



SPOOL LIST L90LS (eSyber/Spool Select)

Information for Spool List

- Spool = Code used in configurations.
- Part # = Ordering no.
- Eps A-B = Pressure drop ratio, Epsilon, work port A to work port B.
- Eps B-A = Pressure drop ratio, Epsilon, work port B to work port A.
- Nom flow A = Nominal flow from work port A when compensator K is used.
- Nom flow B = Nominal flow from work port B when compensator K is used.
- Boost func. = Either A, B or both sides.
- Application = The first application spool is used in.
- Machine function = The first machine function spool is used/designed for.
- Remark = Please read carefully.

Spools with spool function CA

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
BCB BCX	6760339 6760340	6	0,9	93	65		Harvester	Tele	As RH, but with lower epsilon.
BWH	6763147	3,8	0,29	101	63				Can only be combined with A111.
RHB RHX RHH	393000S348 393000S350 393000S469	6	1,8	93	63				
TCB TCX TCH	393000S484 393000S486 393000S502	3,7	0,3	69	50				
YNB YNX YNH	393000S993 393000S995 393000S996	9,5	1,8	98	63				Designed for lifting of load in regenerative position.



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function CA

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
CTH	6763707	7	1,75	98	57		Forest crane	2 nd boom	
GDB GDY	6763901 6763900	7,2	0,65	58	35		Side loader	Beam cylinder	

Spools with spool function CAX (Contact MCDE before ordering)

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
BAB BAX	6760365 6760366	3,8	0,3	101	63	B	Harvester	Tele	
BGB BGX	6760442 6760443	30	1,5	95	63		Forwarder	Jib	
LPB LPX	393000U193 393000U194	4,8	2	62	64	A	Forrest crane	Outer boom	
UEB UEX	393000S830 393000S832	3,8	0,8	101	63	B			
ZRB ZRX	393000S290 393000S291	8	1,5	91	63		Forwarder	Jib	
CRB CRX	6763704 6763703	6,5	0,5	101	82	B	Forwarder	Extension	

Spools with spool function CB

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
ARH	6760173	1,5	7,2	64	98				CB spool, mirror of YNH. Can only be combined with A111.



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Spools with spool function **CB**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
YVH	6763207	1,5	7,2	64	98				Same as ARH but with standard spool stud.



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function **CBX**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
RZH	6763223	0,3	3,8	115	101				CBT spool, mirror of BWH. Can only be combined with A111.

Spools with spool function **CBT**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
CLH	6763377	0,29	3,8	75	87	A	Forest crane	Extension	Function adapted spool. Boost on A-side for increasing flow capacity.

Spools with spool function **D**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
AOH	6760171	1,5	0,6	94	91				AS RDH + A111.
APH	6760172	3,3	3,3	16	16				As KLH + A111.
ASH	6760174	8,8	8,8	44	44				Can only be combined with A111.
ATH	6760175	2,9	2,9	32	32				Can only be combined with A111.
AUH	6760176	4,2	1,3	101	99				Can only be combined with A111.



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Spools with spool function D

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
BJA	6760500	0,2	0,2	48	48				
BJB	6760501								
BJD	6760499								
BJX	6760502								
BKH	6760503	9	8,6	69	67		Forest Crane	Slew	As TOH + A111.
BSX	6760959								Spare for M250 only.
CJA	6763333	31	29	56	42		Demolition robot	Parallel	
CJB	6763334								
CJD	6763335								
CJX	6763336								
CKA	6763337	24	5,8	27	27		Demolition robot	Parallel	
CKB	6763338								
CKD	6763339								
CKX	6763340								
KAA	393000S298	1,3	1,3	24	24				
KAB	393000S299								
KAD	393000S297								
KAX	393000S346								
KAH	393000S639								
KBA	393000S352	3,3	3,3	24	24				
KBB	393000S353								
KBD	393000S354								
KBX	393000S355								
KBH	393000S356								



