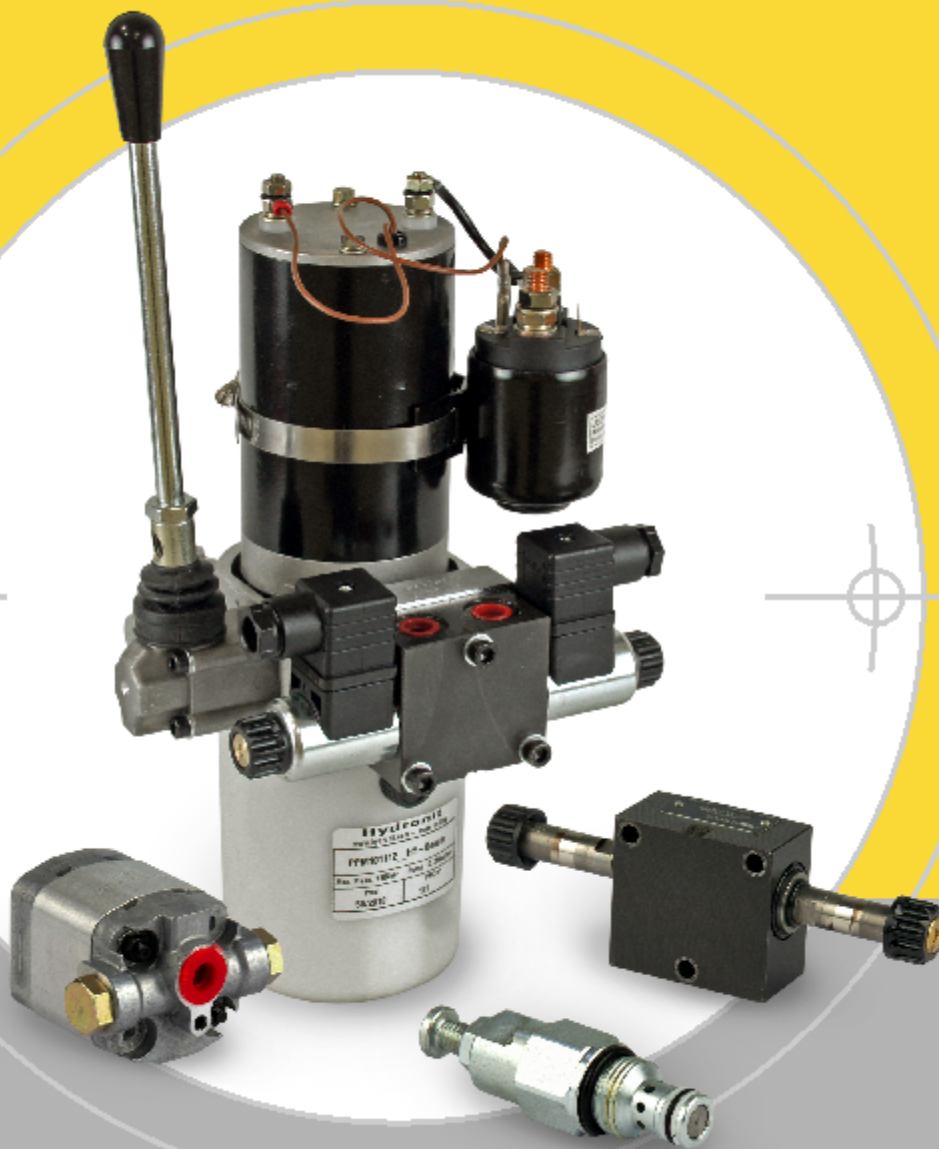


Hydronit



**2012
AC & DC Hydraulic
Power Packs MICRO**

AC & DC electric motors

Section A

DC motors

0,15 12DC_T	12VDC motor - 150W - Ø 80 + thermal switch
0,15 24DC_T	24VDC motor - 150W - Ø 80 + thermal switch
0,5 12DC	12VDC motor - 500W - Ø 80
0,5 24DC	24VDC motor - 500W - Ø 80
0,5 12DC_T	12VDC motor - 500W - Ø 80 + thermal switch
0,5 24DC_T	24VDC motor - 500W - Ø 80 + thermal switch
0,8 12DC	12VDC motor - 800W - Ø 80
0,8 24DC	24VDC motor - 800W - Ø 80
0,8 12DC_T	12VDC motor - 800W - Ø 80 + thermal switch
0,8 24DC_T	24VDC motor - 800W - Ø 80 + thermal switch
1,6 12DC_T	12VDC motor - 1600W - Ø 114 + thermal switch
2,1 12DC_T	12VDC motor - 2100W - Ø 114 + thermal switch
2,2 24DC_T	24VDC motor - 2200W - Ø 114 + thermal switch



