

PUMP & HYDRAULIC INFORMATION

TABLE 1

MODEL	RELIEF PRESSURE		MAX. RECOMMENDED OIL FLOW		POWER NEEDED @ RECOMMENDED FLOW		RECOMMENDED PUMP MODEL	PTO RATIO
		PSI	L/Min.	GPM	KW	HP		
XR5S	30	4350	20	5.5	10	14	25L SAE B - PUMP	80
XR7S	30	4350	35	10	18	24	47L SAE B - PUMP	75
XR8S	30	4350	35	10	18	24	47L SAE B - PUMP	75
XR10S	30	4350	40	11	20	27	47L SAE B - PUMP	85
OPT15S	30	4350	60	16	30	40	64L DIN - PUMP	95
ULT14S	30	4350	60	16	30	40	64L DIN - PUMP	95
ULT16S	30	4350	80	21	40	54	84L DIN - PUMP	95
ULT21S	30	4350	100	26	50	67	84L DIN - PUMP	120
ULT26S	30	4350	120	31	60	81	108L DIN - PUMP	120
ULT30S	30	4350	120	31	60	81	108L DIN - PUMP	120

TABLE 2 – PUMP & RESERVOIR

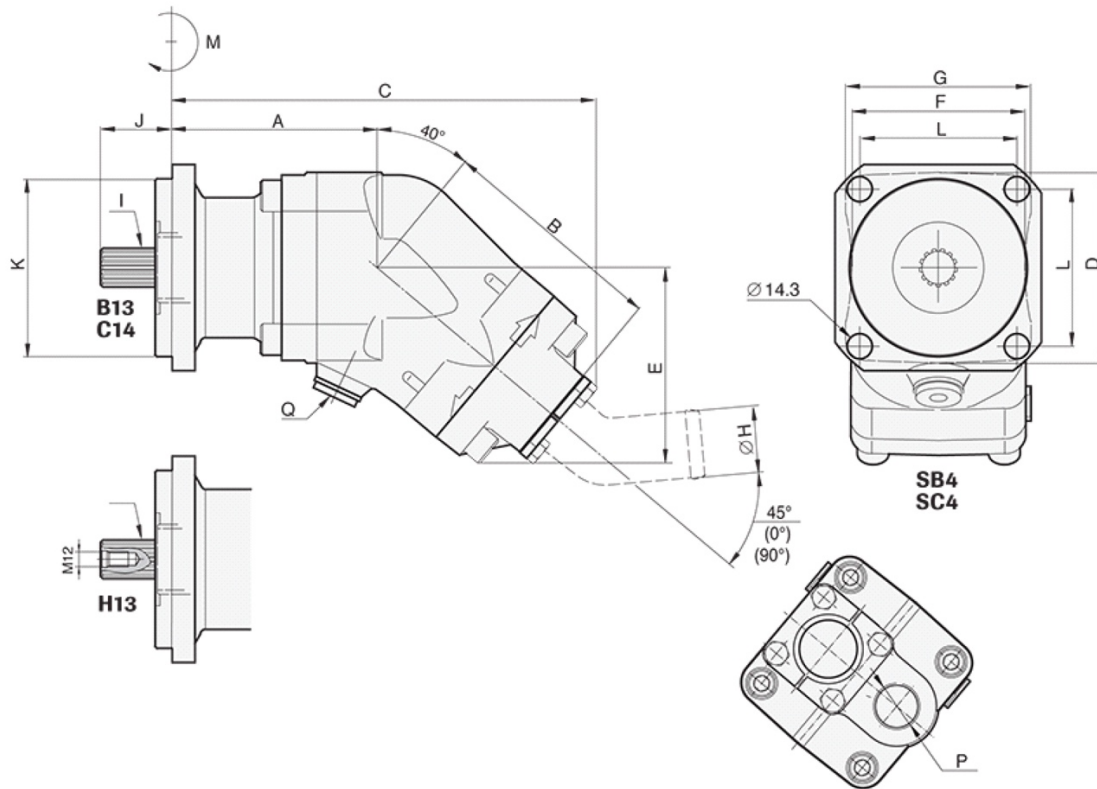
MODEL	PUMP - PART NO.	SPLINE SHAFT	MOUNTING FLANGE	HYDRAULIC RESERVOIR
			4-Bolt Mounting Pattern	
XR5S	S20292	SAE B (13T-16/32DP)	SAE B4	2.1 gal.
XR7S	S20289	SAE B (13T-16/32DP)	SAE B4	8.4 gal.
XR8S	S20289	SAE B (13T-16/32DP)	SAE B4	8.4 gal.
XR10S	S20289	SAE B (13T-16/32DP)	SAE B4	8.4 gal.
OPT15S	3398048	DIN 5462 / ISO 14	DIN 4-H (ISO 7653-D)	26.4 gal.
ULT14S	3398048	DIN 5462 / ISO 14	DIN 4-H (ISO 7653-D)	26.4 gal.
ULT16S	3394435	DIN 5462 / ISO 14	DIN 4-H (ISO 7653-D)	26.4 gal.
ULT21S	3394435	DIN 5462 / ISO 14	DIN 4-H (ISO 7653-D)	26.4 gal.
ULT26S	3394437	DIN 5462 / ISO 14	DIN 4-H (ISO 7653-D)	26.4 gal.
ULT30S	3394437	DIN 5462 / ISO 14	DIN 4-H (ISO 7653-D)	26.4 gal.

