide	3	○ □ ● ☆	49	1381071	Testa	Head	1	Ø18 RK
	1380150	Guida pistone Ø 20	Piston guide	3	☆		1381070	Testa nikelata	Head	1	Ø18 RK H - H H=
	1380160	Guida pistone Ø 22	Piston guide	3	★		1380020	Testa	Head	1	Ø20-22 RK
14	961240	Guarnizione OR Ø 31,47x1,78	O-ring	3			1380680	Testa nikelata	Head	1	Ø20-22 RK H
15	880330	Tenuta acqua Ø 18	Water seal	3	○ □ ● ☆	50	820150	Vite TCEI M8x70	Screw	8	C=24,5Nm
	840280	Tenuta acqua Ø 20	Water seal	3	☆	60	1383150	Cuscinetto	Bearing	1	
	840340	Tenuta acqua Ø 22	Water seal	3	★	61	621170	Tenuta olio	Oil seal	1	(b)
16	880520	Anello tenuta	Ring	3		62	1380220	Guarnizione OR Ø 72,75x1,78	O-ring	1	
17	850370	Vite TCEI M8x16	Screw	8	C=24,5Nm	63	1380210	Coperchio	Cover	1	
18	1380050	Supporto cuscinetto chiuso	Support	1			2280180	Albero marcato 5	Shaft	1	○
19	640030	Guarnizione OR Ø 59,99x2,62	O-ring	1			2280170	Albero marcato 3	Shaft	1	□
20	2280340	Cuscinetto	Bearing	1			2280160	Albero marcato 2	Shaft	1	● ★
21	1382770	Corpo pompa	Pump body	1			2280150	Albero marcato 1	Shaft	1	☆ ☆
22	880130	Tappo	Plug	1			1389270	Premontaggio testa	Head assembly	1	Ø18 RK
23	962010	Dado	Nut	3	● C=20Nm		1389272	Premontaggio testa	Head assembly	1	Ø18 RK H
24	962000	Rondella	Washer	3			1389271	Premontaggio testa	Head assembly	1	Ø18 RK H H=
25	1380940	Pistone Ø 18	Piston	3	○ □ ● ☆		1389208	Premontaggio testa	Head assembly	1	Ø20 RK
	1380930	Pistone Ø 20	Piston	3	☆		1389212	Premontaggio testa	Head assembly	1	Ø20 RK H
	1382360	Pistone Ø 22	Piston	3	★		1389216	Premontaggio testa	Head assembly	1	Ø22 RK
26	1380950	Disco	Plate	3			1389220	Premontaggio testa	Head assembly	1	Ø22 RK H
27	600180	Guarnizione OR Ø 7,66x1,78	O-ring	3		86	1260250	Indicatore livello	Level gauge	1	③
28	1380920	Pistone di guida	Piston	3		87	1260430	Anello	Ring	1	③
29	1380060	Spina	Pin	3		88	1780690	Disco	Plate	1	③
30	1383050	Biella alluminio	Connecting-rod	3		89	1140450	Guarnizione OR Ø 20,24x2,62	O-ring	1	③
31	1080401	Anello antiestrusione	Ring	3							
32	1381850	Rondella	Washer	8							
34	1780510	Guarnizione OR Ø 106x3	O-ring	1							

③ Compreso nel cod. 1789010 / Part of part n° 1789010

KIT RICAMBI - PART KITS

A=KIT 2864 valvole valves		pistoni pistons		B=KIT 2757 ø 18 B=KIT 2758 ø 20 B=KIT 2759 ø 22		C=KIT 1856 tenute olio oil seals	
Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty
3	6	25	3	16	3		
4	6			19	1		
				34	1		
				61	1		
				62	1		

tenute acqua water seals		E=KIT 1857 ø 18 E=KIT 1887 ø 20 E=KIT 1888 ø 22		anelli appoggio support rings		G=KIT 1829 ø 18 G=KIT 1815 ø 20 G=KIT 1816 ø 22	
Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty
12	3			11	3		
14	3						
15	3						

SIMBOLOGIA - SYMBOLS

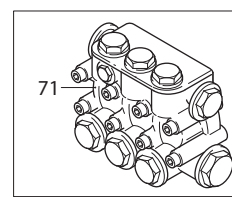
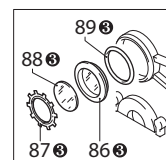
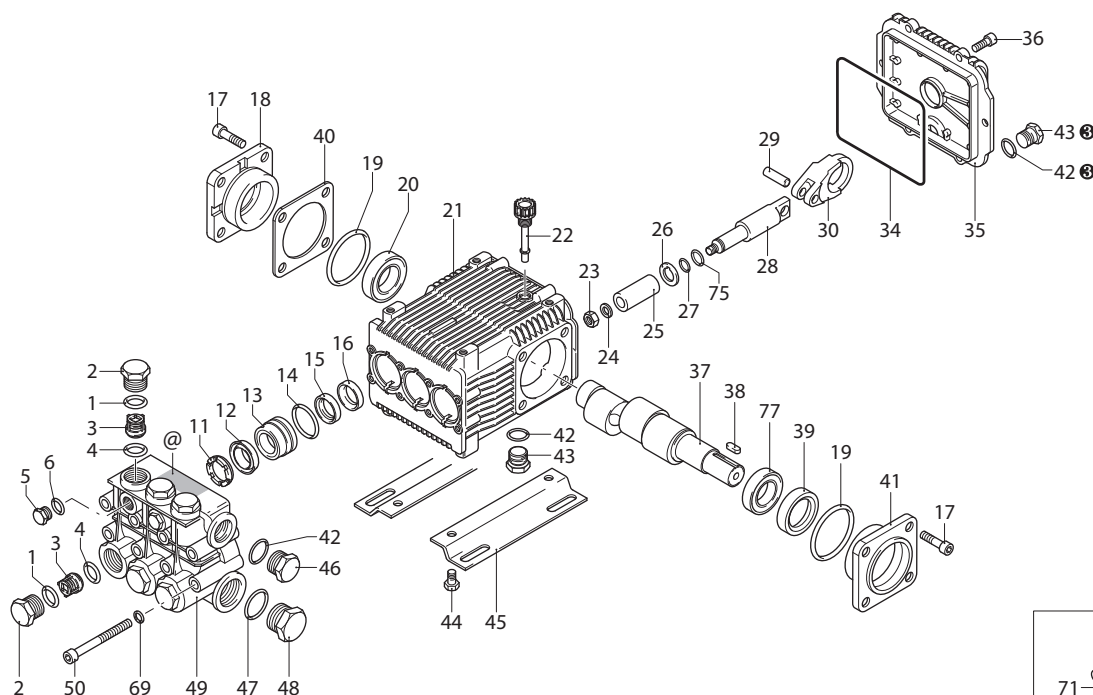
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- C Tolleranza coppia di serraggio +0÷-10% / Tightening torque tolerance +0÷-10%
 ● Avvitare con Loxeal 55-14 / Screw with Loxeal 55-14
 (b) Montare anello tenuta con attrezzo cod. 1781000 / Fit the seal with tool code nr. 1781000
 H= OLTRE 250 bar - OVER 3600 psi
 @ Posizionamento targa di identificazione / Identification plate positioning