AC motors: three-phase 4 poles (~1450 rpm at 50Hz)

N037AC341S3	integral motor 0,37kW 3-ph 4-pole 220/380V 50/60Hz frame 71
N055AC341S3	integral motor 0,55kW 3-ph 4-pole 220/380V 50/60Hz frame 71
N075AC341S3	integral motor 0,75kW 3-ph 4-pole 220/380V 50/60Hz frame 71



AC motors: single-phase 4 poles (~1450 rpm at 50Hz)

N037ACS41S3	integral motor 0,37kW 1-ph 4-pole 220V 50Hz frame 71
N055ACS41S3	integral motor 0,55kW 1-ph 4-pole 220V 50Hz frame 71

2 pole and special execution motors (High starting torque, high IP, with thermal protector,... available on request)

No motor: B14 Flange + coupling kit

NB14 63	mounting kit for B14 motors frame 63
NB14 71	mounting kit for B14 motors frame 71



Electric motors options

DC motor options

S150 12DC 80	starting relay 12VDC 150A with mounting kit for Ø 80 motors
S150 24DC 80	starting relay 24VDC 150A with mounting kit for Ø 80 motors
S150 12DC 112	starting relay 12VDC 150A with mounting kit for Ø 114 motors
S150 24DC 112	starting relay 24VDC 150A with mounting kit for Ø 114 motors



QUICK SELECTION GUIDE

Micro central manifold

Section B

International execution (1/4" BSP exit ports)

MB	Micro PPM B type body with 4 lateral cavities
MR	Micro PPM R type body for reversible circuits
M4	Micro PPM 4-way type body for 4 way cartridge valves

USA execution (SAE 06 exit ports)

MBUS	Micro PPM B type body with 4 lateral cavities US execution
MRUS	Micro PPM R type body for reversible circuits US execution
M4US	Micro PPM 4-way type body for 4 way cartridge valves US execution



Gear Pumps

Section C

Standard gear pumps

GM0,1	gear pump group 0 – 0,19 cc/rev
KM0,2	gear pump group 0 – 0,26 cc/rev
KM0,4	gear pump group 0 – 0,38 cc/rev
KM0,6	gear pump group 0 – 0,64 cc/rev
KM0,9	gear pump group 0 – 0,88 cc/rev
KM1,3	gear pump group 0 – 1,25 cc/rev
KM1,5	gear pump group 0 – 1,54 cc/rev
KM1,9	gear pump group 0 – 1,9 cc/rev

Bi-directional gear pumps

RM0,1	reversible gear pump group 0 - 0,19 cc/rev
RM0,2	Reversible gear pump group 0 - 0,26 cc/rev
RM0,4	reversible gear pump - 0,38cc/rev
RM0,6	reversible gear pump - 0,63 cc/rev
RM0,9	reversible gear pump - 0,88cc/rev
RM1,3	reversible gear pump - 1,25cc/rev
RM1,5	reversible gear pump - 1,5cc/rev



Integral components: Cavity 0

Section D

Components in central manifold cavity 0

JM	check valve ball type 5/8-18 UNF
ML	plug 5/8-18UNF basic



Integral components: Cavity 1

Components in central manifold cavity 1

DM_60	relief valve M14 - 10÷60 bar - socket screw adjustment
DM_280	relief valve M14 - 35÷280 bar - socket screw adjustment
XM	plug for relief valve cavity M14



