



HYDRAULIC HANDBOOK



HIRSCH HYDRAULIC

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THE HYDRAULIC HANDBOOK



EIGHTH EDITION

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PURPOSES ONLY. THIS DOES NOT IMPLY THAT ANY PARTS LISTED IS THE PRODUCT OF THESE MANUFACTURERS.

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Part Number	VALVES MONOBLOCK		RETAIL:
			08-08-2024
	<u>MB - 4 - TAK - BOK SERIES</u>		
	(60 LITRES FLOW RATE 1/2" PORTS)		
60H-MB-4-1-1-2	MB - 4 / 1 - S - 3 / 18 L / G - 4 / M 3	ONE SPOOL	
60H-MB-4-2-1-2	MB - 4 / 2 - S - 3 / 18 L / G - 4 / M 3	TWO SPOOL	
60H-MB-4-3-1-2	MB - 4 / 3 - S - 3 / 18 L / G - 4 / M 3	THREE SPOOL	
60H-MB-4-4-1-2	MB - 4 / 4 - S - 3 / 18 L / G - 4 / M 3	FOUR SPOOL	
60H-MB-4-5-1-2	MB - 4 / 5 - S - 3 / 18 L / G - 4 / M 3	FIVE SPOOL	
60H-MB-4-6-1-2	MB - 4 / 6 - S - 3 / 18 L / G - 4 / M 3	SIX SPOOL	
	<u>SPOOL TYPE</u>		
60H-YLMB43001	SPOOL DOUBLE ACTING ON PORT (A & B) (SPOOL TYPE 1)		
60H-YLMB43002	SPOOL MOTOR ACTING ON PORT (A & B) (SPOOL TYPE 2)		
60H-YLMB43003	SPOOL SINGLE ACTING ON PORT (A) (SPOOL TYPE 3) (SPOOL IN) LEVER OUT		
60H-YLMB43004	SPOOL SINGLE ACTING ON PORT (B) (SPOOL TYPE 4) (SPOOL OUT) LEVER IN		
	<u>SPOOL CONTROL</u>		
60H-YLMB44061	3 POSITION DETENT KIT TYPE (6-1)		
60H-YLMB44092	1 POSITION DETENT KIT TYPE (9-2) DETENT IN PORT B WITH SPRING CENTRED		
60H-YLMB44093	1 POSITION DETENT KIT TYPE (9-3) DETENT IN PORT A WITH SPRING CENTRED		
60H-YLMB44080	PNEUMATIC CONTROL KIT TYPE (8P)		
60H-YLMB48EP3	ELECTRO PNEUMATIC CONTROL KIT TYPE (8EP3) 12 OR 24 VOLT (TO BE ADDED TO ABOVE)		
60H-YLMB45002	JOYSTICK KIT TYPE (LCB)		
60H-YLMB44200	DUAL CONTROL KIT TYPE (8D2)		
	<u>ACCESSORIES</u>		
60H-YLMB45000	LEVER BOX KIT TYPE (L)		
60H-YLMB34007	LEVER BOX KIT TYPE (7 L) NYLON		
60H-YLMB44008	END CAP KIT TYPE (8)		
60H-YLMB35000	END CAP KIT TYPE (7) NYLON		
60H-YLMB45001	DUST CAP KIT TYPE (SPL)		
60H-YLMB08160	LEVER KIT TYPE (YLO2M8X160)		
60H-YLMB42003	RELIEF VALVE CARTRIDGE TYPE (MG-3) RANGE 63 - 200 BAR		
60H-YLMB42002S	RELIEF VALVE SPRING KIT TYPE (MG-2) RANGE 40 - 80 BAR		
60H-YLMB42003S	RELIEF VALVE SPRING KIT TYPE (MG-3) RANGE 63 - 200 BAR		
60H-YLMB42004S	RELIEF VALVE SPRING KIT TYPE (MG-4) RANGE 160 - 315 BAR		
60H-YLMB454121	DUMP - G04 - 12V DC (NC) - 2TXV021		
	<u>TECHNICAL SPECIFICATIONS</u>		
	<u>THREADS AND SIZES:</u>		
	A - PORT ON TOP	1/2" BSPP	
	B - PORT ON TOP	1/2" BSPP	
	P - PORT ON TOP	1/2" BSPP	
	T - PORT ON TOP	1/2" BSPP	
	C/O - PORT ON SIDE	1/2" BSPP	
	<u>RECOMMENDED FLOW RATE:</u>		
	60 LITRES PER MIN.		
	<u>PRESET OPERATING PRESSURE:</u>		
	120 BAR		
	<u>MAXIMUM OPERATING PRESSURE:</u>		
	315 BAR		
	<u>TANK LINE PRESSURE:</u>		
	25 BAR		
	<u>PORT IDENTIFICATION</u>		
	PORT (B) CLOSEST TO SPRING		
	PORT (A) CLOSEST TO LEVER		
			