PARTI SPECIALI IN VITON SPECIAL PARTS

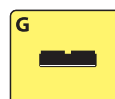
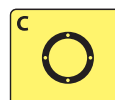
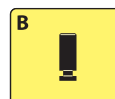
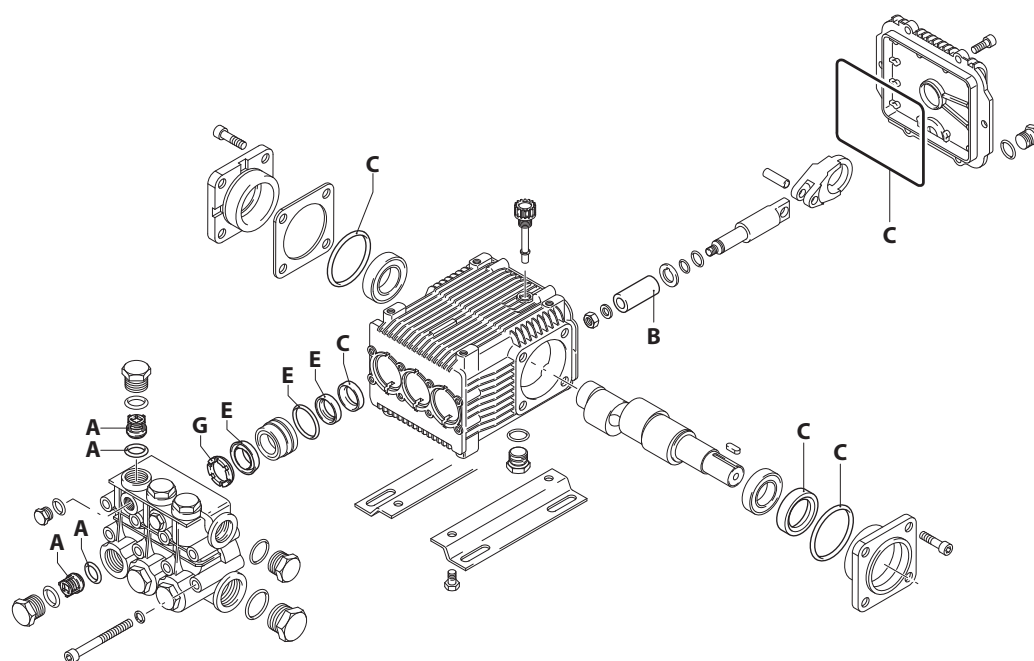
Cod. - Part n°	Denominazione - Description	Q.tà - Q.ty
2809	Tenute acqua/Water seals ø 18	1
2810	Tenute acqua/Water seals ø 20	1
2811	Tenute acqua/Water seals ø 22	1

Olio - Oil	
Tipo / Type	Quantità / Quantity
SAE 15W40	0,435 Kg



UN003308-MR

KIT RICAMBI / PART KITS



UN003309-LW

228 Series

RKA 1750 rpm N version ø 24 mm

3.5 G25 (20659) 4.5 G17 (20668) 5.5 G20 H (20672) 7 G13 (20676) 3.5 G22 (FP) 4 G30 (FP)
 3.5 G40 H (20661) 4.5 G30 H (20670) 5.5 G30 H (21131) 7 G20 H (20677) 3.5 G30 H (FP) 4 G36 H (FP)
 4 G30 H (20665) 4.5 G40 H (21130) 6.5 G13 (20674) 4 G20 (FP) 4.5 G25 H (FP)
 4 G40 H (20667) 5.5 G13 (20671) 6.5 G20 H (20675) 4 G30 A (FP) 5.5 G26 H (FP)



Pos.	Cod.	Denominazione	Description	Qt	Note	Pos.	Cod.	Denominazione	Description	Qt	Note
1	960160	Guarnizione OR Ø 17,86x2,62	O-ring	6		37	2280100	Albero marcato 5	Shaft	1	○
2	960090	Tappo	Plug	6	☛ RKA C=54Nm		2280090	Albero marcato 4	Shaft	1	●
	960850	Tappo	Plug	6	☛ RKA H=54Nm		2280070	Albero marcato 2	Shaft	1	□ ⊕ ⊗
	1380740	Tappo	Plug	6	☛ RKA H C=54Nm		2280060	Albero marcato 1	Shaft	1	◆
3	1389051	Valvola completa	Complete valve	6		38	1380520	Linguetta	Key	1	
4	880830	Guarnizione OR Ø 15,54x2,62	O-ring	6		39	180340	Anello tenuta	Ring	1	(b)
5	880581	Tappo 1/4" G	Plug	2	☛ RKA C=15Nm	40	1380120	Spessore 0,10 mm	Shim 0.10 mm	1÷3	
	1380690	Tappo 1/4" G nickel	Plug	2	☛ RKA H C=15Nm		1380130	Spessore 0,19 mm	Shim 0.19 mm	1÷3	
6	820510	Guarnizione OR Ø 10,82x1,78	O-ring	2			1380530	Spessore 0,25 mm	Shim 0.25 mm	1÷3	
11	960110	Anello appoggio Ø 18	Ring	3	○ □ ●		1382810	Spessore 0,05 mm	Shim 0.05 mm	1÷3	
	840300	Anello appoggio Ø 20	Ring	3	⊕ ⊗	41	1380040	Supporto cuscinetto aperto	Support	1	
	840320	Anello appoggio Ø 22	Ring	3	◆ ◆	42	740290	Guarnizione OR Ø 14x1,78	O-ring	3	⊗
12	1382740	Tenuta acqua Ø 18	Water seal	3	○ □ ●	43	1980740	Tappo 3/8" G ottone	Plug	2	⊗ C=20Nm
	840290	Tenuta acqua Ø 20	Water seal	3	⊕	44	1263130	Vite TE M8x12	Screw	4	Optional
	840330	Tenuta acqua Ø 22	Water seal	3	◆ ◆	45	1380141	Piede	Foot	2	Optional
13	1380090	Guida pistone Ø 18	Piston guide	3	○ □ ●	46	1980740	Tappo 3/8" G ottone	Plug	1	RKA C=25Nm
	1380150	Guida pistone Ø 20	Piston guide	3	⊕		1981180	Tappo 3/8" G nickel	Plug	1	RKA H C=25Nm
	1380160	Guida pistone Ø 22	Piston guide	3	◆ ◆	47	180101	Guarnizione OR Ø 17,5x2	O-ring	1	
14	961240	Guarnizione OR Ø 31,47x1,78	O-ring	3		48	820361	Tappo 1/2" G ottone	Plug	1	RKA C=40Nm
15	880330	Tenuta acqua Ø 18	Water seal	3	○ □ ●		960870	Tappo 1/2" G nickel	Plug	1	RKA H C=40Nm
	840280	Tenuta acqua Ø 20	Water seal	3	⊕		1381071	Testa	Head	1	Ø18 RKA
	840340	Tenuta acqua Ø 22	Water seal	3	◆ ◆		1381070	Testa nikelata	Head	1	Ø18 RKA H-H ☞
16	880520	Anello tenuta	Ring	3			1380020	Testa	Head	1	Ø20 RKA
17	850370	Vite TCEI M8x16	Screw	8	C=24,5Nm		1380680	Testa nikelata	Head	1	Ø20 RKA H
18	1380050	Supporto cuscinetto chiuso	Support	1			1383010	Testa	Head	1	Ø22 RKA
19	640030	Guarnizione OR Ø 59,99x2,62	O-ring	2			1383310	Testa	Head	1	Ø22 RKA H
20	2280340	Cuscinetto	Bearing	1		50	820150	Vite TCEI M8x70	Screw	8	C=24,5Nm
21	1382770	Corpo pompa	Pump body	1		69	1381850	Rondella	Washer	8	
22	880130	Tappo	Plug	1			1389270	Premontaggio testa	Head assembly	1	Ø18 RKA
23	962010	Dado	Nut	3	☛ C=20Nm		1389272	Premontaggio testa	Head assembly	1	Ø18 RKA H
24	962000	Rondella	Washer	3			1389271	Premontaggio testa	Head assembly	1	Ø18 RKA H ☞
25	1380940	Pistone Ø 18	Piston	3	○ □ ●		1389208	Premontaggio testa	Head assembly	1	Ø20 RKA
	1380930	Pistone Ø 20	Piston	3	⊕		1389212	Premontaggio testa	Head assembly	1	Ø20 RKA H
	1382360	Pistone Ø 22	Piston	3	◆ ◆		1389268	Premontaggio testa	Head assembly	1	Ø22 RKA
26	1380950	Disco	Plate	3			1389269	Premontaggio testa	Head assembly	1	Ø22 RKA H
27	600180	Guarnizione OR Ø 7,66x1,78	O-ring	3		75	1080401	Anello antiestrusione	Ring	3	
28	1380920	Pistone di guida	Piston	3		77	1383140	Cuscinetto	Bearing	1	
29	1380060	Spina	Pin	3		86	1260250	Indicatore livello	Level gauge	1	⊗
30	1383050	Biella alluminio	Connecting-rod	3		87	1260430	Anello	Ring	1	⊗
	1383020	Biella bronzo	Connecting-rod	3		88	1780690	Disco	Plate	1	⊗
34	1780510	Guarnizione OR Ø 106x3	O-ring	1		89	1140450	Guarnizione OR Ø 20,24x2,62	O-ring	1	⊗
35	1789010	Coperchio completo	Cover	1							
36	1343510	Vite TCEI M6x14	Screw	6	C=10Nm						

