

PRODUCT CATALOGUE 2017

MH HYDRAULIC SPARE PARTS

FOR PROFESSIONAL HYDRAULIC REPAIR



MH
HYDRAULICS
HYDRAULIC REPAIR SOLUTIONS

DIFFER TO BE BETTER

MH HYDRAULICS HYDRAULIC REPAIR SOLUTIONS

For more than 40 years, MH Hydraulics has been at the forefront of hydraulic repair solutions. With our vast knowledge of hydraulic spare parts for Pumps and Motors, we hope that this booklet can be your guide in identifying Hydraulic spare parts.

New: MH-Online webstore

Selecting spare parts has never been easier with our new MH-Online webstore www.mh.nl. Availability of our spare parts are visible in REAL-TIME.

Access to more than 40,000 exploded views

Our partners will have access to over 40,000 exploded views. You can request our sales department for a log-in code.

Shipping in 24 hours

If you see a GREEN icon next to the part, we can ship it within 24 hours from our main warehouse in the Netherlands. If the icon shows ORANGE, please inquire. This item may be in Quality control or has longer lead time.

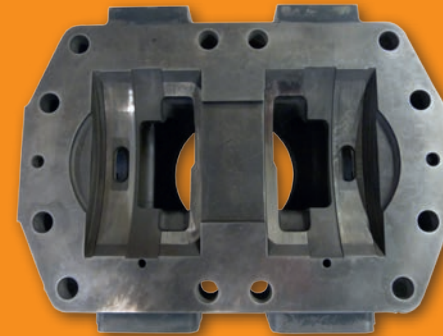
Questions?

Please contact us, we are happy to help you.

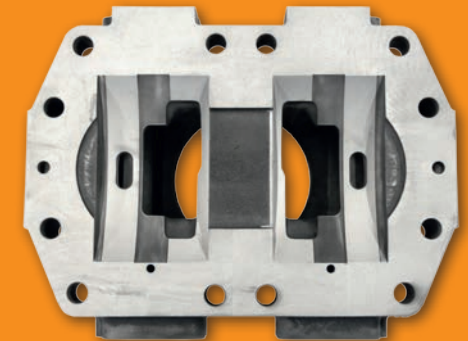


MH HYDRAULICS, ALSO FOR MANUFACTURING AND REMANUFACTURING OF SPARE PARTS

MH hydraulics manufactures and remanufactures spare parts for hydraulic pumps and motors. Old damaged end covers for A6V(M), A7V(O) and A8V(O) can be reworked and hardened, back to specs.



Old end cover A8V



MH re-conditioned end cover A8V
grinded and surface hardened

MH HYDRAULICS QUALITY REPAIR FACILITIES

Moreover, MH can assist in setting up quality repair facilities all over the world. We supply MH-Q-Seal machining centers and Hydraulic test benches from 35 to 140 kw. Our dedicated specialists offer world-class hydraulic repair solutions.



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SPARE PARTS FOR BOSCH REXROTH

(Hydromatik build)

SERIES F1V-F3V-A2V-A2F- A3V-A6V-A7V-A8V



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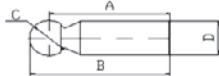
Bosch Rexroth (Hydromatik build) series F1V-F3V-A2V-A2F-A3V-A6V-A7V-A8V

Center pin - Bosch Rexroth (Hydromatik)

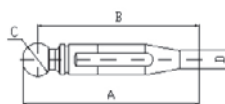
Parts used for models: F1V, F3V, A2V, A2F, A3V, A6V, A7V, A8V

Type	Size	Partnumber	A	B	C	D
12	HY 12	MH - 30158	46,50	40,00	13,00	12,00
28	HY 16	MH - 40215	98,00	90,00	17,50	9,50
55	HY 20	MH - 40083	122,00	112,00	22,00	12,00
80	HY 22,8	MH - 40127	139,00	128,00	25,00	14,00
107	HY 25	MH - 40105	153,00	140,00	27,00	15,00
160	HY 28,7	MH - 40149	175,00	160,00	31,50	17,00
225	HY 32	MH - 31067	197,00	180,00	35,00	22,00
468	HY 40	MH - 30935	271,00	250,00	44,00	24,00
915	HY 50	MH - 34992	317,00	292,00	55,00	30,00

12 only



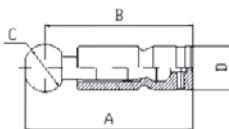
28-915



Piston - Bosch Rexroth (Hydromatik)

Parts used for models: F1V, F3V, A2V, A2F, A3V, A6V, A7V, A8V

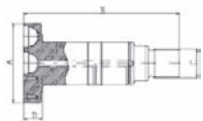
Type	Size	Partnumber	A	B	C	D
12	HY 12	MH - 40304	51,00	45,00	13,00	12,00
28	HY 16	MH - 40348	69,00	51,00	17,50	16,00
55	HY 20	MH - 40414	85,00	75,00	22,00	20,00
80	HY 22,8	MH - 40326	98,00	87,00	25,00	22,80
107	HY 25	MH - 40392	108,00	95,00	27,00	25,00
160	HY 28,7	MH - 40369	123,00	109,00	31,50	28,70
225	HY 32	MH - 32423	138,00	122,00	35,00	32,00
468	HY 40	MH - 31024	172,00	152,00	44,00	40,00
915	HY 50	MH - 31001	226,00	200,00	55,00	50,00



Shaft - Bosch Rexroth (Hydromatik)

Parts used for models: A2F, A2V, A6V, A7V

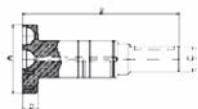
Type	Size	Partnumber	A	B	C	D
12 (12)	splined	MH - 157201	53,00	119,00	20,00	13,00
28 (16)	splined	MH - 158163	70,00	147,00	25,00	17,00
55 (20)	splined	MH - 128182	87,00	158,00	30,00	21,00
80 (22,8)	splined	MH - 77523	100,00	190,00	35,00	24,00
107 (25)	splined	MH - 30092	110,00	195,00	40,00	25,00
160 (28,7)	splined	MH - 128146	126,00	222,00	45,00	30,00
225 (32)	splined	MH - 123450	140,00	242,00	60,00	33,00
468 (40)	splined	MH - 37464	190,00	361,00	70,00	53,00



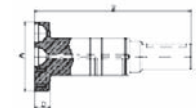
Shaft - Bosch Rexroth (Hydromatik)

Parts used for models: A2F, A2V, A6V, A7V

Type	Size	Partnumber	A	B	C	D
28 (16)	key	MH - 157202	70,00	153,00	25,00	19,00
55 (20)	key	MH - 128183	87,00	183,00	30,00	21,00
80 (22,8)	key	MH - 128172	100,00	220,00	35,00	24,00
107 (25)	key	MH - 128164	110,00	230,00	40,00	25,00



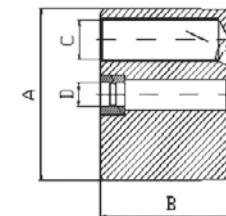
Type	Size	Partnumber	A	B	C	D
160 (28,7)	key	MH - 128147	126,00	262,00	45,00	30,00
225 (32)	key	MH - 123495	140,00	287,00	50,00	33,00
468 (40)	key	MH - 54428	190,00	391,00	70,00	53,00



Barrel - Bosch Rexroth (Hydromatik)

Parts used for models: F1V, F3V, A2V, A2F, A3V, A6V, A7V, A8V

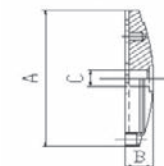
Type	Size	Partnumber	A	B	C	D
12	HY 12	MH - 30135	51,00	40,00	12,00	12,00
28	HY 16	MH - 40239	68,00	58,00	16,00	16,00
55	HY 20	MH - 30336	88,00	74,00	20,00	20,00
80	HY 22,8	MH - 30358	98,00	84,00	22,80	22,80
107	HY 25	MH - 30380	110,00	92,00	25,00	25,00
160	HY 28,7	MH - 30402	123,00	107,00	28,70	28,70
225	HY 32	MH - 31045	136,00	119,00	32,00	32,00
468	HY 40	MH - 30958	180,00	151,00	40,00	40,00
915	HY 50	MH - 30979	225,00	199,00	50,00	50,00



Port plate (round model) - Bosch Rexroth (Hydromatik)

Parts used for models: F1V, F3V, A2V, A2F, A3V

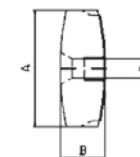
Type	Size	Partnumber	A	B	C
12	HY 12	MH - 32357	56,00	13,00	8,00
28	HY 16	MH - 30025	71,00	16,50	9,50
55	HY 20	MH - 32314	90,00	21,50	12,00
80	HY 22,8	MH - 34001	105,00	24,50	14,00
107	HY 25	MH - 30226	112,00	27,00	15,00
160	HY 28,7	MH - 30847	130,00	30,50	17,00
225	HY 32	MH - 52828	140,00	31,50	22,00
468	HY 40	MH - 32291	190,00	46,30	24,00
915	HY 50	MH - 33954	236,00	51,00	30,00



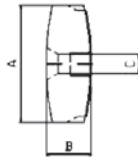
Port plate (square model) - Bosch Rexroth (Hydromatik)

Parts used for models: A6V, A7V, A8V

Type	Size	Partnumber	A	B	C
28 RH	HY 16	MH - 40260	56,00	16,50	9,50
28 LH	HY 16	MH - 40282	56,00	16,50	9,50
28 Motor	HY 16	MH - 32534	56,00	16,50	9,50
55 RH	HY 20	MH - 30003	66,00	21,30	12,00
55 LH	HY 20	MH - 40436	66,00	21,30	12,00
55 Motor	HY 20	MH - 32513	66,00	21,30	12,00
80 RH	HY 22,8	MH - 30670	78,00	24,60	14,00
80 LH	HY 22,8	MH - 30202	78,00	24,60	14,00
80 Motor	HY 22,8	MH - 34927	78,00	24,60	14,00
107 RH	HY 25	MH - 30048	85,00	27,00	15,00
107 LH	HY 25	MH - 30070	85,00	27,00	15,00
107 Motor	HY 25	MH - 40193	85,00	27,00	15,00



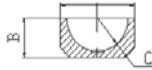
Type	Size	Partnumber	A	B	C
160 RH	HY 28,7	MH - 30821	95,00	30,30	17,00
160 LH	HY 28,7	MH - 72785	95,00	30,30	17,00
160 Motor	HY 28,7	MH - 30619	95,00	30,30	17,00
225 motor	HY 32	MH - 158620	97,90	31,10	22,15



Cup - Bosch Rexroth (Hydromatik)

Parts used for models: F1V, A2V, A2F, A6V, A7V

Type	Size	Partnumber	A	B	C
468	40	MH - 34371	48,00	29,00	22,00
915	50	MH - 34393	62,00	37,00	27,50



Pistonring - Bosch Rexroth (Hydromatik)

Parts used for models: A2V, A2F, A6V, A7V

Type	Size	Partnumber	A	B	C
468	40	MH - 31685	48,00	8,60	22,00
915	50	MH - 34366	62,00	10,50	27,50



BOSCH REXROTH

(Hydromatik build)

A2VK

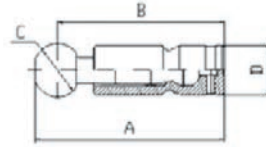
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Bosch Rexroth (Hydromatik build) A2VK

Piston - Bosch Rexroth (hydromatik)

Parts used for model: A2VK

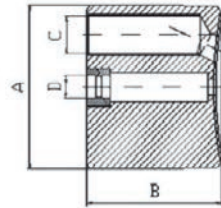
Type	Size	Partnumber	A	B	C	D
12	HY 12	MH - 40304	51,00	45,00	13,00	12,00
28	HY 16	MH - 40348	69,00	51,00	17,50	16,00
55	HY 20	MH - 40414	85,00	75,00	22,00	20,00
107	HY 25	MH - 40392	108,00	95,00	27,00	25,00



Barrel - Bosch Rexroth (hydromatik)

Parts used for model: A2VK

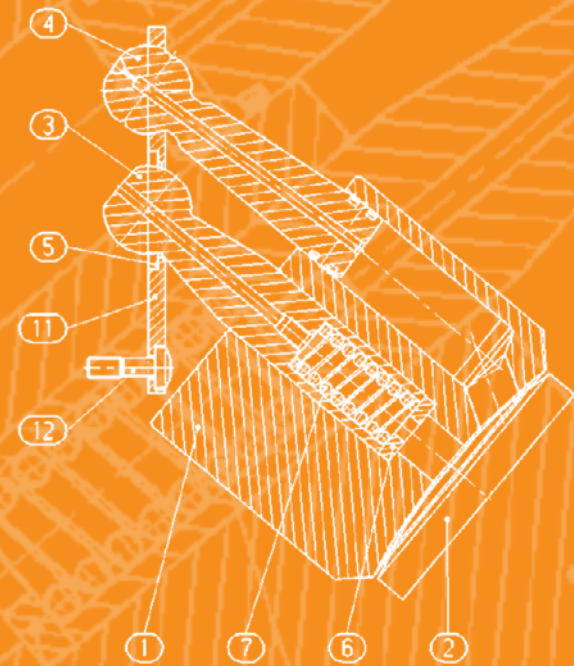
Type	Size	Partnumber	A	B	C	D
12	HY 12	73668	51,00	40,00	12,00	12,00
28	HY 16	73669	68,00	58,00	16,00	16,00
55	HY 20	71207	88,00	74,00	20,00	20,00
107	HY 20	90476	110,00	92,00	25,00	25,00



BOSCH REXROTH

(Hydromatik build)

SERIES (A)A2FM, (A)A2FO, (A)A2FE



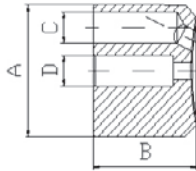
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Bosch Rexroth (Hydromatik build) series (A)A2FM, (A)A2FO, (A)A2FE

Barrel - Bosch Rexroth (Hydromatik)

Parts used for models: A2FM, A2FO, A2FE

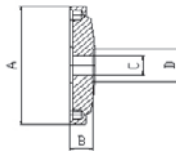
Series	Size	Partnumber	A	B	C	D
6,1	10	MH - 31552	49,00	42,00	9,00	11,20
6,1	12	MH - 35203	49,00	42,00	9,70	11,20
6,1	16	MH - 31559	49,00	42,00	11,20	11,20
6,1	23	MH - 35211	61,00	52,00	12,00	14,20
6,1	28	MH - 31561	61,00	52,00	13,30	14,20
6,1	32	MH - 31563	61,00	52,00	14,20	14,20
6,1	45	MH - 34596	66,00	56,60	16,00	16,00
6,1	56	MH - 30758	76,00	64,00	16,80	17,80
6,1	63	MH - 33778	76,00	64,00	17,80	17,80
6,1	80	MH - 30780	86,00	72,00	18,90	20,00
6,1	90	MH - 78803	86,00	72,00	20,00	20,00
6,1	107	MH - 30802	96,00	80,00	20,60	22,30
6,1	125	MH - 115653	96,00	80,00	22,30	22,30
6,1	160	MH - 115283	110,00	91,00	23,60	25,00
6,1	180	MH - 115654	110,00	91,00	25,00	25,00



Port plate - Bosch Rexroth (Hydromatik)

Parts used for models: A2FM, A2FO, A2FE

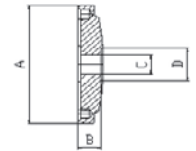
Series	Size	Partnumber	A	B	C	D
6,1	10 LH	MH - 40213	39,80	7,10	6,50	13,20
6,1	10 RH	MH - 54389	39,80	7,10	6,50	13,20
6,1	10 M	MH - 108270	39,80	7,10	6,50	13,20
6,1	12 LH	MH - 117689	39,80	7,10	6,50	11,90
6,1	12 RH	MH - 117700	39,80	7,10	6,50	11,90
6,1	12 M	MH - 114934	39,80	7,10	6,50	11,90
6,1	16 LH	MH - 117690	39,80	7,10	6,50	9,10
6,1	16 RH	MH - 117701	39,80	7,10	6,50	9,10
6,1	16 M	MH - 117694	39,80	7,10	6,50	9,10
6,1	23 LH	MH - 117691	50,50	9,10	8,50	16,50
6,1	23 RH	MH - 117702	50,50	9,10	8,50	16,50
6,1	23 M	MH - 117696	50,50	9,10	8,50	16,50
6,1	28 LH	MH - 117692	50,50	9,10	8,50	13,60
6,1	28 RH	MH - 117703	50,50	9,10	8,50	13,60
6,1	28 M	MH - 117697	50,50	9,10	8,50	13,60
6,1	32 LH	MH - 117693	50,50	9,10	8,50	11,80
6,1	32 RH	MH - 117704	50,50	9,10	8,50	11,80
6,1	32 M	MH - 117698	50,50	9,10	8,50	11,80
6,1	45 BL	MH - 39360	56,50	10,10	9,50	13,10
6,1	45 RH	MH - 76587	56,50	10,10	9,50	13,10
6,1	45 M	MH - 76584	56,50	10,10	9,50	13,10
6,1	56 BL	MH - 39371	63,00	11,50	10,10	17,30



Barrel - Bosch Rexroth (Hydromatik)

Parts used for models: A2FM, A2FO, A2FE

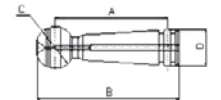
Series	Size	Partnumber	A	B	C	D
6,1	56 RH	MH - 76590	63,00	11,50	10,10	17,30
6,1	56 M	MH - 76589	63,00	11,50	10,10	17,30
6,1	63 BL	MH - 33932	63,00	11,50	10,10	13,20
6,1	63 RH	MH - 76594	63,00	11,50	10,10	13,20
6,1	63 LH	MH - 76594	63,00	11,50	10,10	13,20
6,1	63 M	MH - 76592	63,00	11,50	10,10	13,20
6,1	80 BL	MH - 39383	71,00	12,40	12,00	19,50
6,1	80 RH	MH - 76598	71,00	12,40	12,00	19,50
6,1	80 M	MH - 76596	71,00	12,40	12,00	19,50
6,1	90 RH	MH - 157929	71,00	12,40	12,00	15,00
6,1	90 M	MH - 157928	71,00	12,40	12,00	15,00
6,1	107 BL	MH - 39396	79,00	14,50	14,10	23,00
6,1	107 M	MH - 76600	79,00	14,50	14,10	23,00
6,1	125 BL	MH - 34685	79,00	14,50	14,10	16,80
6,1	125 M	MH - 76603	79,00	14,50	14,10	16,80
6,1	160 BL	MH - 34708	89,00	15,70	15,00	24,50
6,1	160 RH	MH - 76606	89,00	15,70	15,00	24,50
6,1	160 M	MH - 76605	89,00	15,70	15,00	24,50
6,1	180 BL	MH - 39408	89,00	15,70	15,00	20,50
6,1	180 LH	MH - 115924	89,00	15,70	15,00	20,50
6,1	180 M	MH - 76607	89,00	15,70	15,00	20,50
6,1	250 RH	MH - 156103	118,00	15,70	16,00	23,00
6,1	250 LH	MH - 156101	118,00	15,70	16,00	23,00



Piston - Bosch Rexroth (Hydromatik)