Integral components: Cavity 2

Components in central manifold cavity 2

X	open cavity – no valve
A	NC solenoid 2/2 way 3/4-16UNF poppet valve
B	NC solenoid 2/2 way 3/4-16UNF poppet valve with emergency
C	NO solenoid 2/2 way 3/4-16UNF poppet valve with emergency
D	NC solenoid 2/2 way 3/4-16UNF double poppet valve with emergency
E	lever operated 2/2 way valve without micro-switch
EM	lever operated 2/2 way valve with micro-switch
Z	2 way emergency button valve
S	flow control valve 3/4-16UNF with screw
T12DC	proportional flow control valve poppet type 15l/min 315 bar + coil 12VDC ED100%
T24DC	proportional flow control valve poppet type 15l/min 315 bar + coil 24VDC ED100%
U	hand pump 3/4-16UNF 2 cc/stroke + suction/return line pipe 1/4" BSP 370mm
G	closed plug 3/4-16UNF
H	plug 3/4-16UNF with 1/4" BSPP exit port
N	plug 3/4-16UNF open passage with 1/4" BSPP exit port
P	plug 3/4-16UNF passing through 1/4" BSPP
L	plug 3/4-16UNF basic
J	check valve ball type 3/4-16UNF
4VA11C	4/2 way solenoid directional valve, closed center transient (only for M4 manifolds)
4VA2	4/3 way solenoid directional valve, center P to T (only for M4 manifolds)
4VB2	4/3 way solenoid directional valve, closed center (only for M4 manifolds)
4VC2	4/3 way solenoid directional valve, H center (only for M4 manifolds)
4VE2	4/3 way solenoid directional valve, center A-B to T (only for M4 manifolds)
JP	check valve poppet type 5/8-18 UNF (only for MR central manifolds)
MG	Closed plug 5/8-18UNF (only for MR central manifolds)

Cavity 2 option

V-CSB	handwheel for CSB/CSU
EM9001C	pressure gauge shut-off valve 90° F-F + nipples M 1/4" BSPP – M 1/4" BSPP
EMIL01C	pressure gauge shut-off valve F-F + nipples M 1/4" BSPP – M 1/4" BSPP
F401**	pressure switch 1/4" BSPP where ** = max setting pressure (050-100-200-400 bar)
MIR63**EM	pressure gauge Ø63 where ** = max press. (60-160-250-315 bar) + shut-off valve 90°

Cavity 2 valve coil

12DC_M130	Coil 12V DC 18W ED75% for MSV30-31 + Electric connector DIN 43650-A
24DC_M130	Coil 24V DC 18W ED75% for MSV30-31 + Electric connector DIN 43650-A
24RAC_M130	Coil 24V DC 18W ED75% for MSV30-31 + El. connector with rectifier 12-24V
115_50AC_M130	Coil 115V/50Hz AC 28VA ED75% only for MSV30 + El. connector DIN 43650-A
230_50AC_M130	Coil 230V/50Hz AC 28VA ED75% only for MSV30 + El. connector DIN 43650-A
110RAC_M130	Coil 110V RAC 18W ED75% for MSV30-31 + El. connector with rectifier 115 V
220RAC_M130	Coil 220V RAC 18W ED75% for MSV30-31 + El. connector with rectifier 230 V



QUICK SELECTION GUIDE

Cavity 2 valve coil

12DC_M140	Coil 12V DC 22W ED100% for MSV-MDV + Electric connector DIN 43650-A
24DC_M140	Coil 24V DC 22W ED100% for MSV-MDV + Electric connector DIN 43650-A
24RAC_M140	Coil 24V DC 22W ED100% for MSV-MDV + El. connector with rectifier 12-24 V
110RAC_M140	Coil 110V RAC 22W ED100% for MSV-MDV + El. connector with rectifier 115 V
220RAC_M140	Coil 220V RAC 22W ED100% for MSV-MDV + El. connector with rectifier 230 V
12DC_M630	coil 12V DC ED100% for cartridge valves + Electric connector DIN 43650-A
24DC_M630	coil 24V DC ED100% for cartridge valves + Electric connector DIN 43650-A
24AC_M631	coil 24V AC ED100% for cartridge valves + integrated rectifier + Electric connector
115AC_M631	coil 115V AC ED100% for cartridge valves + integrated rectifier + Electric connector
230AC_M631	coil 230V AC ED100% for cartridge valves + integrated rectifier + Electric connector