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function D

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
KCA	393000S302	4,1	4,1	32	32				
KCB	393000S303								
KCD	393000S301								
KCX	393000S304								
KCH	393000S357								
KDA	393000S306	18,8	1,4	32	32				
KDB	393000S307								
KDD	393000S305								
KDX	393000S308								
KLA	393000S330	3,2	3,2	17	17				
KLB	393000S331								
KLD	393000S329								
KLX	393000S332								
KLH	393000S504								
KSA	393000S542	2,3	0,7	32	32				
KSB	393000S543								
KSD	393000S544								
KSX	393000S545								
KSH	393000S631								
KTA	393000S554	7,4	7,4	32	32				
KTB	393000S555								
KTD	393000S556								
KTD+A027	393000B556								
KTX	393000S557								
KTH	393000S635								



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function D

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
KUA KUB KUD KUX	393000S518 393000S519 393000S520 393000S521	5,5	5,5	16	16				
KVA KVB KVD KVX	6760919 6760920 6760921 6760922	23,0	11,0	27	27				
KWA KWB KWD KWX	6760923 6760924 6760925 6760926	31,0	11,0	27	27				
KXH	6763169	1,25	4,2	99	101				Can only be combined with A111.
LBA LBB LBD LBX	393000U080 393000U081 393000U082 393000U083	8,3	0,7	80	51				
LCA LCB LCD LCX	393000U084 393000U085 393000U086 393000U087	1,1	1	55	37				
LDA LDB LDD LDX	393000U088 393000U089 393000U090 393000U091	4,7	0,3	59	52				



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Spools with spool function D

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
LEA	393000U092	6,7	0,1	75	36				
LEB	393000U093								
LED	393000U094								
LEX	393000U095								
LFA	393000U096	1,2	2,3	64	46				
LFB	393000U097								
LFD	393000U098								
LFX	393000U099								
LZA	393000S249	9,6	1,4	85	89				
LZB	393000S250								
LZD	393000S251								
LZX	393000S252								
LZX+A063	393000U252								
MAA	393000S212	8,2	8,2	44	44				
MAB	393000S213								
MAD	393000S211								
MAD+A027	393000B211								
MAX	393000S214								
MAH	393000S385								
MBA	393000S216	2,5	2,5	44	44				
MBB	393000S217								
MBD	393000S215								
MBX	393000S218								
MBH	393000S621								



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Spools with spool function D

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
MCA	393000S387	1,8	0,7	69	67				
MCB	393000S388								
MCD	393000S389								
MCX	393000S390								
MCH	393000S391								
MDA	393000S314	0,6	0,6	44	44				
MDB	393000S315								
MDD	393000S313								
MDX	393000S316								
MDH	393000S392								
MHA	393000S322	2,0	1,6	67	35				
MHB	393000S323								
MHD	393000S321								
MHX	393000S324								
MHH	393000S623								
MMA	393000S398	4,3	4,1	69	67				
MMB	393000S399								
MMD	393000S401								
MMX	393000S402								
MMH	393000S403								
MOA	393000S405	4,2	4,2	45	45				
MOB	393000S406								
MOD	393000S407								
MOX	393000S408								
MOH	393000S620								



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Spools with spool function D

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
MSA	393000S425	2,2	2,1	69	67				
MSB	393000S426								
MSB+A027	6760664								
MSD	393000S427								
MSX	393000S428								
MSH	393000S532								
MWH	6763146	2,05	2,2	67	69				Can only be combined with A111.
RAA	393000S460	13,7	0,4	94	95				
RAB	393000S461								
RAB+A027	393000U461								
RAD	393000S462								
RAD+A027	393000U462								
RAX	393000S463								
RAH	393000S464								
RCA	393000S224	4,8	4,4	95	91				
RCB	393000S225								
RCD	393000S223								
RCX	393000S226								
RCH	393000S670								
RDA	393000S228	1,5	0,8	94	91				
RDB	393000S229								
RDB+A027	6763190								
RDD	393000S227								
RDX	393000S230								
RDH	393000S618								



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Spools with spool function D

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
RKA	393000S487	0,9	0,8	94	91				
RKB	393000S488								
RKD	393000S489								
RKX	393000S490								
RKH	393000S660								
RYA	393000S612	4,6	0,8	95	91				
RYB	393000S613								
RYB+A027	6760661								
RYD	393000S614								
RYX	393000S615								
RYH	393000S672								
TDA	393000S546	17,9	1,3	44	44				
TDB	393000S547								
TDD	393000S548								
TDX	393000S549								
TEA	393000S533	18,5	1,2	69	67				
TEB	393000S534								
TED	393000S535								
TEX	393000S536								
TEH	393000S661								
TOA	393000S527	9	8,6	69	67				
TOB	393000S528								
TOD	393000S526								
TOD+A027	393000B526								
TOX	393000S529								
TOH	393000S617								



