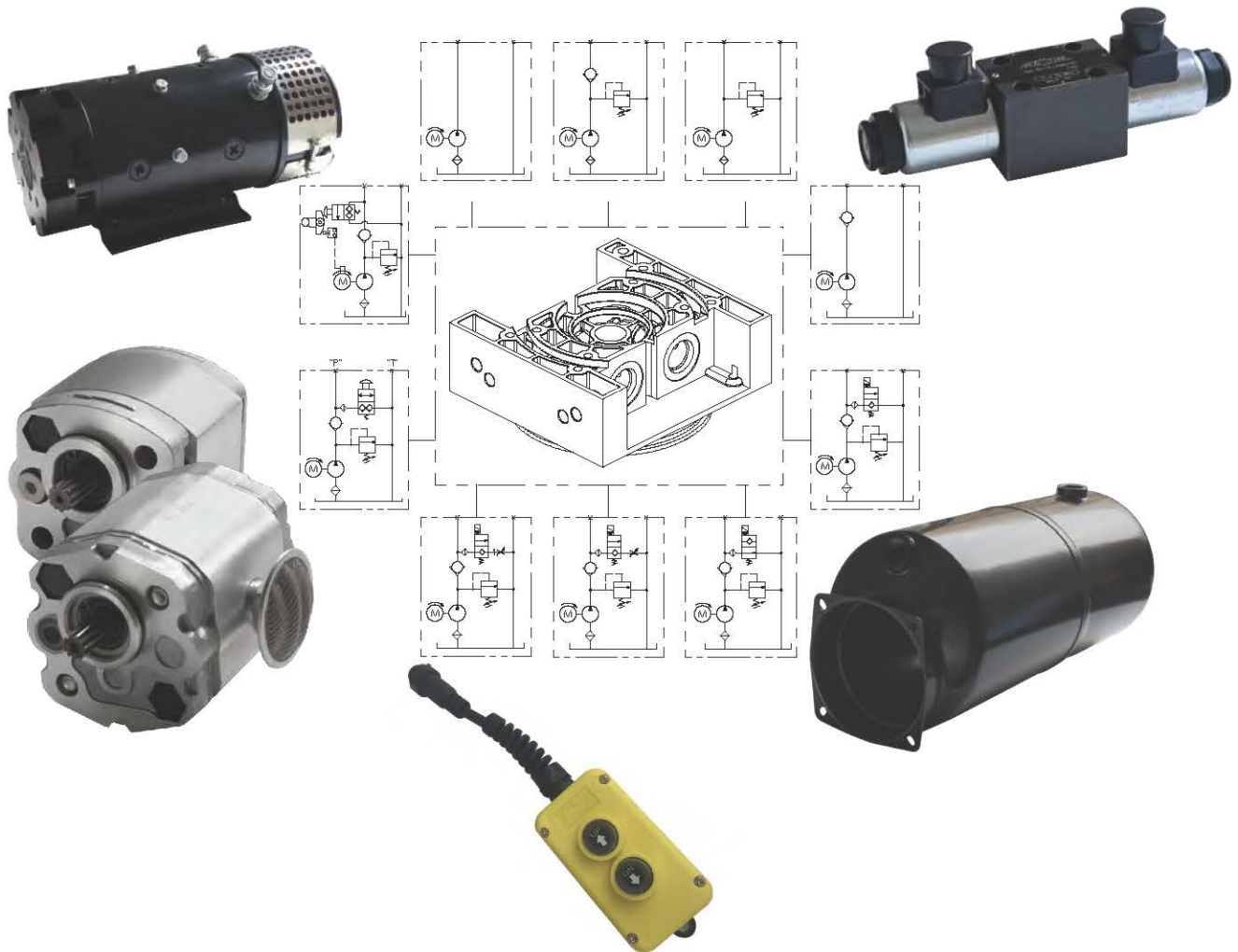


FEATURES OVERVIEW

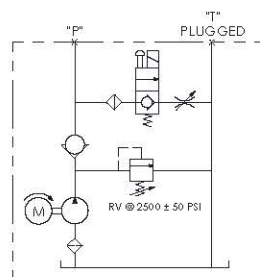
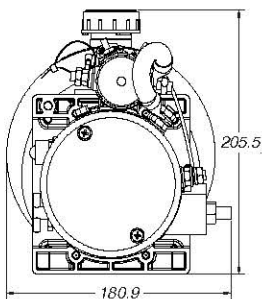
- Fully customisable with over 20 circuit options
- Available in 12/24v Dc and 240/415v AC
- 19 “off the shelf” reservoir options
- Heavy duty or high power fan cooled DC motor options
- Manual Override standard on single acting packs
- “Plug and Play” remote pendant options

PRODUCT OVERVIEW

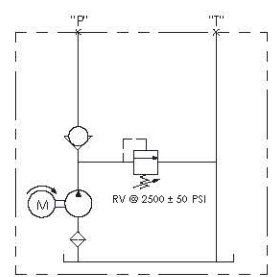
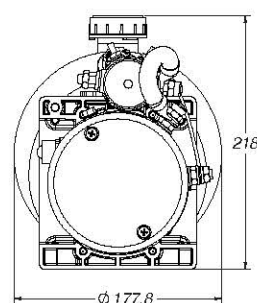
PRODUCT	PAGE NUMBER
<i>Pre built “off the shelf” 12/24v power packs</i>	4-5
<i>Custom build power pack build code</i>	6-7
<i>DC motors</i>	8
<i>Start solenoids</i>	9
<i>Pressure balanced gear pumps</i>	10
<i>Manifold circuit options</i>	11-13
<i>Steel reservoirs</i>	14-16
<i>Plastic reservoirs</i>	17
<i>Remote pendants and wiring looms</i>	18-20
<i>Cetop 3 and stackable valve manifolds</i>	21

