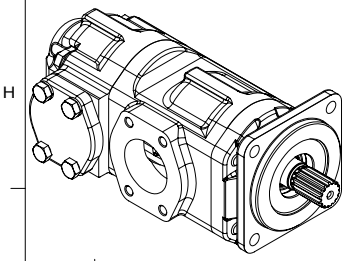
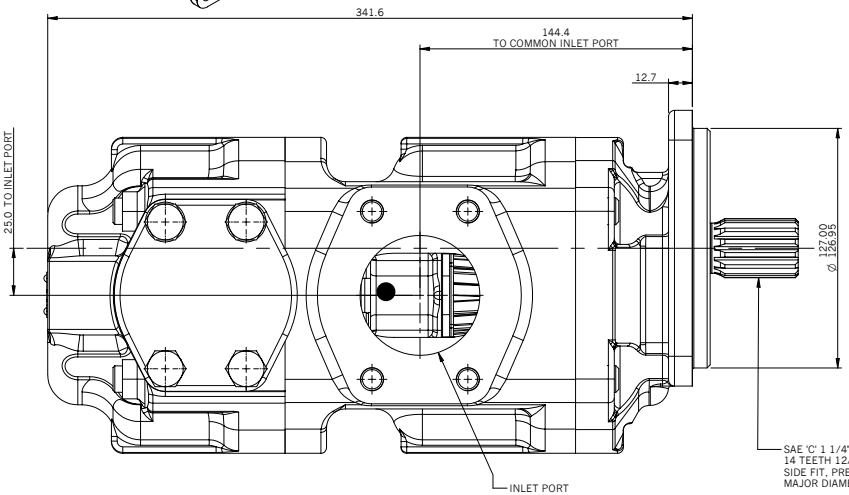
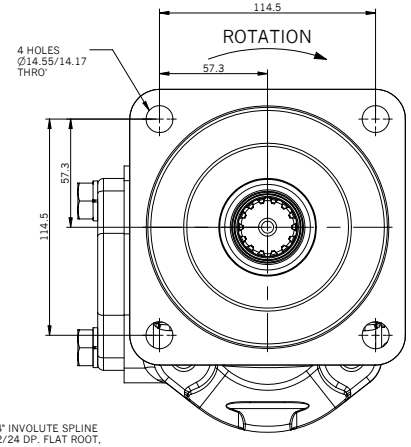
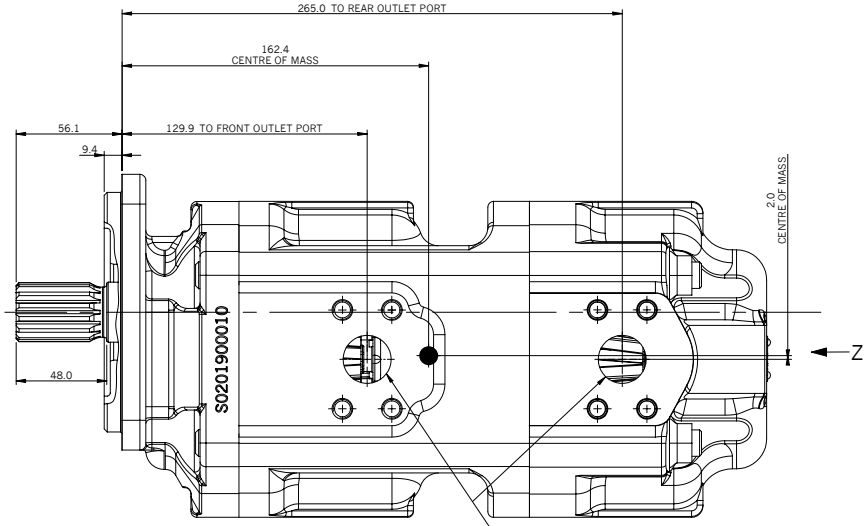
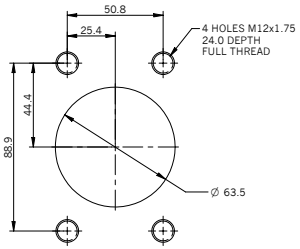


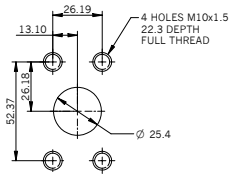






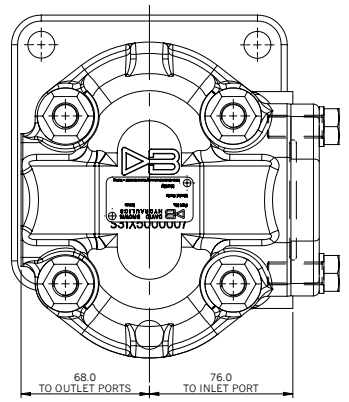


DETAIL 'A'
INLET PORT
2 1/2" SAE SPLIT FLANGE
WITH METRIC THREADS
(SCALE 1:1)