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Spools with spool function D

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
TRA	393000S681	4	5,2	45	34				
TRB	393000S682								
TRD	393000S683								
TRX	393000S684								
TRH	393000S692								
TS*									Replaced by TR*.
UMA	393000S873	7,2	1,1	96	94				
UMB	393000S874								
UMD	393000S875								
UMX	393000S876								
URA	393000S881	4,7	1,2	97	96				
URB	393000S882								
URD	393000S883								
URX	393000S884								
UTA	393000S862	1,5	7,9	97	68				
UTB	393000S863								
UTD	393000S864								
UTX	393000S865								
UYA	393000S888	33,5	4,3	92	71				
UYA+A027	393000B888								
UYB	393000S889								
UYB+A027	393000B889								
UYD	393000S890								
UYX	393000S891								
UZA	6763220	120	0,02	95	11				
UZX	6763221								



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Spools with spool function D

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
ZGA ZGB ZGD ZGD+A027 ZGX	393000U550 393000U551 393000S417 393000B417 393000U208	6,8	6,8	7	7				
CGA CGB CGD CGX	6763390 6763391 6763392 6763393	1,75	0,7	69	67				A240
CHA CHB CHD CHX	6763329 6763330 6763331 6763332	62	2	47	34		Demolition robot	Boom	
COX COA COB COD	6763499 6763500 6763501 6763502	1,6	0,8	95	94		Back hoe loader	Loader boom	
CYX CYA CYB CYD	6763725 6763722 6763723 6763724	16,5	9,2	53	41		Demolition robot	Boom	
CWX CWA CWB CWD	6763721 6763718 6763719 6763720	45	1,9	42	30		Demolition robot	Parallell	
CVH	6763711	0,5	13,5	51	92		Forest crane Z	Outer boom	



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function D

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
GAA	6763746	1,7	0,4	69	67		Side loader	Pendel	
GAB	6763747								
GAD	6763748								
GAX	6763745								
GFX	6763902	3	3	73	73		Wood chipper	Feed rollers	

Spools with spool function D1A

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
TYA	393000S734	6,8	6,3	67	48				
TYB	393000S735								
TYD	393000S736								
TYX	393000S737								
TYH	393000S738								



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function D1B

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
TUA	393000S739	6,4	7,1	48	68				
TUB	393000S740								
TUD	393000S731								
TUX	393000S732								
TUH	393000S733								

Spools with spool function D2

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
AWD	6760187	2,4	13,7	70	94		Backhoe	Boom lift	Lift as ZLA, lowering PBAT as RA spool.
CFA	6763313	1,3	17,9	44	44		Harvester crane	Boom	Function adapted spool. Designed to lift in work port A.
LNA	393000U138	14,6	5,4	88	91		Harvester crane	Parallel boom	Area relationship must be >1.
LWD	393000S246	13,7	0,9	94	91		Excavator	Boom	
ZLA	393000U222	2,3	33,5	70	92		Harvester crane	Parallel boom	Area relationship must be >1.



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function D2X

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
YGA	393000S935	1,3	17,5	83	99	B	Harvester crane	Parallel boom	Area relationship must be >1.

Spools with spool function D4

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
YRA	393000U006	9	8,6	69	67				
YRB	393000U007								
YRD	393000U008								
YRD+A027	393000U018								
YRX	393000U009								
YSA	393000U010	8,6	8,6	44	44				
YSB	393000U011								
YSD	393000U012								
YSD+A027	393000B012								
YSX	393000U013								



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function Da

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
LLA	393000U130	19,5	1,2	69	67				
LLB	393000U131								
LLD	393000U132								
LLX	393000U133								