FEATURES AND BENEFITS

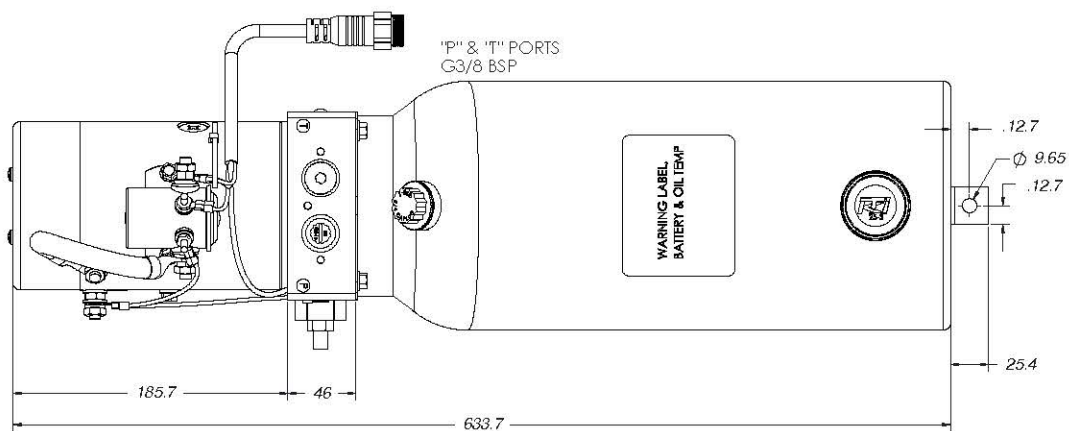
- Off the shelf products
- Extended duty motors
- 200 amp continuously rated start solenoid as standard
- Solenoid cover for weather protection
- 19 Different tank sizes available
- Manual Override standard on single acting packs
- Adjustable lowering flow control valve fitted as standard on single acting packs
- Flying lead as standard for single acting packs, ensures easy optional pendant connection



Single Acting Circuit



P & T Circuit



Single Acting Unit shown for dimension purposes only

STANDARD MODELS

Model	Volts	Function	Pump Size	Reservoir Type	Reservoir Cap. (L)
BPT121-01	12	P & T	2.1	No Tank	No Tank
BSA121-01	12	S/A			
BPT221-01	24	P & T			
BSA221-01	24	S/A			
BPT121S8-01	12	P & T	2.1	Steel	8
BSA121S8-01	12	S/A			
BPT221S8-01	24	P & T			
BSA221S8-01	24	S/A			

For other reservoir size options use no tank option and add reservoir from following page

RESERVOIRS

Model	Type	Useable Volume (L)	Length (mm)
8080-21-K	Round Steel	1.5	159
8080-2-K	Round Steel	2	213
8080-3-K	Round Steel	3	292
8080-4-K	Round Steel	4	378
8080-5-K	Offset Steel	4	232
8080-6-K	Offset Steel	6	318
8080-8-K	Offset Steel	8	403
8080-10-K	Offset Steel	10	489
8080-12-K	Offset Steel	12	575
8080-8-S-K	Square Steel	8	235
8080-13-K	Square Steel	12	349
8080-16-K	Square Steel	16	470
8080-20-K	Square Steel	20	581
8181-35-K	Square plastic	3	203
8181-5-K	Square plastic	4	267
8181-6-K	Square plastic	6	337
8282-8-K	Square plastic	8	440
8282-10-K	Square plastic	10	632
8282-16-K	Square plastic	14	699

Refer to pages 12-15 for more information



Round Steel



Offset Steel



Square Steel



Square Plastic

PENDANT OPTIONS

"Plug and play" pendants available with or without battery indicator

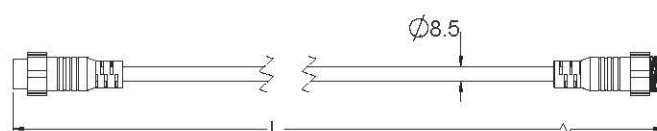
Model	Description
395-55	Two button Pendant
395-55-L	Two button Pendant with LED



Pendant Extensions Cables available in 4.5m and 7.6m lengths

Model	Description
74-06	4.5m Pendant Extension Cable
74-07	7.6m Pendant Extension Cable

Refer to pages 16-18 for more information



For complete range of power packs contact BOSS Hydraulics

BUILD CODE
DC MOTOR

Build Code	Description
A	12v 4.5", 1.8kw, 1 Term
B	12v 4.5", 1.8kw, 2 Term
C	24v 4.5", 2.5kw, 1 Term
D	24v 4.5", 2.5kw, 2 Term
E	12/24v 5", 3.8/5.8kw 2 Term*

AC MOTOR**

Build Code	Description
240A	240v, 0.37kW, 2 Pole
240B	240v, 0.55kW, 2 Pole
240C	240v, 0.75kW, 2 Pole
240D	240v, 1.1kW, 2 Pole
240E	240v, 1.5kW, 2 Pole
240F	240v, 2.2kW, 2 Pole
240G	240v, 3.0kW, 2 Pole
240J	240v, 0.25kW, 4 Pole
240K	240v, 0.37kW, 4 Pole
240L	240v, 0.55kW, 4 Pole
240M	240v, 0.75kW, 4 Pole
240N	240v, 1.10kW, 4 Pole
240P	240v, 1.50kW, 4 Pole
240Q	240v, 2.20kW, 4 Pole
240R	240v, 3.00kW, 4 Pole
415A	415v, 0.37kW, 2 Pole
415B	415v, 0.55kW, 2 Pole
415C	415v, 0.75kW, 2 Pole
415D	415v, 1.1kW, 2 Pole
415E	415v, 1.5kW, 2 Pole
415F	415v, 2.2kW, 2 Pole
415G	415v, 3.0kW, 2 Pole
415K	415v, 0.25kW, 4 Pole
415L	415v, 0.37kW, 4 Pole
415N	415v, 0.55kW, 4 Pole
415P	415v, 0.75kW, 4 Pole
415R	415v, 1.1kW, 4 Pole
415S	415v, 1.5kW, 4 Pole
415U	415v, 2.2kW, 4 Pole
415W	415v, 3.0kW, 4 Pole