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE A 2

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Part Number	VALVES MONOBLOCK		RETAIL:
			08-08-2024
	<u>MB - 5 - TAK - BOK SERIES</u>		
	(90 LITRES FLOW RATE 1/2" PORTS)		
60H-MB-5-1-1-2	MB - 5 / 1 S - 3 / 1 8 L / G - 4 - 6 / M 3	ONE SPOOL	
60H-MB-5-2-1-2	MB - 5 / 2 S - 3 / 1 8 L / G - 4 - 6 / M 3	TWO SPOOL	
60H-MB-5-3-1-2	MB - 5 / 3 S - 3 / 1 8 L / G - 4 - 6 / M 3	THREE SPOOL	
60H-MB-5-4-1-2	MB - 5 / 4 S - 3 / 1 8 L / G - 4 - 6 / M 3	FOUR SPOOL	
60H-MB-5-5-1-2	MB - 5 / 5 S - 3 / 1 8 L / G - 4 - 6 / M 3	FIVE SPOOL	
60H-MB-5-6-1-2	MB - 5 / 6 S - 3 / 1 8 L / G - 4 - 6 / M 3	SIX SPOOL	
	<u>POSSIBLE OPTIONS</u>		
60H-YLMB5COPG6	POWER BEYOND POSSIBLE ; USE POWER BEYOND SLEEVE		
60H-4B-08	CLOSED CENTER POSSIBLE ; USE ABOVE & 1/2" BSPP HEX ADAPTOR & WASHER		
	<u>SPOOL TYPE</u>		
60H-YLMB53001	SPOOL DOUBLE ACTING ON PORT (A & B) (SPOOL TYPE 1)		
60H-YLMB53002	SPOOL MOTOR ACTING ON PORT (A & B) (SPOOL TYPE 2)		
60H-YLMB53003	SPOOL SINGLE ACTING ON PORT (A) (SPOOL TYPE 3) (SPOOL IN) LEVER OUT		
60H-YLMB53004	SPOOL SINGLE ACTING ON PORT (B) (SPOOL TYPE 4) (SPOOL OUT) LEVER IN		
	<u>SPOOL CONTROL</u>		
60H-YLMB54061	3 POSITION DETENT KIT TYPE (6-1)		
60H-YLMB54092	1 POSITION DETENT KIT TYPE (9-2) DETENT IN PORT B WITH SPRING CENTRED		
60H-YLMB54093	1 POSITION DETENT KIT TYPE (9-3) DETENT IN PORT A WITH SPRING CENTRED		
60H-YLMB54080	PNEUMATIC CONTROL KIT TYPE (8P)		
60H-YLMB58EP3	ELECTRO PNEUMATIC CONTROL KIT TYPE (8EP3) 12 OR 24 VOLT (TO BE ADDED TO ABOVE)		
60H-YLMB55002	JOYSTICK KIT TYPE (LCB)		
60H-YLMB54082	DUAL CONTROL KIT TYPE (8D2)		
60H-MB5-1DRHL	ROTARY DETENT KIT TYPE PLUS LEVER		
	<u>ACCESSORIES</u>		
60H-YLMB55000	LEVER BOX KIT TYPE (L)		
60H-YLMB54008	END CAP KIT TYPE (8)		
60H-YLMB55001	DUST CAP KIT TYPE (SPL)		
60H-YLMB10200	LEVER KIT TYPE (YLO1M10X200)		
60H-YLMB52003	RELIEF VALVE CARTRIDGE TYPE (AG-3) RANGE 125 - 250 BAR		
60H-YLMB52002S	RELIEF VALVE SPRING KIT TYPE (DG-2) RANGE 80 - 160 BAR		
60H-YLMB52003S	RELIEF VALVE SPRING KIT TYPE (DG-3) RANGE 125 - 250 BAR		
60H-YLMB52004S	RELIEF VALVE SPRING KIT TYPE (DG-4) RANGE 200 - 315 BAR		
	<u>TECHNICAL SPECIFICATIONS</u>		
	<u>THREADS AND SIZES:</u>		
	A - PORT ON TOP	1/2" BSPP	
	B - PORT ON TOP	1/2" BSPP	
	P - PORT ON TOP	1/2" BSPP	
	T - PORT ON TOP	3/4" BSPP	
	C/O - PORT ON SIDE	3/4" BSPP	
	<u>RECOMMENDED FLOW RATE:</u>		
	80 LITRES PER MIN.		
	<u>PRESET OPERATING PRESSURE:</u>		
	120 BAR		
	<u>MAXIMUM OPERATING PRESSURE:</u>		
	315 BAR		
	<u>TANK LINE PRESSURE:</u>		
	25 BAR		
	<u>PORT IDENTIFICATION</u>		
	PORT (A) CLOSEST TO SPRING		
	PORT (B) CLOSEST TO LEVER		
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE A 4

