

MW-A Single Speed Hand Pump Index for drawings

What do we offer?

Aluminium Alloy & Stainless Steel Hydraulic Hand Pump. Our Micropac® MW-A is a component hand pump which can be configured to suit your exact requirement. Double acting operation up to 400 bar, multi-fluid compatible with easy change seal kits.

These pumps can be fitted to a range of fixed mount reservoirs 1-50 litre capacity. See pages 6-12.

For portable units, see our MP- range for MW-Pumps fitted to portable, carry-around or wheel-around reservoirs.

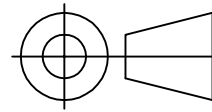
For extra options, such as 4-way directional control valves, see page 13.

For 316 Stainless pumps, see our MW-3 range.

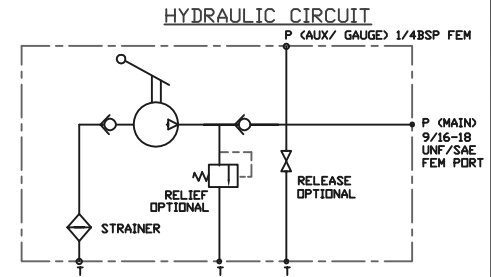
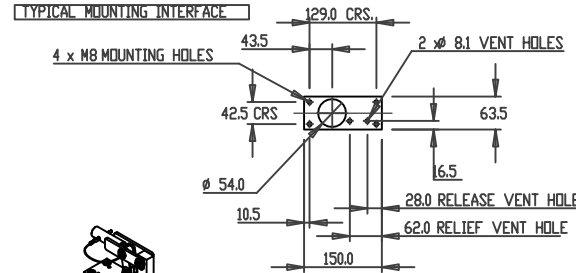
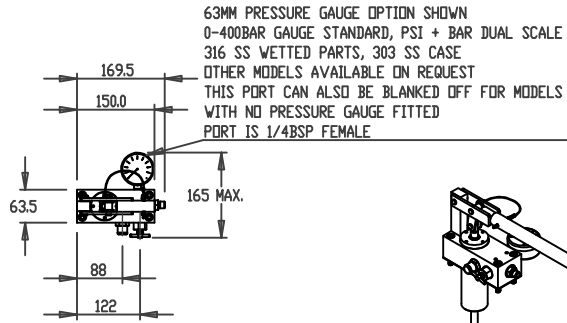


Page	Drawing Number	Description
		Available Pump Models:
2	MW-A-12	12cc / Double stroke up to 407 Bar max. pressure
3	MW-A-25	25cc / Double stroke up to 204 Bar max. pressure
4	MW-A-49	49cc / Double stroke up to 102 Bar max. pressure
5	MW-A-10	100cc / Double stroke up to 50 Bar max. pressure
		Available range of Fixed Reservoirs: Codes are for Reservoir alone, But order as part of the pump assembly per the ordering codes on the MW-A Datasheet. See these drawings for the mounting centres, and for an illustration of a pump mounted on each reservoir.
6	MR-F-3-01	1 Litre Fixed Reservoir, 316 Stainless Steel
7	MR-F-A-02	2.5 Litre Fixed Reservoir, Aluminium
8	MR-F-A-05	5 Litre Fixed Reservoir, Aluminium
9	MR-F-3-10	10 Litre Fixed Reservoir, 316 Stainless Steel
10	MR-F-3-20	20 Litre Fixed Reservoir, 316 Stainless Steel
11	MR-F-3-50	50 Litre Fixed Reservoir, 316 Stainless Steel
12	MR-F-3-4E	4 Litre Fixed Reservoir - "Ergo", 316 Stainless Steel
		Other options:
13	007069800	4-way directional control valve, up to 500 bar operation, Carbon steel

IF IN DOUBT, ASK THIRD ANGLE PROJECTION



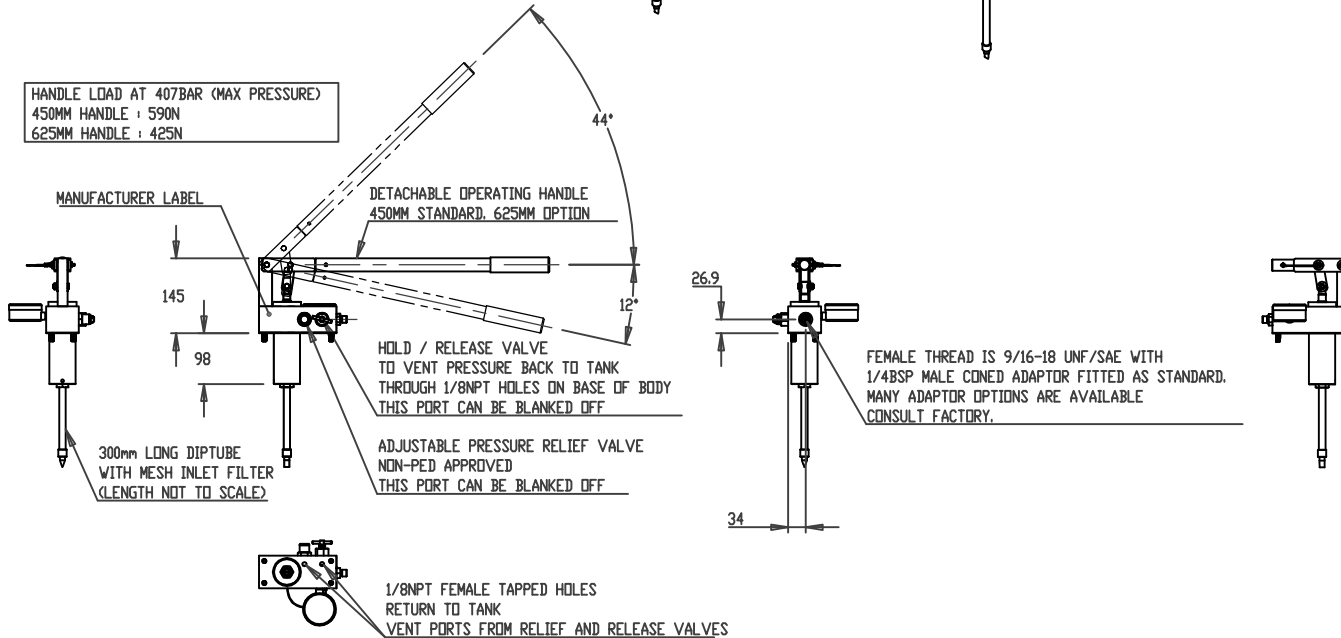
TOLERANCES UNLESS OTHERWISE STATED
 GENERAL TOLERANCES RIGHT ANGLE BENDS &
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN
 +/-0.1mm T.I.R.
 SCREW THREADS ARE ISO METRIC COARSE PITCH
 TOL. 6g/6h (MED. FIT) TO BS3643
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS
 GEOMETRICAL TOLERANCING TO BS308 PART 3



NOTES:

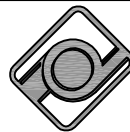
- THIS DRAWING SHOWS OUR MICROPAC SINGLE SPEED HANDPUMP, MW-A-12
- DISPLACEMENT IS 12CC OF FLUID PER DOUBLE STROKE (UP & DOWN ON THE HANDLE)
- MATERIALS OF CONSTRUCTION:
 ALUMINIUM ALLOY 6082T6
 CARBON STEEL BRIGHT ZINC PLATED EXTERNAL PARTS
 SMALL AMOUNTS OF 302,303,304,316,416,420,431
 STAINLESS STEEL WETTED PARTS
 NYLON, ACETAL, PVC
- INLET STRAINER FITTED ON DIPTUBE AS SHOWN
- POPPET TYPE OUTLET CHECK VALVE WITH REPLACEABLE SEAT
- CLEVIS FITTED, ARC OF MOVEMENT PER NOTE
- OPTIONAL ADJUSTABLE RELIEF VALVE PER NOTE
- OPTIONAL HOLD / RELEASE VALVE PER NOTE
- SEAL MATERIAL: NITRILE, PTFE, FILLED PTFE, UHMW/P STANDARD.
 OPTIONS INCLUDE VITON FLUOROCARBON AND EPDM
- TEMPERATURE RANGE -30 TO +80 DEG C
- MASS 4.0KG APPROX. EXCL DETACHABLE HANDLE.
 450MM HANDLE 0.5KG EXTRA
 625MM HANDLE 0.7KG EXTRA
- STANDARD UNIT SUPPLIED WITH INLET FILTER/ DIPTUBE, MOUNTING GASKET AND 4 x M8 MOUNTING SCREWS
- SYSTEM DESIGN, INSTALLATION, USE AND MAINTENANCE IN ACCORDANCE WITH STATUTORY AND OTHER REQUIREMENTS
- SEE INSTALLATION DRAWING PACK FOR RESERVOIR OPTIONS
- SPECIFICATION MAY BE SUBJECT TO REVISION

HANDLE LOAD AT 407BAR (MAX PRESSURE)
 450MM HANDLE : 590N
 625MM HANDLE : 425N



UNLESS OTHERWISE STATED:
 DIMENSIONS IN MILLIMETRES
 SURFACE FINISH IN MICROMETRES
 REMOVE SHARP EDGES

© COPYRIGHT 2024 SARUM HYDRAULICS LTD.



SARUM HYDRAULICS LTD.