Parts used for models: A2FM, A2FO, A2FE

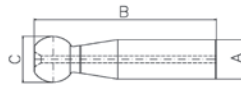
Series	Size	Partnumber	A	B	C	D
6,1	10	MH - 115288	36,50	46,20	13,00	9,00
6,1	12	MH - 115289	36,50	46,20	13,00	9,70
6,1	16	MH - 115290	36,50	46,20	13,00	11,20
6,1	23	MH - 115291	45,50	57,50	16,00	12,00
6,1	28	MH - 115292	45,50	57,50	16,00	13,30
6,1	32	MH - 115293	45,50	57,50	16,00	14,20
6,1	45	MH - 115294	51,50	64,60	18,00	16,00
6,1	56	MH - 115295	56,90	72,10	20,00	16,80
6,1	63	MH - 115296	56,90	71,10	20,00	17,80
6,1	80	MH - 115297	64,50	81,50	23,00	18,90
6,1	90	MH - 115298	64,50	81,50	23,00	20,00
6,1	107	MH - 115299	72,00	91,00	26,00	20,60
6,1	125	MH - 115300	72,00	91,00	26,00	22,80
6,1	160	MH - 115301	82,50	103,60	29,00	23,60
6,1	180	MH - 115302	82,50	103,60	29,00	25,00



Center pin for washer - Bosch Rexroth (Hydromatik)

Parts used for models: A2FM, A2FO, A2FE

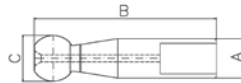
Series	Size	Partnumber	A	B	C
6,1	10, 12, 16	MH - 158170	11,20	54,00	13,00
6,1	23, 28, 32	MH - 31383	14,20	66,50	16,00
6,1	45	MH - 31394	16,00	74,10	18,00
6,1	56, 63	MH - 156105	17,80	83,30	20,00
6,1	80, 90	MH - 158621	20,00	91,30	23,00
6,1	107, 125	MH - 31386	22,30	103,00	26,00
6,1	160, 180	MH - 161519	25,00	116,40	29,00



Center pin for spring - Bosch Rexroth (Hydromatik)

Parts used for models: A2FM, A2FO, A2FE

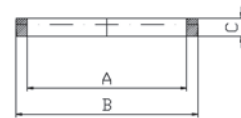
Series	Size	Partnumber	A	B	C
6,1	10, 12, 16	MH - 156767	11,20	57,00	13,00
6,1	23, 28, 32	MH - 156768	14,20	77,55	16,00
6,1	45	MH - 96105	16,00	76,50	18,00
6,1	56, 63	MH - 156770	17,80	86,85	20,00
6,1	80, 90	MH - 156769	20,00	97,10	23,00
6,1	107, 125	MH - 156745	22,30	109,05	26,00
6,1	160, 180	MH - 156746	25,00	122,75	29,00



Pistonring - Bosch Rexroth (Hydromatik)

Parts used for models: A2FM, A2FO, A2FE

Series	Size	Partnumber	A	B	C
6,1	23	MH - 140672	10,80	12,00	1,80
6,1	28	MH - 140673	12,00	13,30	1,80
6,1	32	MH - 140667	12,80	14,20	1,80
6,1	45	MH - 140668	14,40	16,00	2,50
6,1	56	MH - 140669	15,00	16,80	2,30
6,1	63	MH - 140674	16,00	17,80	2,30
6,1	80	MH - 140670	16,90	18,90	2,50
6,1	90	MH - 139918	18,00	20,00	2,50
6,1	107	MH - 140676	18,40	20,60	2,80
6,1	125	MH - 140671	20,10	22,30	2,80
6,1	160	MH - 140920	21,10	23,60	3,20
6,1	180	MH - 139921	22,50	25,00	3,20

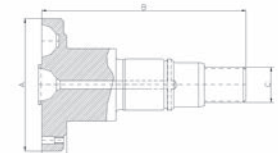


Shaft splined - Bosch Rexroth (Hydromatik)

Parts used for models: A2FM, A2FO, A2FE

Series	Size	Partnumber	A	B	C	SPLINE
6,1'Z'	10, 12, 16	MH - 157203	56,00	119,00	20,00	14,00
6,1'A'	10, 12, 16	MH - 163728	56,00	113,00	25,00	18,00
6,1'Z'	23, 28, 32	MH - 156761	69,00	129,00	25,00	18,00
6,1'A'	23, 28, 32	MH - 156765	69,00	122,00	30,00	14,00
6,1'Z'	45	MH - 157205	80,00	127,00	30,00	14,00

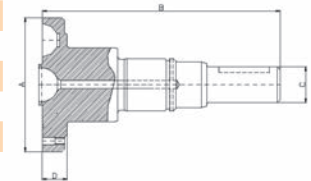
Series	Size	Partnumber	A	B	C	SPLINE
6,1'A'	45	MH - 96558	80,00	129,00	32,00	14,00
6,1'Z'	56, 63	MH - 156755	86,00	135,00	30,00	14,00
6,1'A'	56, 63	MH - 156754	86,00	140,00	35,00	16,00
6,1'Z'	80, 90	MH - 156759	98,00	151,00	35,00	16,00
6,1'A'	80, 90	MH - 156753	98,00	155,00	40,00	18,00
6,1'Z'	107, 125	MH - 157209	108,00	168,00	40,00	18,00
6,1'A'	107, 125	MH - 156752	108,00	173,00	45,00	21,00
6,1'Z'	160, 180	MH - 96156	125,00	183,00	45,00	21,00
6,1'A'	160, 180	MH - 161867	125,00	188,00	50,00	24,00



Shaft keyed - Bosch Rexroth (Hydromatik)

Parts used for models: A2FM, A2FO, A2FE

Series	Size	Partnumber	A	B	C	D
6,1'P'	10, 12, 16	MH - 156759	55,00	125,00	20,00	9,50
6,1'B'	10, 12, 16	MH - 157204	55,00	125,00	25,00	9,50
6,1'P'	23, 28, 32	MH - 156762	69,00	136,00	25,00	12,00
6,1'B'	23, 28, 32	MH - 156764	69,00	136,00	30,00	12,00
6,1'P'	45	MH - 157206	80,00	152,00	30,00	13,00
6,1'P'	56, 63	MH - 96138	86,00	160,00	30,00	15,00
6,1'B'	56, 63	MH - 163711	86,00	160,00	35,00	15,00
6,1'P'	80, 90	MH - 157207	98,00	181,00	35,00	16,50
6,1'B'	80, 90	MH - 157208	98,00	181,00	40,00	16,50
6,1'P'	107, 125	MH - 96141	108,00	203,00	40,00	19,00
6,1'B'	107, 125	MH - 96142	108,00	203,00	45,00	19,00
6,1'P'	160, 180	MH - 96143	125,00	224,00	45,00	21,00
6,1'B'	160, 180	MH - 76372	125,00	224,00	50,00	21,00



BOSCH REXROTH

(Hydromatik build)

**SERIES (A)A6VM,
** 6VE, ** 7VO, ** 7FO, ** 8VO**



HYDRAULICS

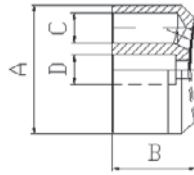
HYDRAULIC REPAIR SOLUTIONS

Bosch Rexroth (Hydromatik build) series (A)A6VM, **6VE, **7VO, **7FO, **8VO

Barrel - Bosch Rexroth (Hydromatik)

Parts used for models: A6VM, A6VE, A7VO, A7FO, A8VO

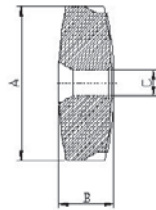
Series	Size	Partnumber	A	B	C	D
6,0	28	MH - 115651	68,00	43,00	16,00	16,00
6,0	55	MH - 30736	86,00	54,00	20,00	20,00
6,0	80	MH - 30714	98,00	62,00	22,80	22,80
6,0	107	MH - 38006	110,00	68,00	25,00	25,00
6,0	160	MH - 30892	123,00	79,00	28,70	28,70
6,0	200	MH - 115652	133,00	85,00	30,80	30,80
6,0	250	MH - 39493	142,00	107,00	32,00	32,00



Port plate - Bosch Rexroth (Hydromatik)

Parts used for models: A6VM, A6VE, A7VO, A7FO, A8VO

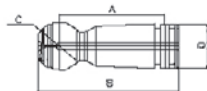
Series	Size	Partnumber	A	B	C
6,0	28 Motor	MH - 82688	57,60	16,00	11,30
6,0	28 LH	MH - 82689	57,60	16,00	11,30
6,0	28 RH	MH - 82690	57,60	16,00	11,30
6,0	55 Motor	MH - 81271	70,00	20,00	14,20
6,0	55 LH	MH - 82691	70,00	20,00	14,20
6,0	55 RH	MH - 82692	70,00	20,00	14,20
6,0	80 Motor	MH - 82693	81,00	23,00	16,10
6,0	80 LH	MH - 82694	81,00	23,00	16,10
6,0	80 RH	MH - 81272	81,00	23,00	16,10
6,0	107 Motor	MH - 82695	88,00	25,00	18,10
6,0	107 LH	MH - 82696	88,00	25,00	18,10
6,0	107 RH	MH - 82697	88,00	25,00	18,10
6,0	160 Motor	MH - 82698	97,00	29,00	20,20
6,0	160 LH	MH - 81273	97,00	29,00	20,20
6,0	160 RH	MH - 82699	97,00	29,00	20,20
6,3	200 RH	MH - 161858	92,90	28,50	20,00
6,3	200 LH	MH - 161859	92,90	28,50	20,00



Piston - Bosch Rexroth (Hydromatik)

Parts used for models: A6VM, A6VE, A7VO, A7FO, A8VO

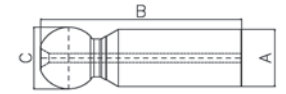
Series	Size	Partnumber	A	B	C	D
6,0	28	MH - 115060	38,50	51,50	17,50	16,00
6,0	55	MH - 115061	47,90	64,40	22,00	20,00
6,0	80	MH - 81590	54,10	72,50	25,00	22,80
6,0	107	MH - 81591	59,80	80,40	27,00	25,00
6,0	160	MH - 115062	70,50	94,30	31,50	28,70
6,0	200	MH - 55360	75,00	101,80	33,00	30,80
6,0	250	MH - 34205	81,00	103,40	34,00	32,00
6,0	355	MH - 158171	92,00	117,10	39,00	36,00
6,0	500	MH - 157751	102,00	128,90	44,00	40,00



Center pin - Bosch Rexroth (Hydromatik)

Parts used for models: A6VM, A6VE, A7VO, A7FO, A8VO

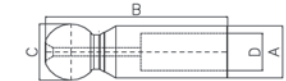
Series	Size	Partnumber	A	B	C
6.0	28	MH - 158175	16,00	57,00	17,50
6.0	55	MH - 156182	20,00	69,00	22,00
6.0	80	MH - 158622	22,80	80,50	25,00
6.0	107	MH - 158625	25,00	87,80	27,00
6.0	160	MH - 158626	28,70	101,50	31,50
6.0	200	MH - 154109	30,70	108,30	33,00
6.0	250	MH - 34838	32,00	121,00	34,00



Center pin - Bosch Rexroth (Hydromatik)

Parts used for models: A6VM, A6VE, A7VO, A7FO, A8VO

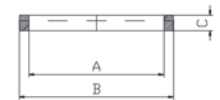
Series	Size	Partnumber	A	B	C	D
6.3	28	MH - 99188	16,00	59,30	17,50	10,80
6.3	55	MH - 80797	20,00	75,00	22,00	14,60
6.3	80	MH - 81302	22,80	86,00	25,00	17,00
6.3	107	MH - 54459	25,00	93,80	27,00	18,10
6.3	160	MH - 71670	28,70	107,20	31,50	19,60
6.3	250	MH - 31905	32,00	120,90	34,00	23,70
6,3	500	MH - 158156	40,00	150,00	44,00	28,70



Pistonring - Bosch Rexroth (Hydromatik)

Parts used for models: A6VM, A6VE, A7VO, A7FO, A8VO

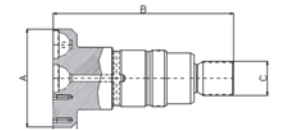
Series	Size	Partnumber	A	B	C
6,0	28	MH - 140668	14,40	16,00	2,00
6,0	55	MH - 139918	18,00	20,00	2,50
6,0	80	MH - 139920	20,60	22,80	2,80
6,0	107	MH - 139921	22,50	25,00	3,20
6,0	160	MH - 139922	25,80	28,70	3,60
6,0	250	MH - 140677	29,00	32,00	3,20



Shaft - Bosch Rexroth (Hydromatik)

Parts used on models: A7VO & A6VM series 60

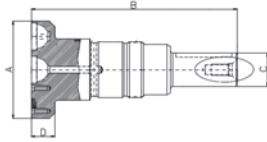
Size	Type	Partnumber	A	B	C	SPLINE
28 6.0'Z'	splined	MH - 162142				
55 6.0'Z'	splined	MH - 128983	87,00	159,50	30,00	14,00
55 6.0'A'	splined	MH - 128984	87,00	164,50	35,00	16,00
80 6.0'Z'	splined	MH - 128985	100,00	176,00	35,00	16,00
80 6.0'A'	splined	MH - 128986	100,00	181,00	40,00	18,00
107 6.0'Z'	splined	MH - 128988	110,00	192,00	40,00	18,00
107 6.0'A'	splined	MH - 128989	110,00	197,00	45,00	21,00
160 6.0'Z'	splined	MH - 128991	126,00	213,00	45,00	21,00
160 6.0'A'	splined	MH - 128893	126,00	218,00	50,00	24,00
200 6.0'Z'	splined	MH - 33311	136,00	276,00	50,00	24,00
200 6.0'A'	splined	MH - 30450	136,00	220,00	50,00	24,00
250 6.0'Z'	splined	MH - 117711	157,00	210,00	50,00	30,00



Shaft - Bosch Rexroth (Hydromatik)

Parts used on models: A7VO series 60

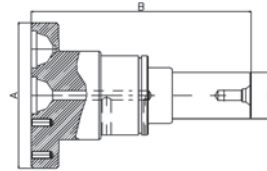
Size	Type	Partnumber	A	B	C	D
55 6.0'P'	key	MH - 30390	87,00	184,50	30,00	21,00
80 6.0'P'	key	MH - 39693	100,00	206,00	35,00	24,00
107 6.0'P'	key	MH - 128987	110,00	227,00	40,00	25,00
160 6.0'P'	key	MH - 128990	126,00	253,00	45,00	30,00
200 6.0'P'	key	MH - 30444	136,00	268,00	50,00	32,00
250 6.0'P'	key	MH - 97082	157,00	234,00	50,00	29,90



Shaft - Bosch Rexroth (Hydromatik)

Parts used for: A7VO series 63

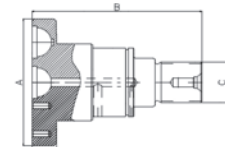
Size	Type	Partnumber	A	B	C
55 6.3'P'	key	MH - 85938	87,00	172,00	30,00
80 6.3'P'	key	MH - 99044	100,00	191,00	35,00
107 6.3'P'	key	MH - 80148	110,00	211,00	40,00
160 6.3'P'	key	MH - 85939	126,00	237,00	45,00



Shaft - Hydromatik

Parts used for: A7VO & A6VM series 63

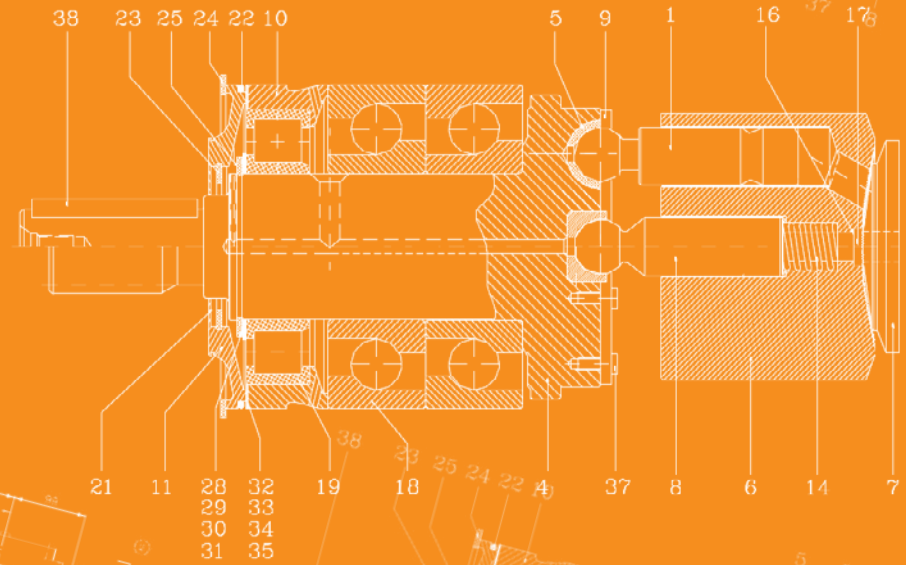
Size	Type	Partnumber	A	B	C	SPLINE
55 6.3'Z'	splined	MH - 157195	87,00	147,00	30,00	14,00
55 6.3'A'	splined	MH - 85956	87,00	152,00	35,00	16,00
80 6.3'Z'	splined	MH - 156760	100,00	161,00	35,00	16,00
80 6.3'A'	splined	MH - 157198	100,00	166,00	40,00	18,00
107 6.3'Z'	splined	MH - 157199	100,00	176,00	40,00	18,00
107 6.3'A'	splined	MH - 157200	110,00	181,00	45,00	21,00
160 6.3'Z'	splined	MH - 156756	126,00	197,00	45,00	21,00
160 6.3'A'	splined	MH - 68326	126,00	203,00	50,00	24,00



SPARE PARTS FOR BOSCH REXROTH

(Brueninghaus build)

SERIES A2V, A2P, A6V, A7V



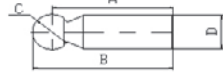
MH
HYDRAULICS
HYDRAULIC REPAIR SOLUTIONS

Bosch Rexroth (Brueninghaus build) series A2V, A2P, A6V, A7V

Center pin - Bosch Rexroth (Brueninghaus)

Parts used for models: A2V, A2P, A6V, A7V

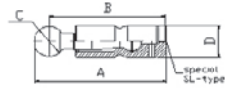
Size	Type	Partnumber	A	B	C	D
BR 32	250	MH - 31336	114,00	130,00	34,00	32,00
BR 36	355	MH - 31311	119,00	136,00	39,00	36,00
BR 40	500	MH - 31289	131,00	151,00	44,00	40,00
BR 50	1000	MH - 31268	170,00	196,00	55,00	50,00



Piston - Bosch Rexroth (Brueninghaus)

Parts used for models: A2V, A2P, A6V, A7V

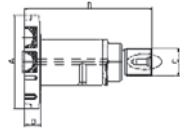
Size	Type	Partnumber	A	B	C	D
BR 32	250	MH - 30247	129,00	112,00	34,00	32,00
BR 36	355	MH - 31113	147,00	128,00	39,00	36,00
BR 40	500	MH - 30913	160,00	139,00	44,00	40,00
BR 40	500 SL	MH - 35079	160,00	139,00	44,00	40,00
BR 50	1000	MH - 31179	199,00	173,00	55,00	50,00
BR 50	1000 SL	MH - 31245	199,00	173,00	55,00	50,00



Shaft - Bosch Rexroth (Brueninghaus)

Parts used for models: A2V, A6V, A7V

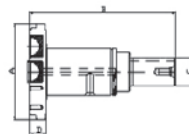
Size	Type	Partnumber	A	B	C	D
250	splined	MH - 107949	172,00	242,00	50,00	30,00
355	splined	MH - 52939	189,00	292,00	60,00	34,00
500	splined	MH - 115583	210,00	307,00	70,00	36,00
1000	splined	MH - 162280	270,00	385,00	89,00	46,50