☛ Compreso nel cod. 1789010 / Part of part n° 1789010

KIT RICAMBI - PART KITS

A=KIT 2864 valvole valves		pistoni pistons		B=KIT 2757 ø 18 B=KIT 2758 ø 20 B=KIT 2759 ø 22		C=KIT 1855 tenute olio oil seals	
Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty
3	6	25	3	16	3		
4	6			19	2		
				34	1		
				39	1		

tenute acqua water seals		E=KIT 1857 ø 18 E=KIT 1887 ø 20 E=KIT 1888 ø 22		anelli appoggio support rings		G=KIT 1829 ø 18 G=KIT 1815 ø 20 G=KIT 1816 ø 22	
Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty
12	3			11	3		
14	3						
15	3						

SIMBOLOGIA - SYMBOLS

○ Per / For RKA 3.5 G22 cod. 20659 RKA 3.5 G30 H RKA 3.5 G40 H ☞ cod. 20661	● Per / For RKA 4 G20 RKA 4 G30 A RKA 4 G30 H cod. 20665 RKA 4 G36 H ☞ RKA 4 G40 H ☞ cod. 20667	⊗ Per / For RKA 5.5 G13 RKA 5.5 G20 H cod. 20672 RKA 5.5 G26 H RKA 5.5 G30 H cod. 21131	◆ Per / For RKA 6.5 G13 cod. 20674 RKA 6.5 G20 H cod. 20675
☛ Per / For RKA 4.5 G17 cod. 20668 RKA 4.5 G25 H RKA 4.5 G30 H cod. 20670 RKA 4.5 G40 H cod. 21130			◆ Per / For RKA 7 G13 cod. 20676 RKA 7 G20 H cod. 20677

C Tolleranza coppia di serraggio +0÷-10% / Tightening torque tolerance +0÷-10%
 ☛ Avvitare con Loxeal 55-14 / Screw with Loxeal 55-14
 (b) Montare anello tenuta con attrezzo cod. 2281010 / Fit the seal with tool code nr. 2281010
 ☞ OLTRE 250 bar - OVER 3600 psi
 @ Posizionamento targa di identificazione / Identification plate positioning

PARTI SPECIALI IN VITON SPECIAL PARTS

Cod. - Part n°	Denominazione - Description	Q.tà - Q.ty
2809	Tenute acqua/Water seals ø 18	1
2810	Tenute acqua/Water seals ø 20	1
2811	Tenute acqua/Water seals ø 22	1

Olio - Oil	
Tipo / Type	Quantità / Quantity
SAE 15W40	0,435 Kg

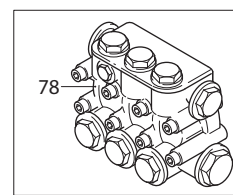
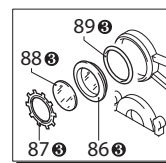
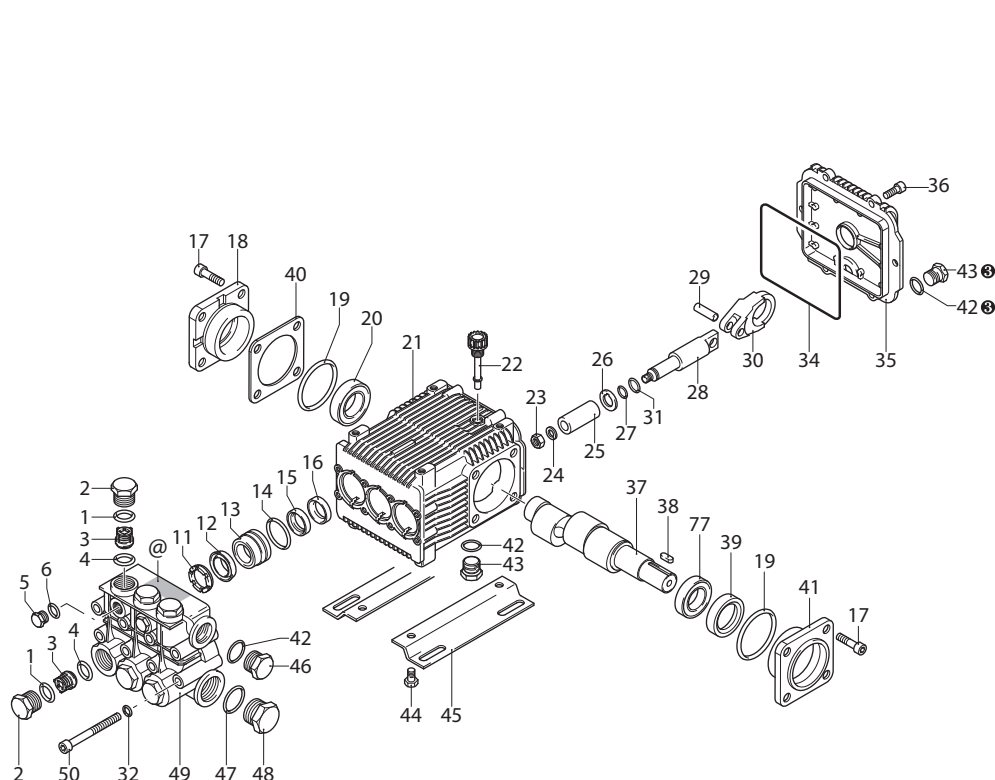
RK