SALISBURY, SP4 6EB, UK
 www.sarum-hydraulics.co.uk

TITLE

INST DG: MICROPAC MW-A SINGLE SPEED HANDPUMP, 12CC

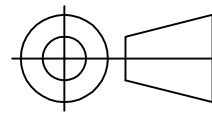
MATERIAL PER NOTES

FINISH PER NOTES

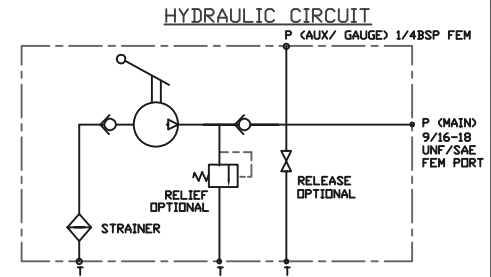
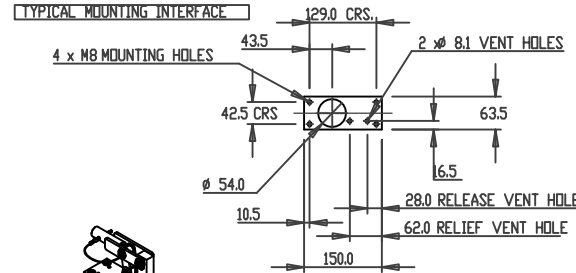
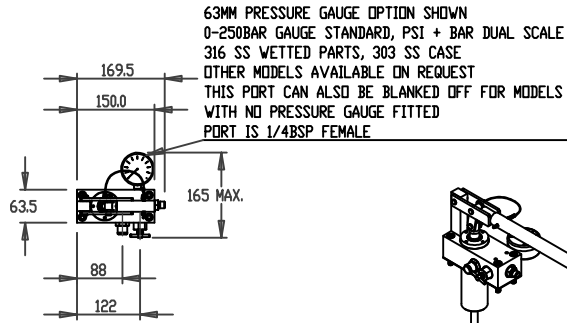
DRAWN	NATO	APP
		CHKD
SCALE	F SIZE	SHEET OF
CAD	2-D	MW-A-12
DRAWING NO.	MW-A-12	

1	FIRST ISSUE	01/24
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE
		DATE IMPLEMENTED

IF IN DOUBT, ASK THIRD ANGLE PROJECTION



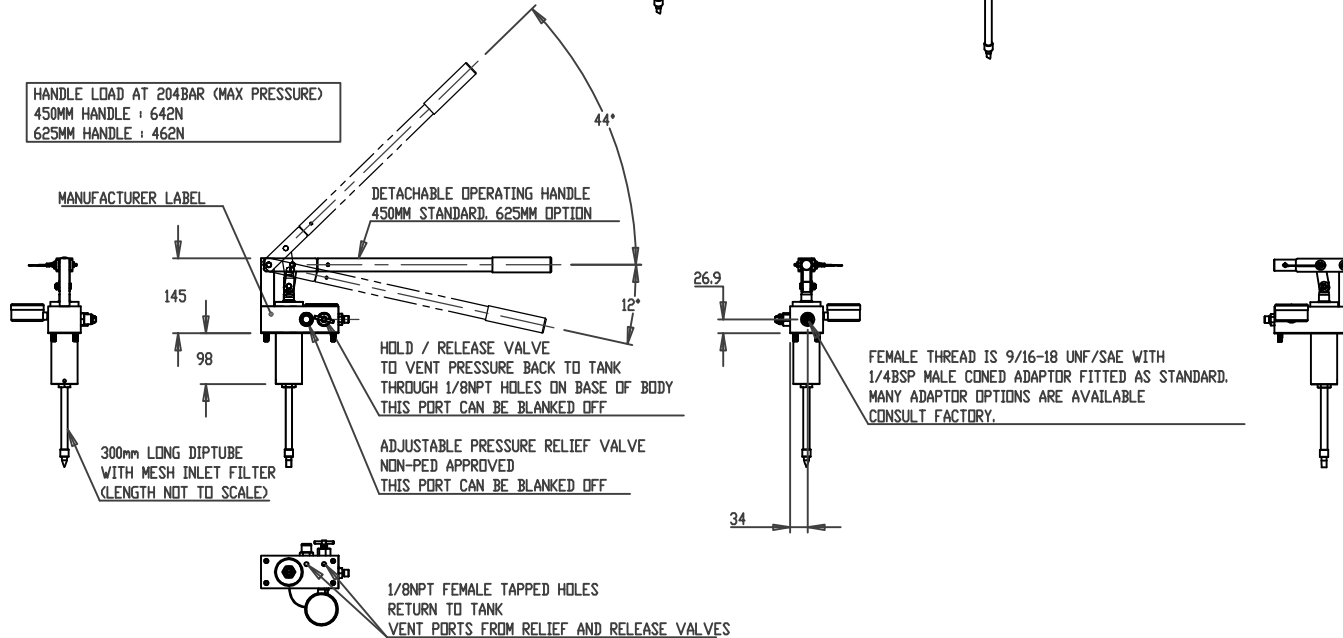
TOLERANCES UNLESS OTHERWISE STATED
 GENERAL TOLERANCES RIGHT ANGLE BENDS &
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN
 +/-0.1mm T.I.R.
 SCREW THREADS ARE ISO METRIC COARSE PITCH
 TOL. 6g/6h (MED. FIT) TO BS3643
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS
 GEOMETRICAL TOLERANCING TO BS308 PART 3



NOTES:

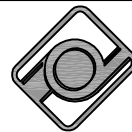
- THIS DRAWING SHOWS OUR MICROPAC SINGLE SPEED HANDPUMP, MW-A-25
- DISPLACEMENT IS 25CC OF FLUID PER DOUBLE STROKE (UP & DOWN ON THE HANDLE)
- MATERIALS OF CONSTRUCTION:
 ALUMINIUM ALLOY 6082T6
 CARBON STEEL BRIGHT ZINC PLATED EXTERNAL PARTS
 SMALL AMOUNTS OF 302,303,304,316,416,420,431
 STAINLESS STEEL WETTED PARTS
 NYLON, ACETAL, PVC
- INLET STRAINER FITTED ON DIPTUBE AS SHOWN
- POPPET TYPE OUTLET CHECK VALVE WITH REPLACEABLE SEAT
- CLEVIS FITTED, ARC OF MOVEMENT PER NOTE
- OPTIONAL ADJUSTABLE RELIEF VALVE PER NOTE
- OPTIONAL HOLD / RELEASE VALVE PER NOTE
- SEAL MATERIAL: NITRILE, PTFE, FILLED PTFE, UHMW/P STANDARD.
 OPTIONS INCLUDE VITON FLUOROCARBON AND EPDM
- TEMPERATURE RANGE -30 TO +80 DEG C
- MASS 4.0KG APPROX. EXCL DETACHABLE HANDLE.
 450MM HANDLE 0.5KG EXTRA
 625MM HANDLE 0.7KG EXTRA
- STANDARD UNIT SUPPLIED WITH INLET FILTER/ DIPTUBE, MOUNTING GASKET AND 4 x M8 MOUNTING SCREWS
- SYSTEM DESIGN, INSTALLATION, USE AND MAINTENANCE IN ACCORDANCE WITH STATUTORY AND OTHER REQUIREMENTS
- SEE INSTALLATION DRAWING PACK FOR RESERVOIR OPTIONS
- SPECIFICATION MAY BE SUBJECT TO REVISION

HANDLE LOAD AT 204BAR (MAX PRESSURE)
 450MM HANDLE : 642N
 625MM HANDLE : 462N



UNLESS OTHERWISE STATED:
 DIMENSIONS IN MILLIMETRES
 SURFACE FINISH IN MICROMETRES
 REMOVE SHARP EDGES

© COPYRIGHT 2024 SARUM HYDRAULICS LTD.



SARUM HYDRAULICS LTD.

SALISBURY, SP4 6EB, UK
 www.sarum-hydraulics.co.uk

TITLE

INST DG: MICROPAC MW-A SINGLE SPEED HANDPUMP, 25CC

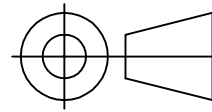
MATERIAL PER NOTES

FINISH PER NOTES

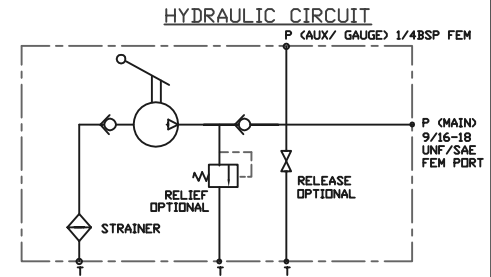
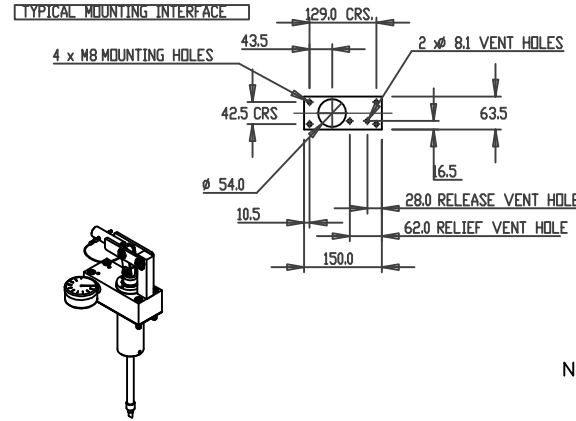
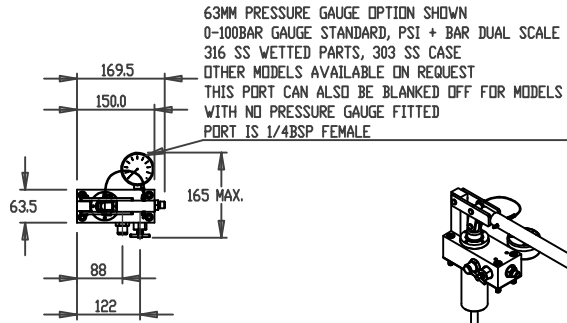
DRAWN	NATO	APP
		CHKD
SCALE	F SIZE	SHEET OF
CAD	2-D	MW-A-25
DRAWING NO.	MW-A-25	