Integral components: Cavity 3

Components in central manifold cavity 3

F02	fixed pressure compensated flow control valve 3/4-16UNF hole 0,8mm
F03	fixed pressure compensated flow control valve 3/4-16UNF hole 1mm
F04	fixed pressure compensated flow control valve 3/4-16UNF hole 1,25mm
F05	fixed pressure compensated flow control valve 3/4-16UNF hole 1,5mm
F06	fixed pressure compensated flow control valve 3/4-16UNF hole 1,75mm
F07	fixed pressure compensated flow control valve 3/4-16UNF hole 2mm
F09	fixed pressure compensated flow control valve 3/4-16UNF hole 2,5mm
F11	fixed pressure compensated flow control valve 3/4-16UNF hole 3mm
F13	fixed pressure compensated flow control valve 3/4-16UNF hole 3,5mm
F15	fixed pressure compensated flow control valve 3/4-16UNF hole 4mm
R2	compensated flow control valve 3/4-16UNF with screw 1 ÷ 2,2 l/min
R3	compensated flow control valve 3/4-16UNF with screw 1,6 ÷ 4 l/min
R4	compensated flow control valve 3/4-16UNF with screw 2,5 ÷ 5 l/min
R5	compensated flow control valve 3/4-16UNF with screw 3 ÷ 7 l/min
R6	compensated flow control valve 3/4-16UNF with screw 4,9 ÷ 10,8 l/min
R7	compensated flow control valve 3/4-16UNF with screw 8 ÷ 18,5 l/min
S	flow control valve 3/4-16UNF with screw
Z	2 way emergency button valve
AR	NC solenoid 2/2 way 3/4-16UNF poppet valve, reversible flow
BR	NC solenoid 2/2 way 3/4-16UNF poppet valve with emergency, reversible flow
CR	NO solenoid 2/2 way 3/4-16UNF poppet valve with emergency, reversible flow
D	NC solenoid 2/2 way 3/4-16UNF double poppet valve with emergency
J	check valve ball type 3/4-16UNF
G	closed plug 3/4-16UNF
H	plug 3/4-16UNF with 1/4"BSPP exit port
N	plug 3/4-16UNF open passage with 1/4"BSPP exit port
P	plug 3/4-16UNF passing through 1/4"BSPP
L	plug 3/4-16UNF basic
P**12DC	proportional relief valve 3/4-16UNF 12VDC where ** = max pressure (60-210 bar)
P**24DC	proportional relief valve 3/4-16UNF 24VDC where ** = max pressure (60-210 bar)
V**	relief valve 3/4-16UNF where ** = max pressure (110-250-350 bar) - socket screw
JP	check valve poppet type 5/8-18 UNF (only for MR central manifolds)
MG	Closed plug 5/8-18UNF (only for MR central manifolds)



QUICK SELECTION GUIDE

Cavity 3 option

V-CSB	handwheel for CSB/CSU
2	handwheel M8 for VMDC35/VMDC20/VCF6 valves
EM9001C	pressure gauge shut-off valve 90° F-F + nipples M 1/4" BSPP – M 1/4" BSPP
EMIL01C	pressure gauge shut-off valve F-F + nipples M 1/4" BSPP – M 1/4" BSPP
F401**	pressure switch 1/4" BSPP where ** = max setting pressure (050-100-200-400 bar)
MIR63**EM	pressure gauge Ø63 where ** = max press. (60-160-250-315 bar) + shut-off valve 90°



Cavity 3 valve coil voltage

12DC_M130	Coil 12V DC 18W ED75% for MSV30-31 + Electric connector DIN 43650-A
24DC_M130	Coil 24V DC 18W ED75% for MSV30-31 + Electric connector DIN 43650-A
24RAC_M130	Coil 24V DC 18W ED75% for MSV30-31 + El. connector with rectifier 12-24 V
115_50AC_M130	Coil 115V/50Hz AC 28VA ED75% only for MSV30 + Electric connector DIN 43650-A
230_50AC_M130	Coil 230V/50Hz AC 28VA ED75% only for MSV30 + Electric connector DIN 43650-A
110RAC_M130	Coil 110V RAC 18W ED75% for MSV30-31 + El. connector with rectifier 115 V
220RAC_M130	Coil 220V RAC 18W ED75% for MSV30-31 + El. connector with rectifier 230 V
12DC_M140	Coil 12V DC 22W ED100% for MSV-MDV + Electric connector DIN 43650-A
24DC_M140	Coil 24V DC 22W ED100% for MSV-MDV + Electric connector DIN 43650-A
24RAC_M140	Coil 24V DC 22W ED100% for MSV-MDV + El. connector with rectifier 12-24 V
110RAC_M140	Coil 110V RAC 22W ED100% for MSV-MDV + El. connector with rectifier 115 V
220RAC_M140	Coil 220V RAC 22W ED100% for MSV-MDV + El. connector with rectifier 230 V



Integral components: Cavity 4

Component in central manifold cavity 4 (only for MR central manifold)

DM_60	relief valve M14 - 10÷60 bar - socket screw adjustment
DM_280	relief valve M14 - 35÷280 bar - socket screw adjustment
XM	plug for relief valve cavity M14