TABLE 3 – HOSES & FITTINGS

MODEL	SUCTION FITTING	SUCTION LINE	PRESSURE FITTING	PRESSURE LINE	RETURN LINE
	Part Number: Connects to Pump @ 45°		Part Number: Connects to Pump @ 0°		
			Threaded Adapter BSPP to JIC		
XR5S	USS20100	1-1/2"	250350	3/4" BSPP 1-1/16" JIC	3/4"
XR7S	USS20101	2"	250350	3/4" BSPP 1-1/16" JIC	3/4"
XR8S	USS20101	2"	250350	3/4" BSPP 1-1/16" JIC	3/4"
XR10S	USS20101	2"	250350	3/4" BSPP 1-1/16" JIC	3/4"
OPT15S	SF20139	2-1/2"	250350	3/4" BSPP 1-1/16" JIC	1"
ULT14S	SF20139	2-1/2"	250350	3/4" BSPP 1-1/16" JIC	1"
ULT16S	9858407	2-1/2"	SF50300	1" BSPP 1-1/16" JIC	1"
ULT21S	9858407	2-1/2"	SF50300	1" BSPP 1-1/16" JIC	1"
ULT26S	9858407	2-1/2"	SF50300	1" BSPP 1-1/16" JIC	1"
ULT30S	9858407	2-1/2"	SF50300	1" BSPP 1-1/16" JIC	1"

MULTILIFT is not responsible for damage caused due to excessive pressure, power or flow. Installer is responsible for the proper mating of components. The information in this document should cover most, if not all questions related to the pump and hydraulic installation.