1	FIRST ISSUE	01/24
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE
		DATE IMPLEMENTED

IF IN DOUBT, ASK THIRD ANGLE PROJECTION



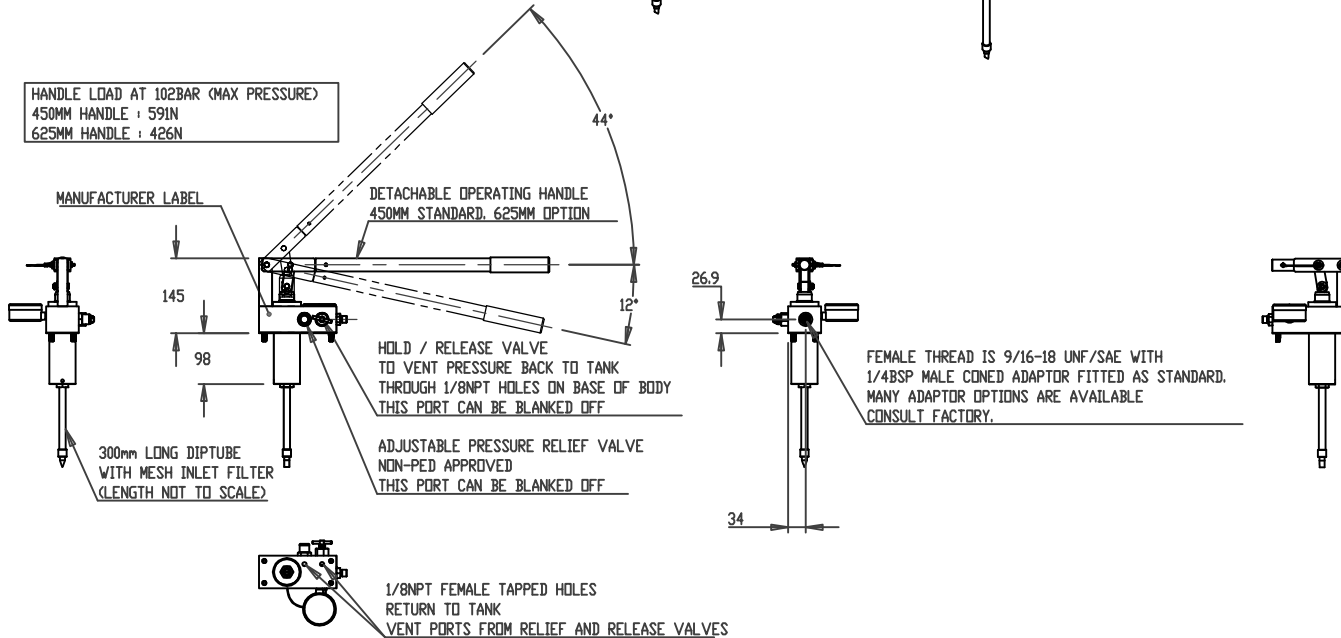
TOLERANCES UNLESS OTHERWISE STATED
 GENERAL TOLERANCES RIGHT ANGLE BENDS &
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN
 +/-0.1mm T.I.R.
 SCREW THREADS ARE ISO METRIC COARSE PITCH
 TOL. 6g/6h (MED. FIT) TO BS3643
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS
 GEOMETRICAL TOLERANCING TO BS308 PART 3



NOTES:

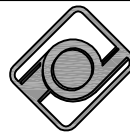
- THIS DRAWING SHOWS OUR MICROPAC SINGLE SPEED HANDPUMP, MW-A-49
- DISPLACEMENT IS 49CC OF FLUID PER DOUBLE STROKE (UP & DOWN ON THE HANDLE)
- MATERIALS OF CONSTRUCTION:
 ALUMINIUM ALLOY 6082T6
 CARBON STEEL BRIGHT ZINC PLATED EXTERNAL PARTS
 SMALL AMOUNTS OF 302,303,304,316,416,420,431
 STAINLESS STEEL WETTED PARTS
 NYLON, ACETAL, PVC
- INLET STRAINER FITTED ON DIPTUBE AS SHOWN
- POPPET TYPE OUTLET CHECK VALVE WITH REPLACEABLE SEAT
- CLEVIS FITTED, ARC OF MOVEMENT PER NOTE
- OPTIONAL ADJUSTABLE RELIEF VALVE PER NOTE
- OPTIONAL HOLD / RELEASE VALVE PER NOTE
- SEAL MATERIAL: NITRILE, PTFE, FILLED PTFE, UHMW/P STANDARD.
 OPTIONS INCLUDE VITON FLUOROCARBON AND EPDM
- TEMPERATURE RANGE -30 TO +80 DEG C
- MASS 4.1KG APPROX. EXCL DETACHABLE HANDLE.
 450MM HANDLE 0.5KG EXTRA
 625MM HANDLE 0.7KG EXTRA
- STANDARD UNIT SUPPLIED WITH INLET FILTER/ DIPTUBE, MOUNTING GASKET AND 4 x M8 MOUNTING SCREWS
- SYSTEM DESIGN, INSTALLATION, USE AND MAINTENANCE IN ACCORDANCE WITH STATUTORY AND OTHER REQUIREMENTS
- SEE INSTALLATION DRAWING PACK FOR RESERVOIR OPTIONS
- SPECIFICATION MAY BE SUBJECT TO REVISION

HANDLE LOAD AT 102BAR (MAX PRESSURE)
 450MM HANDLE : 591N
 625MM HANDLE : 426N



UNLESS OTHERWISE STATED:
 DIMENSIONS IN MILLIMETRES
 SURFACE FINISH IN MICROMETRES
 REMOVE SHARP EDGES

© COPYRIGHT 2024 SARUM HYDRAULICS LTD.



SARUM HYDRAULICS LTD.

SALISBURY, SP4 6EB, UK
 www.sarum-hydraulics.co.uk

TITLE

INST DG: MICROPAC MW-A SINGLE SPEED HANDPUMP, 49CC

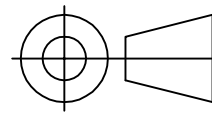
MATERIAL PER NOTES

FINISH PER NOTES

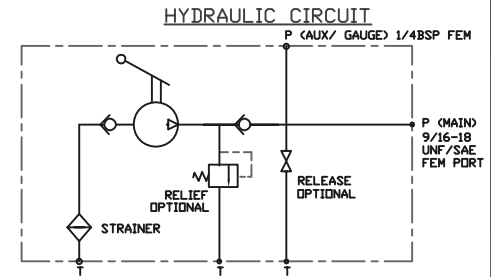
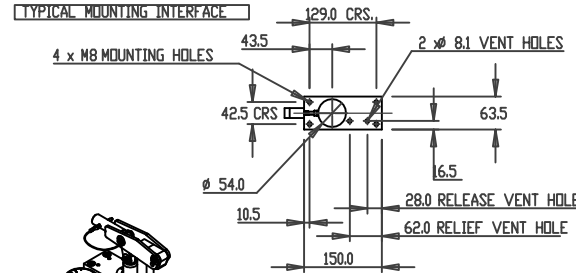
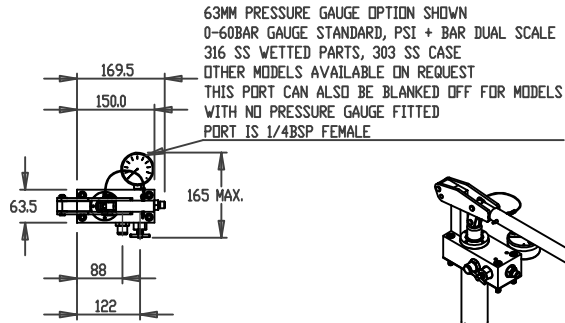
DRAWN	NATO	APP
		CHKD
SCALE	F SIZE	SHEET OF
CAD	2-D	MW-A-49
DRAWING NO.	MW-A-49	

1	FIRST ISSUE	01/24
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE
		DATE IMPLEMENTED

IF IN DOUBT, ASK THIRD ANGLE PROJECTION

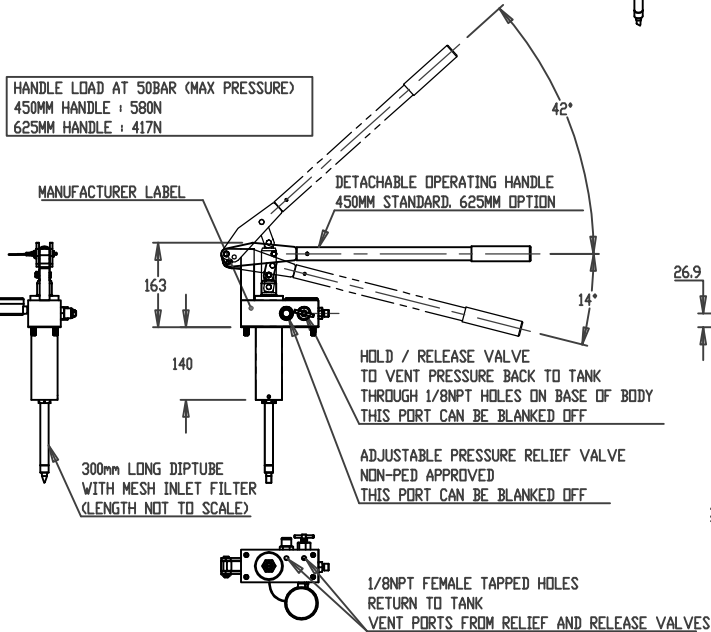


TOLERANCES UNLESS OTHERWISE STATED
 GENERAL TOLERANCES RIGHT ANGLE BENDS &
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN
 +/-0.1mm T.I.R.
 SCREW THREADS ARE ISO METRIC COARSE PITCH
 TOL. 6g/6H (MED. FIT) TO BS3643
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS
 GEOMETRICAL TOLERANCING TO BS308 PART 3



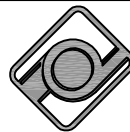
NOTES:

- THIS DRAWING SHOWS OUR MICROPAC SINGLE SPEED HANDPUMP, MW-A-10
- DISPLACEMENT IS 100CC OF FLUID PER DOUBLE STROKE (UP & DOWN ON THE HANDLE)
- MATERIALS OF CONSTRUCTION:
 ALUMINIUM ALLOY 6082T6
 CARBON STEEL BRIGHT ZINC PLATED EXTERNAL PARTS
 SMALL AMOUNTS OF 302,303,304,316,416,420,431
 STAINLESS STEEL WETTED PARTS
 NYLON, ACETAL, PVC
- INLET STRAINER FITTED ON DIPTUBE AS SHOWN
- POPPET TYPE OUTLET CHECK VALVE WITH REPLACEABLE SEAT
- CLEVIS FITTED, ARC OF MOVEMENT PER NOTE
- OPTIONAL ADJUSTABLE RELIEF VALVE PER NOTE
- OPTIONAL HOLD / RELEASE VALVE PER NOTE
- SEAL MATERIAL: NITRILE, PTFE, FILLED PTFE, UHMW/P STANDARD.
 OPTIONS INCLUDE VITON FLUOROCARBON AND EPDM
- TEMPERATURE RANGE -30 TO +80 DEG C
- MASS 5.8KG APPROX. EXCL DETACHABLE HANDLE.
 450MM HANDLE 0.5KG EXTRA
 625MM HANDLE 0.7KG EXTRA
- STANDARD UNIT SUPPLIED WITH INLET FILTER/ DIPTUBE, MOUNTING GASKET AND 4 x M8 MOUNTING SCREWS
- SYSTEM DESIGN, INSTALLATION, USE AND MAINTENANCE IN ACCORDANCE WITH STATUTORY AND OTHER REQUIREMENTS
- SEE INSTALLATION DRAWING PACK FOR RESERVOIR OPTIONS
- SPECIFICATION MAY BE SUBJECT TO REVISION



UNLESS OTHERWISE STATED:
 DIMENSIONS IN MILLIMETRES
 SURFACE FINISH IN MICROMETRES
 REMOVE SHARP EDGES

© COPYRIGHT 2024 SARUM HYDRAULICS LTD.



SARUM HYDRAULICS LTD.