Part Number	VALVES STACK		RETAIL:
			08-08-2024
	<u>SN - 4 - TAK - BOK SERIES</u>		
	(80 LITRES FLOW RATE 1/2" PORTS)		
61H-SN-4-1-1-2	SN - 4 / 1 S - 3 / 1 8 L / P 3 T / G - 4 - 6 / M 3	ONE SPOOL	
61H-SN-4-2-1-2	SN - 4 / 2 S - 3 / 1 8 L / P 3 T / G - 4 - 6 / M 3	TWO SPOOL	
61H-SN-4-3-1-2	SN - 4 / 3 S - 3 / 1 8 L / P 3 T / G - 4 - 6 / M 3	THREE SPOOL	
61H-SN-4-4-1-2	SN - 4 / 4 S - 3 / 1 8 L / P 3 T / G - 4 - 6 / M 3	FOUR SPOOL	
61H-SN-4-5-1-2	SN - 4 / 5 S - 3 / 1 8 L / P 3 T / G - 4 - 6 / M 3	FIVE SPOOL	
61H-SN-4-6-1-2	SN - 4 / 6 S - 3 / 1 8 L / P 3 T / G - 4 - 6 / M 3	SIX SPOOL	
61H-SN-4-7-1-2	SN - 4 / 7 S - 3 / 1 8 L / P 3 T / G - 4 - 6 / M 3	SEVEN SPOOL	
61H-SN-4-8-1-2	SN - 4 / 8 S - 3 / 1 8 L / P 3 T / G - 4 - 6 / M 3	EIGHT SPOOL	
61H-SN-4-9-1-2	SN - 4 / 9 S - 3 / 1 8 L / P 3 T / G - 4 - 6 / M 3	NINE SPOOL	
61H-SN-4-10-1-2	SN - 4 / 10 S - 3 / 1 8 L / P 3 T / G - 4 - 6 / M 3	TEN SPOOL	
61H-SN-4-11-1-2	SN - 4 / 11 S - 3 / 1 8 L / P 3 T / G - 4 - 6 / M 3	ELEVEN SPOOL	
61H-SN-4-12-1-2	SN - 4 / 12 S - 3 / 1 8 L / P 3 T / G - 4 - 6 / M 3	TWELVE SPOOL	
	<u>SPOOL TYPE</u>		
61H-YLWSN42001	SPOOL DOUBLE ACTING ON PORT (A & B)	(SPOOL TYPE 1)	
61H-YLWSN42002	SPOOL MOTOR ACTING ON PORT (A & B)	(SPOOL TYPE 2)	
61H-YLWSN42003	SPOOL SINGLE ACTING ON PORT (A)	(SPOOL TYPE 3) (SPOOL OUT) LEVER IN	
61H-YLWSN42004	SPOOL SINGLE ACTING ON PORT (B)	(SPOOL TYPE 4) (SPOOL IN) LEVER OUT	
61H-YLWSN45003	PORT RELIEF VALVES PER PORT P (G3-100) RANGE 100 TO 250 BAR		