Shaft - Bosch Rexroth (Brueninghaus)

Parts used for models: A2V, A6V, A7V

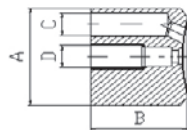
Size	Type	Partnumber	A	B	C	D
250	key	MH - 119152	172,00	266,00	50,00	30,00
355	key	MH - 114581	189,00	320,00	60,00	34,00
500	key	MH - 115582	210,00	330,00	70,00	36,00
1000	key	MH - 114707	270,00	410,00	90,00	47,00



Barrel - Bosch Rexroth (Brueninghaus)

Parts used for models: A2V, A2P, A6V, A7V

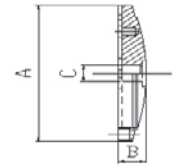
Size	Type	Partnumber	A	B	C	D
BR 32	250	MH - 30269	142,00	118,00	32,00	32,00
BR 36	355	MH - 31157	160,00	134,00	36,00	36,00
BR 40	500	MH - 31089	180,00	147,00	40,00	40,00
BR 50	1000	MH - 31201	230,00	184,00	50,00	50,00



Port plate (round model) - Bosch Rexroth (Brueninghaus)

Parts used for models: A2V, A2P, A2F

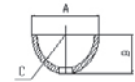
Size	Type	Partnumber	A	B	C
BR 32	250	MH - 36383	118,00	15,70	16,00
BR 36	355	MH - 35298	132,00	17,70	16,00
BR 40	500	MH - 33910	148,00	19,60	20,00
BR 50	1000	MH - 35277	185,00	24,50	25,00



Piston cup - Bosch Rexroth (Brueninghaus) model 2

Parts used for models: A2V, A2F, A2P, A6V, A7V

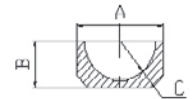
Size	Partnumber	A	B	C
250	MH - 30568	38,00	17,50	17,00
250	MH - 34837	39,00	18,00	17,00
355	MH - 35610	44,00	21,00	19,50
500	MH - 40697	50,00	22,00	22,00
1000	MH - 30566	61,00	29,00	27,50



Piston cup - Bosch Rexroth (Brueninghaus) model 1

Parts used for models: A2V, A2F, A2P, A6V, A7V

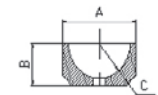
Size	Partnumber	A	B	C
355	MH - 38591	44,00	24,00	19,50
500	MH - 38270	48,00	25,00	22,00



Cup - Center pin - Bosch Rexroth (Brueninghaus)

Parts used for models: A2V, A2F, A2P, A6V, A7V

Size	Partnumber	A	B	C
250	MH - 39089	44,00	23,00	17,00
355	MH - 35633	48,00	30,00	19,50
500	MH - 34310	54,00	31,00	22,00
1000	MH - 39517	68,00	41,00	27,50



SPARE PARTS BOSCH REXROTH

SPECIAL ITEMS BRUENINGHAUS & UCHIDA BUILD



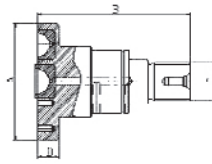
BMH
HYDRAULICS
HYDRAULIC REPAIR SOLUTIONS

Bosch Rexroth (special items Brueninghaus and Uchida build)

Shaft - Bosch Rexroth (Brueninghaus)

Parts used for models:

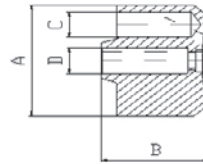
Size	Type	Partnumber	A	B	C	D
250 (6.1)	splined	MH - 117711	157,00	210,00	50,00	30,00



Barrel - Uchida

Parts used for models:

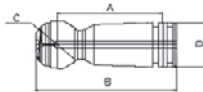
Series	Size	Partnumber	A	B	C	D
Uchida	55	MH - 53318	86,00	63,50	20,00	20,00
Uchida	59	MH - 53318	86,00	63,50	20,00	20,00
Uchida	80	MH - 39530	98,00	72,50	22,80	22,80
Uchida	86	MH - 39530	98,00	72,50	22,80	22,80
Uchida	107 ESBR	MH - 39500	110,00	80,50	25,00	25,00
Uchida	107 ERBR	MH - 39500	110,00	80,50	25,00	25,00
Uchida	115	MH - 39500	110,00	80,50	25,00	25,00
Uchida	172	MH - 39502	123,00	92,00	28,70	28,70
Uchida	250	MH - 39494	142,00	107,00	32,00	32,00



Piston - Uchida

Parts used for models:

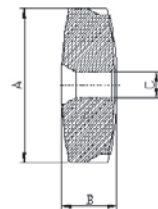
Series	Size	Partnumber	A	B	C	D
2 rings	55	MH - 140629	47,00	64,00	22,00	20,00
1 ring	59	MH - 140631	47,00	64,00	22,00	20,00
1 ring	80	MH - 140632	54,00	73,00	25,00	22,80
1 ring	86	MH - 140633	54,00	73,00	25,00	22,80
1 ring	107ESBR	MH - 140634	60,00	80,00	27,00	25,00
1 ring	107ERBR	MH - 140635	60,00	80,00	27,00	25,00
1 ring	115	MH - 140636	62,00	82,00	27,00	25,00
1 ring	172	MH - 140637	70,00	93,00	27,00	28,70



Port plate - Uchida

Parts used for models:

Series	Size	Partnumber	A	B	C
Model 1	55 LH	MH - 140612	70,00	20,00	12,00
Model 1	55 RH	MH - 140613	70,00	20,00	12,00
Model 1	59 LH	MH - 140612	70,00	20,00	12,00
Model 1	59 RH	MH - 140613	70,00	20,00	12,00
Model 1	80 LH	MH - 140617	81,00	22,00	16,00
Model 1	80 RH	MH - 140618	81,00	22,00	16,00
Model 2	86 LH	MH - 140619	81,00	23,00	14,00
Model 2	86 RH	MH - 140620	81,00	23,00	14,00
Model 1	107 ESBR LH	MH - 140621	87,00	25,00	15,00



Series	Size	Partnumber	A	B	C
Model 1	107 ESBR RH	MH - 140622	87,00	25,00	15,00
Model 2	107 ERBR LH	MH - 140625	89,00	25,00	15,00
Model 2	107 ERBR RH	MH - 140626	89,00	25,00	15,00
Model 2	115 LH	MH - 140625	89,00	25,00	15,00
Model 2	115 RH	MH - 140626	89,00	25,00	15,00
Model 1	172 LH	MH - 140627	98,00	29,00	17,00
Model 1	172 RH	MH - 140628	98,00	29,00	17,00



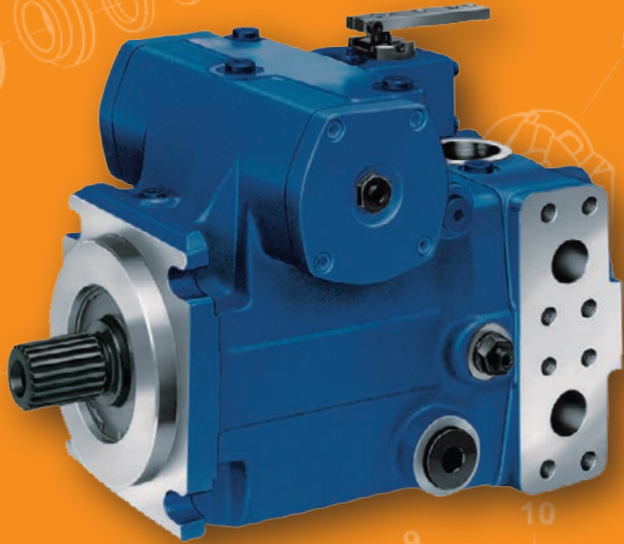
Model 1



Model 2

BOSCH REXROTH

A4V UNITS



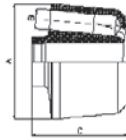
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HYDRAULICS
HYDRAULIC REPAIR SOLUTIONS

Bosch Rexroth (Rexroth build) A4V models

Barrel - Rexroth

Parts used for models: A4V

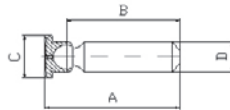
Series	Size	Partnumber	A	B	C
A4V	40	MH - 31998	98,00	17,00	83,00
A4V	56	MH - 32224	110,00	19,00	92,00
A4V	71	MH - 137598	118,00	20,50	100,00
A4V	90	MH - 117743	128,00	22,30	108,00
A4V	125	MH - 64026	143,00	24,80	121,00
A4V0130	POCLAIN	MH - 64026	143,00	24,80	121,00
A4V	250	MH - 141057	180,00	31,20	152,00



Piston - Rexroth

Parts used for models: A4V

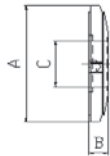
Series	Size	Partnumber	A	B	C	D
A4V	40	MH - 34199	72,40	61,30	24,30	17,00
A4V	56	MH - 39547	81,70	69,00	27,20	19,00
A4V	71	MH - 37984	87,60	74,00	29,30	20,50
A4V	90	MH - 35455	95,40	80,50	31,80	22,20
A4V	125	MH - 35476	106,00	89,50	35,50	24,80
A4V	250 LS	MH - 40095	132,30	112,40	44,90	31,20
A4V	250 HS	MH - 33623	128,30	108,40	44,90	31,20



Port plate - Rexroth

Parts used for models: A4V - DA regulation

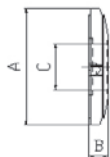
Series	Size	Partnumber	A	B	C
A4V	40 RH	MH - 30646	74,00	10,20	29,00
A4V	40 LH	MH - 30470	74,00	10,20	29,00
A4V	56 RH	MH - 30448	82,00	11,60	33,00
A4V	56 LH	MH - 30492	82,00	11,60	33,00
A4V	71 RH	MH - 156117	100,00	12,50	35,00
A4V	90 LH	MH - 158143	99,60	13,30	38,00
A4V	125 RH	MH - 30602	116,00	14,90	42,00



Port Plate - Rexroth

Parts used for models: A4V - HW / HD / EL

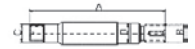
series	Size	Partnumber	A	B	C
A4V	40 RH	MH - 178925	74,00	10,20	29,00
A4V	56 LH	MH - 165112	82,00	11,60	33,00
A4V	56 RH	MH - 158147	82,00	11,60	33,00
A4V	90 LH	MH - 158157	99,60	13,30	38,00
A4V	125 LH	MH - 158168	116,00	14,90	42,00
A4V	125 RH	MH - 158161	116,00	14,90	42,00
A4V	250 RH	MH - 163713	152,10	19,00	54,00



Shaft - Rexroth

Parts used for models: A4V

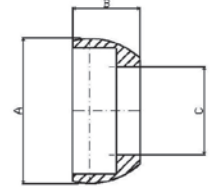
Series	Size	Partnumber	A	B	C	D
A4V	40	MH - 35765	240,00	30,00	22,00	35,00
A4V	56	MH - 32446	255,00	30,00	25,00	35,00
A4V	90	MH - 117744	290,00	35,00	29,00	40,00
A4V	125	MH - 143629	325,00	40,00	30,00	40,00
A4V	250	MH - 157747	421,00	54,50	34,50	60,00



Retainerball - Rexroth

Parts used for models: A4V

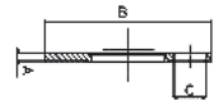
Series	Size	Partnumber	A	B	C
A4V	40	MH - 156178	50,00	18,50	33,10
A4V	56	MH - 156109	56,00	21,00	36,10
A4V	71	MH - 156116	60,00	22,50	39,00
A4V	90	MH - 158146	65,00	24,50	43,00
A4V	125	MH - 156107	72,50	27,00	48,10
A4V	250	MH - 156108	91,25	34,20	61,00



Retainerplate - Rexroth

Parts used for models: A4V

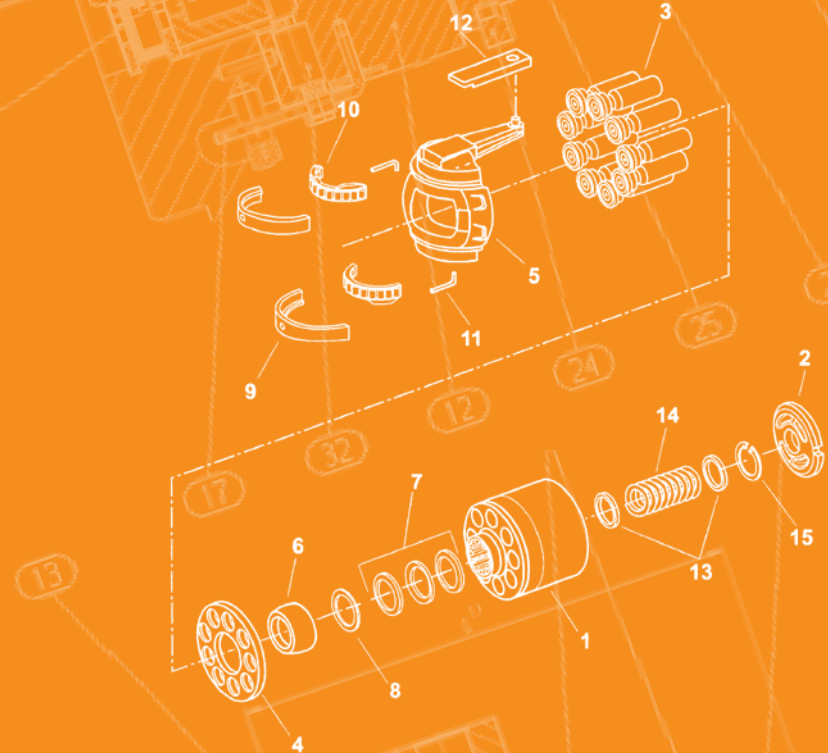
Series	Size	Partnumber	A	B	C
A4V	40	MH - 31636	5,75	102,10	20,10
A4V	56	MH - 34662	6,50	113,80	22,30
A4V	71	MH - 156115	7,00	123,20	24,30
A4V	90	MH - 162277	7,60	132,90	26,20
A4V	125	MH - 156106	8,60	148,90	29,40
A4V	250	MH - 156230	10,70	189,00	37,20



BOSCH REXROTH

(Rexroth build)

SERIES A4VG



HYDRAULICS

HYDRAULIC REPAIR SOLUTIONS

Bosch Rexroth (Rexroth build) series A4VG

Piston - Rexroth

Parts used for models: A4VG

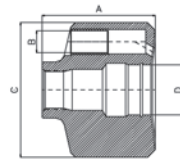
Series	Size	Partnumber	A	B	C	D
A4VG	28	MH - 117528	56,00	3,10	18,00	13,50
A4VG	40	MH - 117532	63,00	3,50	21,00	15,20
A4VG	56	MH - 117535	70,00	3,90	23,00	17,00
A4VG	71	MH - 117539	76,00	4,20	25,00	18,40
A4VG	90	MH - 117540	83,00	4,60	27,00	19,80
A4VG	125	MH - 117541	90,00	5,00	30,00	22,30
A4VG	180	MH - 137789	103,00	5,60	34,30	25,10
A4VG	250	MH - 155107	128,40	7,00	44,90	31,15



Barrel - Rexroth

Parts used for models: A4VG

Series	Size	Partnumber	A	B	C	D
A4VG 3.2	28	MH - 156445	70,00	13,50	83,00	31,00
A4VG 3.2	40	MH - 155126	79,00	15,20	93,00	35,00
A4VG 3.2	56	MH - 154559	89,00	17,00	103,00	43,00
A4VG 3.2	71	MH - 155129	97,00	18,40	112,00	45,00
A4VG 3.2	90	MH - 155127	104,00	19,90	122,00	48,00
A4VG 3.2	125	MH - 155130	116,00	22,30	135,00	55,00
A4VG 3.2	125	MH - 179519	116,00	22,30	135,00	55,00
A4VG 3.2	180	MH - 155104	131,50	25,10	154,00	62,00
A4VG 3.2	250	MH - 161536	122,50	31,20	180,00	61,00

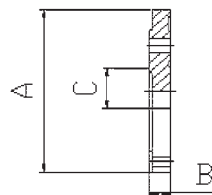


with lubrication holes

Port plate - Rexroth

Parts used for models: A4VG

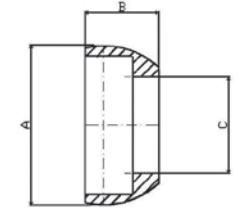
Series	Size	Partnumber	A	B	C
A4VG 3.2	28 L	MH - 87557	87,50	9,10	31,00
A4VG 3.2	28 R	MH - 162143	87,50	9,10	31,00
A4VG 3.2	40 L	MH - 156097	82,00	9,60	35,00
A4VG 3.2	40 R	MH - 156099	82,00	9,60	35,00
A4VG 3.2	56 L	MH - 179515	90,00	10,80	42,00
A4VG 3.2	56 R	MH - 155727	90,00	10,80	42,00
A4VG 3.2	71 L	MH - 158173	97,00	11,90	44,00
A4VG 3.2	71 R	MH - 162262	97,00	11,90	44,00
A4VG 3.2	90 L	MH - 156170	105,00	12,60	48,00
A4VG 3.2	90 R	MH - 138310	105,00	12,60	48,00
A4VG 3.2	125 L	MH - 156161	117,00	14,10	54,00
A4VG 3.2	125 R	MH - 158282	117,00	14,10	54,00
A4VG 3.2	180 L	MH - 155105	132,00	16,20	58,00
A4VG 3.2	180 R	MH - 156892	132,00	16,20	58,00
A4VG 3.2	250 R	MH - 156164	157,00	19,00	57,00



Retainerball - Rexroth

Parts used for models: A4VG

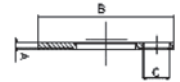
Series	Size	Partnumber	A	B	C
A4VG 3.2	28	MH - 156166	40,00	18,60	d=22,50 Spline=18
A4VG 3.2	40	MH - 156095	45,00	20,10	d=25,00 Spline=17
A4VG 3.2	56	MH - 156167	51,00	22,00	d=29,00 Spline=20
A4VG 3.1	71	MH - 158142	55,00	25,40	d=32,00 Spline=22
A4VG 3.2	71	MH - 156169	55,00	25,40	d=32,00 Spline=22
A4VG 3.2	90	MH - 156171	59,40	27,50	d=35,00 Spline=24
A4VG 3.1	125	MH - 156160	66,00	30,60	d=38,10 Spline=20
A4VG 3.2	125	MH - 158172	66,00	30,60	d=38,50 Spline=20
A4VG 3.2	180	MH - 156162	75,00	34,60	d=44,10 Spline=22
A4VG 3.2	250	MH - 156163	91,30	29,10	d=56,40 Spline=28



Retainerplate - Rexroth

Parts used for models: A4VG

Series	Size	Partnumber	A	B	C
A4VG 3.2	28	MH - 156165	4,65	86,40	14,50
A4VG 3.2	40	MH - 156096	5,00	95,10	17,10
A4VG 3.2	56	MH - 158153	5,55	106,60	18,70
A4VG 3.1	71	MH - 165168	5,95	117,90	19,95
A4VG 3.2	71	MH - 157756	6,00	117,90	20,00
A4VG 3.2	90	MH - 156172	6,50	125,90	21,60
A4VG 3.1	125	MH - 156159	7,30	138,20	24,00
A4VG 3.2	180	MH - 155106	8,00	157,20	27,20