SALISBURY, SP4 6EB, UK
 www.sarum-hydraulics.co.uk

DRAWN	NATO	APP
		CHKD
SCALE	F	SIZE SHEET OF
CAD	2-D	MW-A-10 / 386000200

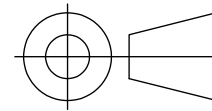
TITLE
 INST DG: MICROPAC MW-A SINGLE SPEED HANDPUMP, 100CC

DRAWING NO.
MW-A-10

2	2401031	UPDATED TO LATEST LINES	N.D 01/24
1		FIRST ISSUE	09/14
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED

MATERIAL PER NOTES
 FINISH PER NOTES

IF IN DOUBT, ASK THIRD ANGLE PROJECTION

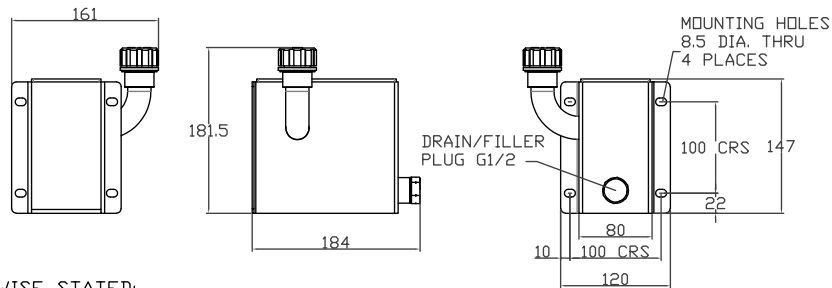
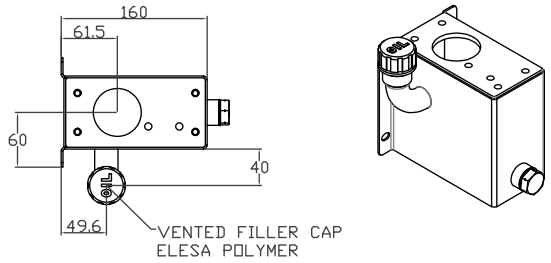


MEMO- ALSO SPECIAL PART NUMBERS ALLOCATED FOR SPECIFIC UNITS
 NOTE 901012800 HAS STANDARD VENT PLUG
 AND STANDARD RELEASE VALVE
 901012801 FITTED PRESSURISED FILLER BREATHER
 AND USES EXTERNAL NEEDLE VALVE RELEASE
 MR-F-3-01 IS INSTALLATION DRAWING FOR 1 LITRE FIXED 316

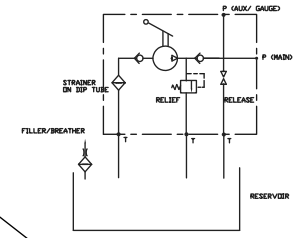
TOLERANCES UNLESS OTHERWISE STATED
 GENERAL TOLERANCES RIGHT ANGLE BENDS &
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN
 +/-0.1mm T.I.R.
 SCREW THREADS ARE ISO METRIC COARSE PITCH
 TOL. 6g/6H (MED. FIT) TO BS3643
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS
 GEOMETRICAL TOLERANCING TO BS308 PART 3

- NOTES:
1. MATERIALS OF CONSTRUCTION ON RESERVOIR
 STAINLESS STEEL BS970 316
 CAP POLYMER
 2. ALL DIMENSIONS IN mm
 3. MASS 2 KG DRY RESERVOIR ALONE
 4. USE DATA SHEET 001026300 FOR ORDERING CODES ON RESERVOIR
 5. ORDER PUMP AND RESERVOIR AS SEPARATE PART NUMBERS
 6. MEMO- RESERVOIR FABRICATION DG. IS 001023800
 7. THE RESERVOIR IS NOT A PRESSURE VESSEL
 IT MUST ALWAYS BE VENTED TO ATMOSPHERE
 MAXIMUM INTERNAL PRESSURE 0.3 BAR
 8. NOMINAL CAPACITY 1 LITRE (0.26USG)
 9. ATEX MODEL AVAILABLE: ADD -AX TO END OF ORDERING CODE

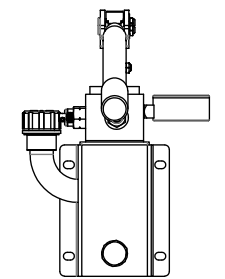
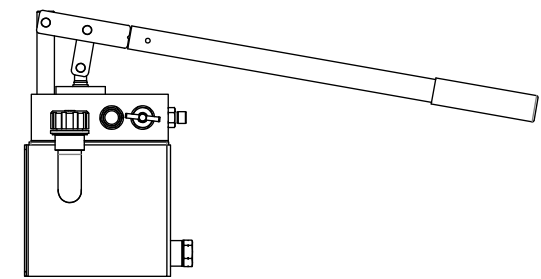
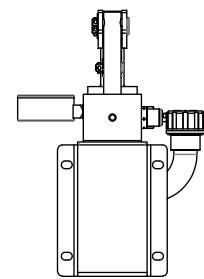
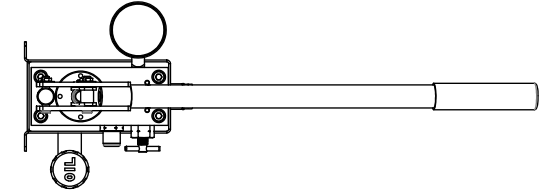
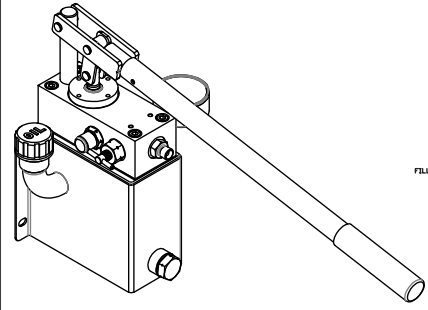
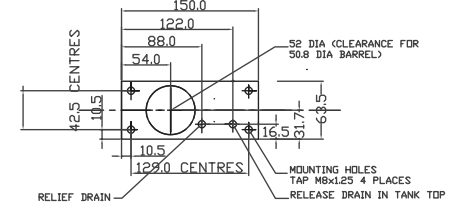
ILLUSTRATION OF MICROPAC HW PUMP MOUNTED ON RESERVOIR MR-F-3-01
 ORDER A PUMP PLUS A RESERVOIR



HYDRAULIC CIRCUIT FOR MICROPAC PUMP/RESERVOIR



MOUNTING FACE PLAN FOR MICROPAC RESERVOIR



UNLESS OTHERWISE STATED:
 DIMENSIONS IN MILLIMETRES
 SURFACE FINISH IN MICROMETRES
 REMOVE SHARP EDGES

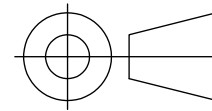
© COPYRIGHT 2020 SARUM HYDRAULICS LTD.

		SARUM HYDRAULICS LTD.		DRAWN JF	APP
		SALISBURY, SP4 6EB, UK www.sarum-hydraulics.co.uk		SCALE F SIZE	SHEET OF
TITLE INSTALLATION DRAWING PUMP/1 L 316 RESERVOIR		CAD 2-D MR-F-3-01		DRAWING NO.	
MATERIAL PER NOTE		FINISH PER NOTE		MR-F-3-01	
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED		

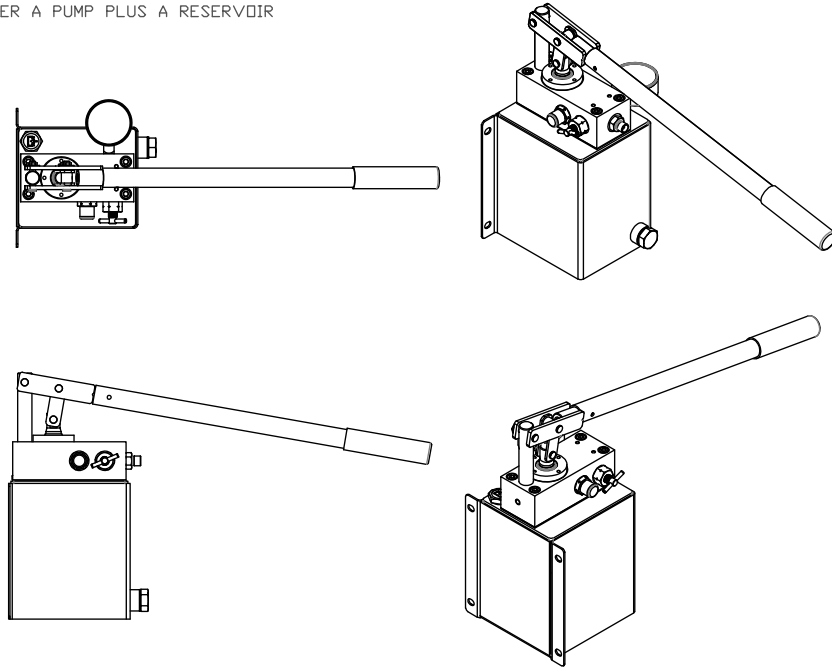
3	20072201	3D UPDATE	N.D 07/20
2	1604052	ADD CAP, CORRECT FILLER/FLANGE	04/16
1		FIRST ISSUE	12/14

IF IN DOUBT, ASK THIRD ANGLE PROJECTION

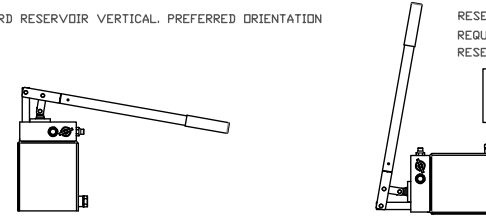
ILLUSTRATION OF MICROPAC MW PUMP MOUNTED ON RESERVOIR MR-F-A-02
ORDER A PUMP PLUS A RESERVOIR



TOLERANCES UNLESS OTHERWISE STATED
 GENERAL TOLERANCES RIGHT ANGLE BENDS &
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN
 +/-0.1mm T.I.R.
 SCREW THREADS ARE ISO METRIC COARSE PITCH
 TOL. 6g/6H (MED. FIT) TO BS3643
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS
 GEOMETRICAL TOLERANCING TO BS308 PART 3



PERMISSIBLE MOUNTING ORIENTATION
 DEFAULT/STANDARD RESERVOIR VERTICAL. PREFERRED ORIENTATION



RESERVOIR HORIZONTAL UPON REQUEST
 REQUEST AT TIME OF ORDERING TO ACHIEVE FULL CAPACITY.
 RESERVOIR REQUIRES SEALING AND LEAK TESTING IN PRODUCTION.