SAE B – PUMP



DIN – PUMP

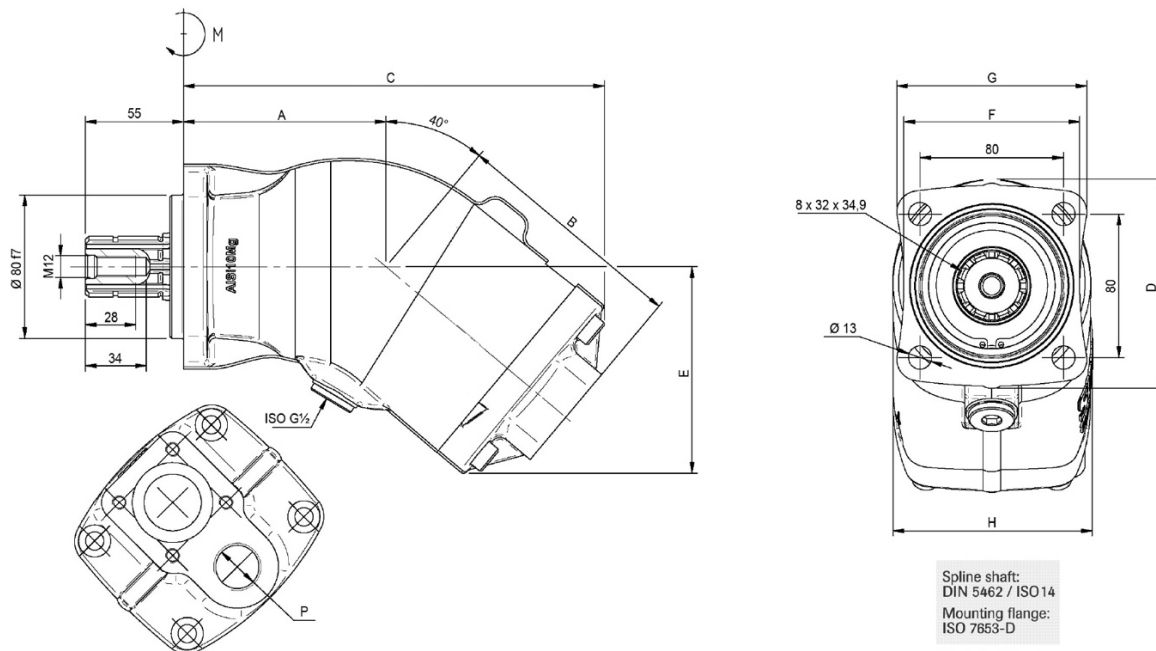


TABLE 4 – PUMP SPECIFICATIONS

MODEL		SCP-025	SCP-047	SAP-064	SAP-084	SAP-108
Theoretical oil flow at pump speed (GPM)	500 RPM	3.4	6.2	8.4	11.0	14.3
	1000 RPM	6.7	12.4	16.8	22.1	28.5
	1500 RPM	10.1	18.7	25.2	33.1	42.8
Displacement (fixed)	cu. in. / rev.	1.55	2.87	3.88	5.10	6.59
Max. pump speed: (RPM)	continuous	2300	1900	1900	1600	1600
	limited	3000	2500	2500	2100	2100
Max. working pressure	psi.	5800	5800	5800	5800	5800
Weight	lb.	19.6	27.1	21.6	30.6	30.6
Dimensions (in.)	A	3.98	4.61	4.45	4.8	4.8
	B	4.61	5.12	5.16	5.79	5.79
	C	8.23	9.25	9.25	10.39	10.39
	D	3.9	4.29	4.65	5	5
	E	3.82	4.41	4.53	5.24	5.24
	F	3.5	3.9	3.86	3.86	3.86
	G	3.82	4.17	4.17	4.17	4.17
	H	1.5	1.5	4.37	4.65	4.65
	I	1.97 (SAE B 13T-16/32DP)		DIN 5462 / ISO 14		
	J	1.61	1.61	2.17	2.17	2.17
	K	4	4			
	L	3.54	3.54	3.15	3.15	3.15
Pressure Port	P	¾ (ISO G)	¾ (ISO G)	¾ (ISO G)	1 (ISO G)	1 (ISO G)
	Q	½ (ISO G)	½ (ISO G)	½ (ISO G)	½ (ISO G)	½ (ISO G)
Tare-weight torque (ft. lb.)		5.46	9.59	8.48	13.28	13.28
Direction of rotation		Left (L) or Right (R)		Left (L) or Right (R)		

TABLE 5 – HYDRAULIC OIL SPECIFICATIONS

Ambient Temperature Range		ISO - VG	Type	Quality Classification	Degree of Cleanliness
F°	C°				
-13 to 50	-25 to 10	22	Mineral Oil	ISO 6743-4 type HV or DIN 51524 part 3 type HVLP	16/13 (ISO 4406)
5 to 68	-15 to 20	32	Mineral Oil	ISO 6743-4 type HV or DIN 51524 part 3 type HVLP	16/13 (ISO 4406)
23 to 86	-5 to 30	46	Mineral Oil	ISO 6743-4 type HV or DIN 51524 part 3 type HVLP	16/13 (ISO 4406)
59 to 122	15 to 50	68	Mineral Oil	ISO 6743-4 type HV or DIN 51524 part 3 type HVLP	16/13 (ISO 4406)

Always consult your local hydraulic oil supplier to ensure the selected oil (premium anti-wear) meets the characteristics for the operating environment in question. Information above (Table 4) is provided in the MULTILIFT Operator's Manual (customer hard copy included with each unit shipped).