Shaft - Rexroth

Parts used for models: A4VG

Series	Size	Partnumber	A	B	C
A4VG 3.2	56	MH - 158174	254,50	d=31,20 Spline=14	d=27,70 Spline=21
A4VG 3.2	56	MH - 158176	243,50	d=29,60 Spline=14	d=27,70 Spline=21
A4VG 3.2	71	MH - 162136	267,00	d=34,50 Spline=16	d=29,70 Spline=22
A4VG 3.2	125	MH - 162130	313,30	d=39,50 Spline=18	d=34,70 Spline=26
A4VG 3.2	125	MH - 161857	333,30	d=43,60 Spline=13	d=34,70 Spline=26



BOSCH REXROTH

(Rexroth build)

SERIES A4VSO

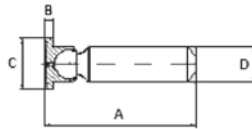


Bosch Rexroth (Rexroth build) series A4VSO

Piston - Rexroth

Parts used for models: A4VSO

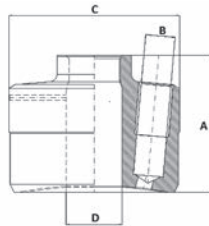
Series	Size	Partnumber	A	B	C	D
A4VSO	40	MH - 158155	72,40	4,00	24,30	17,00
A4VSO	71	MH - 37984	87,60	4,70	29,30	20,47
A4VSO	125	MH - 35476	106,10	5,60	35,50	24,76
A4VSO 22	180	MH - 155095	107,70	6,30	39,80	27,96
A4VSO 30	180	MH - 156044	111,70	6,30	39,80	27,96
A4VSO 10/22	250	MH - 52654	128,40	7,00	44,90	31,15
A4VSO 30	250	MH - 155107	128,40	7,00	44,90	31,15
A4VSO 22	355	MH - 162140	138,80	7,90	50,50	34,95
A4VSO 30	355	MH - 157748	143,85	7,90	50,50	34,95
A4VSO	500	MH - 157749	162,00	8,80	56,60	39,20



Barrel - Rexroth

Parts used for models: A4VSO

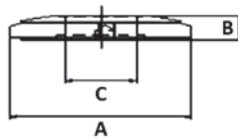
Series	Size	Partnumber	A	B	C	D
A4VSO	40	MH - 156175	82,80	17,00	98,00	33,25
A4VSO 22	125	MH - 155093	120,30	24,80	142,90	48,45
A4VSO 30	125	MH - 161524	120,30	24,80	142,90	48,45
A4VSO 22	180	MH - 155094	130,00	30,00	161,90	53,15
A4VSO 30	180	MH - 161535	130,00	30,00	161,90	53,15
A4VSO 22	250	MH - 155100	152,95	31,20	180,10	61,10
A4VSO 30	250	MH - 158169	152,95	31,20	180,10	61,10



Port plate - Rexroth

Parts used for models: A4VSO

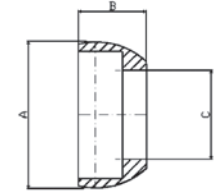
Series	Size	Partnumber	A	B	C
A4VSO	40 RH	MH - 156176	85,40	9,95	32,10
A4VSO	71 RH	MH - 155729	102,45	12,15	40,15
A4VSO 10	125 RH	MH - 156173	123,95	14,45	46,10
A4VSO 22	125 RH	MH - 162145	124,00	14,60	46,20
A4VSO	180 RH	MH - 155980	139,95	16,50	53,50
A4VSO 10	250 RH	MH - 161863	157,00	18,45	57,15
A4VSO 22/30	250 RH	MH - 155097	157,00	18,45	57,15



Retainerball - Rexroth

Parts used for models: A4VSO

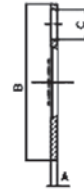
Series	Size	Partnumber	A	B	C
A4VSO	40	MH - 156178	50,00	18,55	33,10
A4VSO	71	MH - 156116	60,00	22,55	39,00
A4VSO	125	MH - 156046	72,50	27,00	48,10
A4VSO	180	MH - 163229	81,80	30,65	d=52,50 Spline=24
A4VSO 10/22	250	MH - 163701	91,30	34,25	61,00
A4VSO 30	250	MH - 156163	91,30	29,10	d=60,50 Spline=28



Retainerplate - Rexroth

Parts used for models: A4VSO

Series	Size	Partnumber	A	B	C
A4VSO	40	MH - 156177	5,60	102,20	20,20
A4VSO	71	MH - 156180	6,80	123,10	24,30
A4VSO	125	MH - 156048	8,40	148,80	29,00
A4VSO	180	MH - 162146	9,50	168,20	33,30
A4VSO 10/22	250	MH - 158158	10,50	189,20	37,30
A4VSO 30	250	MH - 158166	10,50	189,20	38,20



BOSCH REXROTH

(Rexroth build)

SERIES A10VG

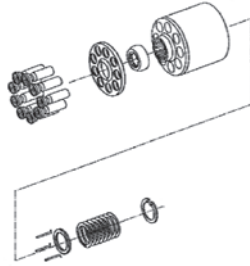


Bosch Rexroth (Rexroth build) series A10VG

Rotating group - Rexroth

Parts used for models: A10VG

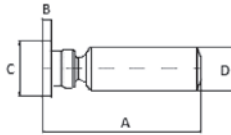
Series	Size	Partnumber
A10VG	28	MH - 156597



Piston - Rexroth

Parts used for models: A10VG

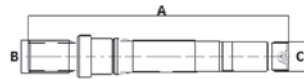
Series	Size	Partnumber	A	B	C	D
A10VG	28	MH - M000139	51,60	3,60	18,70	14,50
a10VG	45	MH - 158148	61,80	4,00	21,50	17,00



Shaft - Rexroth

Parts used for models: A10VG

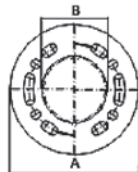
Series	Size	Partnumber	A	B	C
A10VG	45	MH - 179511	226,50	d=24,90 Spline=15	d=24,70 Spline=15



Port plate - Rexroth

Parts used for models: A10VG

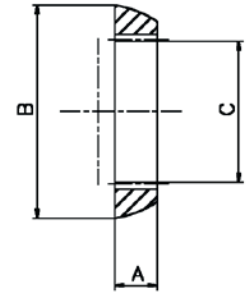
Series	Size	Partnumber	A	B
A10VG	28 RH	MH - 161866	87,00	32,00
A10VG	45 LH	MH - 156082	97,40	35,00
A10VG	45 RH	MH - 156081	97,40	35,00



Retainerball - Rexroth

Parts used for models: A10VG

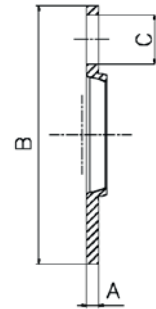
Series	Size	Partnumber	A	B	C
A10VG	45	MH - 128633	10,00	41,60	d=30 Spline=18



Retainerplate - Rexroth

Parts used for models: A10VG

Series	Size	Partnumber	A	B	C
A10VG	45	MH - 179512	4,60	92,80	18,30



BOSCH REXROTH

(Rexroth build)

SERIES A10VO

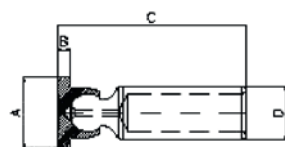


Bosch Rexroth (Rexroth build) series A10VO

Piston - Rexroth

Parts used for models: A10VO

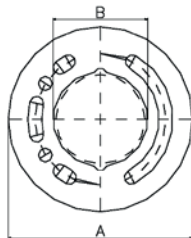
Series	Size	Partnumber	A	B	C	D
A10VO	60/63	MH - 158144	24,00	4,50	66,00	18,80



Port plate - Rexroth

Parts used for models: A10VO

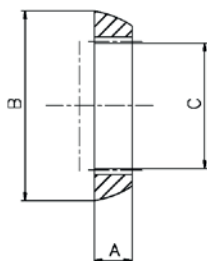
Series	Size	Partnumber	A	B
A10VO	60/63 RH	MH - 163725	107,00	52,00
A10VO	60/63 LH	MH - 162128	107,00	52,00



Retainerball - Rexroth

Parts used for models: A10VO

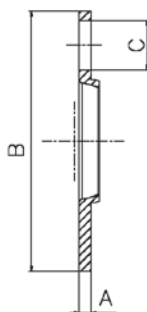
Series	Size	Partnumber	A	B	C
A10VO	60	MH - 156085	10,60	45,60	d=32,10 Spline=20



Retainerplate - Rexroth

Parts used for models: A10VO

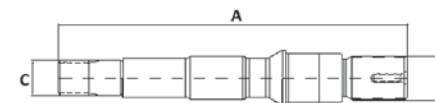
Series	Size	Partnumber	A	B	C
A10VO	60	MH - 156084	4,70	103,80	20,30



Shaft - Rexroth

Parts used for models: A10VO

Series	Size	Partnumber	A	B	C
A10VO	60/63	MH - 161865	251,00	d=31,40 Spline=14	d=24,60 Spline=15



BOSCH REXROTH

(Rexroth build)

SERIES A11VG

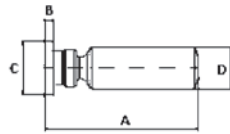


Bosch Rexroth (Rexroth build) series A11VG

Piston - Rexroth

Parts used for models: A11VG

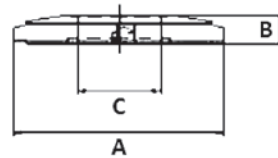
Series	Size	Partnumber	A	B	C	D
A11VG	12	MH - 162463	46,10	2,90	16,20	12,40
A11VG	19	MH - 158145	46,10	2,90	16,20	12,40
A11VG	35	MH - 158149	56,10	3,10	19,40	15,20
A11VG	50	MH - 156094	62,90	3,50	21,40	17,00



Port plate - Rexroth

Parts used for models: A11VG

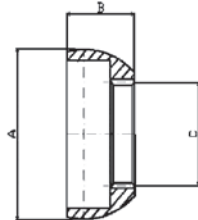
Series	Size	Partnumber	A	B	C
A11VG	35	MH - 162263	82,00	31,00	9,30



Retainerball - Rexroth

Parts used for models: A11VG

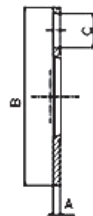
Series	Size	Partnumber	A	B	C
A11VG	35	MH - 156166	40,00	18,60	d=22,50 Spline=18
A11VG	50	MH - 156095	45,00	20,10	d=25,00 Spline=17



Retainerplate - Rexroth

Parts used for models: A11VG

Series	Size	Partnumber	A	B	C
A11VG	35	MH - 161527	4,70	86,60	15,40
A11VG	50	MH - 156096	5,00	95,20	17,10



BOSCH REXROTH

(Rexroth build)

SERIES A11V(L)O

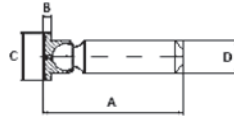


Bosch Rexroth (Rexroth build) series A11V(L)O

Piston - Rexroth

Parts used for models: A11V(L)O

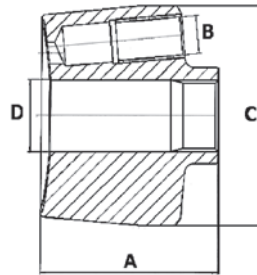
Series	Size	Partnumber	A	B	C	D
A11V(L)O	40	MH-34199	72,40	4,00	24,30	17,00
A11V(L)O	60	MH-39547	81,30	4,30	27,20	19,00
A11V(L)O	75	MH-37984	87,60	4,70	29,30	20,50
A11V(L)O	95	MH-35455	92,10	5,00	31,80	22,15
A11V(L)O	130	MH-35476	106,10	5,60	35,50	24,75
A11V(L)O	145	MH-264121	99,90	5,60	35,50	26,05
A11V(L)O	160	MH-156040	104,70	5,80	34,80	27,35
A11V(L)O	190	MH-252456	111,50	6,30	39,80	27,95
A11V(L)O	200	MH-179518	112,45	6,20	37,50	29,50
A11V(L)O	250	MH-156049	121,70	6,70	40,40	31,75
A11V(L)O	260	MH-155107	128,40	7,00	44,90	31,15



Barrel - Rexroth

Parts used for models: A11V(L)O

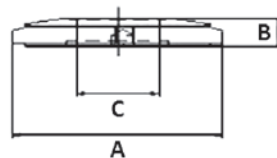
Series	Size	Partnumber	A	B	C	D
A11V(L)O	60	MH-161534	92,20	19,00	109,40	37,00
A11V(L)O	75	MH-161532	99,50	20,50	117,90	40,00
A11V(L)O	95	MH-157764	107,30	22,20	127,90	43,30
A11V(L)O	130	MH-157761	120,60	24,80	142,80	48,40
A11V(L)O	190	MH-161537	130,10	28,00	161,50	53,00
A11V(L)O	190	MH-184749	130,10	28,00	161,50	53,00
A11V(L)O	250	MH-179521	142,60	31,80	174,00	53,50
A11V(L)O	260	MH-179505	153,00	31,20	180,00	61,00
A11V(L)O	260	MH-161536	153,00	31,20	180,00	61,00



Port plate - Rexroth

Parts used for models: A11V(L)O

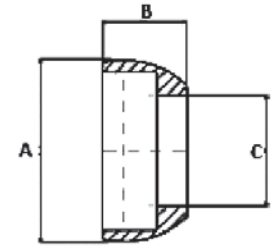
Series	Size	Partnumber	A	B	C
A11V(L)O	95 LH	MH-163706	105,10	12,80	42,00
A11V(L)O	130 LH	MH-162139	118,10	14,40	46,00
A11V(L)O	130 RH	MH-162138	118,10	14,40	46,00
A11V(L)O	130 RH	MH-158619	118,10	14,40	46,00
A11V(L)O	190 RH	MH-162279	135,10	16,50	53,00
A11V(L)O	260 RH	MH-156045	157,10	18,90	57,10
A11V(L)O	260 LH	MH-163717	157,10	18,90	57,10



Retainerball - Rexroth

Parts used for models: A11V(L)O

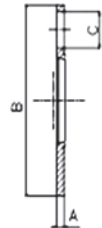
Series	Size	Partnumber	A	B	C
A11V(L)O	160	MH-156042	74,00	27,50	45,50
A11V(L)O	190	MH-163229	81,80	30,80	52,80
A11V(L)O	250	MH-156047	86,00	32,00	53,00



Retainerplate - Rexroth

Parts used for models: A11V(L)O

Series	Size	Partnumber	A	B	C
A11V(L)O	60	MH-156179	6,50	114,20	22,40
A11V(L)O	75	MH-179508	7,00	123,00	24,40
A11V(L)O	95	MH-162278	7,50	133,20	26,10
A11V(L)O	130	MH-158165	8,50	148,90	29,40
A11V(L)O	160	MH-156041	8,70	157,80	29,00
A11V(L)O	190	MH-162146	9,50	167,90	33,50
A11V(L)O	250	MH-179513	10,00	182,90	33,60



SPARE PARTS & COMPLETE UNITS FOR

**BOSCH REXROTH
(A)A10V(S)(O) UNITS**



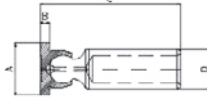
MH
HYDRAULICS
HYDRAULIC REPAIR SOLUTIONS

Bosch Rexroth (Rexroth build) series (A)A10V

Piston - Rexroth

Parts used for models: A10V

Series	Size	Partnumber	A	B	C	D
A10V	28	MH-117542	19,00	3,60	52,00	14,50
A10V	45	MH-117543	21,50	4,00	60,00	17,00
A10V	71	MH-117544	26,00	5,00	70,00	20,00
A10V	100	MH-117545	30,00	5,60	80,00	23,00
A10V	140	MH-117546	31,50	5,00	88,00	25,00

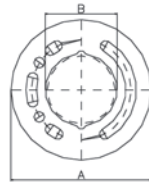


Port plate - Rexroth

(Bronze model)

Parts used for models: A10V, A10VSO

Series	Size	Partnumber	A	B
A10V	28 L	MH-128630	83,00	40,00
A10V	45 L	MH-128635	98,00	45,00
A10V	71 L	MH-54844	114,00	57,00
A10V	100 L	MH-140123	132,00	62,00
A10V	140 L	MH-71962	141,00	72,00

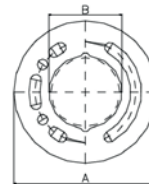


Port plate - Rexroth

(Bronze model)

Parts used for models: A10V, A10VSO

Series	Size	Partnumber	A	B
A10V	28 R	MH-128629	83,00	40,00
A10V	45 R	MH-54843	98,00	45,00
A10V	71 R	MH-54810	114,00	57,00
A10V	100 R	MH-140243	132,00	62,00
A10V	140 R	MH-140122	141,00	72,00



Barrel - Rexroth

Parts used for: A10V, A10VSO

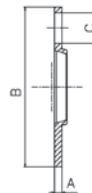
Series	Size	Partnumber	A	B	C	D
A10V	28	MH-128628	66,00	14,50	83,00	33,00
A10V	45	MH-128634	75,00	17,00	95,00	38,00
A10V	71	MH-128638	87,00	20,00	115,00	45,00
A10V	100	MH-35037	101,00	23,00	131,00	52,00
A10V	140	MH-64459	114,00	26,50	140,00	58,00



Retainer plate - Rexroth

Parts used for: A10V, A10VSO

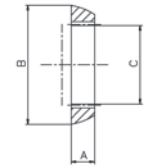
Series	Size	Partnumber	A	B	C
A10V	28	MH-76452	4,00	82,00	16,00
A10V	45	MH-128632	5,00	93,00	18,00
A10V	71	MH-128636	5,00	113,00	22,00
A10V	100	MH-35889	6,00	130,00	25,50
A10V	140	MH-55816	6,00	138,00	26,50



Retaining ball - Rexroth

Parts used for: A10V, A10VSO

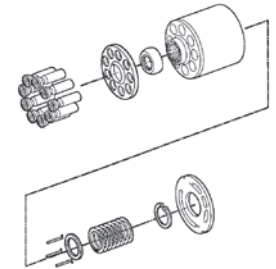
Type	NG	Partnumber	A	B	C
A10V	28	MH-128627	9,00	36,00	d=25 Spline=15
A10V	45	MH-128633	10,00	42,00	d=30 Spline=18
A10V	71	MH-128637	11,00	49,00	d=35 Spline=22
A10V	100	MH-65401	12,00	57,00	d=42 Spline=20
A10V	140	MH-64460	13,00	63,00	d=45 Spline=21



Rotating group - A10V

Parts used for models: A10V, A10VSO

Type	NG	Partnumber
A10V	28 L	MH-53357
A10V	28 R	MH-53358
A10V	45 L	MH-55471
A10V	45 R	MH-53356
A10V	71 L	MH-55204
A10V	71 R	MH-53360
A10V	100 L	MH-55472
A10V	100 R	MH-55473
A10V	140 L	MH-55475
A10V	140 R	MH-55474



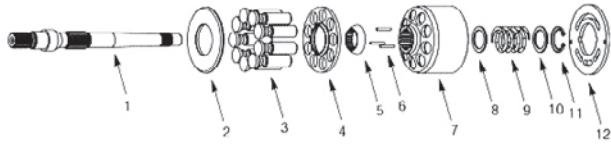
SPARE PARTS FOR REXROTH UCHIDA

UNITS A10V



TH
HYDRAULICS
HYDRAULIC REPAIR SOLUTIONS

Uchida Rexroth (Uchida build) series A10V



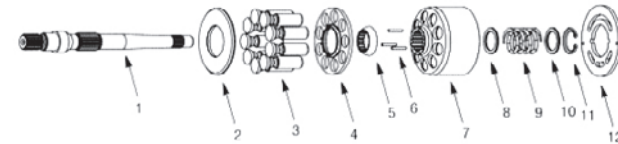
A10VD17 Build in: Komatsu PC25 and PC30, MX03