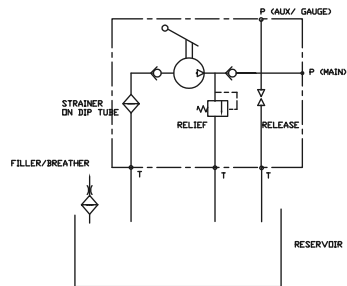
MEMO: HORIZONTAL MOUNT INLET KIT 303/BELRIN IS 001069400
 HORIZONTAL MOUNT INLET KIT 316/316 FILTER IS 001069500

DIMENSIONS RESERVOIR MR-F-A-02

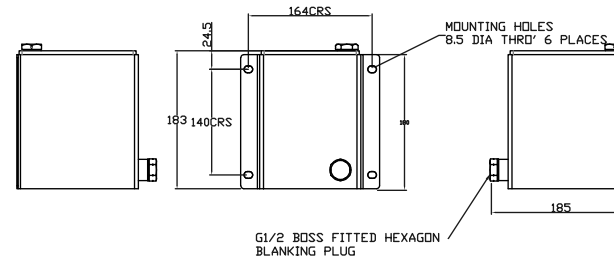
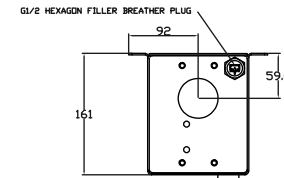
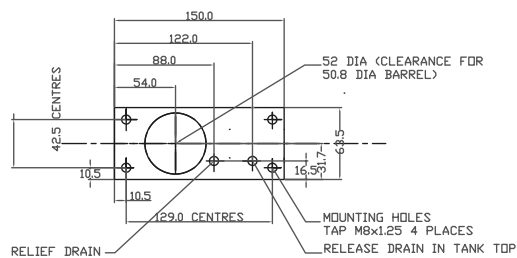
NOTES

1. MATERIALS OF CONSTRUCTION ANODISED AA10 ALUMINIUM ALLOY 5251 CAP POLYMER
2. ALL DIMENSIONS IN mm
3. MASS 1.3 KG DRY
4. USE DATA SHEET 001026300 FOR ORDERING CODES
5. ORDER PUMP AND RESERVOIR AS SEPARATE ITEMS
6. THE RESERVOIR IS NOT A PRESSURE VESSEL. IT MUST ALWAYS BE VENTED TO ATMOSPHERE. MAXIMUM INTERNAL PRESSURE 0.3 BARG
7. NOMINAL CAPACITY 2.5 LITRES (0.67USG)
8. HORIZONTAL MOUNTING AVAILABLE; PLEASE REQUEST AT TIME OF ORDER

HYDRAULIC CIRCUIT FOR MICROPAC PUMP/RESERVOIR



MOUNTING FACE PLAN FOR MICROPAC RESERVOIR



UNLESS OTHERWISE STATED:
 DIMENSIONS IN MILLIMETRES
 SURFACE FINISH IN MICROMETRES
 REMOVE SHARP EDGES

© COPYRIGHT 2020 SARUM HYDRAULICS LTD.



SARUM HYDRAULICS LTD.

SALISBURY, SP4 6EB, UK
 www.sarum-hydraulics.co.uk

TITLE

INSTALLATION DRAWING PUMP/2.5 L ALLOY RESERVOIR

MATERIAL PER NOTE

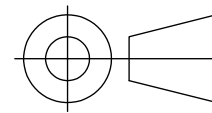
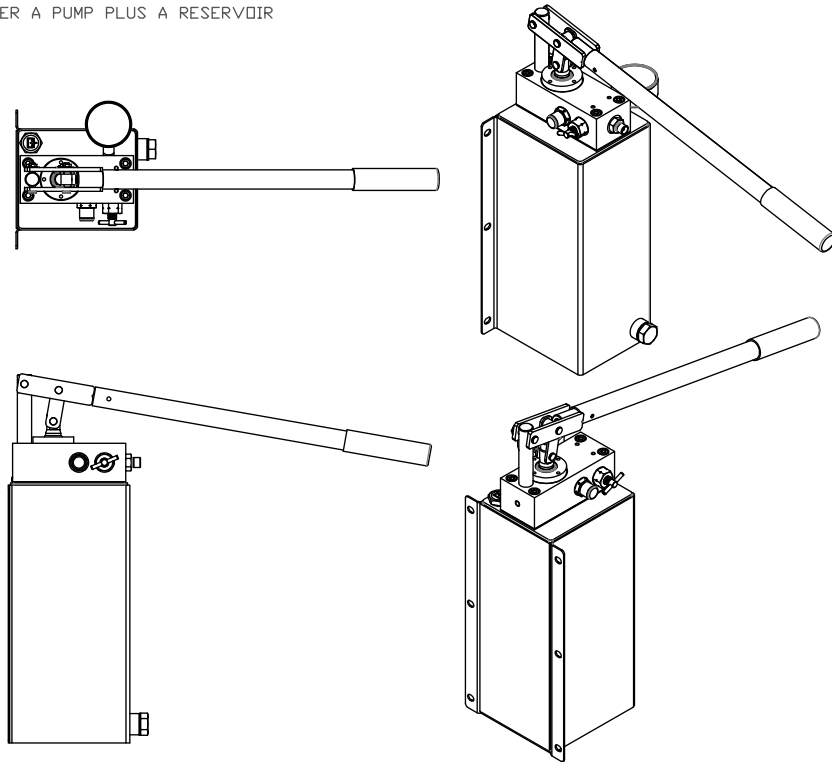
FINISH PER NOTE

DRAWN	JF	APP	
		CHKD	
SCALE	F	SIZE	SHEET OF
CAD	2-D	MR-F-A-02	
DRAWING NO.	MR-F-A-02		

2	2007261	REDRAWN FORM MODEL	07/20
1		FIRST ISSUE	01/07
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED

IF IN DOUBT, ASK THIRD ANGLE PROJECTION

ILLUSTRATION OF MICROPAC MW PUMP MOUNTED ON RESERVOIR MR-F-A-05
ORDER A PUMP PLUS A RESERVOIR



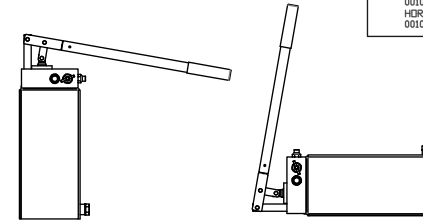
TOLERANCES UNLESS OTHERWISE STATED
GENERAL TOLERANCES RIGHT ANGLE BENDS &
NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°
ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS
TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN
+/-0.1mm T.I.R.
SCREW THREADS ARE ISO METRIC COARSE PITCH
TOL. 6g/6H (MED. FIT) TO BS3643
WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS
GEOMETRICAL TOLERANCING TO BS308 PART 3

PERMISSIBLE MOUNTING ORIENTATION

DEFAULT/STANDARD RESERVOIR VERTICAL. PREFERRED ORIENTATION

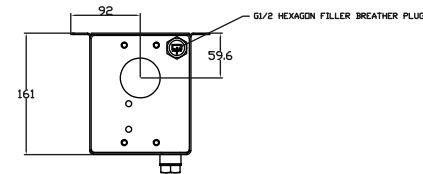
RESERVOIR HORIZONTAL MOUNTING UPON REQUEST
REQUEST AT TIME OF ORDERING TO ACHIEVE FULL CAPACITY.
RESERVOIR REQUIRES SEALING AND LEAK TESTING IN PRODUCTION.

MEMO HORIZONTAL MOUNT INLET KIT 303/DELKIN IS 001069400
HORIZONTAL MOUNT INLET KIT 316/316 FILTER IS 001069500



DIMENSIONS RESERVOIR MR-F-A-05

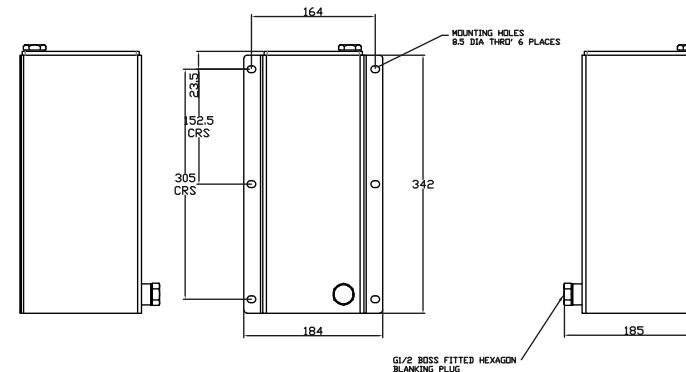
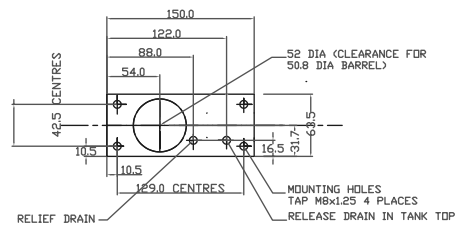
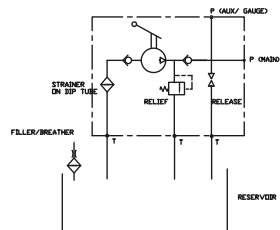
NOTES



1. MATERIALS OF CONSTRUCTION
NATURAL ANODISED AA10 ALUMINIUM ALLOY 5251
CAP POLYMER
2. ALL DIMENSIONS IN mm
3. MASS 1.8 KG DRY
4. USE DATA SHEET 001026300 FOR ORDERING CODES
5. ORDER PUMP AND RESERVOIR AS SEPARATE ITEMS
6. THE RESERVOIR IS NOT A PRESSURE VESSEL.
IT MUST ALWAYS BE VENTED TO ATMOSPHERE
MAXIMUM INTERNAL PRESSURE 0.3 BARG
7. NOMINAL CAPACITY 5 LITRES (1.3USG)
8. HORIZONTAL MOUNTING AVAILABLE; PLEASE REQUEST AT TIME OF ORDER

HYDRAULIC CIRCUIT FOR MICROPAC PUMP/RESERVOIR

MOUNTING FACE PLAN FOR MICROPAC RESERVOIR



UNLESS OTHERWISE STATED:
DIMENSIONS IN MILLIMETRES
SURFACE FINISH IN MICROMETRES
REMOVE SHARP EDGES

© COPYRIGHT 2020 SARUM HYDRAULICS LTD.



SARUM HYDRAULICS LTD.