DC START SOLENOID

Build Code	Description
1	12v, 3 Term, Plastic
2	12v, 4 Term, Plastic
3	24v, 3 Term, Plastic
4	24v, 4 Term, Plastic
5	12v, 3 Term, Steel
6	12v, 4 Term, Steel
7	24v, 3 Term, Steel
8	24v, 4 Term, Steel
9	Not Required

PUMP

Build Code	Description
A	0.63 cc
B	0.80 cc
C	1.20 cc
D	1.60 cc
E	2.10 cc
F	2.50 cc
G	2.70 cc
H	3.20 cc
J	4.20 cc
K	5.10 cc
L	6.00 cc

CIRCUIT

Build Code	Description
A	101
B	102
C	102A
D	102B
E	103
F	103A
G	104A
H	104B
J	105
K	108
L	109
M	110
N	111
P	114
Q	114A
R	114B
S	114C
T	114D
U	208
V	211
W	215
X	216
Y	106



* This DC Motor can only be used with circuits #A-J

** This AC Motor can only be used with circuits #A-J

**CENTRE
MANIFOLD COIL
TERMINALS*****

Build Code	Description
0	Not Required
1	Dual Spade
2	Single Stud
3	Hirschmann

RESERVOIR

Build Code	Description
A	Not required
B	1.5 LTR Round Steel
C	2 LTR Round Steel
D	3 LTR Round Steel
E	4 LTR Round Steel
F	4 LTR Steel Offset
G	6 LTR Steel Offset
H	8 LTR Steel Offset
J	10 LTR Steel Offset
K	12 LTR Steel Offset
L	8 LTR Steel Square
M	12 LTR Steel Square
N	16 LTR Steel Square
P	20 LTR Steel Square
Q	3 LTR Plastic
R	4 LTR Plastic
S	6 LTR Plastic
T	8 LTR Plastic
U	10 LTR Plastic
V	14 LTR Plastic
Z	Special

PLUMBING

Build Code	Description
1	Horizontal
2	Vertical
3	Horizontal/ Vertical

RELIEF

Build Code	Description
A	70 Bar
B	105 Bar
C	140 Bar
D	175 Bar
E	210 Bar
F	240 Bar
G	OTHER

**UNIQUE
CODE**

* *

OPTIONS
PENDANTS

MANIFOLDS

VALVES


SINGLE STUD



DUAL STUD



HIRSCHMANN



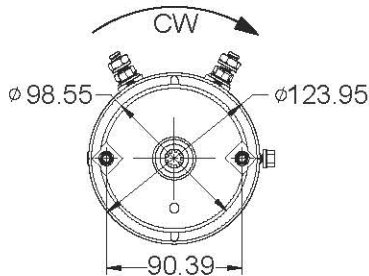
*** For AC units please nonimate voltage

HEAVY DUTY MOTORS

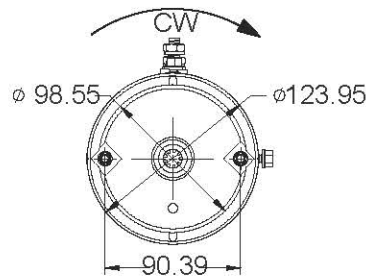
- 4.5", 4 field series wound
- Available with single terminal internally grounded and two terminal externally grounded models
- Up to 2.5kw of power
- Clockwise rotation

SPECIFICATIONS

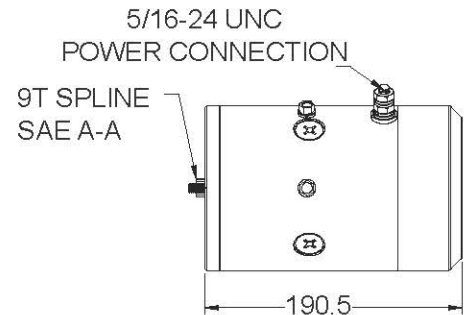
Build Code	Model	Voltage	Terminals	Torque (Nm)	Current (Amp)	Speed (rpm)	Power (kw)
A	1245-29	12	1	5.65	200	3000	1.8
B	1245-30	12	2	5.65	200	3000	1.8
C	2445-6	24	1	7.91	140	3000	2.5
D	2445-7	24	2	7.91	145	3000	2.5



1/4-20UNC MOUNTING SCREWS



1/4-20UNC MOUNTING SCREWS

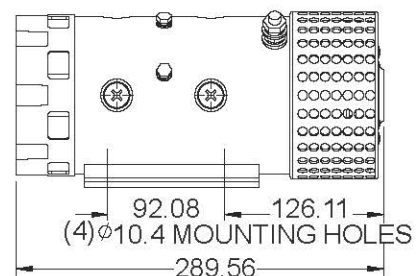
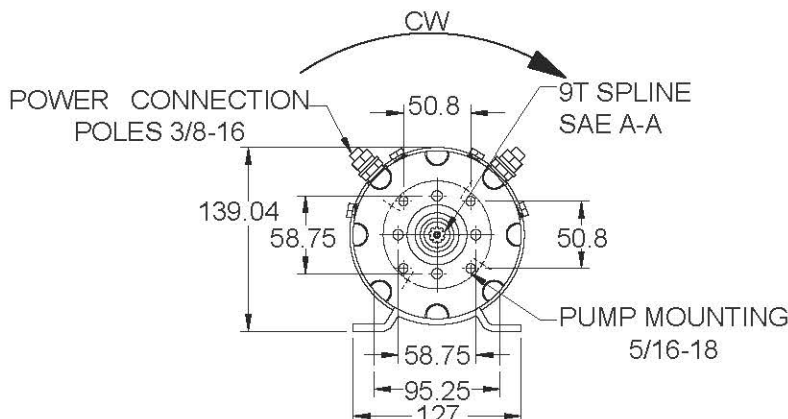