Spools with spool function Da1

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
RNA	393000S706	5,8	4,7	68	90				
RNB	393000S707								
RND	393000S708								
RNX	393000S709								
RNH	393000S724								
RTA	393000S775	3	5,7	50	88				
RTB	393000S776								
RTD	393000S774								
RTX	393000S777								
RTH	393000S802								
TMA	393000S714	5,3	4,3	32	45				
TMB	393000S715								
TMD	393000S716								
TMX	393000S717								
YUA	393000U026	2,6	9,9	32	67				
YUB	393000U027								
YUD	393000U028								



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function Da1

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
YUX	393000U029								

Spools with spool function Db

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
ZVA	393000U347	0,9	0,8	94	91				
ZVB	393000U348								
ZVD	393000U349								
ZVX	393000U350								

Spools with spool function Db1

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
MYA	393000S510	6,9	6,6	67	49				
MYB	393000S511								
MYD	393000S512								
MYX	393000S513								
MYH	393000S506								
RSA	393000S677	6	5,4	105	68				
RSB	393000S678								
RSD	393000S679								
RSX	393000S680								
RSH	393000S722								
TKA	393000S673	4,3	5,3	45	32				
TKB	393000S674								



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function Db1

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
TKD TKX	393000S675 393000S676								
YWA YWB YWD YWX	393000U030 393000U031 393000U032 393000U033	10	2,6	67	32				

Spools with spool function Dm

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
AKX	393000S619	1,2	1,2	44	44		Forest harvester	Tilt	As MU, but with leakage grooves of 5,2 mm ² .
BOA BOB BOD BOX	6760917 6760918 6760916 6760915	0,2	0,2	48	48				
KHA KHB KHD KHX	393000S579 393000S580 393000S581 393000S582	3,3	3,3	24	24				
KJA KJB KJD KJX KJH	393000S583 393000S584 393000S585 393000S586 393000S663	3,2	3,2	32	32				



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function Dm

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
KMH	393000S641	4	4	16	16				No longer an option for closed spool actuators. Replaced by spool YL.
LOA LOA+A027 LOB LOD LOX	393000U163 393000B163 393000U164 393000U165 393000U166	3,7	3,7	8	8				
MRA MRB MRD MRX MRH	393000S420 393000S421 393000S422 393000S423 393000S644	4,5	4,5	44	44				
MTA MTB MTD MTX MTH	393000S587 393000S588 393000S589 393000S590 393000S645	7,3	7,3	44	44				
MUA MUB MUD MUX MUH	393000S591 393000S592 393000S593 393000S594 393000S664	2,5	2,5	44	44				



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function Dm

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
MVA	393000S710	8,3	1,8	65	45				
MVB	393000S711								
MVD	393000S712								
MVX	393000S713								
MVH	393000S723								
RRA	393000S595	5,5	5	95	91				
RRB	393000S596								
RRD	393000S597								
RRX	393000S598								
RRH	393000S671								
TPA	393000S575	4,2	4,2	69	67				
TPB	393000S576								
TPD	393000S577								
TPX	393000S578								
TPH	393000S691								
UXA	6761042	1,5	7,9	97	68				
UXB	6761045								
UXD	6761060								
UXX	6761061								
YLA	393000S949	4,8	4,8	16	16				Compare with spool ZK.
YLB	393000S950								
YLD	393000S951								
Y LX	393000S952								



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function DmX

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
GJX	6764060	8,3	1,8	65	45		Fork lift		

Spools with spool function Dm1

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
YDA	393000S912	3,8	6,2	44	32				
YDB	393000S913								
YDD	393000S914								
YDX	393000S911								
ZKA	393000U216	4,8	4,8	16	16				Same as YL, but with leakage grooves 50% smaller than standard.
ZKB	393000U217								
ZKD	393000U218								
ZKX	393000U219								

Spools with spool function DP

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
AMB+A108	6760235	0	0,3	0	17		Harvester		Overlap: 1,0 mm.
ANB+A108	6760234	0	0,3	0	17		Harvester		Overlap: 0,5 mm.
AXB+A108	6760248	0	0,2	0	17		Harvester	Knives	Overlap: 0,5 mm.
AYX	6763438	0	1,2	0	59		Harvester	Feeding	Overlap: 0,5 mm.
AYB+A108	6761031								
AYB+A109	6760249								
BMB	6760530	0	0,3	0	17		Harvester	Knives	Overlap: 1,5 mm.