VERSION

N

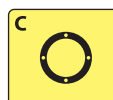
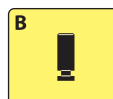
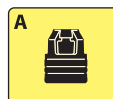
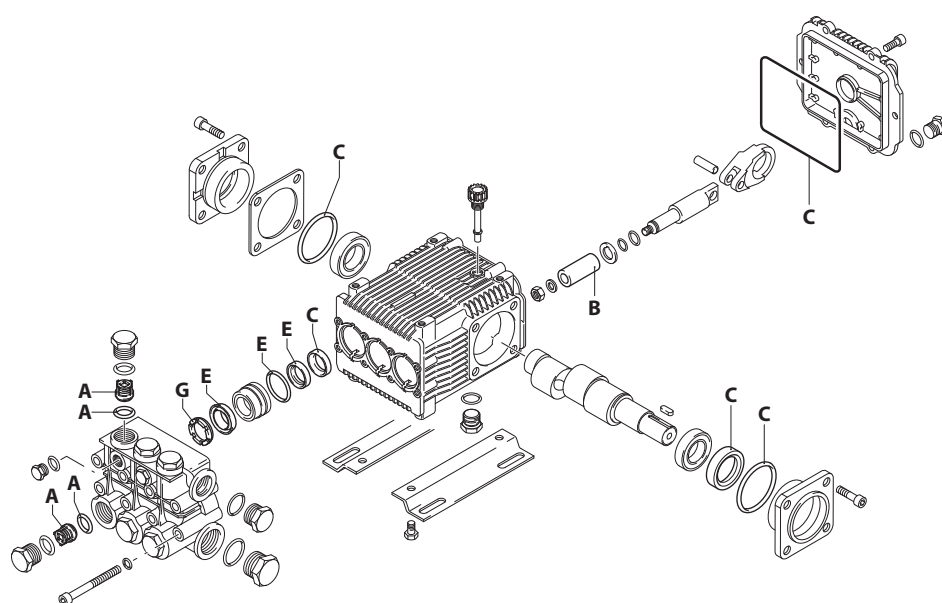
1450_{rpm}

ø 24x30 mm



UN003304-MR

KIT RICAMBI / PART KITS



UN003305-AS

228 Series

RK 1450 rpm N version ø 24 mm



11.14 (20630) 13.17 (20634) 15.15 (20637) 15.20 (20897) (FC) 18.20 H (20643) 21.15 H (20645) 18.16 H (FP)
 11.20 H (20631) 13.20 H (20635) 15.20 H (20638) 15.28 H (20640) 18.28 H (21467) 21.20 H (21129)
 11.25 H (20632) 14.16 (20636) 15.25 H (20639) 18.12 (20641) 21.10 (20644) 13.12 (FP)

Pos.	Cod.	Denominazione	Description	Qt	Note	Pos.	Cod.	Denominazione	Description	Qt	Note
1	960160	Guarnizione OR Ø 17,86x2,62	O-ring	6		34	1780510	Guarnizione OR Ø 106x3	O-ring	1	
2	960090	Tappo	Plug	6	● RK C=54Nm	35	1789010	Coperchio completo	Cover	1	
	960850	Tappo	Plug	6	● RK H H [®] C=54Nm	36	1343510	Vite TCEI M6x14	Screw	6	C=10Nm
	1380740	Tappo	Plug	6	● RK H C=54Nm	37	2280100	Albero marcato 5	Shaft	1	○
3	1389051	Valvola completa	Complete valve	6			2280080	Albero marcato 3	Shaft	1	□
4	880830	Guarnizione OR Ø 15,54x2,62	O-ring	6			2280070	Albero marcato 2	Shaft	1	● ★
5	880581	Tappo 1/4" G	Plug	2	● RK C=15Nm		2280060	Albero marcato 1	Shaft	1	☆ ☆
	1380690	Tappo 1/4" G nickel	Plug	2	● RK H - H [®] C=15Nm	38	1380520	Linguetta	Key	1	
6	820510	Guarnizione OR Ø 10,82x1,78	O-ring	2		39	180340	Anello tenuta	Ring	1	(b)
11	960110	Anello appoggio Ø 18	Ring	3	○ □ ● ☆	40	1380120	Spessore 0,10 mm	Shim 0.10 mm	1÷3	
	840300	Anello appoggio Ø 20	Ring	3	☆		1380130	Spessore 0,19 mm	Shim 0.19 mm	1÷3	
	840320	Anello appoggio Ø 22	Ring	3	★		1380530	Spessore 0,25 mm	Shim 0.25 mm	1÷3	
12	1382740	Tenuta acqua Ø 18	Water seal	3	○ □ ● ☆		1382810	Spessore 0,05 mm	Shim 0.05 mm	1÷3	
	840290	Tenuta acqua Ø 20	Water seal	3	☆	41	1380040	Supporto cuscinetto aperto	Support	1	
	840330	Tenuta acqua Ø 22	Water seal	3	★	42	740290	Guarnizione OR Ø 14x1,78	O-ring	3	③
13	1380090	Guida pistone Ø 18	Piston guide	3	○ □ ● ☆	43	1980740	Tappo 3/8" G ottone	Plug	2	③ C=20Nm
	1380150	Guida pistone Ø 20	Piston guide	3	☆	44	1263130	Vite TE M8x12	Screw	4	Optional C=20Nm
	1380160	Guida pistone Ø 22	Piston guide	3	★	45	1380141	Piede	Foot	2	Optional
14	961240	Guarnizione OR Ø 31,47x1,78	O-ring	3		46	1980740	Tappo 3/8" G ottone	Plug	1	RK C=25Nm
15	880330	Tenuta acqua Ø 18	Water seal	3	○ □ ● ☆	47	1981180	Tappo 3/8" G nickel	Plug	1	RK H - H [®] C=25Nm
	840280	Tenuta acqua Ø 20	Water seal	3	☆	48	820361	Tappo 1/2" G ottone	Plug	1	RK C=40Nm
	840340	Tenuta acqua Ø 22	Water seal	3	★		960870	Tappo 1/2" G nickel	Plug	1	RK H - H [®] C=40Nm
16	880520	Anello tenuta	Ring	3		49	1381071	Testa	Head	1	Ø18 RK
17	850370	Vite TCEI M8x16	Screw	8	C=24,5Nm		1381070	Testa nikelata	Head	1	Ø18 RK H - H [®]
18	1380050	Supporto cuscinetto chiuso	Support	1			1380020	Testa	Head	1	Ø20-22 RK
19	640030	Guarnizione OR Ø 59,99x2,62	O-ring	2			1380680	Testa nikelata	Head	1	Ø20-22 RK H
20	2280340	Cuscinetto	Bearing	1		50	820150	Vite TCEI M8x70	Screw	8	C=24,5Nm
21	1382770	Corpo pompa	Pump body	1		77	1383140	Cuscinetto	Bearing	1	
22	880130	Tappo	Plug	1			1389270	Premontaggio testa	Head assembly	1	Ø18 RK
23	962010	Dado	Nut	3	● C=20Nm		1389272	Premontaggio testa	Head assembly	1	Ø18 RK H
24	962000	Rondella	Washer	3			1389271	Premontaggio testa	Head assembly	1	Ø18 RK H H [®]
25	1380940	Pistone Ø 18	Piston	3	○ □ ● ☆		1389208	Premontaggio testa	Head assembly	1	Ø20 RK
	1380930	Pistone Ø 20	Piston	3	☆		1389212	Premontaggio testa	Head assembly	1	Ø20 RK H
	1382360	Pistone Ø 22	Piston	3	★		1389216	Premontaggio testa	Head assembly	1	Ø22 RK
26	1380950	Disco	Plate	3			1389220	Premontaggio testa	Head assembly	1	Ø22 RK H
27	600180	Guarnizione OR Ø 7,66x1,78	O-ring	3		86	1260250	Indicatore livello	Level gauge	1	③
28	1380920	Pistone di guida	Piston	3		87	1260430	Anello	Ring	1	③
29	1380060	Spina	Pin	3		88	1780690	Disco	Plate	1	③
30	1383050	Biella alluminio	Connecting-rod	3		89	1140450	Guarnizione OR Ø 20,24x2,62	O-ring	1	③
	1383020	Biella bronzo	Connecting-rod	3							
31	1080401	Anello antiestrusione	Ring	3							
32	1381850	Rondella	Washer	8							