HIGH POWER MOTORS

- 5" open end fan cooled
- Two terminal externally grounded
- Up to 5kw of power
- Clockwise rotation
- Dual voltage 12v/24v
- Suitable for UM1 Manifolds and APU's only.
- Not suitable for UM2 and UM3 Manifolds

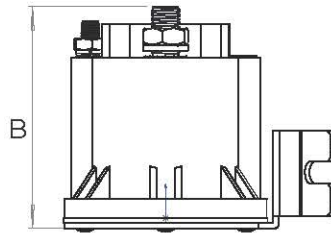
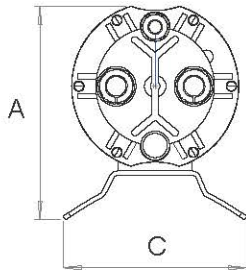
SPECIFICATIONS

Build Code	Model	Voltage	Terminals	Torque (Nm)	Current (Amp)	Speed (rpm)	Power (kw)
E	2450-3	12/24	2	145/289	201/338	3000	3/5



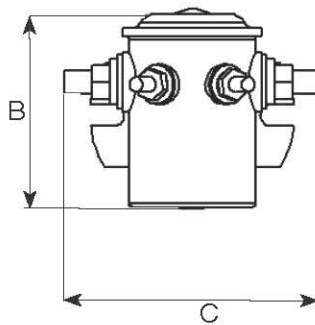
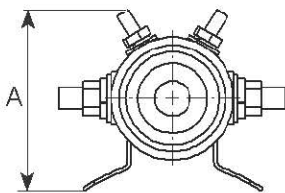
FEATURES

- Available in plastic or steel
- 200 amp continuous rated capacity
- Available with 3 terminal for internally ground models or 4 terminal for externally ground models



SPECIFICATIONS

Build Code	Model	Description	A (mm)	B (mm)	C (mm)
1	391-31	12v, 3 Terminal, Plastic	78.5	66.2	69.1
2	391-32	12v, 4 Terminal, Plastic	78.5	66.2	69.1
3	391-33	24v, 3 Terminal, Plastic	78.5	66.2	69.1
4	391-34	24v, 4 Terminal, Plastic	78.5	66.2	69.1



SPECIFICATIONS

Build Code	Model	Description	A (mm)	B (mm)	C (mm)
5	391-35	12v, 3 Terminal, Steel	59.8	63.3	87.4
6	391-36	12v, 4 Terminal, Steel	59.8	63.3	87.4
7	391-37	24v, 3 Terminal, Steel	59.8	63.3	87.4
8	391-38	24v, 4 Terminal, Steel	59.8	63.3	87.4



FEATURES

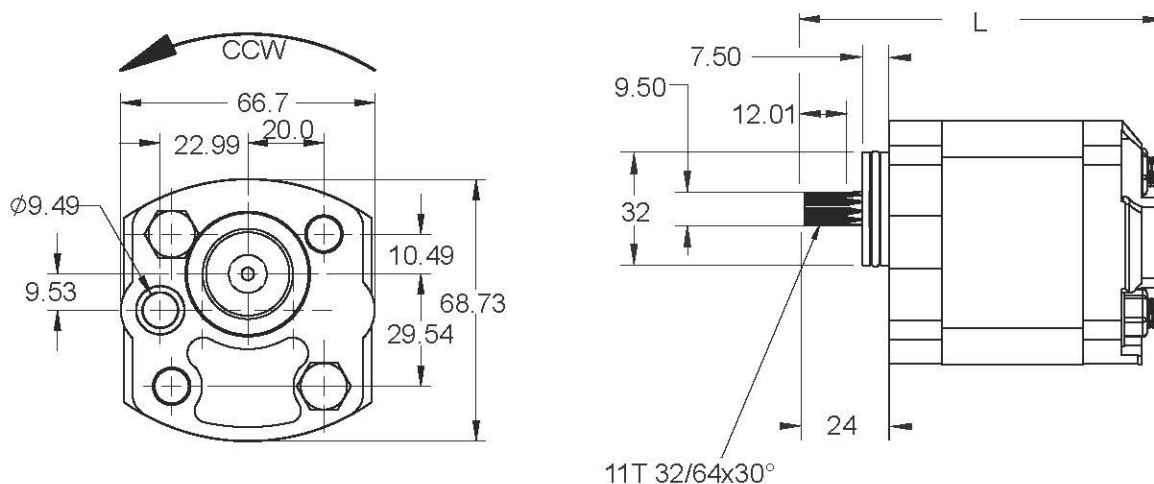
- Latest design utilises an 11 tooth 32/64 spline for higher torque
- Pressure balanced gear pump
- High mechanical and volume efficiency
- Low noise
- Counter clockwise rotation
- Positive T.I.R. (Total Indicator Reading) alignment