Flow restrictor in central manifold cavity 5

Flow restrictor in central manifold cavity 5

PLUGTCE01	1/4" BSPP plug with copper washer
PP01370	suction/return line pipe 1/4"BSP 370mm
RETURN-KIT	1/4" BSP holder for SF12 + flexible plastic pipe 12 mm for return line / price per meter
C34200001	return line tank immersed filter
1(01)	fixed pressure compensated flow control valve 1/4"BSP 1l/min
2(01)	fixed pressure compensated flow control valve 1/4"BSP 2l/min
3(01)	fixed pressure compensated flow control valve 1/4"BSP 3l/min
4(01)	fixed pressure compensated flow control valve 1/4"BSP 4l/min
5(01)	fixed pressure compensated flow control valve 1/4"BSP 5l/min
6(01)	fixed pressure compensated flow control valve 1/4"BSP 6l/min
8(01)	fixed pressure compensated flow control valve 1/4"BSP 8l/min
10(01)	fixed pressure compensated flow control valve 1/4"BSP 10l/min
12(01)	fixed pressure compensated flow control valve 1/4"BSP 12l/min
15(01)	fixed pressure compensated flow control valve 1/4"BSP 15l/min



Flow restrictor in central manifold cavity 7

Flow restrictor in central manifold cavity 7

0(04)	closed plug Ø 12,7
1(04)	fixed pressure compensated flow control valve Ø 12,7 with o-ring 1l/min
2(04)	fixed pressure compensated flow control valve Ø 12,7 with o-ring 2l/min
3(04)	fixed pressure compensated flow control valve Ø 12,7 with o-ring 3l/min
4(04)	fixed pressure compensated flow control valve Ø 12,7 with o-ring 4l/min
5(04)	fixed pressure compensated flow control valve Ø 12,7 with o-ring 5l/min
6(04)	fixed pressure compensated flow control valve Ø 12,7 with o-ring 6l/min
8(04)	fixed pressure compensated flow control valve Ø 12,7 with o-ring 8l/min
10(04)	fixed pressure compensated flow control valve Ø 12,7 with o-ring 10l/min
12(04)	fixed pressure compensated flow control valve Ø 12,7 with o-ring 12l/min
15(04)	fixed pressure compensated flow control valve Ø 12,7 with o-ring 15l/min
PIL5818	pilot Ø 12,7 for PO check valve 5/8-18UNF VUC10C
PIL5818DIF	pilot Ø 12,7 for PO check valve 5/8-18UNF VUC10C + valve for differential cylinders



Flow restrictor in central manifold cavity 8

Flow restrictor in central manifold cavity 8

PLUGTCE01	1/4" BSPP plug with copper washer
PP01370	suction/return line pipe 1/4"BSP 370mm
RETURN-KIT	1/4" BSP holder for SF12 + flexible plastic pipe 12 mm for return line / price per meter
C34200001	return line tank immersed filter
1(01)	fixed pressure compensated flow control valve 1/4"BSP 1l/min
2(01)	fixed pressure compensated flow control valve 1/4"BSP 2l/min
3(01)	fixed pressure compensated flow control valve 1/4"BSP 3l/min
4(01)	fixed pressure compensated flow control valve 1/4"BSP 4l/min
5(01)	fixed pressure compensated flow control valve 1/4"BSP 5l/min
6(01)	fixed pressure compensated flow control valve 1/4"BSP 6l/min
8(01)	fixed pressure compensated flow control valve 1/4"BSP 8l/min
10(01)	fixed pressure compensated flow control valve 1/4"BSP 10l/min
12(01)	fixed pressure compensated flow control valve 1/4"BSP 12l/min
15(01)	fixed pressure compensated flow control valve 1/4"BSP 15l/min



QUICK SELECTION GUIDE

Tanks

Steel tanks

0,7F	0,7l cylindrical steel horizontal mounting tank + 3/8"BSPP std filler & breather plug
0,7FV	0,7l cylindrical steel vertical mounting tank + 3/8"BSPP std filler & breather plug
1,2F	1,2l cylindrical steel horizontal mounting tank + 3/8"BSPP std filler & breather plug
1,2FV	1,2l cylindrical steel vertical mounting tank + 3/8"BSPP std filler & breather plug
1,7H	1,7l cylindrical steel horizontal mounting tank + 3/8"BSPP std filler & breather plug
1,7HV	1,7l cylindrical steel vertical mounting tank + 3/8"BSPP std filler & breather plug
2,4H	2,4l cylindrical steel horizontal mounting tank + 3/8"BSPP std filler & breather plug
2,4HV	2,4l cylindrical steel vertical mounting tank + 3/8"BSPP std filler & breather plug
F80000012	steel tank adapter for PPM - to be welded on custom made tanks