③ Compreso nel cod. 1789010 / Part of part n° 1789010

KIT RICAMBI - PART KITS

A=KIT 2864 valvole valves		pistoni pistons		B=KIT 2757 ø 18 B=KIT 2758 ø 20 B=KIT 2759 ø 22		C=KIT 1855 tenute olio oil seals	
Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty
3	6	25	3	16	3		
4	6			19	2		
				34	1		
				39	1		

tenute acqua water seals		E=KIT 1857 ø 18 E=KIT 1887 ø 20 E=KIT 1888 ø 22		anelli appoggio support rings		G=KIT 1829 ø 18 G=KIT 1815 ø 20 G=KIT 1816 ø 22	
Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty
12	3			11	3		
14	3						
15	3						

SIMBOLOGIA - SYMBOLS

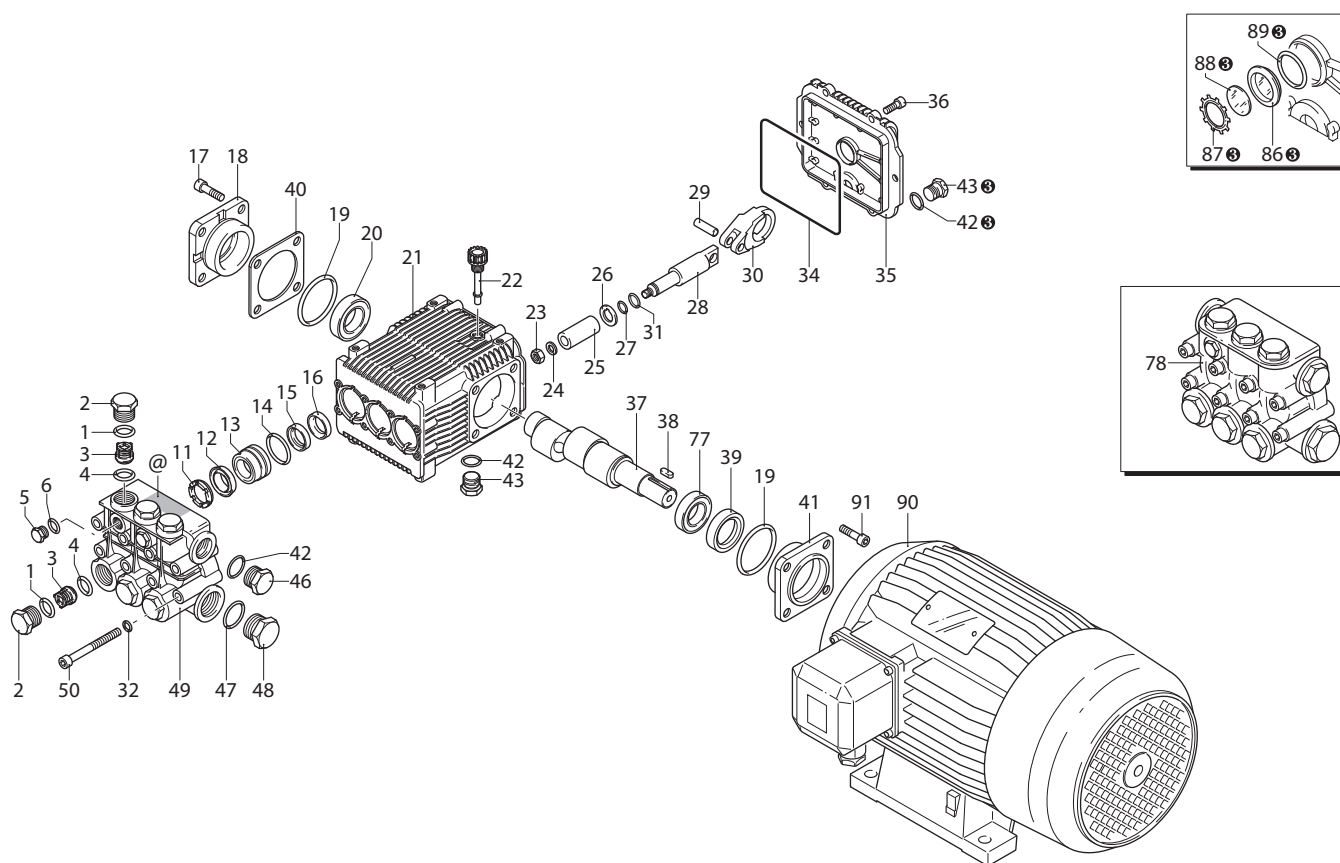
○ Per / For RK 11.14 cod. 20630 RK 11.20 H cod. 20631 RK 11.25 H [®] cod. 20632	● Per / For RK 14.16 cod. 20636 ☆ Per / For RK 15.15 cod. 20637 RK 15.20 cod. 20897 RK 15.20 H cod. 20638 RK 15.25 H [®] cod. 20639 RK 15.28 H [®] cod. 20640	☆ Per / For RK 18.12 cod. 20641 RK 18.16 H RK 18.20 H cod. 20643 RK 18.28 H [®] cod. 21467	★ Per / For RK 21.10 cod. 20644 RK 21.15 H cod. 20645 RK 21.20 H cod. 21129
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C Tolleranza coppia di serraggio +0÷-10% / Tightening torque tolerance +0÷-10%
 ● Avvitare con Loxeal 55-14 / Screw with Loxeal 55-14
 (b) Montare anello tenuta con attrezzo cod. 2281010 / Fit the seal with tool code nr. 2281010
 H[®] OLTRE 250 bar - OVER 3600 psi
 @ Posizionamento targa di identificazione / Identification plate positioning

PARTI SPECIALI IN VITON SPECIAL PARTS

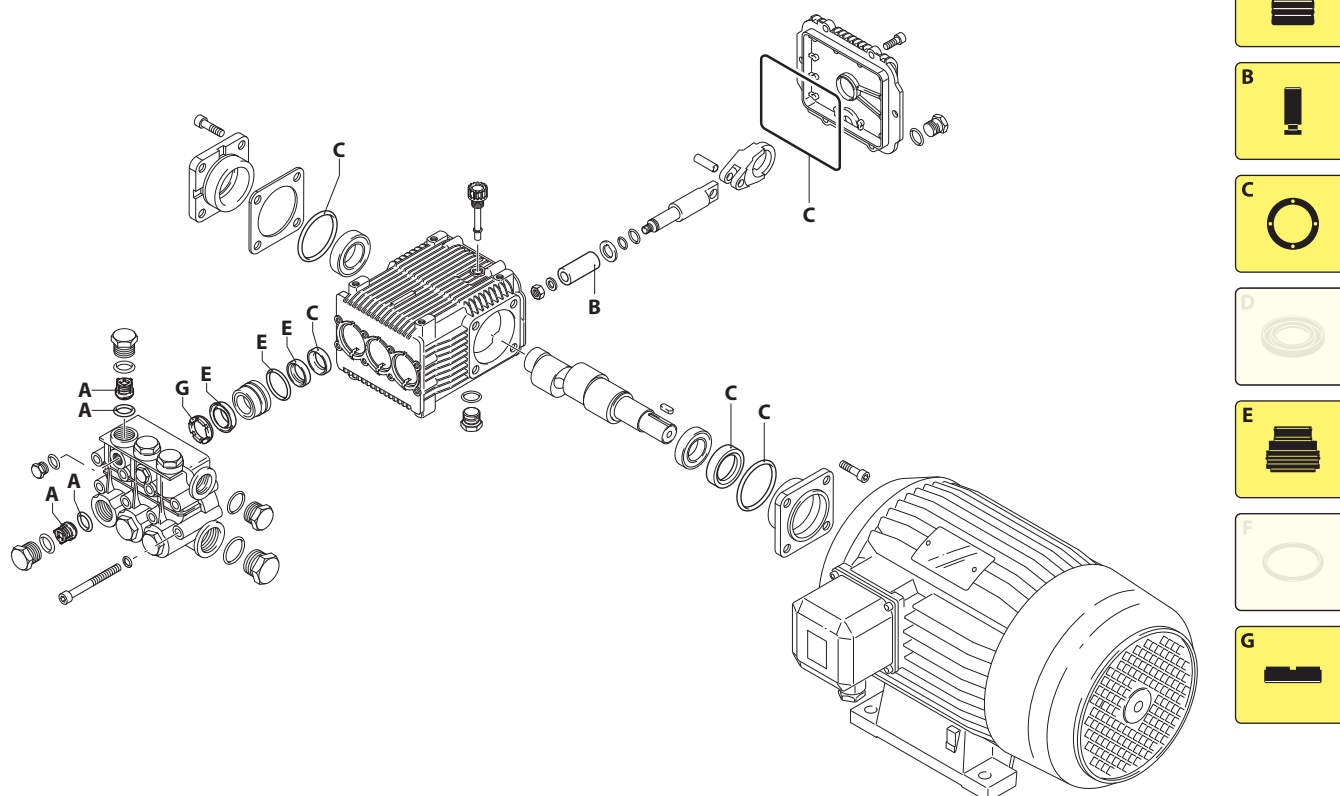
Cod. - Part n°	Denominazione - Description	Q.tà - Q.ty
2809	Tenute acqua/Water seals ø 18	1
2810	Tenute acqua/Water seals ø 20	1
2811	Tenute acqua/Water seals ø 22	1