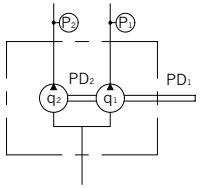
DETAIL 'B'
OUTLET PORTS
1" SAE SPLIT FLANGE
WITH METRIC THREADS
(SCALE 1:1)

Outlet Port Pressures	See table below
Shaft ratings	See table below
Inlet Port Pressures	Maximum 2 bar absolute Minimum -150mmHgwith a fluid viscisity of 23 CSt @ max engine speed
Speed Range	All models.....450 - 3000 rev/min
Temperature	Minimum at start-up.....-40°C (-40°F) Maximum continuous.....+80°C (+176°F) Maximum intermittent.....+100°C (212°F)
Viscosity	Maximum at start-up.....2000 mm²/sec (9,000 SSU) Maximium continuous.....250 mm²/sec (1150 SSU) Minimum continuous.....10 mm²/sec (60 SSU) Optimum.....15-25 mm²/sec (78-124 SSU)
Fluid Cleanliness	To ISO4406 solid contaminant Start-up period.....21/17 Maximum in service.....19/15 Optimum.....16/11 Maximum water.....0.1%
Fluid Velocity	Maximum allowable in INLET line .....2.5 m/sec (8 ft/sec) Recommended maximum in INLET line.....1.5 m/sec (5ft/sec) Ideal value.....1.0 m/sec (3.3 ft/sec)
Shaft Loads	Maximum end load.....250 N (56lb) Maximum radial load.....500 N (112lb)
Fluids	All data is quoted for mineral oils type HM and HV For fire resistant and environmentally aware fluids please contact David Brown Hydraulics
Rotation	Clockwise viewed from shaft end (not reversible).



VIEW ON 'Z'

MODEL 146208	DISPLACEMENT CM³/REV.	SPEED (RPM)		PRESSURE (BAR)	
		RATED	PEAK	RATED	PEAK
FRONT PUMP X5068	68	2500	3000	210	235
REAR PUMP X5068	68	2500	3000	210	235
MODEL WEIGHT 36.24kg	MOMENT OF INERTIA14586 g cm^4				

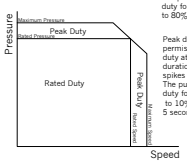


PD * = PRESSURE * DISPLACEMENT = TORQUE LIMIT
P* = OUTLET PRESSURE BAR
q* = PUMP DISPLACEMENT CC/REV

PD1 = P1 q1 + P2 q2 <= 45565
PD2 = P2 q2 <= 21250

Rated duty is defined as the maximum permissible duty at at the pump outlet excluding short duration spikes such as relief valve overshoot. The pump may be operated at the rated duty for up to 80% of the duty cycle

Peak duty is defined as the maximum permissible duty at at the pump outlet including short duration spikes such as relief valve overshoot. The pump may be operated at the rated duty for up to 10% of the duty cycle but not exceeding 5 seconds in any one load cycle.



GEOMETRIC TOLERANCE SYMBOLS

DO NOT SCALE DRAWING - IF IN DOUBT ASK

ISSUE	ZONE	ECN	DESCRIPTION	DATE	BY	CHK
B	VAR	N/A	N/A	27.07.07	JAS	JAS
A	1st ISSUE	N/A	N/A	15.08.01	SRP	JAS

NOTES
1. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES.
2. TOL. ON NON-MACHINING DIMENSIONS ± .25 mm.
TOL. ON MACHINING FLANGE DIMENSIONS ± .10 mm.
TOL. ON ANGULAR DIMENSIONS ± 30 mins.
3. REMOVE SHARP CORNERS AND BURRS ON MACHINED SURFACES
1.5/.20mm x 45° CHAMFERS.
4. ALL TAPPED HOLES TO BE CHAMFERED 90° TO MAJOR DIAMETER.
5. MC SURFACES TO BE 3.2 µ M. (ROUGHNESS NO UNLESS OTHERWISE STATED

ROUGH NUMBER - | MADE FROM -

SUPERSEDES -
SUPERSEDED BY -
USED ON X5

MATERIAL NONE
TREATMENT NONE

	ORN	DATE
	JAS	2.09.04
CH	JAS	2.09.04
APPD	JAS	2.09.04

DESCRIPTION
X1A50685068/146208/1C
- DUAL PUMP - 1 INLET

THIRD ANGLE PROJECTION
SCALE 1:2
DRG. SIZE A0
DAVID BROWN HYDRAULICS
POOLE - DORSET - ENGLAND
PART NUMBER J146208
SHT 1 OF 1
PART ISSUE B
S.E. DOCUMENT