SALISBURY, SP4 6EB, UK
www.sarum-hydraulics.co.uk

TITLE
INSTALLATION DRAWING PUMP/5 L ALLOY RESERVOIR

MATERIAL PER NOTE
FINISH PER NOTE

DRAWN	JF	APP	
		CHKD	
SCALE	F	SIZE	SHEET OF
CAD	2-D	MR-F-A-05	

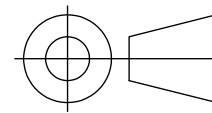
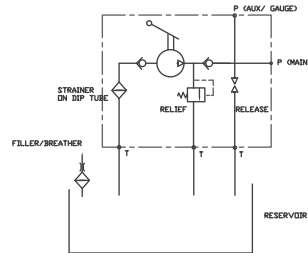
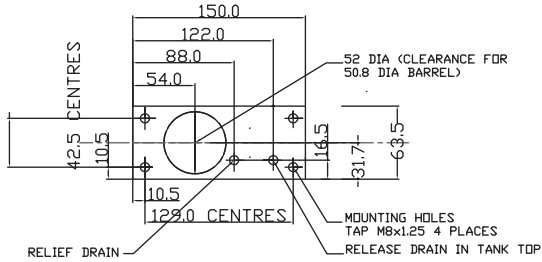
DRAWING NO.
MR-F-A-05

ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
4	2007211	UPDATED FROM MODEL	07/20
3	1101181	NEW PART NO. QUOTED	06/12
2	1101181	TITLE ERROR CORRECTED	01/11
1		FIRST ISSUE	01/07

IF IN DOUBT, ASK THIRD ANGLE PROJECTION

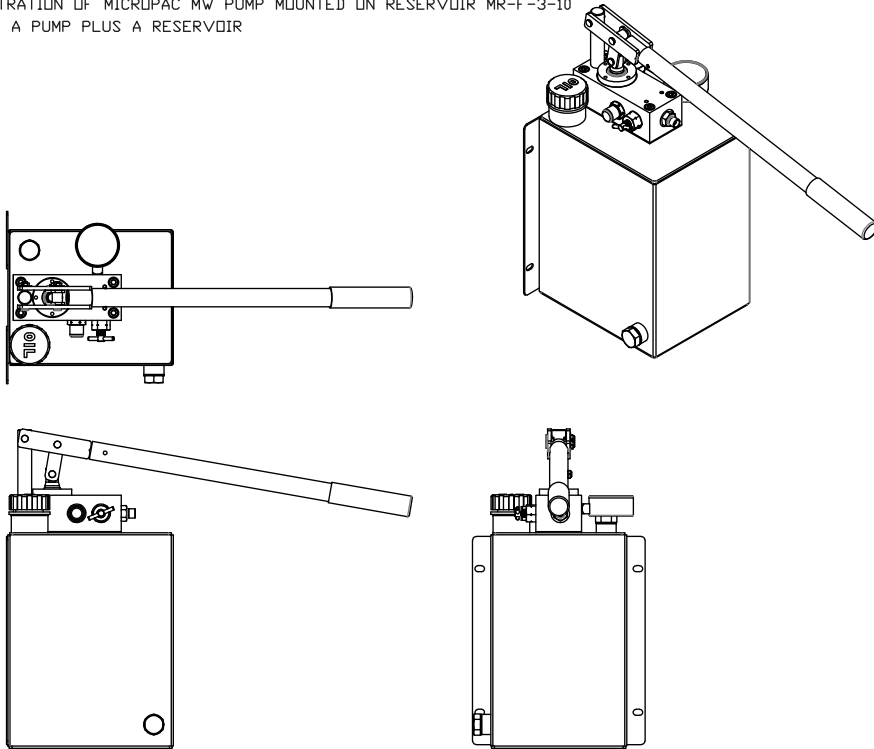
MOUNTING FACE PLAN FOR MICRO PAC RESERVOIR

HYDRAULIC CIRCUIT FOR MICRO PAC PUMP/RESERVOIR



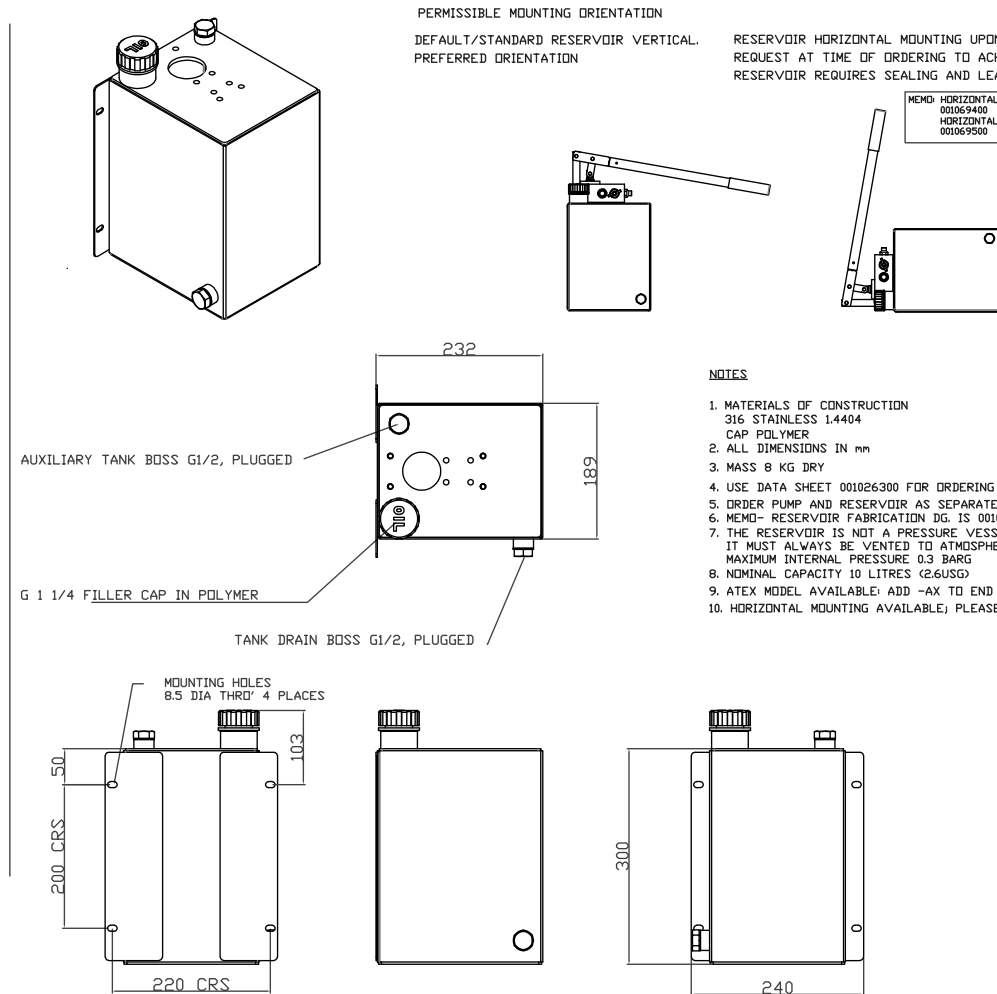
TOLERANCES UNLESS OTHERWISE STATED
GENERAL TOLERANCES RIGHT ANGLE BENDS &
NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°
ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS
TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN
+/-0.1mm T.I.R.
SCREW THREADS ARE ISO METRIC COARSE PITCH
TOL. 6g/6H (MED. FIT) TO BS3643
WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS
GEOMETRICAL TOLERANCING TO BS308 PART 3

ILLUSTRATION OF MICRO PAC MW PUMP MOUNTED ON RESERVOIR MR-F-3-10
ORDER A PUMP PLUS A RESERVOIR



UNLESS OTHERWISE STATED:
DIMENSIONS IN MILLIMETRES
SURFACE FINISH IN MICROMETRES
REMOVE SHARP EDGES

DIMENSIONS RESERVOIR MR-F-3-10



© COPYRIGHT 2020 SARUM HYDRAULICS LTD.



SARUM HYDRAULICS LTD.

SALISBURY, SP4 6EB, UK
www.sarum-hydraulics.co.uk

TITLE
INSTALLATION DRAWING PUMP/10 L 316 RESERVOIR

MATERIAL PER NOTE

FINISH PER NOTE

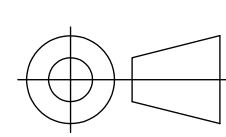
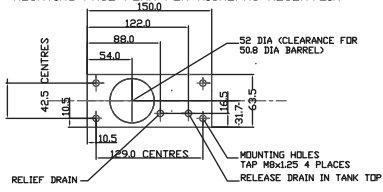
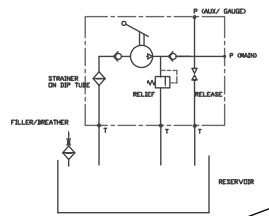
DRAWN	JF	APP	
		CHKD	
SCALE	F	SIZE	SHEET OF
CAD	2-D	MR-F-3-10	
DRAWING NO.	MR-F-3-10		

ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
5	1911231	MIRROR FILLER AND RETURN	11/19
4	1910031	UPDATE TO 3D MODEL ACTUAL	10/19
3	1712011	ADD PUMP DETAIL	12/17
2	1604051	ADD CAP & MASS	01/16
1		FIRST ISSUE	10/12

IF IN DOUBT, ASK THIRD ANGLE PROJECTION

HYDRAULIC CIRCUIT FOR MICRO PAC PUMP/RESERVOIR

MOUNTING FACE PLAN FOR MICRO PAC RESERVOIR



TOLERANCES UNLESS OTHERWISE STATED
 GENERAL TOLERANCES RIGHT ANGLE BENDS &
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITH
 +/-0.1mm T.I.R.
 SCREW THREADS ARE ISO METRIC COARSE PITCH
 TOL. 6g/6H (MED. FIT) TO BS3643
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS
 GEOMETRICAL TOLERANCING TO BS308 PART 3

NOTES

1. MATERIALS OF CONSTRUCTION
316 STAINLESS 1.4404
CAP POLYMER
2. ALL DIMENSIONS IN mm
3. MASS 10 KG DRY
4. USE DATA SHEET 001026300 FOR ORDERING CODES
5. ORDER PUMP AND RESERVOIR AS SEPARATE ITEMS
6. MEMD- RESERVOIR FABRICATION DG. IS 001028600
7. THE RESERVOIR IS NOT A PRESSURE VESSEL.
IT MUST ALWAYS BE VENTED TO ATMOSPHERE
MAXIMUM INTERNAL PRESSURE 0.3 BARG
8. NOMINAL CAPACITY 20 LITRES (5.2USG)
9. ATEX MODEL AVAILABLE: ADD -AX TO END OF ORDERING CODE
10. HORIZONTAL MOUNTING AVAILABLE; PLEASE REQUEST AT TIME OF ORDER