SPECIFICATIONS

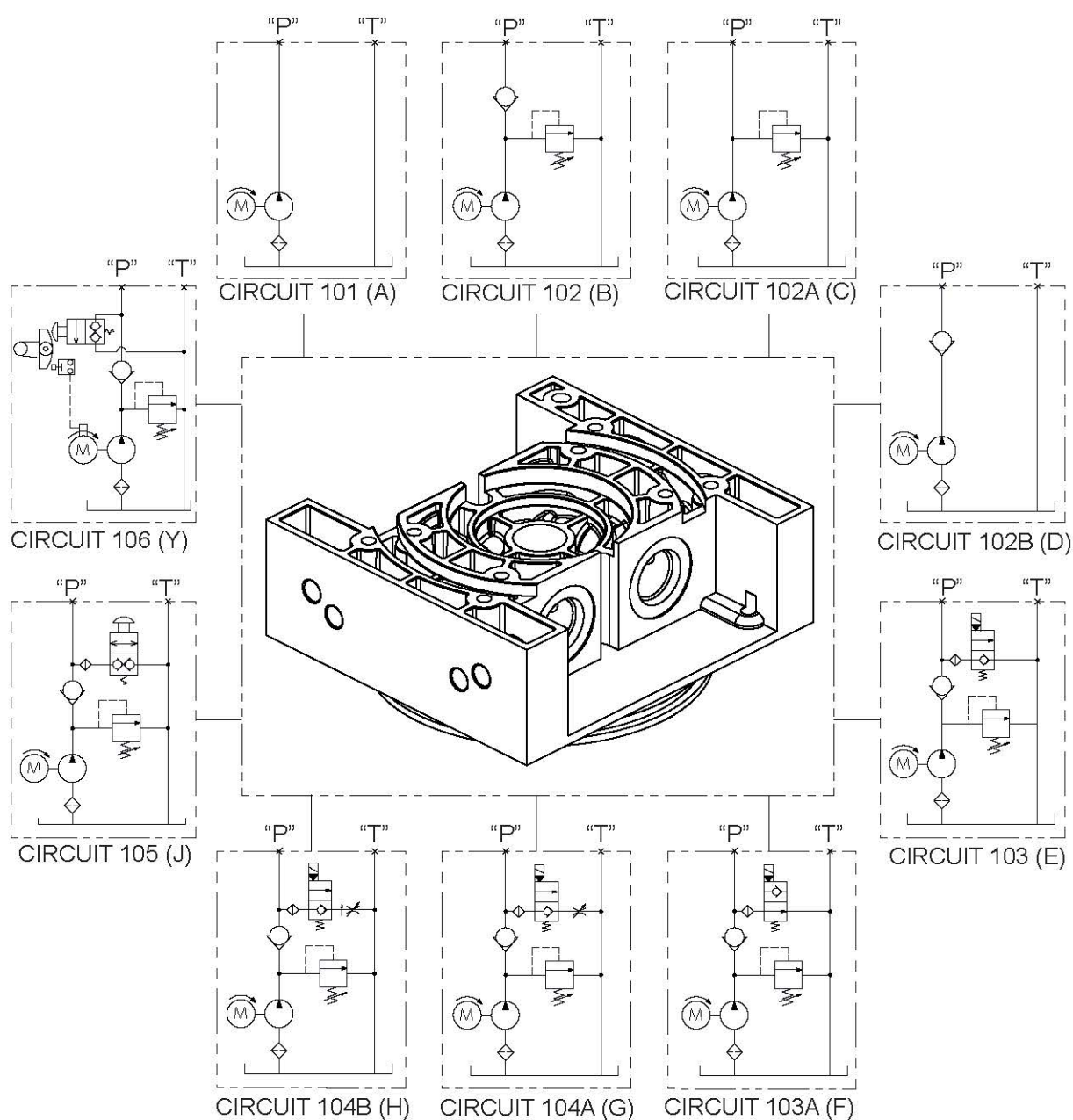
Build Code	Model	Displacement	Pressure		Length (mm)
			Working (Bar/PSI)	Max (Bar/PSI)	
A	PL-0.63-11T-K	0.63 cc	200/2900	280/4000	96.2
B	PL-0.80-11T-K	0.80 cc	200/2900	280/4000	97.4
C	PL-1.20-11T-K	1.20 cc	200/2900	280/4000	98.5
D	PL-1.60-11T-K	1.60 cc	200/2900	280/4000	100.5
E	PL-2.10-11T-K	2.10 cc	200/2900	280/4000	102.1
F	PL-2.50-11T-K	2.50 cc	200/2900	280/4000	104.0
G	PL-2.70-11T-K	2.70 cc	200/2900	280/4000	104.8
H	PL-3.20-11T-K	3.20 cc	200/2900	280/4000	106.1
J*	PL-4.20-ES-11T-K	4.20 cc	180/2610	260/3770	110.9
K*	PL-5.1-ES-11T-K	5.10 cc	138/2000	227/3300	113.9
L*	PL-6.0-ES-11T-K	6.00 cc	138/2000	227/3300	116.9

*Limited to 1440 rpm in vertical mount



UNIVERSAL MANIFOLD 1 (UM1)