Olio - Oil	
Tipo / Type	Quantità / Quantity
SAE 15W40	0,435 Kg



UN002398-DQ

KIT RICAMBI / PART KITS



UN002399-AS

228 Series

HRK 1450 rpm

13.20 H ET (20859)

14.16 ET (20860)

15.15 ET (20861)

15.20 H ET (20862)

15.25 H ET (20863)

18.16 H ET (20865)

21.10 ET (20866)

21.15 H ET (20867)

21.20 H ET (20868)

15.11 (FP)

18.12 (FP)



Pos.	Cod.	Denominazione	Description	Qt	Note	Pos.	Cod.	Denominazione	Description	Qt	Note
1	960160	Guarnizione OR Ø 17,86x2,62	O-ring	6		35	1789010	Coperchio completo	Cover	1	
2	960090	Tappo	Plug	6	● RK C=54Nm	36	1343510	Vite	TCEI M6x14	6	C=10Nm
	960850	Tappo	Plug	6	● RK H=54Nm	37	2280080	Albero marcato 3	Shaft	1	□
	1380740	Tappo	Plug	6	● RK H C=54Nm		2280070	Albero marcato 2	Shaft	1	● ★
3	1389051	Valvola completa	Complete valve	6			2280060	Albero marcato 1	Shaft	1	☆ ☆
4	880830	Guarnizione OR Ø 15,54x2,62	O-ring	6		38	1380520	Linguetta	Key	1	
5	880581	Tappo 1/4" G	Plug	2	RK C=15Nm	39	180340	Anello tenuta	Ring	1	(a)
	1380690	Tappo 1/4" G nickel	Plug	2	RK H - H=15Nm		1380120	Spessore 0,10 mm	Shim 0.10 mm	1÷3	
6	820510	Guarnizione OR Ø 10,82x1,78	O-ring	2			1380130	Spessore 0,19 mm	Shim 0.19 mm	1÷3	
11	960110	Anello appoggio Ø18	Ring	3	□ ● ☆	40	1380530	Spessore 0,25 mm	Shim 0.25 mm	1÷3	
	840300	Anello appoggio Ø20	Ring	3	☆		1382810	Spessore 0,05 mm	Shim 0.05 mm	1÷3	
	840320	Anello appoggio Ø22	Ring	3	★	41	1380040	Supporto cuscinetto aperto	Support	1	
12	1382740	Tenuta acqua Ø 18	Water seal	3	□ ● ☆	42	740290	Guarnizione OR Ø 14x1,78	O-ring	3	③
	840290	Tenuta acqua Ø 20	Water seal	3	☆	43	1980740	Tappo 3/8" G ottone	Plug	2	③
	840330	Tenuta acqua Ø 22	Water seal	3	★	46	1980740	Tappo 3/8" G ottone	Plug	1	RK C=25Nm
13	1380090	Guida pistone Ø 18	Piston guide	3	□ ● ☆		1981180	Tappo 3/8" G nickel	Plug	1	RK H - H=25Nm
	1380150	Guida pistone Ø 20	Piston guide	3	☆	47	180101	Guarnizione OR Ø 17,5x2	O-ring	1	
	1380160	Guida pistone Ø 22	Piston guide	3	★	48	820361	Tappo 1/2" G ottone	Plug	1	RK C=40Nm
14	961240	Guarnizione OR Ø 31,47x1,78	O-ring	3			960870	Tappo 1/2" G nickel	Plug	1	RK H - H=40Nm
15	880330	Tenuta acqua Ø 18	Water seal	3	□ ● ☆	49	1381071	Testa	Head	1	Ø18 RK
	840280	Tenuta acqua Ø 20	Water seal	3	☆		1381070	Testa nikelata	Head	1	Ø18 RK H - H=54Nm
	840340	Tenuta acqua Ø 22	Water seal	3	★		1380020	Testa	Head	1	Ø20-22 RK
16	880520	Anello tenuta	Ring	3			1380680	Testa nikelata	Head	1	Ø20-22 RK H
17	850370	Vite	Screw	4	C=24,5Nm	50	820150	Vite	Screw	8	C=24,5Nm
18	1380050	Supporto cuscinetto chiuso	Support	1		77	1383140	Cuscinetto	Bearing	1	
19	640030	Guarnizione OR Ø 59,99x2,62	O-ring	2			1389270	Premontaggio testa	Head assembly	1	Ø18 RK
20	2280340	Cuscinetto	Bearing	1			1389272	Premontaggio testa	Head assembly	1	Ø18 RK H
21	1382770	Corpo pompa	Pump body	1			1389271	Premontaggio testa	Head assembly	1	Ø18 RK H=54Nm
22	880130	Tappo	Plug	1			1389208	Premontaggio testa	Head assembly	1	Ø20 RK
23	962010	Dado	Nut	3	● C=20Nm		1389212	Premontaggio testa	Head assembly	1	Ø20 RK H
24	962000	Rondella	Washer	3			1389216	Premontaggio testa	Head assembly	1	Ø22 RK
25	1380940	Pistone Ø 18	Piston	3	□ ● ☆		1389220	Premontaggio testa	Head assembly	1	Ø22 RK H
	1380930	Pistone Ø 20	Piston	3	☆	86	1260250	Indicatore livello	Level gauge	1	③
	1382360	Pistone Ø 22	Piston	3	★	87	1260430	Anello	Ring	1	③
26	1380950	Disco	Plate	3		88	1780690	Disco	Plate	1	③
27	600180	Guarnizione OR Ø 7,66x1,78	O-ring	3		89	1140450	Guarnizione OR Ø 20,24x2,62	O-ring	1	③
28	1380920	Pistone di guida	Piston	3			4896	Motore Gr.100	Motor	1	4HP (FP)
29	1380060	Spina	Pin	3			4393	Motore Gr.112	Motor	1	5,5HP
30	1383050	Biella alluminio	Connecting-rod	3			4124	Motore Gr.112	Motor	1	7,5HP
	1383020	Biella bronzo	Connecting-rod	3			4933	Motore Gr.132	Motor	1	10 HP
31	1080401	Anello antiestrusione	Ring	3		91	620610	Vite	TCEI M8x30	4	
32	1381850	Rondella	Washer	8							
34	1780510	Guarnizione OR Ø 106x3	O-ring	1							