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function DP

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
BMB+A108 BMB+A109 BMX	6760521 6760529 6760522								
CDB+A108 CDB+A109 CDX	6763274 6763856 6763277	0	0,3	0	17		Harvester	Knives	Overlap 0,5 mm.
CEB+A108 CEX	6763275 6763278	0	0,3	0	17		Harvester	Knives	Overlap 1,0 mm
CMB+A108 CMB+A109 CMX	6763494 6763495 6763496	0	1,2	0	59		Harvester	Knives	Overlap 1,5 mm

Spools with spool function DS

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
BDD BDD+A027 BDX	6763280 6760341 6763281	5,4	5,1	73	71		Harvester	Slew	
GBD GBD+A027 GBX	6763845 6763846 6763842	5,3	5,3	50	50		Forwarder	Slew	
GEX GEA GEB GED GED+A027	6763908 6763909 6763910 6763911 6763912	5,4	5,4	42	42		Forwarder	Slew	



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function DS

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
BZH	6763150	9	8,6	69	67				Can only be combined with A111.
CND CND+A027 CNX	6763437 6763444 6763434	6	6	90	90		Forwarder	Slew	

Spools with spool function DS4

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
BRD BRD+A027 BRX	6760603 6760631 6760604	6,9	6,9	69	69				
YTA YTB YTD YTX	393000U014 393000U015 393000U016 393000U017	7,8	7,8	34	34				

Spools with spool function DT

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
AEH	393000S570	1,8	1,7	96	92	Both		Boom	

Spools with spool function DTm



SPOOL LIST L90LS (eSyber/Spool Select)

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
ZJH ZJX	393000U213 393000U256	1,7	1,5	89	85	Both		Boom	



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function **DX** (Contact MCDE before ordering)

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
ABX	393000U408	4,3	4,1	69	67		Forwarder	Boom	
ADD ADA ADB ADX	393000U566 393000U567 393000U568 393000U569	1,3	1,3	94	94		Harvester head	Feed rollers	Very soft control at start and stop, good retardation capability. Compare RK.
AJX	393000S610	2,6	2,6	44	44		Wheel loader	Steering	Increased clearance between spool and bore.
BEX	6760411	2,2	2	70	67		Wheel loader	Steering	Increased clearance between spool and bore.
BPA BPB BPD BPX	6760597 6760598 6760596 6760599	2,1	1,9	71	69		Wheel loader	Steering	Increased clearance between spool and bore. Shorter overlap.
BTX	6760873	4,0	4,0	51	51				
BUX	6761037	0	0	35	80			Extra	Never open to tank, only flow P-A.
BVB BVX	6763101 6763102	1	0,1	13	115				
KYH	6763172	1	0,1	13	98				Can only be combined with A111.
KZH	6763173	0,1	1	98	13				Can only be combined with A111.



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function **DX** (Contact MCDE before ordering)

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
LAA LAB LAB+A027 LAD LAX	393000U048 393000U049 6760651 393000U050 393000U051	15	1,6	95	72		Harvester crane	Parallel boom	Area relationship must be <1.
LHA LHB LHD LHX	393000U102 393000U103 393000U104 393000U105	5	5	95	91		Drill rig	Feeding	Short overlap B-port to Tank.
LSA LSB LSD LSX	6760967 6760968 6760969 6760970	30	1,5	95	72		Harvester crane	Parallel boom	Area relationship must be <1.
LYX LYX+A063	393000S253 393000U253	1,2	7,8	81	71		Excavator	Boom	
UBA UBB UBD UBX	393000S808 393000S809 393000S810 393000S811	1,4	1,3	95	91				Open full area service ports to tank.
UCA UCB UCD UCX	393000S813 393000S814 393000S812 393000S815	5,8	5,8	22	22			Slew	Function = DS but with extended overlap.
UDA UDB UDD UDX	393000S818 393000S819 393000S820 393000S821	1,1	2,1	114	67				Service port B not for lowering load.