Description	Partnumber
Thrustplate	MH - 142311
Piston	MH - 142312
Retainer plate MH - 142313	
Retainerball	MH - 142314
Barrel	MH - 142315
Valve plate RHMH - 142316	
Valve plate LH MH - 142317	

A10V28/A10VD28

Description	Partnumber
Shaft	MH - 138919
Thrustplate	MH - 115971
Piston	MH - 115968
Retainer plate MH - 115969	
Retainerball	MH - 138917
Pin	MH - 138915
Barrel	MH - 138914
Valve plate RHMH - 80104	
Valve plate LH	MH - 80103

Uchida Rexroth (Uchida build) series A10V



A10V40/A10V43 Build in: HITACHI EX60-1 and EX60LC, S80W-3

Description	Partnumber
Thrustplate	MH - 142302
Piston	MH - 78519
Retainer plate	MH - 142303
Retainerball	MH - 142304
Barrel	MH - 142305
Valve plate RHMH - 142306	
Valve plate LH	MH - 142307

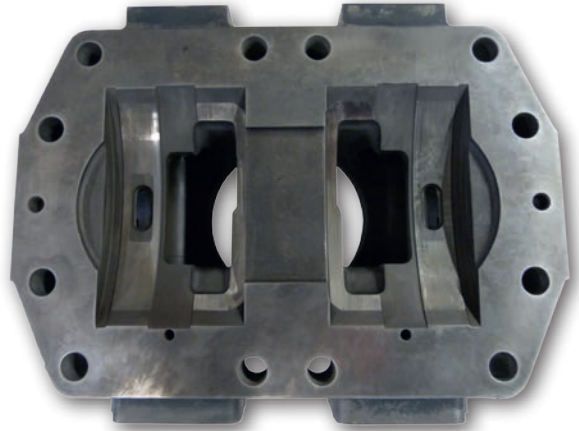
A10VD43

Description	Partnumber
Thrustplate	MH - 78521
Piston	MH - 78519
Retainer plate	MH - 138916
Retainerball	MH - 138918
Barrel	MH - 115429
Valve plate RHMH - 78523	
Valve plate LH	MH - 78524
Drive shaft flat	MH - 142308
Drive shaft round	MH - 142310

Re-conditioning end covers

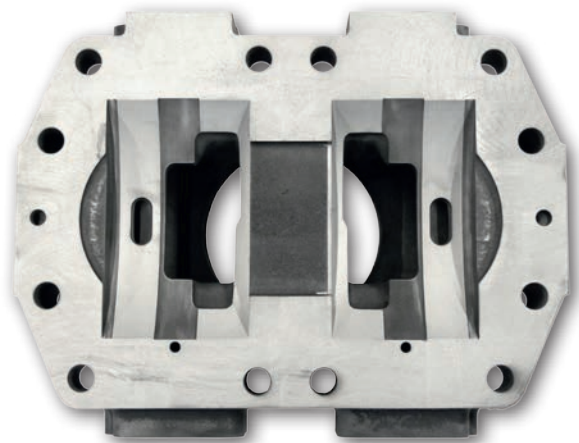
Old damaged end covers for A6V(M), A7V(O) and A8V(O) can be reworked and hardened, back to specs.

BEFORE



Old end cover A8V

AFTER



MH re-conditioned end cover A8V
grinded and surface hardened

SPARE PARTS FOR BOSCH REXROTH BRUENINGHAUS

HYDRO GIGANT... OLDER MODELS



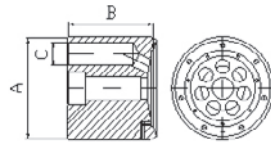
MH
HYDRAULICS
HYDRAULIC REPAIR SOLUTIONS

Bosch Rexroth (various older type, models and brands)

Barrel - Hydro-Gigant (Bronze)

Parts used for models: 12, 16, 20, 32, 40, 50

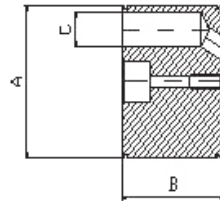
Size	Partnumber	A	B	C
12	MH - 37627	51,00	47,00	12,00
16	MH - 37649	68,00	60,00	16,00
20	MH - 39691	86,00	75,00	20,00
25	MH - 54202	110,00	95,00	25,00
32	MH - 39536	136,00	122,00	32,00
40	MH - 39526	180,00	158,00	40,00
50	MH - 39534	225,00	206,00	50,00



Barrel - Bosch Rexroth (Brueninghaus)

Parts used for models: 716, 732, 740, 750 - 481 - 900

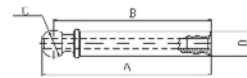
Size	Partnumber	A	B	C
716	MH - 39817	70,00	67,00	16,00
732	MH - 54183	140,00	106,00	32,00
740 - 481	MH - 40297	180,00	149,00	40,00
750 - 900	MH - 39971	215,00	194,00	50,00



Center pin - Bosch Rexroth (Brueninghaus)

Parts used for models: 31E, 71E, 125E, 250E

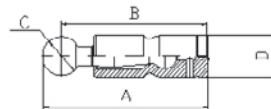
Type	Size	Partnumber	A	B	C	D
31E	16	MH - 39906	112,00	105,00	17,00	16,00
71E	21	MH - 40060	143,00	133,00	22,00	20,00
125E	25	MH - 39950	175,00	164,00	27,00	25,00
250E	32	MH - 39928	215,00	202,00	34,00	28,00



Piston - Bosch Rexroth (Brueninghaus)

Parts used for models: 31E, 71E, 125E, 250, 716, 740

Type	Size	Partnumber	A	B	C	D
71E	21	MH - 39883	91,00	81,00	23,00	21,00
125E	25	MH - 32469	109,00	97,00	27,00	25,00
250E	32	MH - 30247	129,00	112,00	34,00	32,00
740	40	MH - 30913	165,00	143,00	44,00	40,00

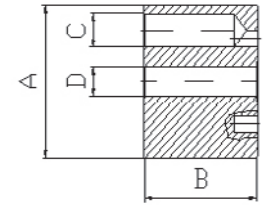


Bosch Rexroth (various older type, models and brands)

Barrel - Bosch Rexroth (Brueninghaus)

Parts used for models: 31E, 71E, 125E, 250E

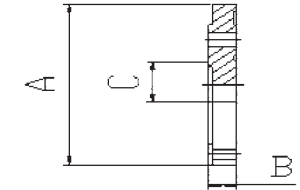
Size	Partnumber	A	B	C	D
31E	MH - 52839	74,00	61,00	16,00	16,00
71E	MH - 39993	98,00	82,00	21,00	20,00
125E	MH - 39861	120,00	99,00	25,00	25,00
250E	MH - 39839	148,00	121,00	32,00	28,00



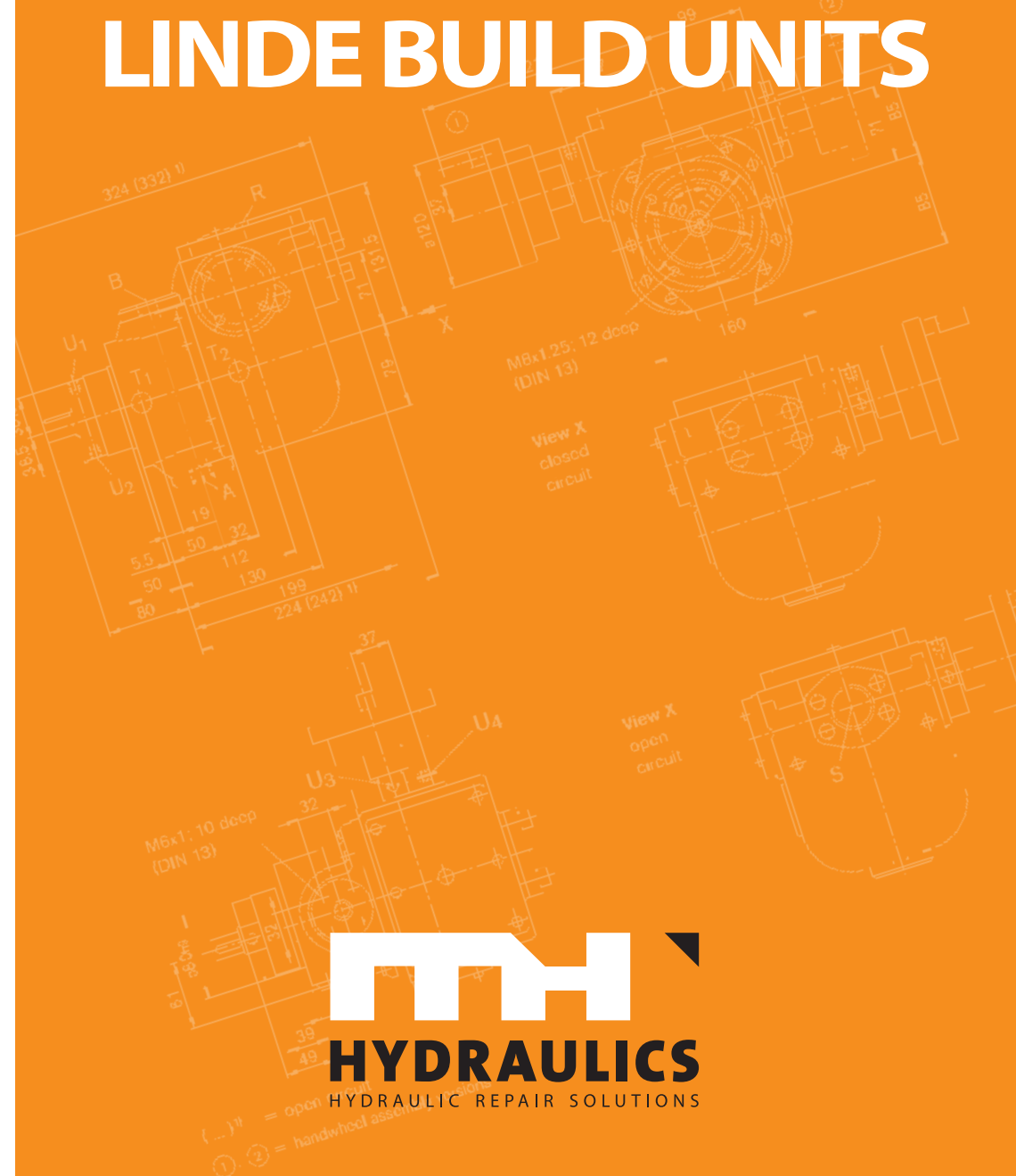
Port plate - Bosch Rexroth (Brueninghaus)

Parts used for models: 31E, 71E, 125E, 250E

Size	Partnumber	A	B	C
31E	MH - 52851	82,00	6,50	18,00
71E	MH - 49125	99,00	11,30	22,00
125E	MH - 37530	125,00	10,50	27,00
250E	MH - 34022	150,00	16,00	30,00



SPARE PARTS FOR LINDE BUILD UNITS



HYDRAULICS

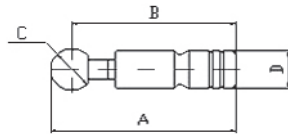
HYDRAULIC REPAIR SOLUTIONS

Linde various parts

Piston - Linde

Parts used for models: PV - 2PV - B2PV - MF-BMF- BMR

Type	Partnumber	A	B	C	D
35	MH - 52846	78,00	70,00	18,00	16,00
47 / 50	MH - 52847	85,00	75,50	20,00	18,00
69 / 75	MH - 52848	100,00	90,00	22,00	20,00
105	MH - 52849	110,00	98,00	25,00	22,00
140	MH - 52850	120,00	109,00	28,00	25,00
186	MH - 32199	128,00	115,00	30,00	28,00



Model B2PV35 other parts

Description	Partnumber
Barrel B2PV35 MH-154208	
Valve plate LH MH-154208	
Valve plate RH MH-154217	

Model B2PV50 other parts

Description	Partnumber
Barrel B2PV50 MH-154210	
Valve plate LH MH-154211	
Valve plate RH MH-154218	

Model B2PV75 other parts

Description	Partnumber
Barrel B2PV75 MH-154212	
Valve plate LH MH-154213	
Valve plate RH MH-154219	

Model B2PV105 other parts

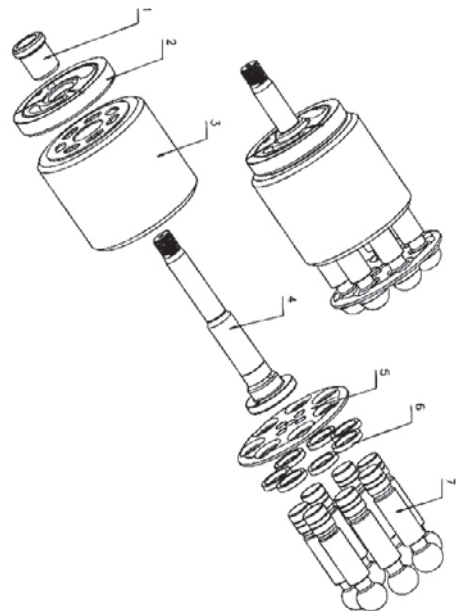
Description	Partnumber
Barrel B2PV105 MH-154214	
Valve plate LH MH-154215	
Valve plate RH MH-154216	

Model BPR 186 other parts

Description	Partnumber
Barrel MH-154999	
Retainer plate MH-155001	

Model BPR 260 other parts

Description	Partnumber
Barrel MH-155005	
Piston MH-155004	



Linde various parts

Model BPV35 other parts

Description	Partnumber
Barrel BPV35	MH-155534
Piston PV35	MH-155534
Retainer plate	MH-155536

Model BPV50 other parts

Description	Partnumber
Barrel BPV50	MH-154206
Piston BPV50	MH-154207

Model BPV70 other parts

Description	Partnumber
Piston	MH-155538
Barrel	MH-155539
Retainer plate MH-155540	
Port plate LH	MH-155541

Model BPV100 other parts

Description	Partnumber
Barrel BPV100 MH-154940	
Piston BPV100	MH-154941
Retainer plate	MH-154942
Port plate LH	MH-154943
Port plate RH	MH-154944

Model BPV200 other parts

Description	Partnumber
Barrel BPV200 MH-157760	
Piston BPV200	MH-157752

Model HPR100 other parts

Description	Partnumber
Barrel	MH-145298
Piston	MH-145299
Port plate LH	MH-145300
Retainer ball	MH-145301
Retainer plate	MH-145302
Port plate RH	MH-154130
Swash plate	MH-156237
Bearing flange	MH-156238
Shaft 18T	MH-156239

Linde various parts

Model HPR130 other parts

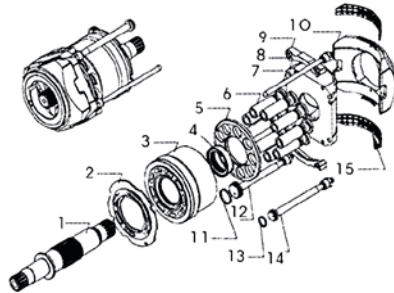
Description	Partnumber
Barrel	MH-154223
Piston	MH-154224
Retainer plate	MH-154225
Retainerball	MH-154226
Port plate LH	MH-154227
Port plate RH	MH-154228

Model HPR160 other parts

Description	Partnumber
Barrel	MH-154147
Piston	MH-154148
Retainer plate	MH-154149
Retainerball	MH-154150
Port plate LH	MH-154151
Port plate RH	MH-154152

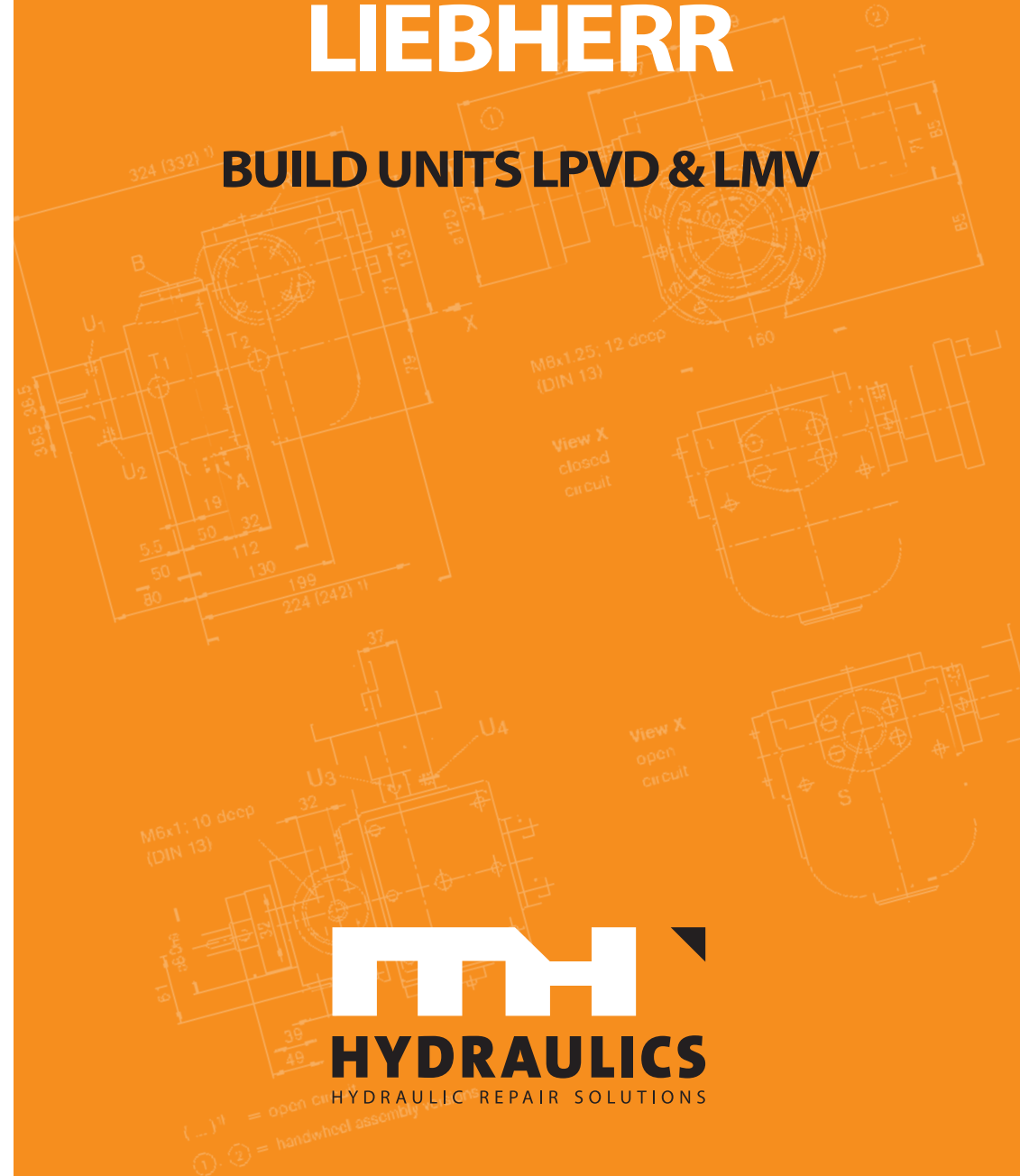
Model HPV130 other parts

Description	Partnumber
Barrel	MH-154885
Piston	MH-154886



SPARE PARTS FOR LIEBHERR

BUILD UNITS LPVD & LMV



MH
HYDRAULICS

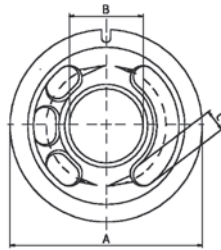
HYDRAULIC REPAIR SOLUTIONS

Liebherr

Port plate - Liebherr

Parts used for: LPVD

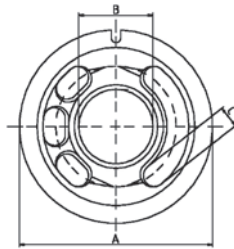
Model	Size	Partnumber	A	B	C
LPVD	45 L	MH - 115278	85,00	30,00	8,70
LPVD	64 L	MH - 66379	96,00	35,00	12,00
LPVD	90 L	MH - 115304	104,00	40,00	12,00
LPVD	100 L	MH - 115308	104,00	40,00	12,50
LPVD	125 L	MH - 115310	120,00	42,00	12,00
LPVD	140 L	MH - 115311	120,00	42,00	13,60