③ Compreso nel cod. 1789010 / Part of part n° 1789010

KIT RICAMBI - PART KITS

A=KIT 2864 valvole valves		pistoni pistons		B=KIT 2757 Ø 18 B=KIT 2758 Ø 20 B=KIT 2759 Ø 22		C=KIT 1855 tenute olio oil seals	
Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty
3	6	25	3	16	3		
4	6			19	2		
				34	1		
				38	1		

tenute acqua water seals		E=KIT 1857 Ø 18 E=KIT 1887 Ø 20 E=KIT 1888 Ø 22		anelli appoggio support rings		G=KIT 1829 Ø 18 G=KIT 1815 Ø 20 G=KIT 1816 Ø 22	
Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty
12	3			11	3		
14	3						
15	3						

SIMBOLOGIA - SYMBOLS

Ø 18	Ø 18	Ø 20	Ø 22
□ Per / For HRK 13.20 H cod. 20859	● Per / For HRK 15.11 HRK 15.15 cod. 20861 HRK 15.20 H cod. 20862 HRK 15.25 H=54Nm cod. 20863	☆ Per / For HRK 18.12 HRK 18.16 H cod. 20865	★ Per / For HRK 21.10 cod. 20866 HRK 21.15 H cod. 20867 HRK 21.20 H cod. 20868

C Tolleranza coppia di serraggio +0÷-10% / Tightening torque tolerance +0÷-10%

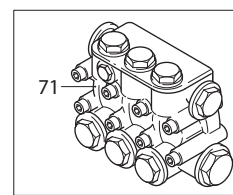
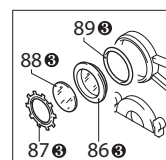
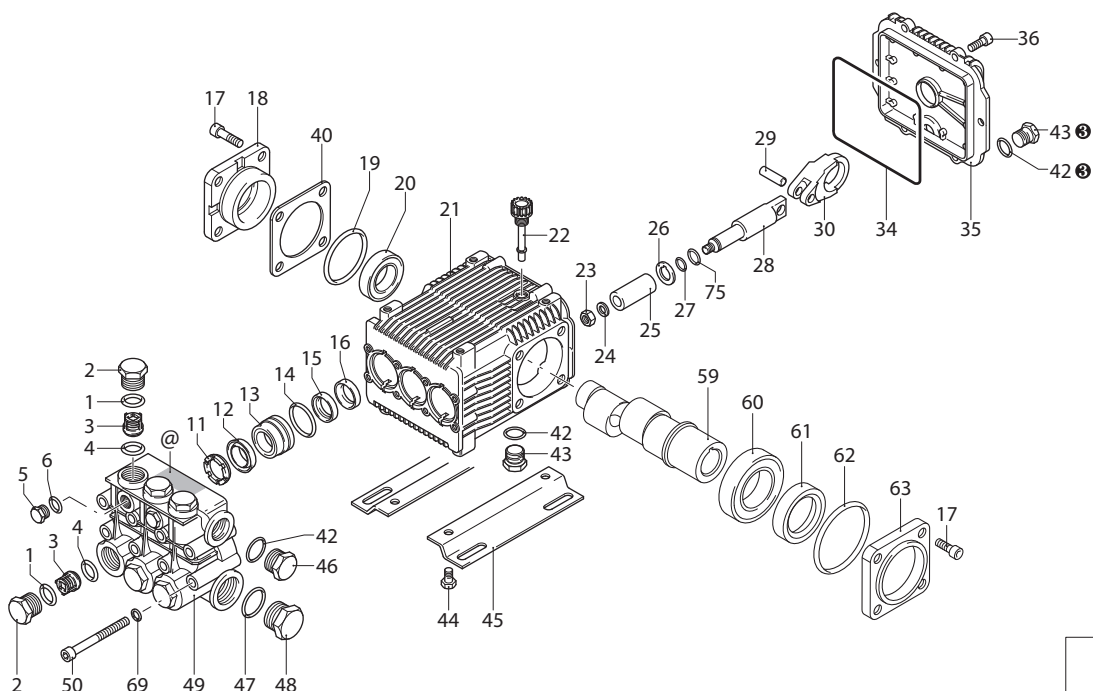
● Avvitare con Loxeal 55-14 / Screw with Loxeal 55-14

(a) Montare anello tenuta con attrezzo cod. 2281010 / Fit the seal with tool code nr. 2281010

54 OLTR 250 bar - OVER 3600 psi

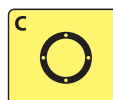
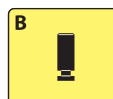
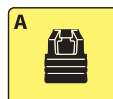
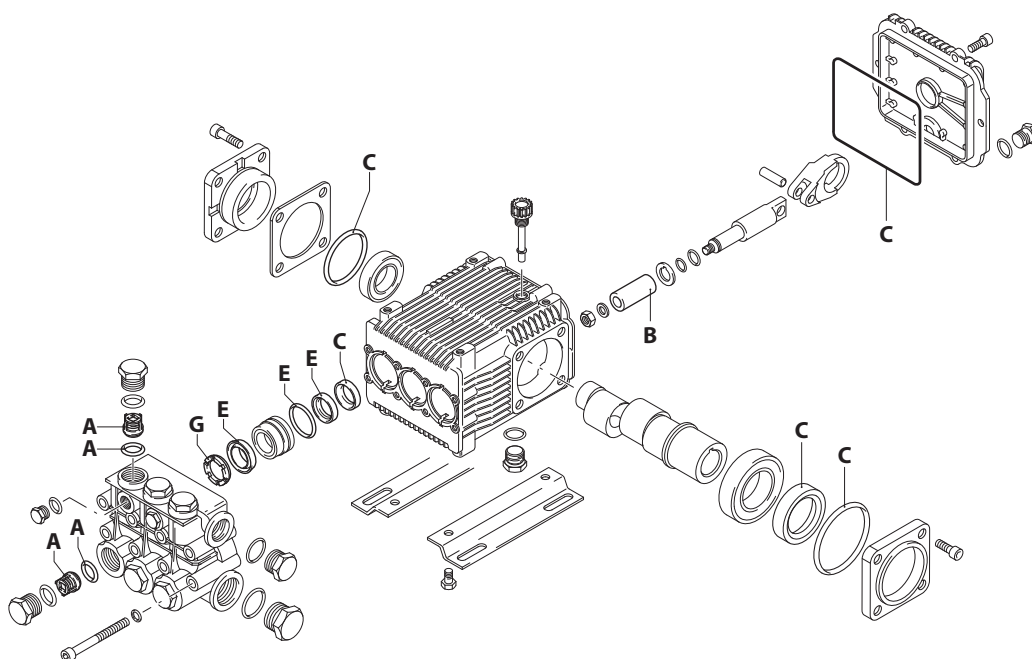
@ Posizionamento targa di identificazione / Identification plate positioning