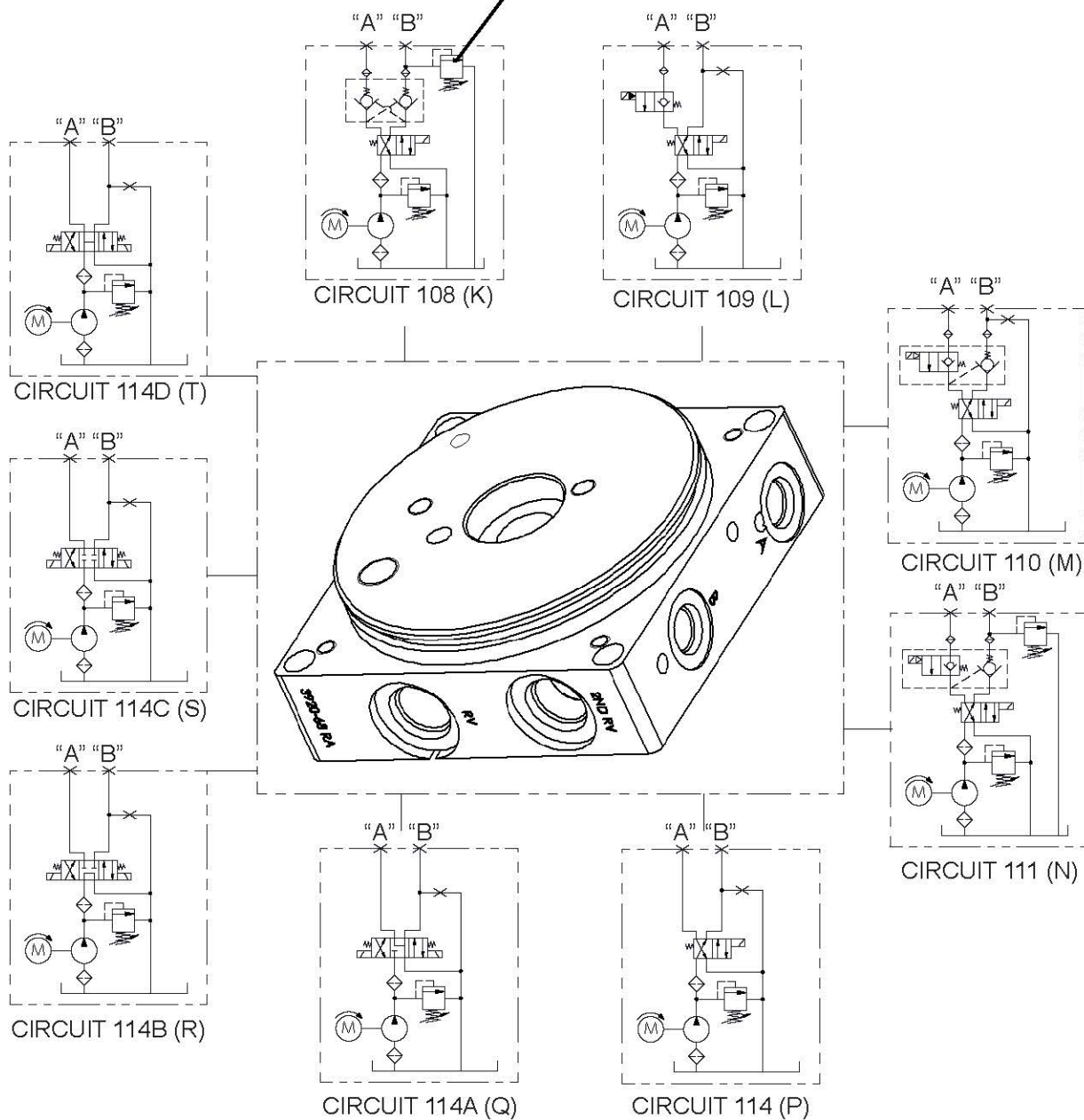
- 10 standard circuits
- Manufactured from lightweight aluminium
- Industry standard C08 cavities
- 3/8 BSPP ports (SAE available on request)



UNIVERSAL MANIFOLD 2 (UM2)

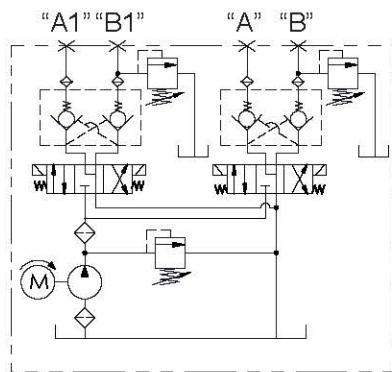
- 9 standard circuits
- Manufactured from lightweight aluminium
- Industry standard C08 cavities
- 9/16 SAE ports

Optional 2nd relief valve available

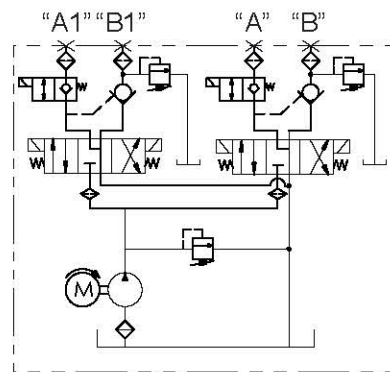


UNIVERSAL MANIFOLD 3 (UM3)