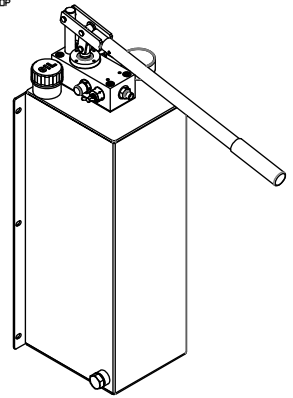
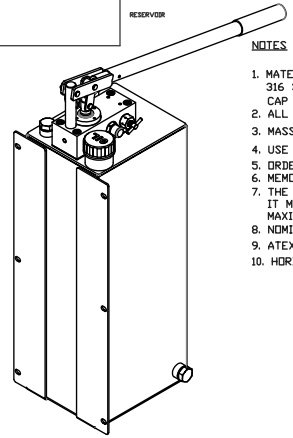
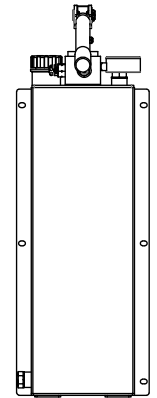
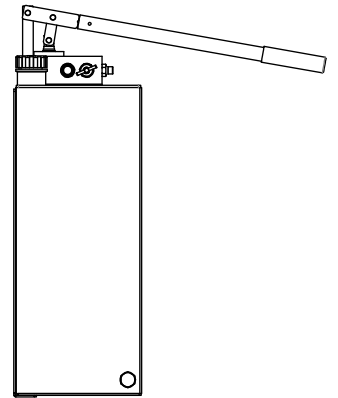
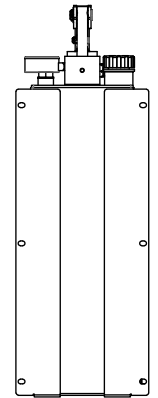
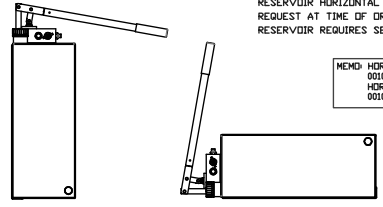


ILLUSTRATION OF MICRO PAC MW PUMP MOUNTED ON RESERVOIR MR-F-3-20
 ORDER A PUMP PLUS A RESERVOIR



PERMISSIBLE MOUNTING ORIENTATION

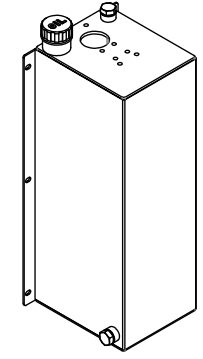
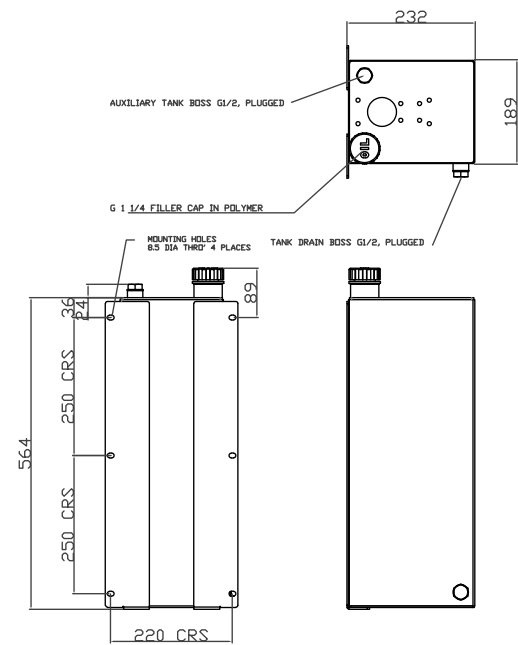
DEFAULT/STANDARD RESERVOIR VERTICAL
 PREFERRED ORIENTATION



RESERVOIR HORIZONTAL MOUNTING UPON REQUEST
 REQUEST AT TIME OF ORDERING TO ACHIEVE FULL CAPACITY.
 RESERVOIR REQUIRES SEALING AND LEAK TESTING IN PRODUCTION.

MEMD- HORIZONTAL MOUNT INLET KIT 303/DELIRIN IS 001069400
 HORIZONTAL MOUNT INLET KIT 316/316 FILTER IS 001069500

DIMENSIONS RESERVOIR MR-F-3-10



UNLESS OTHERWISE STATED:
 DIMENSIONS IN MILLIMETRES
 SURFACE FINISH IN MICROMETRES
 REMOVE SHARP EDGES

© COPYRIGHT 2020 SARUM HYDRAULICS LTD.



SARUM HYDRAULICS LTD.

SALISBURY, SP4 6EB, UK
 www.sarum-hydraulics.co.uk

TITLE
 INSTALLATION DRAWING PUMP/20 L 316 RESERVOIR

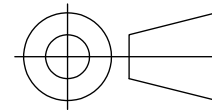
DRAWN JF	APP
	CHKD
SCALE F SIZE	SHEET OF
CAD 2-D MR-F-3-20	
DRAWING NO.	

2	2006231	REDRAWN FROM MODEL	07/20
1		FIRST ISSUE	10/12
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED

MATERIAL PER NOTE
 FINISH PER NOTE

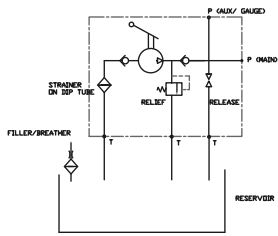
MR-F-3-20

IF IN DOUBT, ASK THIRD ANGLE PROJECTION

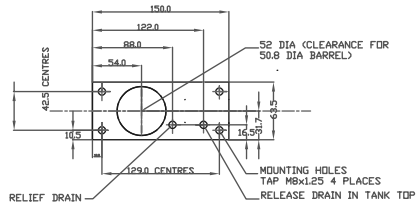


TOLERANCES UNLESS OTHERWISE STATED
 GENERAL TOLERANCES RIGHT ANGLE BENDS &
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN
 +/-0.1mm T.I.R.
 SCREW THREADS ARE ISO METRIC COARSE PITCH
 TOL. 6g/6H (MED. FIT) TO BS3643
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS
 GEOMETRICAL TOLERANCING TO BS308 PART 3

HYDRAULIC CIRCUIT FOR MICROPAC PUMP/RESERVOIR



MOUNTING FACE PLAN FOR MICROPAC RESERVOIR



NOTES

- MATERIALS OF CONSTRUCTION
 316 STAINLESS 1.4404
 CAP POLYMER
- ALL DIMENSIONS IN mm
- MASS 18 KG DRY
- USE DATA SHEET 001026300 FOR ORDERING CODES
- ORDER PUMP AND RESERVOIR AS SEPARATE ITEMS
- MEMO- RESERVOIR FABRICATION DG. IS 001069300
- THE RESERVOIR IS NOT A PRESSURE VESSEL.
 IT MUST ALWAYS BE VENTED TO ATMOSPHERE
 MAXIMUM INTERNAL PRESSURE 0.3 BARG
- NOMINAL CAPACITY 50 LITRES (13.2USG)
- ATEX MODEL AVAILABLE: ADD -AX TO END OF ORDERING CODE

DRAWING OF MICROPAC MR 50 LITRE RESERVOIR MR-F-3-50
 ORDER A PUMP PLUS A RESERVOIR

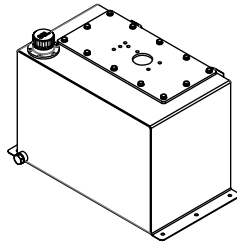
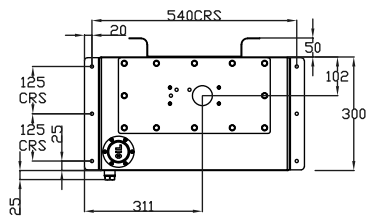
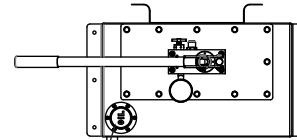
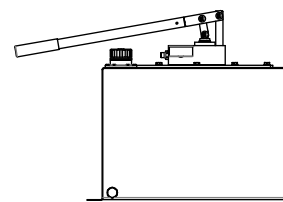
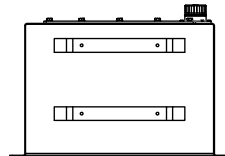
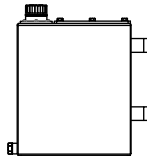
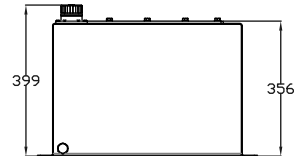
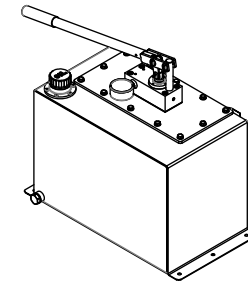


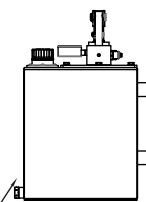
ILLUSTRATION OF MICROPAC MW PUMP MOUNTED ON RESERVOIR MR-F-3-50
 ORDER A PUMP PLUS A RESERVOIR



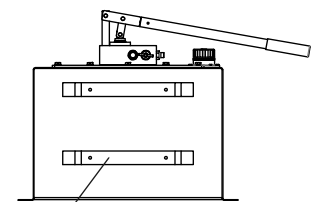
FILLER/BREATHER
 IN POLYMER



DRAIN PLUG
 G1/2



HOSE STOWAGE BRACKETS



UNLESS OTHERWISE STATED:
 DIMENSIONS IN MILLIMETRES
 SURFACE FINISH IN MICROMETRES
 REMOVE SHARP EDGES

© COPYRIGHT 2020 SARUM HYDRAULICS LTD.



SARUM HYDRAULICS LTD.

SALISBURY, SP4 6EB, UK
 www.sarum-hydraulics.co.uk

DRAWN JF	APP
	CHKD
SCALE F SIZE	SHEET OF
CAD 2-D MR-F-3-50	
DRAWING NO.	