Olio - Oil			
Tipo / Type	Quantità / Quantity		
SAE 15W40	0,435 Kg		



UN003310-MR

KIT RICAMBI / PART KITS



UN003311-LW

228 Series

RKA 1750 rpm E version ø 1" 1/8

3.5 G25 (20678)
3.5 G30 H (20679)
4 G20 (20680)

4 G30 (20681)
5.5 G13 (20682)
6.5 G13 (20683)

6.5 G20 H (20684)
7 G13 (20685)
7 G20 H (20686)



Pos.	Cod.	Denominazione	Description	Qt	Note	Pos.	Cod.	Denominazione	Description	Qt	Note
1	960160	Guarnizione OR Ø 17,86x2,62	O-ring	6		40	1380120	Spessore 0,10 mm	Shim 0.10 mm	1÷3	
2	960090	Tappo	Plug	6	⚙ RKA C=54Nm		1380130	Spessore 0,19 mm	Shim 0.19 mm	1÷3	
	1380740	Tappo	Plug	6	⚙ RKA H C=54Nm		1380530	Spessore 0,25 mm	Shim 0.25 mm	1÷3	
3	1389051	Valvola completa	Complete valve	6			1382810	Spessore 0,05 mm	Shim 0.05 mm	1÷3	
4	880830	Guarnizione OR Ø 15,54x2,62	O-ring	6		42	740290	Guarnizione OR Ø 14x1,78	O-ring	3	⚙
5	880581	Tappo 1/4" G	Plug	2	⚙ RKA C=15Nm	43	1980740	Tappo 3/8" G ottone	Plug	2	⚙ C=20Nm
	1380690	Tappo 1/4" G nickel	Plug	2	⚙ RKA H C=15Nm	44	1263130	Vite TE M8x12	Screw	4	Optional
6	820510	Guarnizione OR Ø 10,82x1,78	O-ring	2		45	1380141	Piede	Foot	2	Optional
11	960110	Anello appoggio Ø 18	Ring	3	○ ●	46	1980740	Tappo 3/8" G ottone	Plug	1	RKA C=20Nm
	840300	Anello appoggio Ø 20	Ring	3	⚙		1981180	Tappo 3/8" G nickel	Plug	1	RKA H C=20Nm
	840320	Anello appoggio Ø 22	Ring	3	⚙	47	180101	Guarnizione OR Ø 17,5x2	O-ring	1	
12	1382740	Tenuta acqua Ø 18	Water seal	3	○ ●	48	820361	Tappo 1/2" G ottone	Plug	1	RKA C=40Nm
	840290	Tenuta acqua Ø 20	Water seal	3	⚙		960870	Tappo 1/2" G nickel	Plug	1	RKA H C=40Nm
	840330	Tenuta acqua Ø 22	Water seal	3	⚙	49	1381071	Testa	Head	1	Ø18 RKA
13	1380090	Guida pistone Ø 18	Piston guide	3	○ ●		1381070	Testa nikelata	Head	1	Ø18 RKA H
	1380150	Guida pistone Ø 20	Piston guide	3	⚙		1380020	Testa	Head	1	Ø20 RKA
	1380160	Guida pistone Ø 22	Piston guide	3	⚙		1383010	Testa	Head	1	Ø22 RKA
14	961240	Guarnizione OR Ø 31,47x1,78	O-ring	3			1383310	Testa	Head	1	Ø22 RKA H
15	880330	Tenuta acqua Ø 18	Water seal	3	○ ●	50	820150	Vite TCEI M8x70	Screw	8	C=24,5Nm
	840280	Tenuta acqua Ø 20	Water seal	3	⚙	59	2280260	Albero marcato 5	Shaft	1	○
	840340	Tenuta acqua Ø 22	Water seal	3	⚙		2280200	Albero marcato 4	Shaft	1	●
16	880520	Anello tenuta	Ring	3	⚙		2280270	Albero marcato 2	Shaft	1	⚙
17	850370	Vite TCEI M8x16	Screw	8	C=24,5Nm		2280280	Albero marcato 1	Shaft	1	⚙
18	1380050	Supporto cuscinetto chiuso	Support	1		60	1383150	Cuscinetto	Bearing	1	
19	640030	Guarnizione OR Ø 59,99x2,62	O-ring	1		61	621170	Tenuta olio	Oil seal	1	(b)
20	2280340	Cuscinetto	Bearing	1		62	1380220	Guarnizione OR Ø 72,75x1,78	O-ring	1	
21	1382770	Corpo pompa	Pump body	1		63	1380210	Coperchio	Cover	1	
22	880130	Tappo	Plug	1		69	1381850	Rondella	Washer	8	
23	962010	Dado	Nut	3	⚙ C=20Nm	71	1389270	Premontaggio testa	Head assembly	1	Ø18 RKA
24	962000	Rondella	Washer	3			1389272	Premontaggio testa	Head assembly	1	Ø18 RKA H
25	1380940	Pistone Ø 18	Piston	3	○ ●		1389208	Premontaggio testa	Head assembly	1	Ø20 RKA
	1380930	Pistone Ø 20	Piston	3	⚙		1389268	Premontaggio testa	Head assembly	1	Ø22 RKA
	1382360	Pistone Ø 22	Piston	3	⚙		1389269	Premontaggio testa	Head assembly	1	Ø22 RKA H
26	1380950	Disco	Plate	3		75	1080401	Anello antiestrusione	Ring	3	
27	600180	Guarnizione OR Ø 7,66x1,78	O-ring	3		86	1260250	Indicatore livello	Level gauge	1	⚙
28	1380920	Pistone di guida	Piston	3		87	1260430	Anello	Ring	1	⚙
29	1380060	Spina	Pin	3		88	1780690	Disco	Plate	1	⚙
30	1383050	Biella alluminio	Connecting-rod	3		89	1140450	Guarnizione OR Ø 20,24x2,62	O-ring	1	⚙
	1383020	Biella bronzo	Connecting-rod	3							
34	1780510	Guarnizione OR Ø 106x3	O-ring	1							
35	1789010	Coperchio completo	Cover	1							
36	1343510	Vite TCEI M6x14	Screw	6	C=10Nm						

⚙ Compreso nel cod. 1789010 / Part of part n° 1789010

SIMBOLOGIA - SYMBOLS

○ Per / For RKA 3.5 G25 cod. 20678 RKA 3.5 G30 H cod. 20679	● Per / For RKA 4 G20 cod. 20680 RKA 4 G30 H cod. 20681	⚙ Per / For RKA 5.5 G13 cod. 20682 ⚙ Per / For RKA 6.5 G13 cod. 20683 RKA 6.5 G20 H cod. 20684	⚙ Per / For RKA 7 G13 cod. 20685 RKA 7 G20 H cod. 20686
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- C Tolleranza coppia di serraggio +0÷-10% / Tightening torque tolerance +0÷-10%
- ⚙ Avvitare con Loxeal 55-14 / Screw with Loxeal 55-14
- (b) Montare anello tenuta con attrezzo cod. 1781000 / Fit the seal with tool code nr. 1781000
- @ Posizionamento targa di identificazione / Identification plate positioning

KIT RICAMBI - PART KITS

A=KIT 2864 valvole valves		B=KIT 2757 ø 18 B=KIT 2758 ø 20 B=KIT 2759 ø 22		C=KIT 1856 tenute olio oil seals	
Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty
3	6	25	3	16	3
4	6			19	2
				34	1
				61	1
				62	1

tenute acqua water seals		E=KIT 1857 ø 18 E=KIT 1887 ø 20 E=KIT 1888 ø 22		anelli appoggio support rings		G=KIT 1829 ø 18 G=KIT 1815 ø 20 G=KIT 1816 ø 22	
Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty
12	3			11	3		
14	3						
15	3						

PARTI SPECIALI IN VITON SPECIAL PARTS

Cod. - Part n°	Denominazione - Description	Q.tà - Q.ty
2809	Tenute acqua/Water seals ø 18	1
2810	Tenute acqua/Water seals ø 20	1
2811	Tenute acqua/Water seals ø 22	1

Olio - Oil	
Tipo / Type	Quantità / Quantity
SAE 15W40	0,435 Kg