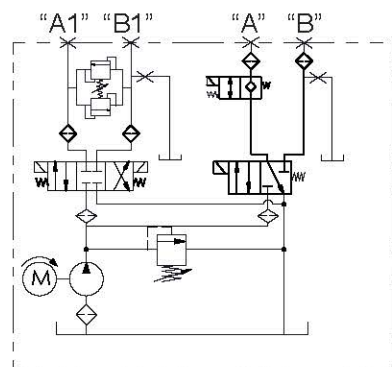
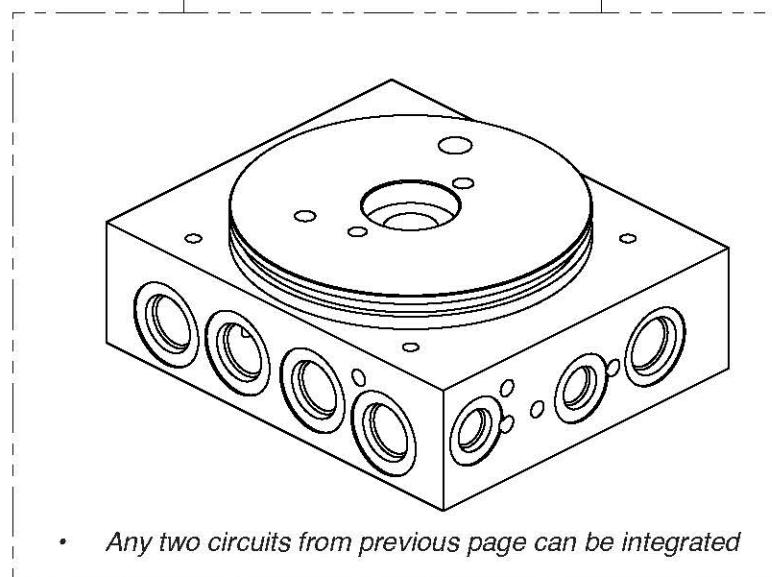
- Allows for multiple integrated single and double acting circuits
- Manufactured from lightweight aluminium
- Industry standard C08 cavities
- 9/16 SAE ports
- Can also integrate any two circuits from UM2 manifold



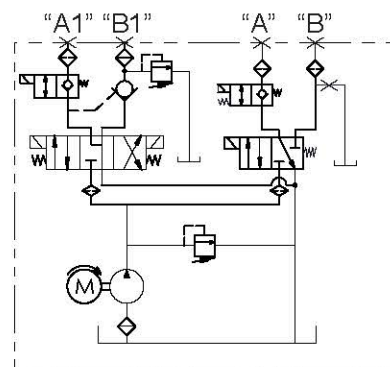
CIRCUIT 208 (U)



CIRCUIT 211 (V)



CIRCUIT 216 (X)



CIRCUIT 215 (W)

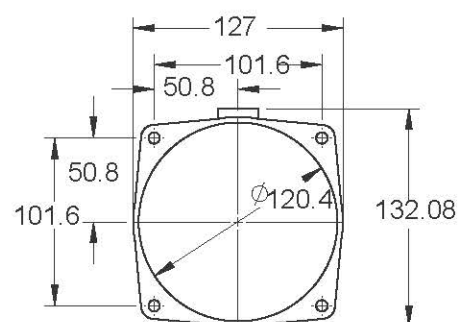
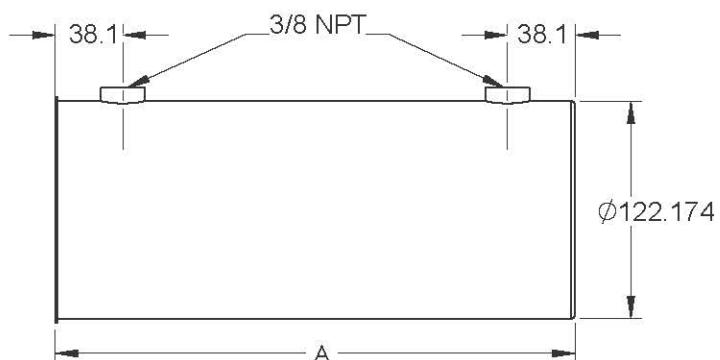
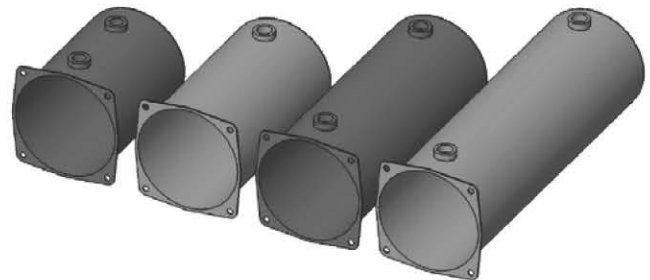


FEATURES

- Manufactured by using a deep drawn steel process
- Up to 4 litre useable
- Includes breather with dipstick port plug and mount screws
- Black powder coat finish

SPECIFICATIONS

Build Code	Model	Useable Volume (lt)	A Length (mm)
B	8080-21-K	1.5	159
C	8080-2-K	2	213
D	8080-3-K	3	292
E	8080-4-K	4	378



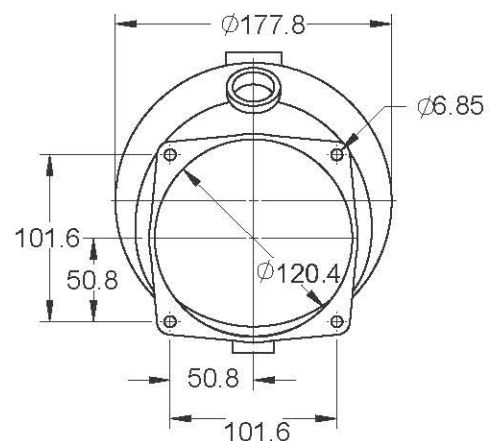
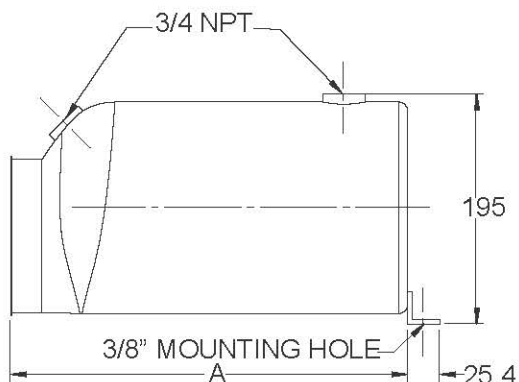
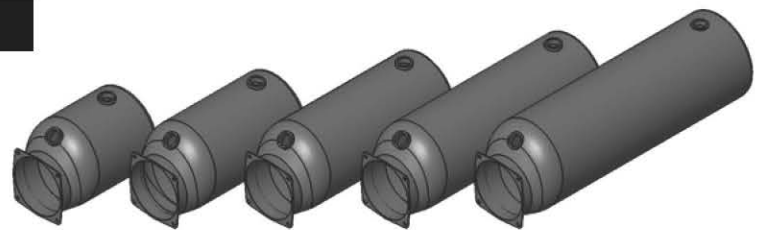