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function **DX** (Contact MCDE before ordering)

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
UHX	393000S844	5,5	5	95	91				Dm spool with high damped LS-signal.
UJX UJX+A065	393000S845 393000S259	0,5	0,5	94	91				D spool with high damped LS-signal.
UKX	393000S846	1,5	7	97	69				D spool with high damped LS-signal.
UPA UPB UPD UPD+A027 UPX	393000S877 393000S878 393000S879 393000B879 393000S880	5,3	5	96	94			Slew	
UUA UUB UUD UUX	393000S866 393000S867 393000S868 393000S869	1,2	1,5	101	85	A			
YCX	393000S906	1,8	1,7	69	67				D spool with high damped LS-signal.
YMX	393000S958	3,2	3,2	17	17				D-spool with damped LS-signal.
YYA YYB YYD YYX	393000U040 393000U041 393000U042 393000U043	6	5,4	105	68				
ZEX	393000U197	0,7	0,7	95	91		Refuse vehicle	Packer plate	
ZOX	393000U258	1,1	1,1	114	114		Wheel loader	Extra	Not for load.
ZPA	393000U261	1,1	1	101	85	A	Forest crane	Boom	



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function **DX** (Contact MCDE before ordering)

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
ZPB ZPD ZPX	393000U264 393000U273 393000U274								
ZUX	6760137	1,2	1,5	101	85	A	Telehandler	Boom, Tele	As UU but with drainage both A and B to tank.
ZYA ZYB ZYD ZYD+A027 ZYG	393000U395 393000U396 393000U357 6760829 393000U404	4,3	3,3	45	24		Drill rig	Lifting	
GCX	6763894	N/A	N/A	91	91		Skidder	Cooling	
GGX	6764058	4,8	4,4	95	91		Fork lift		
GHX	6764059	0,2	0,2	48	48		Fork lift		

Spools with spool function **EA**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
AGA AGX	393000U591 393000U592	8	0	94	0				As RE but with better controllability at lowering, neutral compensation = same speed for heavy and light loads.
AHA AHX	393000U616 393000U615	6,6	0	94	0				Only in combination with variant A218.
BXH	6763148	6,6	0	95	0				Can only be combined with A111.



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function EA

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
KOA KOX KOH	393000S375 393000S378 393000S642	8,4	0	24	0				
KPA KPA+A027 KPX KPH	393000S380 393000B380 393000S383 393000S630	7,4	0	32	0				
KRA KRX KRH	393000S540 393000S541 393000S665	8,9	0	16	0				
MNA MNA+A027 MNX MNH	393000S317 393000B317 393000S318 393000S629	8,7	0	44	0				
REA REA+A027 REX REH	393000S231 393000U231 393000S232 393000S636	6,6	0	95	0		Forklift	Lift	Slightly under compensated lowering = heavier load-higher speed. Compare AG.
TBA TBX TBH	393000S415 393000S418 393000S637	9,9	0	69	0				Compare spool LR*.
YKA YKX	393000S947 393000S948	1	0	94	0				
CSA CSX	6763706 6763705	12,5	0	95	0		Forwarder	1:st boom	



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function EA2

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
AAA	393000U407	8	0	95	0		Forest crane	Lift	Better pressure compensated at lowering than YBA.
LRA	393000U171	9,9	0	69	0				Same as spool TB* but with mechanical pressure feedback.
YBA	393000S886	8	0	95	0				
ZTA	393000U341	9,5	0	50	0		Forwarder	Lift	

Spools with spool function EAP

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
AVX	6763306	0	0	0	0		Harvester	Frame lock	

Spools with spool function EAT

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
ULA	393000S829	2,2	0	98	0	A			
ULA+A027	6760662								
ULX	393000S831								



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function **EAX**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
ZHA ZHX	393000U092 393000U210	0,9	0	94	0		Forklift	Lift	EA-spool, as RE but with lower pressure drop M-T, NB.!! Can not handle loads at higher flows. Aimed to be used in combination with 'lowering brake' valve, which would limit the flow to max 120 l/min.

Spools with spool function **EB**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
BYH	6763149	0	6	0	91				Can only be combined with A111.
RLB RLX RLH	393000S550 393000S551 393000S503	0	6	0	91				
TJB TJX TJH	393000S552 393000S553 393000S501	0	9,4	0	67				
TTB TTX TTH	393000S719 393000S721 393000S726	0	8,7	0	44				



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function **EBX**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
UFX	6763371	0	8,7	0	44				Connection tank and Workport A is closed. Standard EB spool has open connection.