Port plate - Liebherr

Parts used for: LPVD

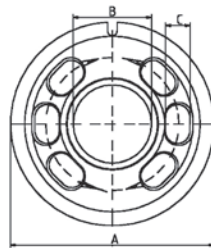
Model	Size	Partnumber	A	B	C
LPVD	45 R	MH - 115279	85,00	30,00	8,70
LPVD	64 R	MH - 66380	96,00	35,00	12,00
LPVD	90 R	MH - 115305	104,00	40,00	12,00
LPVD	100 R	MH - 115307	104,00	40,00	12,50
LPVD	125 R	MH - 115309	120,00	42,00	12,00
LPVD	140 R	MH - 115312	120,00	42,00	13,60



Port plate - Liebherr

Parts used for: LMV

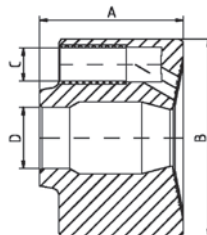
Model	Size	Partnumber	A	B	C
LMV	45	MH - 115280	85,00	30,00	8,70
LMV	64	MH - 115281	96,00	35,00	12,00
LMV	90	MH - 115284	104,00	40,00	12,00
LMV	100	MH - 115306	104,00	40,00	12,50
LMV	125	MH - 74825	120,00	42,00	12,00
LMV	140	MH - 74827	120,00	42,00	13,60



Barrel BIMETAL - Liebherr

Parts used for: LPVD & LMV

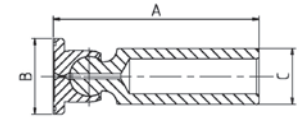
Model	Size	Partnumber	A	B	C	D
LPVD	45	MH - 128587	77,00	104,00	18,00	D=35 z=26
LPVD	64	MH - 128586	86,00	118,00	20,00	D=40 z=18
LPVD	90	MH - 72476	96,00	132,00	22,60	D=45 z=21
LPVD	100	MH - 115315	96,00	135,00	24,00	D=47 z=22
LPVD	125	MH - 115314	107,00	148,00	25,20	D=46 z=24
LPVD	140	MH - 115313	107,00	150,00	26,60	D=48 z=24



Piston - Liebherr

Parts used for: LPVD & LMV

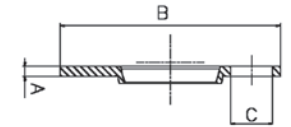
Model	Size	Partnumber	A	B	C
LPVD	45	MH - 66548	24,00	66,00	18,00
LPVD	64	MH - 64416	27,00	73,00	20,00
LPVD	90	MH - 66698	30,50	83,00	22,60
LPVD	100	MH - 79444	32,50	88,00	24,00
LPVD	125	MH - 75508	34,20	92,00	25,20
LPVD	140	MH - 75509	37,40	96,00	26,60



Retainer plate - Liebherr

Parts used for: LPVD & LMV

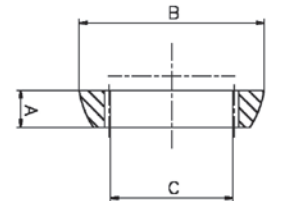
Model	Size	Partnumber	A	B	C
LPVD	64	MH - 152276	6,00	118,00	21,00
LPVD	100	MH - 152281	7,00	135,00	25,00
LPVD	125	MH - 152284	8,00	148,00	25,00
LPVD	140	MH - 152286	8,00	151,00	28,00

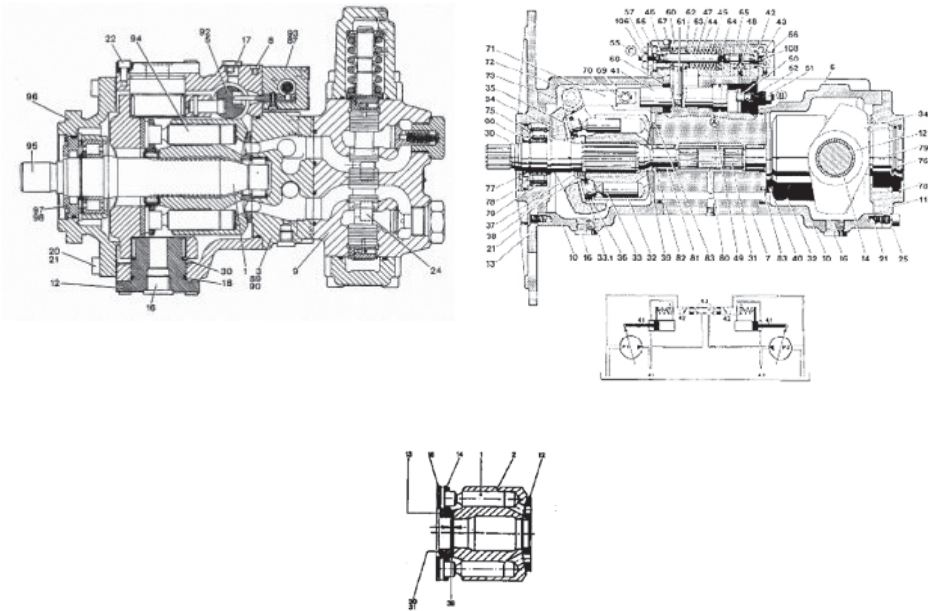


Retainer ball - Liebherr

Parts used for: LPVD & LMV

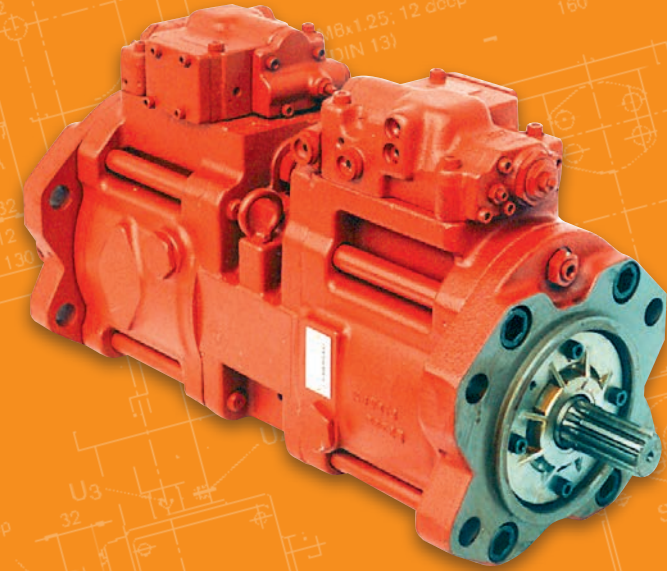
Model	Size	Partnumber	A	B	C
LPVD	64	MH - 152277	15,00	61,00	40,00
LPVD	100	MH - 152282	17,00	70,00	47,00
LPVD	125	MH - 152285	19,00	75,00	50,00
LPVD	140	MH - 152287	21,00	75,00	d=50 Spline=24



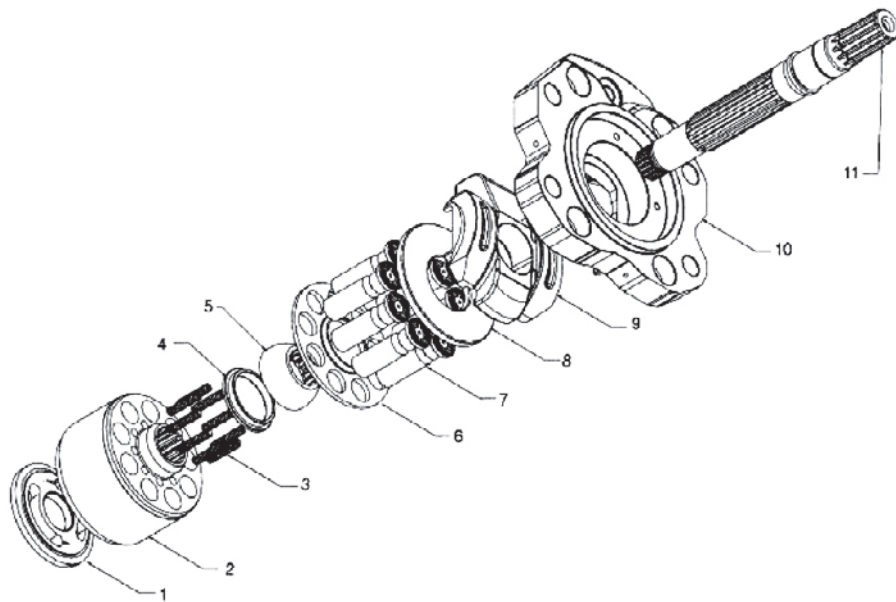


100% ORIGINAL KAWASAKI MOBILE SPARE PARTS

UNITS K3V MODELS



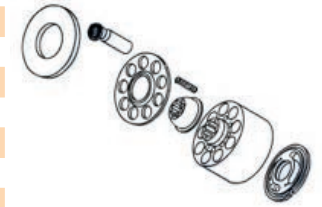
MH
HYDRAULICS
HYDRAULIC REPAIR SOLUTIONS



Rotary - Kawasaki

Parts used for: K3V

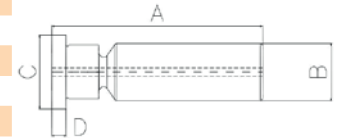
Series	Size	Partnumber
K3V	63 RH	500038
K3V	63 LH	500028
K3V	80 RH	502028
K3V	80 LH	502029
K3V	112 RH	501438
K3V	112 LH	501439
K3V	140 RH	501442
K3V	140 LH	501443
K3V	180 RH	501446
K3V	180 LH	501447
K3V	280 RH	501450
K3V	280 LH	501451



Piston - Kawasaki

Parts used for: K3V

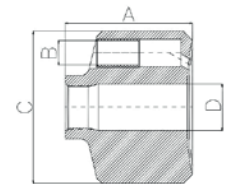
Series	Size	Partnumber	A	B	C	D
K3V	63	501357	66,85	20,00	25,40	4,00
K3V	80	501357	66,85	20,00	25,40	4,00
K3V	112	501364	83,20	24,00	31,40	5,00
K3V	140	501380	95,35	25,00	34,90	5,50
K3V	180	501202	93,75	28,00	35,90	5,50
K3V	280	501395	119,90	32,00	42,90	6,50



Cylinder - Kawasaki

Parts used for: K3V ****only in combination with port plate****

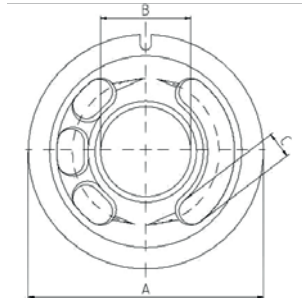
Series	Size	Partnumber	A	B	C	D
K3V	63	**	82,00	20,00	109,00	34,00
K3V	80	**	82,00	20,00	109,00	34,00
K3V	112	**	99,60	24,00	134,00	40,40
K3V	140	**	119,00	25,00	154,00	45,90
K3V	180	**	117,60	28,00	150,00	45,90
K3V	280	**	180,00	32,00	149,00	56,10



Port plate - Kawasaki

Parts used for: K3V **only in combination with cylinder**

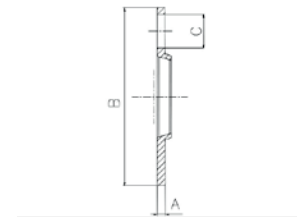
Series	Size	Partnumber	A	B	C
K3V	63 RH	501353	90,15	32,50	10,90
K3V	63 LH	501354	90,15	32,50	10,90
K3V	80 RH	501353	90,15	32,50	10,90
K3V	80 LH	501354	90,15	32,50	10,90
K3V	112 RH	501361	110,10	40,10	13,00
K3V	112 LH	501360	110,10	40,10	13,00
K3V	140 RH	501377	125,10	46,00	12,50
K3V	140 LH	501376	125,10	46,00	12,50
K3V	180 RH	501384	125,10	46,10	15,00
K3V	180 LH	501383	125,10	46,10	15,00
K3V	280 RH	501392	150,10	56,10	18,00
K3V	280 LH	501391	150,10	56,10	18,00



Set plate - Kawasaki

Parts used for: K3V

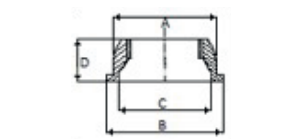
Series	Size	Partnumber	A	B	C
K3V	63	500023	4,10	107,90	21,10
K3V	80	501148	4,15	107,90	21,15
K3V	112	501151	5,35	131,80	25,65
K3V	140	500934	6,20	149,80	28,30
K3V	180	500934	6,20	149,80	28,30
K3V	280	501149	8,50	179,80	34,10



Spherical bush - Kawasaki

Parts used for: K3V

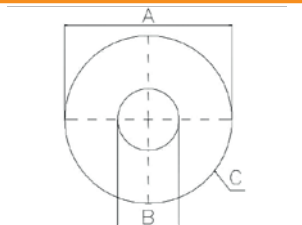
Series	Size	Partnumber	A	B	C	D
K3V	63	501205	47,60	56,10	43,25	28,00
K3V	80	501205	47,60	56,10	43,25	28,00
K3V	112	501206	60,00	68,00	53,25	34,00
K3V	140	501207	66,70	78,50	60,25	36,40
K3V	180	501208	66,70	78,50	61,25	36,40
K3V	280	501204	82,00	95,00	74,25	47,60



Shoe plate - Kawasaki

Parts used for: K3V

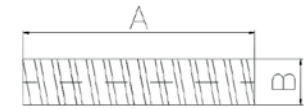
Series	Size	Partnumber	A	B	C	Z
K3V	63	500026	109,80	53,90	7,50	
K3V	80	500026	109,80	53,90	7,50	
K3V	112	501251	131,80	60,90	8,00	
K3V	140	501398	149,80	72,00	8,10	
K3V	180	501398	149,80	72,00	8,10	
K3V	280	501249	179,80	85,85	9,00	



Coil spring - Kawasaki

Parts used for: K3V

Series	Size	Partnumber	A	B
K3V	63	500025	31,20	7,70
K3V	80	500025	31,20	7,70
K3V	112	500212	41,00	8,50
K3V	140	500954	47,38	9,60
K3V	180	500186	40,60	8,70
K3V	280	500587	49,50	10,10



Shaft - Kawasaki

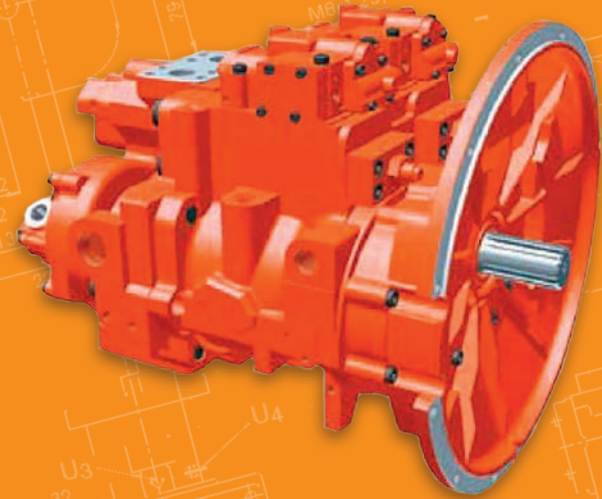
Parts used for: K3V

Series	Size	Partnumber	A	B	C
K3V	63	500020	304,0	d=31,20 Spline=14	d=24,60 Spline=13
K3V	63	501161	304,0	d=31,20 Spline=14	d=24,60 Spline=13
K3V	63	501162	227,0	d=35,0	d=24,60 Spline=13
K3V	80	500845	229,0	d=35,0	d=24,60 Spline=13
K3V	80	501166	302,0	d=37,50 Spline=17	d=24,60 Spline=13
K3V	112	517166	397,0	d=39,50 Spline=14	d=24,90 Spline=15
K3V	112	501163	350,0	d=39,50 Spline=14	d=33,0
K3V	112	500915	341,0	d=34,50 Spline=12	d=33,00 Spline=18
K3V	112	500832	260,0	d=40,0	d=33,00 Spline=18
K3V	112	502132	265,0	d=40,0	d=33,00 Spline=18
K3V	112	500799	341,0	d=39,50 Spline=14	d=33,00 Spline=18
K3V	112	501169	365,0	d=37,50 Spline=17	d=33,00 Spline=18
K3V	112	501184	341,0	d=37,50 Spline=17	d=33,00 Spline=18
K3V	140	500920	395,0	d=46,90 Spline=17	d=36,90 Spline=13
K3V	140	500922	305,0	d=45,0	d=36,90 Spline=13
K3V	140	501164	315,0	d=45,0	d=36,90 Spline=13
K3V	140	500917	300,0	d=45,0	d=36,90 Spline=13
K3V	140	501172	400,0	d=46,90 Spline=17	d=36,90 Spline=13
K3V	140	517223	370,0	d=46,90 Spline=17	d=40,0
K3V	180	500920	395,0	d=46,90 Spline=17	d=36,90 Spline=13
K3V	180	500922	305,0	d=45,0	d=36,90 Spline=13
K3V	180	500917	300,0	d=45,0	d=36,90 Spline=13
K3V	180	500921	485,0	d=47,90 Spline=14	d=36,90 Spline=13
K3V	180	501591	415,0	d=46,90 Spline=17	d=36,90 Spline=13
K3V	180	501158	425,0	d=50,30 Spline=15	d=36,90 Spline=13
K3V	180	517225	320,0	d=45,0	d=36,90 Spline=13
K3V	180	501172	397,0	d=46,90 Spline=17	d=36,90 Spline=13
K3V	180	501167	305,0	d=45,0	d=36,90 Spline=13
K3V	180	501173	400,0	d=44,20 Spline=13	d=36,90 Spline=13
K3V	280	501159	505,0	d=59,40 Spline=18	d=44,50 Spline=16
K3V	280	501157	380,0	d=55,0	d=44,50 Spline=16
K3V	280	502079	500,0	d=53,40 Spline=16	d=44,50 Spline=16