Plastic tanks

0,4R	0,4l plastic horizontal mounting tank + 1/4"BSPP std filler & breather plug
0,4RV	0,4l plastic vertical mounting tank + 1/4"BSPP std filler & breather plug
0,7R	0,7l plastic horizontal mounting tank + 1/4"BSPP std filler & breather plug
0,7RV	0,7l plastic vertical mounting tank + 1/4"BSPP std filler & breather plug
1,2R	1,2l plastic horizontal mounting tank + 1/4"BSPP std filler & breather plug
1,2RV	1,2l plastic vertical mounting tank + 1/4"BSPP std filler & breather plug

Section E



Accessories

Accessories

E60543003	foot mounting support (45mm height)
MIR63**	pressure gauge Ø63 where ** = max press. (60-160-250-315 bar)
EM9001C	pressure gauge shut-off valve 90° F-F + nipples M 1/4" BSPP – M 1/4" BSPP
EMIL01C	pressure gauge shut-off valve F-F + nipples M 1/4" BSPP – M 1/4" BSPP
F16000001	plastic Ø112-114 DC motor protection cover
F401**	pressure switch 1/4" BSPP where ** = max setting pressure (050-100-200-400 bar)
P0201	remote up/down control with 3m flying cable for single/double acting cylinder
P0202	Remote 4 buttons control with 3m flying cable for 2 double acting cylinders
VPC00	electronic PWM driver for proportional valves 12/24VDC
BFCSAE0801	in-line manifolds for 3/4-16UNF valves 1/4" BSPP ports
BFCSAE0802	in-line manifolds for 3/4-16UNF valves 3/8" BSPP ports

Section F



External manifolds

External manifolds

M60403004	23mm spacer subplate
M60403005	90° rotation manifold
M60403010(US)	NG3 MICRO parallel block - 1/4" BSPP lateral ports (opt. US execution with SAE ports)
M60413002(US)	NG3 MICRO manifold with piloted check valve on A (opt. US execution with SAE ports)
M60413001(US)	NG3 MICRO manifold with piloted check valve on A & B (opt. US exec. with SAE ports)
M60413003(US)	NG3 MICRO manifold with piloted check valve on B (opt. US execution with SAE ports)
M50403007	PPM to SD01 stackable valves converter manifold
PM09M	hand pump 8,8 cc/stroke modular manifold



External valves

Section G

External valves

SD00A11C	NG3 MICRO solenoid directional valve 4 way, 2 positions
SD00A2	NG3 MICRO solenoid directional valve 4 way, 3 pos. center P to T
SD00B2	NG3 MICRO solenoid directional valve 4 way, 3 pos. closed center
SD00C2	NG3 MICRO solenoid directional valve 4 way, 3 pos. H center
SD00E2	NG3 MICRO solenoid directional valve 4 way, 3 pos. center A-B to T
SD01A11C	Stackable solenoid directional valve 4 way, 2 positions
SD01A2	Stackable solenoid directional valve 4 way, 3 pos. center P to T
SD01B2	Stackable solenoid directional valve 4 way, 3 pos. closed center
SD01C2	Stackable solenoid directional valve 4 way, 3 pos. H center
SD01E2	Stackable solenoid directional valve 4 way, 3 pos. center A-B to T
SD01A11CC	Stackable solenoid directional valve 4 way, 2 positions, stack top closed
SD01A2C	Stackable solenoid directional valve 4 way, 3 pos. center P to T, stack top closed
SD01B2C	Stackable solenoid directional valve 4 way, 3 pos. closed center, stack top closed
SD01C2C	Stackable solenoid directional valve 4 way, 3 pos. H center, stack top closed
SD01E2C	Stackable solenoid directional valve 4 way, 3 pos. center A-B to T, stack top closed



External SD00 valves coils

12DC_M100	coil 12V DC 16W ED100% + Electric connector DIN 43650-A
24DC_M100	coil 24V DC 16W ED100% + Electric connector DIN 43650-A



External SD01 valves coils

12DC_M120	coil 12V DC 22W ED100% + Electric connector DIN 43650-A
24DC_M120	coil 24V DC 22W ED100% + Electric connector DIN 43650-A
24RAC_M120	coil 24V DC 22W ED100% + El. conn. with rectifier 12-24 V black pg11
220RAC_M120	coil 220V RAC 26W ED100% + El. conn. with rectifier 230 V black pg11