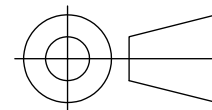
TITLE
INSTALLATION DRAWING PUMP/50 L 316 RESERVOIR

MATERIAL PER NOTE
 FINISH PER NOTE

MR-F-3-50

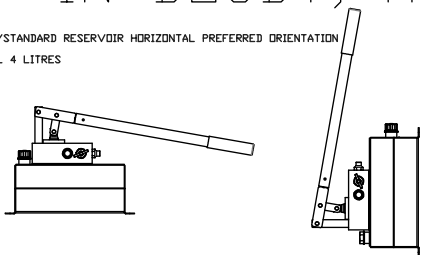
3	2007232	REDRAW FROM MODEL	07/20
2	2003041	ADD HOSE STOWAGE BRACKET	03/20
1		FIRST ISSUE	10/08
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED

IF IN DOUBT, ASK THIRD ANGLE PROJECTION



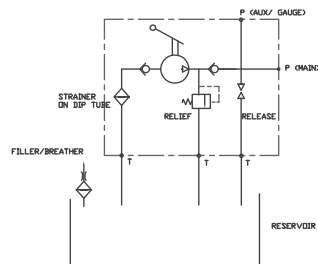
TOLERANCES UNLESS OTHERWISE STATED
 GENERAL TOLERANCES RIGHT ANGLE BENDS &
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN
 +/-0.1mm T.I.R.
 SCREW THREADS ARE ISO METRIC COARSE PITCH
 TOL. 6g/6H (MED. FIT) TO BS3643
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS
 GEOMETRICAL TOLERANCING TO BS308 PART 3

DEFAULT/STANDARD RESERVOIR HORIZONTAL PREFERRED ORIENTATION
 FOR FULL 4 LITRES



VERTICAL OPERATION REQUIRES SPECIAL RESERVOIR
 WITH END FILLER. CONSULT FACTORY

HYDRAULIC CIRCUIT FOR MICRO PAC PUMP/RESERVOIR



NOTES

1. MATERIALS OF CONSTRUCTION
 316 STAINLESS 1.4404
 CAP POLYMER
2. ALL DIMENSIONS IN mm
3. MASS 5 KG DRY
4. USE DATA SHEET 001026300 FOR ORDERING CODES
5. ORDER PUMP AND RESERVOIR AS SEPARATE ITEMS
6. THE RESERVOIR IS NOT A PRESSURE VESSEL.
 IT MUST ALWAYS BE VENTED TO ATMOSPHERE
 MAXIMUM INTERNAL PRESSURE 0.3 BARG
7. NOMINAL CAPACITY 4 LITRES (1 USG)
8. ATEX MODEL AVAILABLE: ADD -AX TO END OF ORDERING CODE

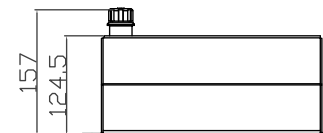
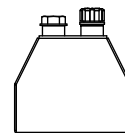
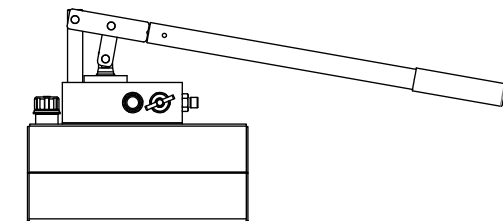
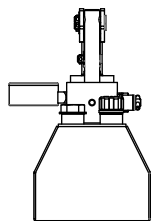
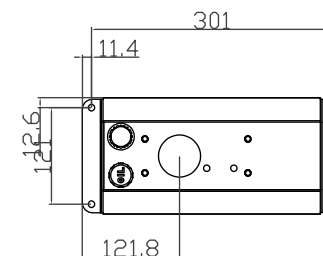
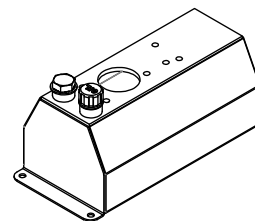
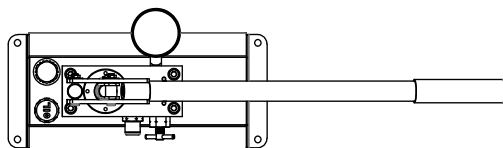
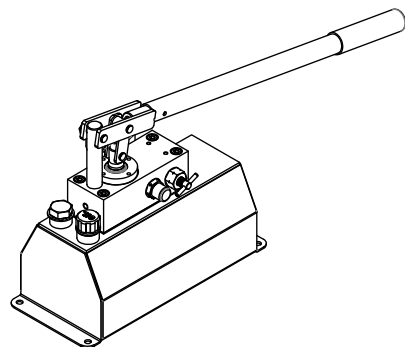
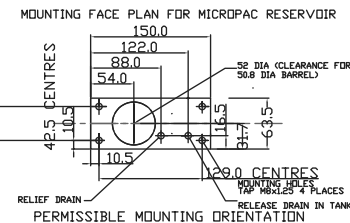


ILLUSTRATION OF MICRO PAC MW PUMP MOUNTED ON RESERVOIR MR-F-3-4E

ORDER A PUMP PLUS A RESERVOIR
 UNLESS OTHERWISE STATED:
 DIMENSIONS IN MILLIMETRES
 SURFACE FINISH IN MICROMETRES
 REMOVE SHARP EDGES

DIMENSIONS RESERVOIR MR-F-3-4E

© COPYRIGHT 2020 SARUM HYDRAULICS LTD.



SARUM HYDRAULICS LTD.

SALISBURY, SP4 6EB, UK
 www.sarum-hydraulics.co.uk

DRAWN JF	APP
	CHKD
SCALE F SIZE	SHEET OF
CAD 2-D MR-F-3-4E	

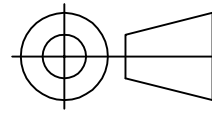
TITLE	INSTALLATION DRAWING PUMP/4L 316 ERGO RESERVOIR
MATERIAL PER NOTE	
FINISH PER NOTE	

DRAWING NO.
MR-F-3-4E

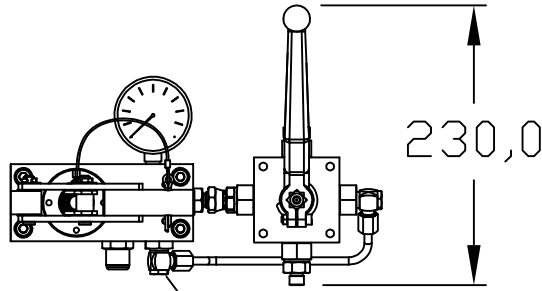
3	2007241	REDRAW FROM MODEL	07/20
2	1511105	MOD RESERVOIR	11/15
1		FIRST ISSUE	05/12
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED

IF IN DOUBT, ASK

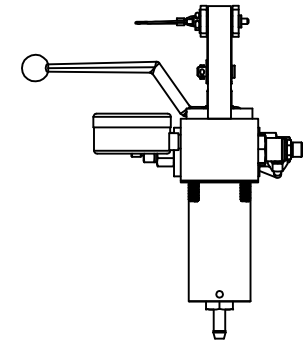
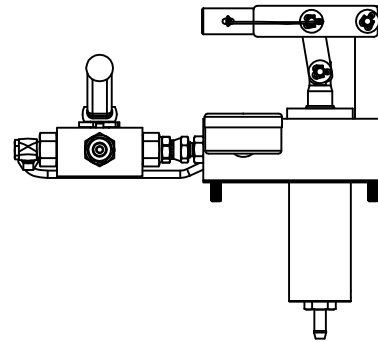
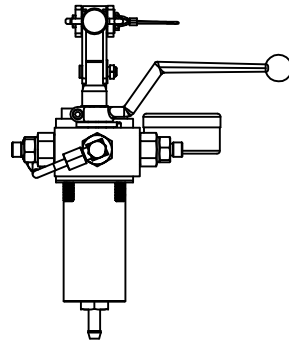
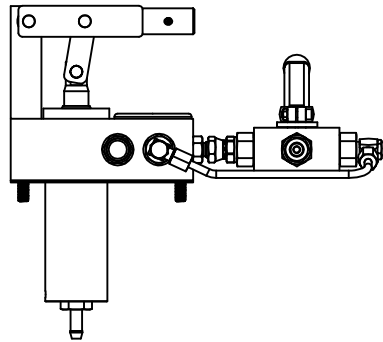
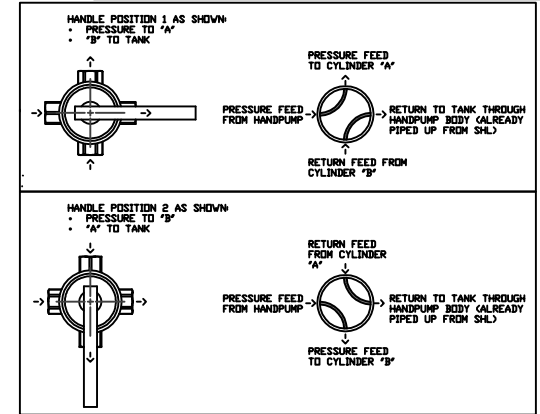
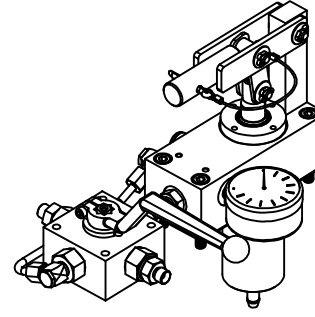
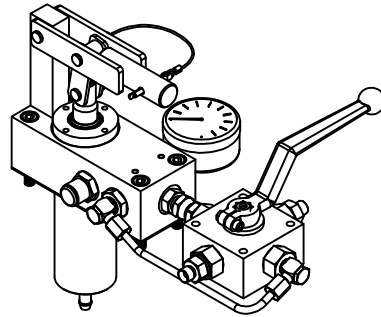
THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED
 GENERAL TOLERANCES RIGHT ANGLE BENDS &
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN
 +/-0.1mm T.I.R.
 SCREW THREADS ARE ISO METRIC COARSE PITCH
 TOL. 6g/6H (MED. FIT) TO BS3643
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS
 GEOMETRICAL TOLERANCING TO BS308 PART 3

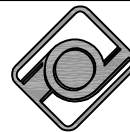


RETURN TUBE FROM VALVE PIPED BACK TO PUMP BODY FOR VENTING BACK TO RESERVOIR



UNLESS OTHERWISE STATED:
 DIMENSIONS IN MILLIMETRES
 SURFACE FINISH IN MICROMETRES
 REMOVE SHARP EDGES

© COPYRIGHT 2024 SARUM HYDRAULICS LTD.



SARUM HYDRAULICS LTD.
 SALISBURY, SP4 6EB, UK
 www.sarum-hydraulics.co.uk

DRAWN	NATO	APP
		CHKD
SCALE	F SIZE	SHEET OF
CAD 2-D	007069800	
DRAWING NO.		007069800

TITLE
 ILLUSTRATION OF MW-A WITH 4-WAY VALVE

1	FIRST ISSUE	01/24
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE
		DATE IMPLEMENTED

MATERIAL --
 FINISH --