FEATURES

- Offset design
- Up to 12 litre useable
- Includes breather with dipstick port plug and mount screws
- Black powder coat finish

SPECIFICATIONS

Build Code	Model	Useable Volume (lt)	A Length (mm)
F	8080-5-K	4	232
G	8080-6-K	6	318
H	8080-8-K	8	403
J	8080-10-K	10	489
K	8080-12-K	12	575



* SHIMMING MAY BE REQUIRED ON MOUNT TABS FOR ALIGNMENT ON INSTALLATION

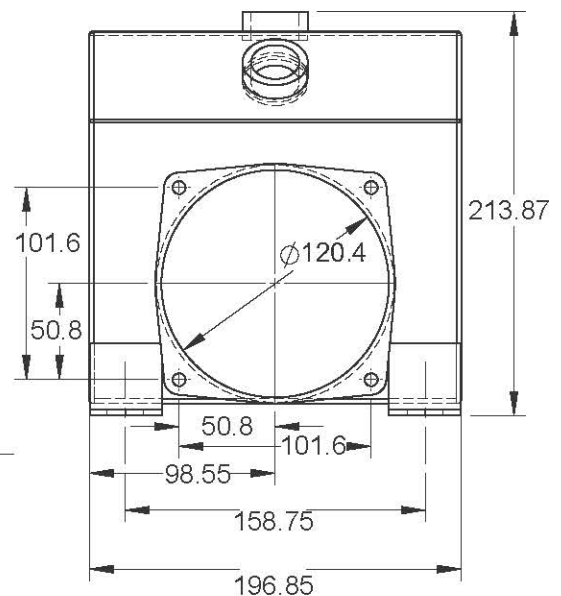
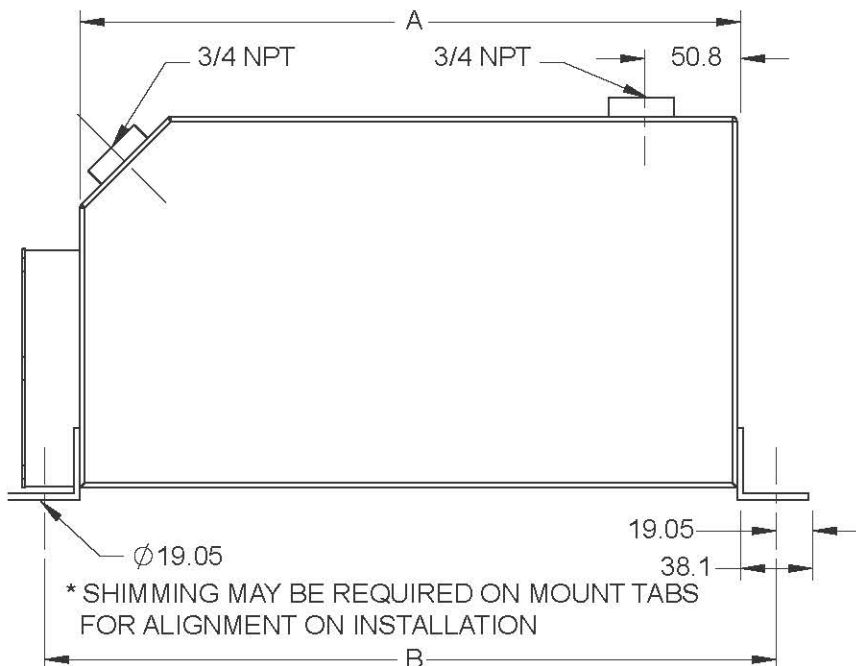
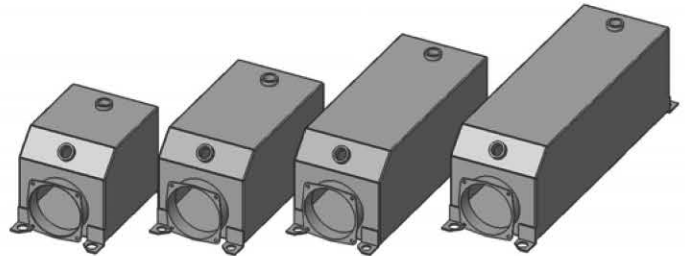


FEATURES

- Up to 20 litre useable
- Includes breather with dipstick port plug and mount screws
- Black powder coat finish
- Front and rear mounting tabs on all models

SPECIFICATIONS

Build Code	Model	Useable Volume (lt)	A Length (mm)	B Length (mm)
L	8080-8-S-K	8	235	273
M	8080-13-K	12	349	387
N	8080-16-K	16	470	508
P	8080-20-K	20	581	619





FEATURES

- High impact plastic
- Oil level visible at all times
- Up to 14 litre useable
- Includes breather with dipstick port plug and mount screws
- Lightweight
- Rear mounting tabs available on request- 8181-LL-K

SPECIFICATIONS

Build Code	Model	Useable Volume (lt)	A Length (mm)
Q	8181-35-K	3	203
R	8181-5-K	4	267
S	8181-6-K	6	337
T	8282-8-K	8	440
U	8282-10-K	10	632
V	8181-14-K	14	699

Optional Rear Mounting Tabs
 8181-LL Kit c/w Screws & washers
 (Does not include reservoir)