NOTES:

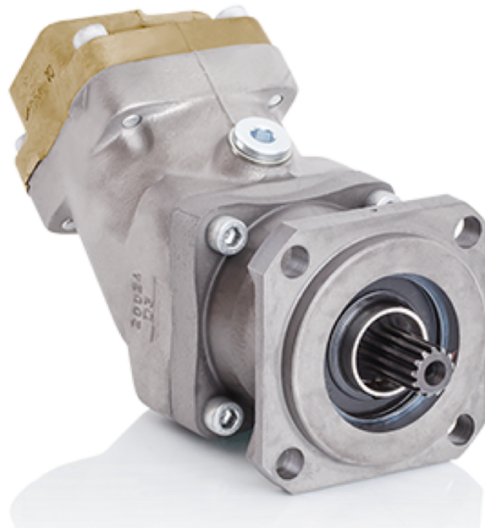
- MULTILIFT part numbers (Tables 2 & 3) are listed in red.
- Pumps listed operate using fixed displacement.
- Pumps rotate in a single direction (clockwise or counter clockwise).
- All MULTILIFT supplied pumps are reversible. To change direction: remove the four bolts holding the end plate, DO NOT remove the end plate itself (avoids contamination or other potential issues), rotate or spin the end plate 180° and reinstall the four bolts.
- Avoid system overload. Compare the tare-weight torque (ft. lb.) and the power output with the maximum permissible values for the power take off.
- 12v bypass system available for pumps that need to rotate even when the equipment is not being used.

For more information, contact MULTILIFT (HIAB) by phone **(844) 442-2911** or email (support@hiabtechline.zendesk.com).

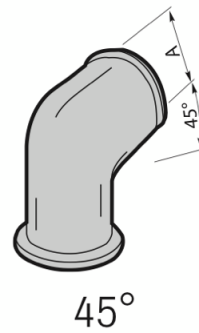
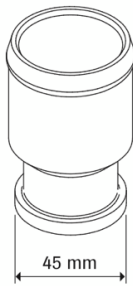
SAE B – PUMP



Pump – suction fitting install kit

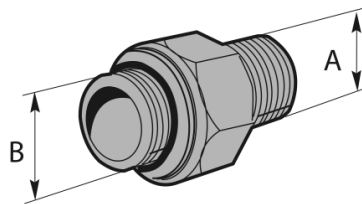


Pump



Suction Fitting

A		MAX. FLOW		PART NO.	HOOKLIFT
mm	inches	l/min	gpm		
38	1-1/2"	65	17	USS20100	XR5
50	2"	120	32	USS20101	XR7, XR8, XR10



Pressure Fitting

MAX. FLOW		A		B		PART NO.	HOOKLIFT
l/min	gpm	BSPP	taper	JIC	taper		
90	24	3/4"	-	1-1/16"	ext. 74°	250350	XR Models

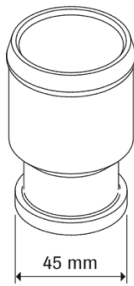
DIN – PUMP



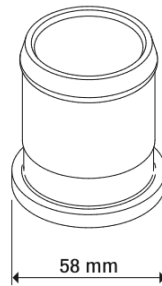
Pump – suction fitting install kit



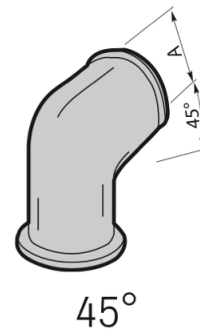
Pump



OPT15, ULT14



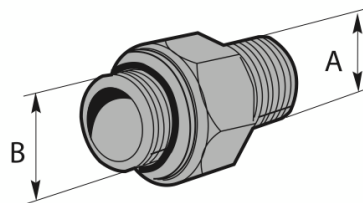
ULT16, ULT21, ULT26, ULT30



45°

Suction Fitting

A		MAX. FLOW		PART NO.	HOOKLIFT
mm	inches	l/min	gpm		
64	2-1/2"	165	44	SF20139	OPT15, ULT14
64	2-1/2"	165	44	9858407	ULT16, ULT21, ULT26, ULT30



Pressure Fitting

MAX. FLOW		A		B		PART NO.	HOOKLIFT
l/min	gpm	BSPP	taper	JIC	taper		
90	24	3/4"	-	1-1/16"	ext. 74°	250350	OPT15, ULT14
160	42	1"	-	1-1/16"	ext. 74°	SF50300	ULT16, ULT21, ULT26, ULT30

Suction curve and gate valve