100% ORIGINAL KAWASAKI MOBILE SPARE PARTS

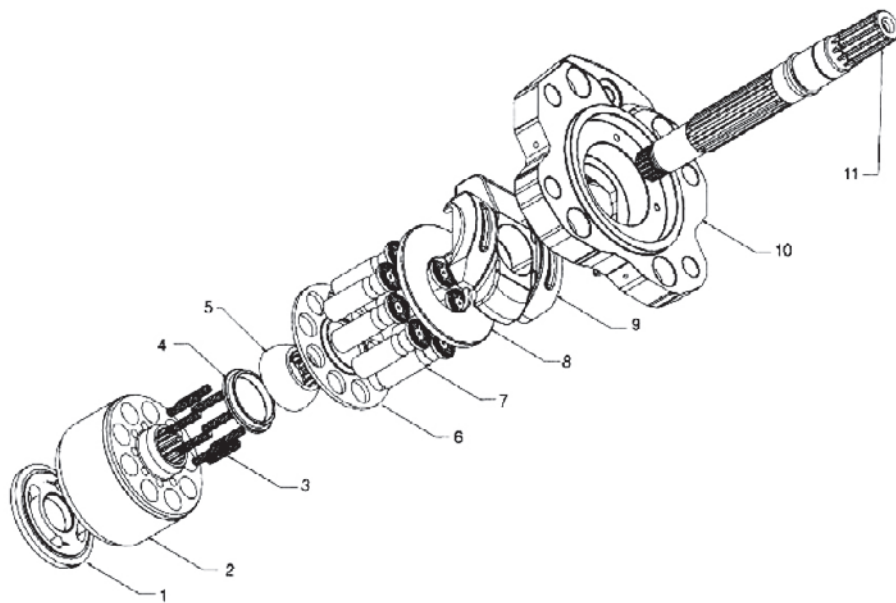
UNITS K5V MODELS



MH

HYDRAULICS

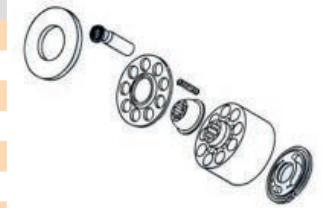
HYDRAULIC REPAIR SOLUTIONS



Rotary - Kawasaki

Parts used for: K5V

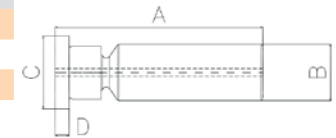
Series	Size	Partnumber
K5V	80 RH	501454
K5V	80 LH	501455
K5V	140 RH	501458
K5V	140 LH	501459
K5V	160 RH	502071
K5V	160 LH	502072
K5V	200 RH	501462
K5V	200 LH	501463



Piston - Kawasaki

Parts used for: K5V

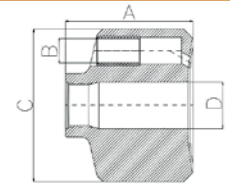
Series	Size	Partnumber	A	B	C	D
K5V	80	501357	66,85	20,00	25,40	4,00
K5V	140	501373	81,00	25,00	31,35	5,00
K5V	160	502070	93,75	25,00	35,90	5,50
K5V	200	501387	93,80	28,00	35,90	5,50



Cylinder - Kawasaki

Parts used for: K3V **only in combination with port plate**

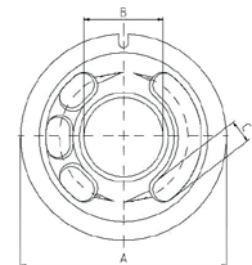
Series	Size	Partnumber	A	B	C	D
K5V	80	**	82,00	20,00	109,00	34,00
K5V	140	**	99,60	25,00	134,00	40,40
K5V	160	**	117,50	25,00	150,00	45,90
K5V	200	**	117,60	28,00	150,00	45,90



Port plate - Kawasaki

Parts used for: K5V **only in combination with cylinder**

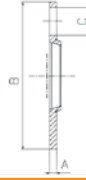
Series	Size	Partnumber	A	B	C
K5V	80 RH	501353	90,15	32,50	10,90
K5V	80 LH	501354	90,15	32,50	10,90
K5V	140 RH	501370	110,10	40,00	15,00
K5V	140 LH	501369	110,10	40,00	15,00
K5V	160 RH	502069	125,00	46,00	12,50
K5V	160 LH	502068	125,00	46,00	12,50
K5V	200 RH	501384	125,10	46,10	15,00
K5V	200 LH	501383	125,10	46,10	15,00



Set plate - Kawasaki

Parts used for: K5V

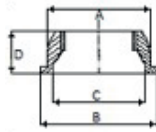
Series	Size	Partnumber	A	B	C
K5V	80	501148	4,15	107,90	21,15
K5V	140	501151	5,35	131,80	25,65
K5V	160	501150	6,35	149,85	30,15
K5V	200	501150	6,35	149,85	30,15



Spherical bush - Kawasaki

Parts used for: K5V

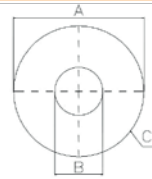
Series	Size	Partnumber	A	B	C	D
K5V	80	501205	47,60	56,10	43,25	28,00
K5V	140	501206	60,00	68,00	53,25	34,00
K5V	160	501208	66,70	78,50	61,25	36,40
K5V	200	501208	66,70	78,50	61,25	36,40



Shoe plate - Kawasaki

Parts used for: K5V

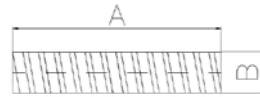
Series	Size	Partnumber	A	B	C	Z
K5V	80	500026	109,80	53,90	7,50	
K5V	140	501251	131,80	60,90	8,00	
K5V	160	501398	149,80	72,00	8,10	
K5V	200	501398	149,80	72,00	8,10	



Coil spring - Kawasaki

Parts used for: K5V

Series	Size	Partnumber	A	B
K5V	80	500025	31,20	7,70
K5V	140	501083	38,80	7,70
K5V	160	500186	40,60	8,70
K5V	200	500186	40,60	8,70



SPARE PARTS & COMPLETE UNITS FOR VICKERS & DENISON UNITS

MH
HYDRAULICS

HYDRAULIC REPAIR SOLUTIONS

Vickers

Cartridge

Partnumber Description

TDCQ20221	Cartridge 2° 5 gal Right
TDCQ20222	Cartridge 2° 8 GAL Right 20VQ; C2
TDCQ20223	Cartridge 2° 20VQ 11 gal Right
TDCQ20224	Cartridge 2° 12 gal Right 20V
TDCQ20225	Cartridge 2° 14 gal Right 20V
TDCQ10200	Cartridge 25VQ 12 gal, Right
TDCQ10201	Cartridge 25VQ 14 gal, Right
TDCQ10202	Cartridge 25VQ 17 gal, Right
TDCQ10204	Cartridge 25VQ 19 gal, Right
TDCQ10203	Cartridge 25VQ 21 gal, Right
TDCQ10220	Cartridge 35VQ 25 gal Right
TDCQ10221	Cartridge 35VQ 30 gal, Right
TDCQ10222	Cartridge 35VQ 35 gal, Right
TDCQ10223	Cartridge 35VQ 38 gal, Right
TDCQ10230	Cartridge 45VQ 42 gal, Right
TDCQ10232	Cartridge 45VQ 50 gal, Right
TDCQ10234	Cartridge 45VQ 57 gal, Right
TDCQ10233	Cartridge 45VQ 60 gal, Right



Shaft

Partnumber Description

TDVK25001	KEYED SHAFT N° 1 VK25
TDVK25011	Shaft N,11 VK25
TDVK35011	Shaft N,11 VK35
TDVK35086	KEYED SHAFT N° 86 VK35
TDVK45011	Shaft N,11 VK45
TDVK45086	KEYED SHAFT N° 86 VK45
TDVK43001	KEYED SHAFT N° 1 VK43
TDVK43011	Shaft N,11 VK43
TDVK63011	Shaft N,11 VK63
TDVK63086	KEYED SHAFT N° 86 VK63
TDVK64011	Shaft N,11 VK64
TDVK64086	KEYED SHAFT N° 86 VK64
TDVK73011	Shaft N,11 VK73
TDVK73086	KEYED SHAFT N° 86 VK73
TDVK74011	Shaft N,11 VK74
TDVK74086	KEYED SHAFT N° 86 VK74
TDVK76011	Shaft N,11 VK76
TDVK76086	KEYED SHAFT N° 86 VK76



Seal kit

Partnumber Description

TDVQ25015	SEAL KIT2 5VQ; WITH SHAFT SEAL
TDVQ35015	SEAL KIT 35VQ; WITH SHAFT SEAL
TDVQ45015	SEAL KIT 45VQ; WITH SHAFT SEAL
TDVQ43015	SEAL KIT VQ43;WITH SHAFT SEAL
TDVQ63015	SEAL KIT VQ63;WITH SHAFT SEAL
TDVQ64015	SEAL KIT 64VQ; WITH SHAFT SEAL
TDVQ73015	SEAL KIT73VQ; WITH SHAFT SEAL
TDVQ74015	SEAL KIT 74VQ; WITH SHAFT SEAL
TDVQ76015	SEAL KIT VQ76; WITH SHAFT SEAL



Pump

Partnumber Description

TDVQ25220	Pump VQ25/17D1A
TDVQ25240	Pump VQ25/21D1A
TDVQ35220	Pump VQ35/30D1A
TDVQ35240	Pump VQ35/38D1A
TDVQ45240	Pump VQ45/60D1A01
TDVQ45220	Pump VQ45/50D1A
TDVQ43540	Pump VQ43/2114D1AA
TDVQ63470	Pump VQ63/3514D1AA16
TDVQ64440	Pump VQ64/3821D1AA
TDVQ73210	Pump VQ73/4205D1AA
TDVQ74200	Pump VQ74/4212D1AA
TDVQ76900	Pump VQ76/6038D1AA99
TDVC10101	Pump V10/02D1A02 IN 1" OUT 1/2" BSP
TDVC10201	Pump V10/03D1A02 IN 1" OUT 1/2" BSP
TDVC10301	Pump V10/04D1A02 IN 1" OUT 1/2" BSP
TDVC10401	Pump V10/05D1A02 IN 1" OUT 1/2" BSP
TDVC10501	Pump V10/06D1A02 IN 1" OUT 1/2" BSP
TDVC20201	Pump V20/07D1A02 IN 1 1/4" OUT 3/4" BSP
TDVC20301	Pump V20/08D1A02 IN 1 1/4" OUT 3/4" BSP
TDVC20401	Pump V20/09D1A02 IN 1 1/4" OUT 3/4" BSP
TDVC20501	Pump V20/11D1A02 IN 1 1/4" OUT 3/4" BSP
TDVC20601	Pump V20/12D1A02 IN 1 1/4" OUT 3/4" BSP
TDVC20701	Pump V20/13D1A02 IN 1 1/4" OUT 3/4" BSP



Denison

Cartridge

Partnumber Description

TDC6C4006	Cartridge C 2° 6 gal BID, T6CC, 3° DCC-EDC
TDC6C4008	Cartridge C 2° 8 gal BID, RT6CC, 3° DCC-EDC
TDC6C4010	Cartridge C 2° 10 gal BID, T6CC, 3° DCC-EDC
TDC6C4012	Cartridge C 2° 12 gal BID, T6CC, 3° DCC-EDC
TDC6C4014	Cartridge C 2° 14 gal BID, T6CC, 3° DCC-EDC
TDC6C4017	Cartridge C 2° 17 gal BID, T6CC, 3° DCC-EDC
TDC6C4020	Cartridge C 2° 20 gal BID, T6CC, 3° DCC-EDC
TDC6C4022	Cartridge C 2° 22 gal BID, T6CC, 3° DCC-EDC
TDC6C4025	Cartridge C 2° 25 gal BID, T6CC, 3° DCC-EDC
TDC6C4028	Cartridge C 2° 28 gal BID, T6CC, 3° DCC-EDC
TDC6C5022	Cartridge C 1° 22 gal BID, T6CC
TDC6C5025	Cartridge C 1° 25 gal BID, T6CC
TDC6C5028	Cartridge C 1° 28 gal BID, T6CC
TDC6C5031	Cartridge C 1° 31 gal BID, T6CC
TDC6D3031	Cartridge D 31 gal BID, T6D Y T6DCC
TDC6D3035	Cartridge D 35 gal BID, T6D Y T6DCC
TDC6D3042	Cartridge D 42 gal BID, T6D Y T6DCC
TDC6E1050	Cartridge E 50 gal RT6E
TDC6E1062	Cartridge E 62 gal RT6E
TDC6E1072	Cartridge E 72 gal RT6E



Shaft

Partnumber Description

TDT60C002	SHAFT N° 2. DT6C PUMP
TDT60C001	SHAFT N° 1. DT6C PUMP
TDT60C003	SHAFT N° 3. DT6C PUMP
TDT6CC001	KEYED SHAFT N° 1 DT6CC
TDT6CC002	KEYED SHAFT N° 2 DT6CC
TDT6CC003	Shaft N° 3 DT6CC
TDT6CC005	Shaft N° 5 DT6CC
TDT6CC00X	KEYED SHAFT X DT6CC
TDT6CC00W	KEYED SHAFT W DT6CC
TDT6CC00V	KEYED SHAFT V DT6CC



Seal kit

Partnumber Description

TDT60C015	SEAL KIT DT6C; WITH SHAFT SEAL
TDT60D015	SEAL KIT DT6D; WITH SHAFT SEAL
TDT60E015	SEAL KIT DT6E; WITH SHAFT SEAL
TDT6CC015	SEAL KIT DT6CC Shaft 1,3 Y 5; WITH SHAFT SEAL
TDT6CC016	SEAL KIT DT6CC Shaft 2,R,X,W,V; WITH SHAFT SEAL
TDT6DC015	SEAL KIT DT6DC; Shaft 1,2,3
TDT6DC016	SEAL KIT DT6DC Shaft N° 5,T; WITH SHAFT SEAL
TDT6EC015	SEAL KIT DT6EC; WITH SHAFT SEAL
TDT6ED015	SEAL KIT DT6ED



Pump

Partnumber Description

TDT60C568	Pump DT6C/B141R00B1
TDT60C627	PUMP DT6C/B253R01B1
TDT6CC579	PUMP DT6CC/B17B121R00C111; P2 3/4" S 2 1/2"
TDT6CC832	Pump DT6CCMW/B22B12VR01C1W1; P2 3/4" S2 1/2" METR
TDT6CC674	Pump DT6CCW/B25B172R00C100; P2 1" S 3"



SPARE PARTS FOR SAUER BUILD UNITS



HYDRAULICS

HYDRAULIC REPAIR SOLUTIONS

Sauer parts for spv-smf & Series 90

Piston - Sauer

Parts used for: 90

Model	Size	Partnumber
90	55	MH - 145259
90	75	MH - 145274
90	100	MH - 145288



Barrel - Sauer

Parts used for: 90

Model	Size	Partnumber
90	55	MH - 145256
90	75	MH - 145270
90	100	MH - 145284

Port plate - Sauer

Parts used for: 90

Model	Size	Partnumber
90	55 L	MH - 145257
90	55 R	MH - 145258
90	55 M	MH - 145260
90	75 L	MH - 145271
90	75 R	MH - 145272
90	75 M	MH - 145273
90	100 L	MH - 145285
90	100 R	MH - 145286
90	100 M	MH - 145287



Retainer plate - Sauer

Parts used for: 90

Model	Size	Partnumber
90	55	MH - 145261
90	75	MH - 145275
90	100	MH - 145289

Retainer guide - Sauer

Parts used for: 90

Model	Size	Partnumber
90	55	MH - 142266
90	75	MH - 145280
90	100	MH - 145294

Shaft - Sauer

Parts used for: 90

Model	Size	Partnumber
90	55	MH - 145262
90	75	MH - 145276
90	100	MH - 145290



Kit - Barrel + pistons + retainer plate - Sauer

Parts used for: 90

Model	Size	Partnumber
90	55	MH - 145269
90	75	MH - 145283
90	100	MH - 145297

Sauer parts for SPV-SMF

Piston - Sauer

Parts used for: SPV & SMF

Model	Size	Partnumber
SPV	20	MH - 152538
SPV	21	MH - 152547
SPV	22	MH - 152565
SPV	23	MH - 152579
SPV	24	MH - 152591
SPV	25	MH - 152599



Barrel - Sauer

Parts used for: SPV & SMF

Model	Size	Partnumber
SPV	20	MH - 152537
SPV	21	MH - 152546
SPV	22	MH - 152561
SPV	23	MH - 152575
SPV	24	MH - 152589
SPV	25	MH - 152597



Port plate - Sauer

Parts used for: SPV & SMF

Model	Size	Partnumber
SPV	20L	MH - 154111
SMF	20M	MH - 154112
SPV	20R	MH - 152541
SPV	21L	MH - 152550
SMF	21M	MH - 154113
SPV	21R	MH - 154076
SPV	22L	MH - 154117
SMF	22M	MH - 154116
SPV	22R	MH - 152573
SPV	23L	MH - 154124
SMF	23M	MH - 154125
SPV	23R	MH - 152586
SPV	24L	MH - 154118
SMF	24M	MH - 154119
SPV	24R	MH - 152595
SPV	25L	MH - 154114
SMF	25M	MH - 154115
SPV	25R	MH - 152602



Retainer ball - Sauer

Parts used for: SPV & SMF

Model	Size	Partnumber
SPV	20	MH - 152540
SPV	21	MH - 152549
SPV	22	MH - 152560
SPV	23	MH - 152574
SPV	24	MH - 152588
SPV	25	MH - 152596

Retainer plate - Sauer

Parts used for: SPV & SMF

Model	Size	Partnumber
SPV	20	MH - 152539
SPV	21	MH - 152548
SPV	22	MH - 152566
SPV	23	MH - 152580
SPV	24	MH - 152592
SPV	25	MH - 152600

Bearing plate - Sauer

Parts used for: SPV & SMF

Model	Size	Partnumber
SPV	20	MH - 152543
SPV	21	MH - 152552
SPV	22	MH - 152562
SPV	23	MH - 152576
SPV	24	MH - 152590
SPV	25	MH - 152598

Thrust plate - Sauer

Parts used for: SPV & SMF

Model	Size	Partnumber
SPV	20	MH - 152542
SPV	21	MH - 152551
SPV	22	MH - 152571
SPV	23	MH - 152585
SPV	24	MH - 152594
SPV	25	MH - 152601