Spools with spool function **FX** (Contact MCDE before ordering)

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
AFX	393000U590	0,7	0,7	20	20		Forwarder	Bogie lift	Same as ZSX but bigger flow in float position.
ALX	393000U626	1,8	19	17	17		Harvester Head	Tilt	Area A>T constant 3,4 mm ² . Eps B gradually increasing.
BBX	6760328	1,8	0,9	17	37		Harvester head	Tilt	D-function after 3,5 mm for both sides. PBAT common D-function. LS-signal out after 2,8 mm stroke.
BFX	6760441	0,7	1,1	20	37		Forest harvester	Tilt	Float function between 0,5-3,5 mm spools stroke in both directions. Open pump to work port after 4 mm spool stroke.



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function **FX** (Contact MCDE before ordering)

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
BHX	6760490	1,1	22	26	34		Forest harvester	Tilt	Float function between 1-3 mm spools stroke in both directions. Open pump to work port after 3,5 mm spool stroke.
LMX	393000U137	1,1	1,1	10	10				D-spool with float position (F).
ZNX	393000U257	2,9	1	19	10				
ZSX	393000U309	1,8	1,4	17	17		Harvester head	Tilt / rotator	Same as LMX but bigger flow.
CPX	6763595	8	5	83	43		Harvester head	Tilt	When activating P-A: Float mode between pilot pressure 4,0-8,9 bar with standard springpack. After 9,7 bar P-A, B-T opens (normal D-function). Float mode is optimized around 6,4 bar.

Spools with spool function **M**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
BNH	6760545	0	0	91	95				As RJH + A111.
KEA	393000S310	0	0	32	32				
KEB	393000S311								
KED	393000S309								
KEX	393000S312								
KEH	393000S622								



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function **M**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
KKA	393000S326	0	0	16	16				
KKB	393000S327								
KKD	393000S325								
KKX	393000S328								
KKH	393000S658								
KNA	393000S370	0	0	24	24				
KNB	393000S371								
KND	393000S372								
KNX	393000S373								
KNH	393000S659								
MLA	393000S393	0	0	69	67				
MLB	393000S394								
MLD	393000S395								
MLX	393000S396								
MLH	393000S628								
MPA	393000S410	0	0	44	44				
MPB	393000S411								
MPD	393000S412								
MPX	393000S413								
MPH	393000S643								
RJA	393000S470	0	0	95	91				
RJB	393000S471								
RJD	393000S472								
RJX	393000S473								
RJH	393000S646								



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function **M**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
CZA	6763726	0	0	7	7				
CZB	6763727								
CZD	6763728								
CZX	6763729								

Spools with spool function **MAX**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
LVX	6763314	1	0	114	114		Dump truck	Suspension	Custom and function adapted spool.

Spools with spool function **MB**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
RBA	393000S220	0	0,8	95	91				
RBB	393000S221								
RBD	393000S219								
RBX	393000S222								
RBH	393000S669								

Spools with spool function **MBX (Contact MCDE before ordering)**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
YFB	393000S929	0	1,5	101	85	A			



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function **MBX** (Contact MCDE before ordering)

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
YFX	393000S931								

Spools with spool function **MP**

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
AZB+A108	6760828	0	0	0	17		Harvester Head	Saw	Overlap: 0,5 mm.
AZB+A109	6760250								
CCB+A108	6763276	0	0	0	17		Harvester Head	Saw	Customer adapted spool
CCX	6763279								

Spools with spool function **MX** (Contact MCDE before ordering)

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
BLX	6760506	0,5	0,2	80	51		Harvester		
LGX	393000U101	0	0	36	36				M spool with damped LS-signal.
LTX	393000U236	0	0	95	91				M spool with damped LS-signal. Compare spool RJ.
RFx	6763325	0	0	95	93				Functional adapted M-spool. Compare spool RJ.



SPOOL LIST L90LS (eSyber/Spool Select)

Spools with spool function XX

Spool	Part #	Eps A-B	Eps B-A	Nom flow A	Nom flow B	Boost func.	Application	Machine function	Remark
TZX	6763289	1	1	73	73			Fan drive	Customer adapted spool. This spool only operates in neutral position and in workport B.
CUX	6763717	2,4	0,3	65	67		Harvester head	Tilt	