Chargepump - Sauer

Parts used for: SPV & SMF

Model	Size	Partnumber
SPV	20-23 R	MH - 152577
SPV	20-23 L	MH - 152563

Mechanical seal - Sauer

Parts used for: SPV & SMF

Model	Size	Partnumber
SPV	20/21/22	MH - 152544
SPV	23/24	MH - 152582

Seal kit - Sauer

Parts used for: SPV

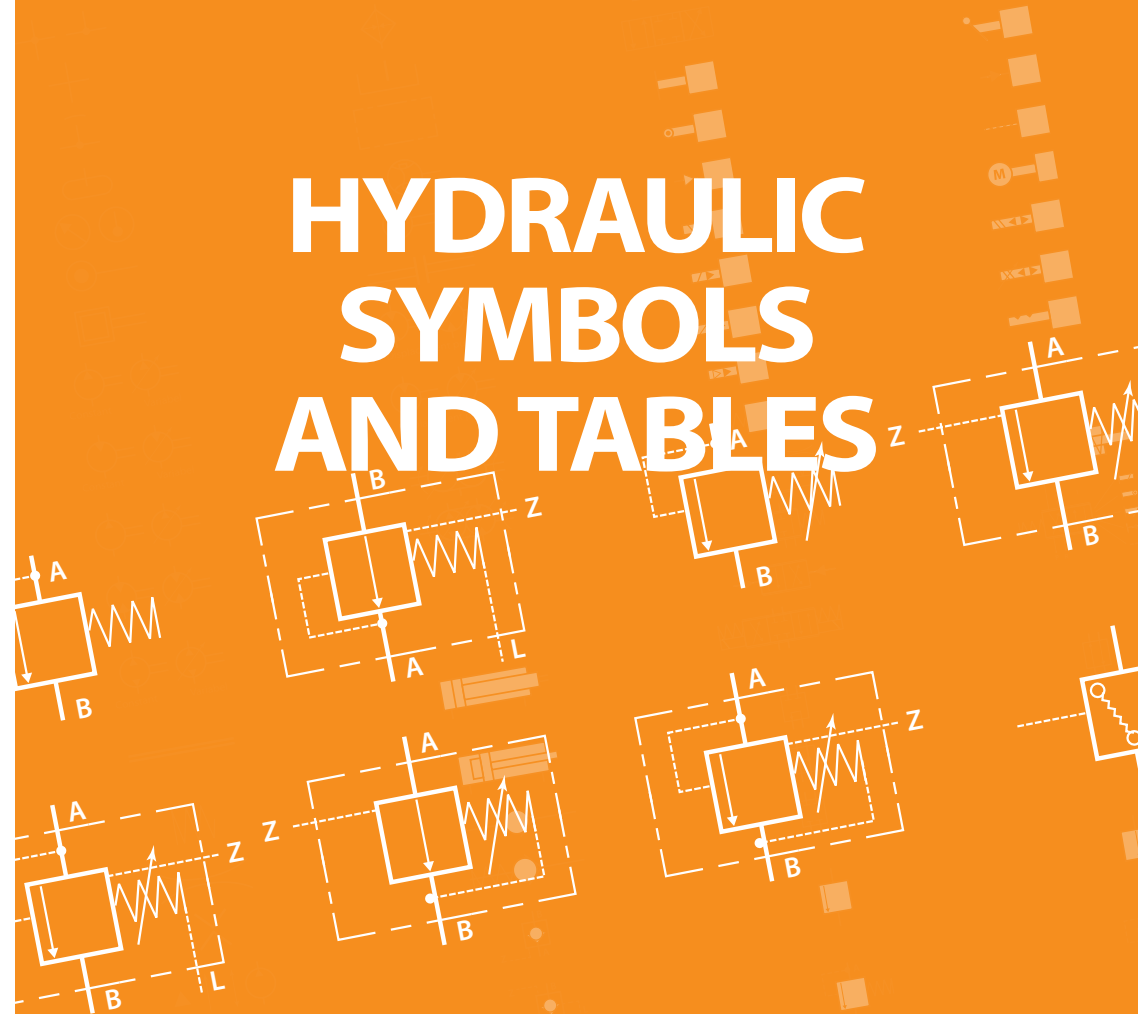
Model	Size	Partnumber
SPV	20	MH - 33526
SPV	21	MH - 33528
SPV	22	MH - 33538
SPV	23	MH - 39414
SPV	24	MH - 33544
SPV	25	MH - 33546

Seal kit - Sauer

Parts used for: SMF

Model	Size	Partnumber
SMF	20	MH - 33594
SMF	21	MH - 33596
SMF	22	MH - 33598
SMF	23	MH - 33602
SMF	24	MH - 33604
SMF	25	MH - 34139

HYDRAULIC SYMBOLS AND TABLES



MH
HYDRAULICS
HYDRAULIC REPAIR SOLUTIONS

Symbols and Tables

q	=	Displacement	: cm ²
n	=	Revolutions	: min ⁻¹
p	=	Pressure	: bar
Δp	=	Pressure drop	: bar
Q	=	Oil capacity	: l/min = dm ³ /min
v	=	Speed	: m/s
L	=	Length	: m
D	=	Piston diameter	: mm
d	=	Piston rod diameter	: mm
D	=	Bore of pipe	: mm
Dih	=	Hydraulic diameter	: mm
t	=	Time	: s
m	=	Volume	: kg
F	=	Force	: daN
M	=	Torque	: Nm
P	=	Power	: kW
As	=	Break load	: daN
E	=	Elasticity Module	: kp/cm ²
l	=	Free column length	: m
S	=	Safety factor	
v	=	Kinematic viscosity	: mm ² /s
ηv	=	Volumetric efficiency	
ηm	=	Mechanical efficiency	
ηt	=	Total efficiency	
λ	=	Resistance figure	
V^{ac}	=	Accumulator Size	
Vx	=	Required oil capacity available in accumulator	
P₁	=	Lowest oil pressure	
P₂	=	Highest oil pressure	
P₀	=	Pre-charge	

Ratio factors

Power	1 kW	= 1,36Hp	Volume	1 US gallon	= 3,785 liter
	1 Hp	= 75 kpm/s		1 Eng. Gallon	= 4,546 liter
Torque	1 kpm	= 9,81 Nm		1 in ³	= 16,38 cm ³
		= 7,233 lbf ft		1 liter	= 1,0 dm ³
	1 Nm	= 0,102 kpm	Area	1 in ²	= 645,2 mm ²
Pressure	1 kp/cm ²	= 98.000 Pa		1 foot ²	= 92900 mm ²
		= 0,981 bar	Speed	1 km/h	= 0,2778 m/s
		= 9,81 N/cm ²		1 foot/s	= 0,3048 m/s
		= 14,22 psi		1 mile/h	= 0,447 m/s
	1 psi	= 0,06895 bar	Acceleration	1 foot/s ²	= 0,3048 m/s ²
		= 0,0703 kp/cm ²	Length	1 in	= 25,4 mm
	1 bar	= 1,0194 kp/cm ²		1 foot	= 0,3048 m
				1 yd	= 0,9144 m

Pump

Power consumption	$N_{an} = \frac{Q \times p}{600 \times \eta t}$	[kW]
Supplied oil capacity	$Q = \frac{q \times n \times \eta v}{1000}$	[l/min]
Input torque	$M = \frac{q \times p}{62,8 \times \eta m}$	[Nm]

Motor

Oil consumption (l/min)	$Q = \frac{q \times n}{1000 \times \eta v}$	
Output torque	$M = \frac{q \times \Delta p \times \eta m}{62,8}$	[Nm]
Output power	$N = \frac{Q \times \Delta p \times \eta t}{600}$	[kW]
Speed	$n = \frac{Q \times \eta v \times 1000}{q}$	[min ⁻¹]

Cylinder

$$\text{Compressive force} \quad F = p \times A \times \eta m \quad [\text{daN}]$$

$$\text{Tensile force} \quad F = p \times a \times \eta m \quad [\text{daN}]$$

$$\text{Speed out} \quad v = \frac{Q \times \eta v}{6 \times A} \quad [\text{m/s}]$$

$$\text{Speed in} \quad v = \frac{Q \times \eta v}{6 \times a} \quad [\text{m/s}]$$

$$\text{Oil consumption out} \quad Q = \frac{A \times v \times 6}{2^v} \quad [\text{l/min}]$$

$$\text{Oil consumption in} \quad Q = \frac{a \times v \times 6}{2^v} \quad [\text{l/min}]$$

$$\text{Compressive force with differential cut-in} \quad F = P \times (A-a) \times \eta m \quad [\text{daN}]$$

Tube

$$\text{Flow speed } v \quad \frac{Q \times 100}{6 \times D^2 \times 0,785} \quad [\text{m/s}]$$

$$\text{Pressure loads in straight pipe leads } \Delta p \quad \frac{\lambda \times L \times 0,89 \times v^2 \times 5}{D_i} \quad [\text{bar}]$$

$$\text{Resistance number } \lambda \quad \frac{64}{Re} \quad \lambda_{\text{turb.}} = \frac{0,316}{4\sqrt{Re}}$$

$$\text{Reynolds number } Re \quad \frac{v \times D_h \times 1000}{\nu}$$

Accumulator size

$$\text{With slow charging and slow discharging } V_{ac} = \frac{V_x \times \frac{P_1}{P_0}}{1 - \frac{P_1}{P_2}}$$

$$\text{With quick charging and quick discharging } V_{ac} = \frac{V_x \times \frac{P_1}{P_0}}{1 - \frac{P_1}{P_2} \times \frac{1}{1,5}}$$

$$\text{With slow charging and quick discharging } V_{ac} = \frac{V_x \times \frac{P_2}{P_0}}{\frac{P_2}{P_1} \times \frac{1}{1,5} - 1}$$

ISO/CETOP SYMBOLS

Work line		Pressure connection w. plug	
Pilot line		With line connection	
Drain line		Quick coupling w. check valve	
Electric line		Accumulator	
Flexible line		Filter	
Line connections		Cooler	
Crossing lines		Heater	
Venting		Reservoir open	
Reservoir pressurized		Enclosure for several components in one unit	
Manometer, Thermometer		Flow meter	
Pressure source		Electromotor	
Combustion engine		Coupling	
1 Flow direction	 Constant Variabel	2 Flow directions	 Displacement pump
1 Flow direction	 Constant Variabel	2 Flow directions	 Displacement pump

Combined pump-motors		Hydrostatic transmission	
	 Constant Variabel		
Shaft, lever, rod, piston		Differential cylinder	
Spring		Cylinder with cushion	
Throttling, depending on viscosity		Check valve, not spring loaded	
Restriction, not viscosity influenced		Spring loaded	
Flow direction		Pilot controlled check valve	
Direction of rotation		Pilot controlled opening	
Variable setting		Example	
Restrictor, fixed		Simplified	
Restrictor, variable		Restrictor not viscosity influenced	
Throttle-check valve		3-way by-pass flow regulator	

Flow-divider		With transient intermitted pos.	
Directional valves Basic symbol		Mechanical feedback	
Hand operated		Lever	
Roller		Hydraulic operated	
Pneumatic operated		Direct pressure	
Solenoid		Motor operated	
Solenoid hydraulic operated		PVEO	
PVEM		PVEH	
Pneumatic Hydraulic operated		Mechanical lock	
Spring return			

Examples			
Solenoid		Direct pressure	
Mechanical		Pressure rise	
Roller			
Normally closed		Normally open	
Pressure limiting valve, fixed setting		Pressure limiting valve, variable	
Pilot operated, external drain line		Internal drain	
Pressure reduction line		Pilot controlled opening valve	
Pilot controlled closing valve		Pressure switch	

BAR - PSI CONVERSION TABLE											
1-40		41-80		81-200		205-500		510-900		910-1500	
psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar
1.00	0.07	41.00	2.83	81.00	5.59	205.00	14.13	510.00	35.17	910.00	62.76
2.00	0.14	42.00	2.90	82.00	5.65	210.00	14.48	520.00	35.86	920.00	63.45
3.00	0.21	43.00	2.97	83.00	5.72	215.00	14.82	530.00	36.55	930.00	64.14
4.00	0.28	44.00	3.03	84.00	5.79	220.00	15.17	540.00	37.24	940.00	64.83
5.00	0.34	45.00	3.10	85.00	5.86	225.00	15.51	550.00	37.92	950.00	65.52
6.00	0.41	46.00	3.17	86.00	5.93	230.00	15.86	560.00	38.62	960.00	66.21
7.00	0.48	47.00	3.24	87.00	6.00	235.00	16.20	570.00	39.31	970.00	66.90
8.00	0.55	48.00	3.31	88.00	6.07	240.00	16.55	580.00	40.00	980.00	67.59
9.00	0.62	49.00	3.38	89.00	6.14	245.00	16.89	590.00	40.69	990.00	68.28
10.00	0.69	50.00	3.45	90.00	6.21	250.00	17.24	600.00	41.37	1000.00	68.95
11.00	0.76	51.00	3.52	91.00	6.27	255.00	17.58	610.00	42.07	1010.00	69.66
12.00	0.83	52.00	3.59	92.00	6.34	260.00	17.93	620.00	42.76	1020.00	70.34
13.00	0.90	53.00	3.65	93.00	6.41	265.00	18.27	630.00	43.45	1030.00	71.03
14.00	0.97	54.00	3.72	94.00	6.48	270.00	18.62	640.00	44.14	1040.00	71.72
15.00	1.03	55.00	3.79	95.00	6.55	275.00	18.96	650.00	44.82	1050.00	72.41
16.00	1.10	56.00	3.86	96.00	6.62	280.00	19.31	660.00	45.52	1060.00	73.10
17.00	1.17	57.00	3.93	97.00	6.69	285.00	19.65	670.00	46.21	1070.00	73.79
18.00	1.24	58.00	4.00	98.00	6.76	290.00	20.20	680.00	43.90	1080.00	74.48
19.00	1.31	59.00	4.07	99.00	6.83	295.00	20.34	690.00	47.59	1090.00	75.17
20.00	1.38	60.00	4.14	100.00	6.90	300.00	20.69	700.00	48.27	1100.00	75.86
21.00	1.45	61.00	4.21	105.00	7.24	310.00	21.37	710.00	48.97	1120.00	77.24
22.00	1.52	62.00	4.28	110.00	7.58	320.00	22.06	720.00	49.66	1140.00	78.62
23.00	1.59	63.00	4.34	115.00	7.93	330.00	22.75	730.00	50.34	1160.00	80.00
24.00	1.65	64.00	4.41	120.00	8.27	340.00	23.44	740.00	51.03	1180.00	81.38
25.00	1.72	65.00	4.48	125.00	8.62	350.00	24.13	750.00	51.71	1200.00	82.76
26.00	1.79	66.00	4.55	130.00	8.89	360.00	24.82	760.00	52.41	1220.00	84.14
27.00	1.86	67.00	4.62	135.00	9.31	370.00	25.51	770.00	53.10	1240.00	85.52
28.00	1.93	68.00	4.69	140.00	9.65	380.00	26.21	780.00	53.79	1260.00	86.90
29.00	2.00	69.00	4.76	145.00	10.10	390.00	26.89	790.00	54.48	1280.00	88.28
30.00	2.07	70.00	4.83	150.00	10.34	400.00	27.85	800.00	55.16	1300.00	89.66
31.00	2.14	71.00	4.90	155.00	10.69	410.00	28.27	810.00	55.86	1320.00	91.03
32.00	2.21	72.00	4.97	160.00	11.03	420.00	28.96	820.00	56.55	1340.00	92.41
33.00	2.28	73.00	5.03	165.00	11.38	430.00	29.65	830.00	57.24	1360.00	93.79
34.00	2.34	74.00	5.10	170.00	11.72	440.00	30.34	840.00	57.93	1380.00	95.17
35.00	2.41	75.00	5.17	175.00	12.07	450.00	31.03	850.00	58.61	1400.00	96.55
36.00	2.48	76.00	5.24	180.00	12.41	460.00	31.72	860.00	59.31	1420.00	97.93
37.00	2.55	77.00	5.31	185.00	12.76	470.00	32.41	870.00	60.00	1440.00	99.31
38.00	2.62	78.00	5.38	190.00	13.10	480.00	33.10	880.00	60.69	1460.00	100.69
39.00	2.69	79.00	5.45	195.00	13.45	490.00	33.79	890.00	61.38	1480.00	102.07
40.00	2.76	80.00	5.52	200.00	13.79	500.00	34.48	900.00	62.06	1500.00	103.45

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- 68 Barrel - Hydro-Gigant (Bronze)
Parts used for models: 12, 16, 20, 32, 40, 50
- 68 Barrel - Bosch Rexroth (Brueninghaus)
Parts used for models: 716, 732, 740, 750 - 481 - 900
- 68 Center pin - Bosch Rexroth (Brueninghaus)
Parts used for models: 31E, 71E, 125E, 250E
- 68 Piston - Bosch Rexroth (Brueninghaus)
Parts used for models: 31E, 71E, 125E, 250, 716, 740

Bosch Rexroth (various older type, models and brands)

- 69 Barrel - Bosch Rexroth (Brueninghaus)
Parts used for models: 31E, 71E, 125E, 250E
- 69 Port plate - Bosch Rexroth (Brueninghaus)
Parts used for models: 31E, 71E, 125E, 250E

Linde various parts

- 72 Piston - Linde
Parts used for models: PV - 2PV - B2PV - MF-BMF - BMR
- 72 Model B2PV35 other parts
- 72 Model B2PV50 other parts
- 72 Model B2PV75 other parts
- 72 Model B2PV105 other parts
- 72 Model BPR 186 other parts
- 72 Model BPR 260 other parts

Linde various parts

- 73 Model BPV35 other parts
- 73 Model BPV50 other parts
- 73 Model BPV70 other parts
- 73 Model BPV100 other parts
- 73 Model BPV200 other parts
- 73 Model HPR100 other parts

Linde various parts

- 74 Model HPR130 other parts
- 74 Model HPR160 other parts
- 74 Model HPV130 other parts

Liebherr

- 76 Port plate - Liebherr
Parts used for: LPVD

- 76 Port plate - Liebherr
Parts used for: LPVD
- 76 Port plate - Liebherr
Parts used for: LMV
- 76 Barrel BIMETAL - Liebherr
Parts used for: LPVD & LMV
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- 77 Retainer plate - Liebherr
Parts used for: LPVD & LMV
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Parts used for: LPVD & LMV

Kawasaki

- 81 Rotary - Kawasaki
Parts used for: K3V
- 81 Piston - Kawasaki
Parts used for: K3V
- 81 Cylinder - Kawasaki
Parts used for: K3V **only in combination with port plate**
- 82 Port plate - Kawasaki
Parts used for: K3V **only in combination with cylinder**
- 82 Set plate - Kawasaki
Parts used for: K3V
- 82 Spherical bush - Kawasaki
Parts used for: K3V
- 82 Shoe plate - Kawasaki
Parts used for: K3V
- 83 Coil spring - Kawasaki
Parts used for: K3V
- 83 Shaft - Kawasaki
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Kawasaki

- 87 Rotary - Kawasaki
Parts used for: K5V
- 87 Piston - Kawasaki
Parts used for: K5V
- 87 Cylinder - Kawasaki
Parts used for: K5V **only in combination with port plate**
- 87 Port plate - Kawasaki
Parts used for: K5V **only in combination with cylinder**
- 88 Set plate - Kawasaki
Parts used for: K5V
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- 88 Shoe plate - Kawasaki
Parts used for: K5V
- 88 Coil spring - Kawasaki
Parts used for: K5V

Vickers

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- 90 Shaft
- 90 Seal kit
- 90 Pump

Vickers

- 90 Cartridge
- 90 Shaft
- 90 Seal kit
- 90 Pump

Sauer parts for spv-smf & Series 90

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- 96 Barrel - Sauer
Parts used for: 90
- 96 Port plate - Sauer
Parts used for: 90
- 96 Retainer plate - Sauer
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- 96 Retainer guide - Sauer
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- 97 Shaft - Sauer
Parts used for: 90
- 97 Kit - Barrel + pistons + retainer plate - Sauer
Parts used for: 90

Sauer parts for SPV-SMF

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Parts used for: SPV & SMF
- 97 Barrel - Sauer
Parts used for: SPV & SMF
- 98 Port plate - Sauer
Parts used for: SPV & SMF
- 98 Retainer ball - Sauer
Parts used for: SPV & SMF
- 98 Retainer plate - Sauer
Parts used for: SPV & SMF
- 99 Bearing plate - Sauer
Parts used for: SPV & SMF
- 99 Thrust plate - Sauer
Parts used for: SPV & SMF
- 99 Chargepump - Sauer
Parts used for: SPV & SMF
- 99 Mechanical seal - Sauer
Parts used for: SPV & SMF
- 99 Seal kit - Sauer
Parts used for: SPV
- 100 Seal kit - Sauer
Parts used for: SMF

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