61H-YLWSN45004	PORT RELIEF VALVES PER PORT P (G4-200) RANGE 200 TO 315 BAR		
	<u>SPOOL CONTROL</u>		
61H-YLWSN43061	3 POSITION DETENT KIT TYPE (6-1)		
61H-YLWSN43092	1 POSITION DETENT	KIT TYPE (9-2) DETENT IN PORT B WITH SPRING CENTRED	
61H-YLWSN43093	1 POSITION DETENT	KIT TYPE (9-3) DETENT IN PORT A WITH SPRING CENTRED	
61H-YLWSN43080	PNEUMATIC CONTROL KIT TYPE (8P)		
61H-YLWSN48EP3	ELECTRO PNEUMATIC CONTROL KIT TYPE (8EP3) 12 OR 24 VOLT (TO BE ADDED TO ABOVE)		
61H-YLWSN430810	HYDRAULIC PILOT CONTROL KIT TYPE (8IM)		
61H-JHP-1-1S-G2	HYDRAULIC PILOT JOY - STICK PER SECTION PILOT PRESSURE 2 - 20 Bar 1/4" Bsp PORTS		
61H-JHP-1-1S-FD	HYDRAULIC PILOT JOY - STICK FRICTION DETENT PILOT PRESSURE 2 - 20 Bar 1/4" Bsp PORTS		
61H-JHP-201-LCB	HYDRAULIC PILOT JOY - STICK 4 Way PILOT PRESSURE 2 - 20 Bar 1/4" Bsp PORTS		
61H-YLWSN44002	VALVE JOYSTICK KIT MANUAL TYPE (LCB)		
61H-YLWSN43082	DUAL CONTROL	KIT TYPE (8D2)	
61H-SN4-1DRHL	ROTARY DETENT KIT TYPE PLUS LEVER		
	<u>ACCESSORIES</u>		
61H-YLWSN44000	LEVER BOX	KIT TYPE (L)	
61H-YLWSN44001	DUST CAP	KIT TYPE (SPL)	
61H-YLWSN43008	END CAP	KIT TYPE (8)	
61H-YLWSN10200	LEVER	KIT TYPE (YLO1M10X200)	
61H-YLPSN43003	RELIEF VALVE CARTRIDGE	TYPE (DG-3) RANGE 125 - 250 BAR	
61H-YLPSN43002S	RELIEF VALVE SPRING	KIT TYPE (DG-2) RANGE 80 - 160 BAR	
61H-YLPSN43003S	RELIEF VALVE SPRING	KIT TYPE (DG-3) RANGE 125 - 250 BAR	
61H-YLPSN43004S	RELIEF VALVE SPRING	KIT TYPE (DG-4) RANGE 200 - 315 BAR	
61H-YLPEPCFSN4	PRESSURE COMPENSATED FLOW DIVIDER		
	<u>TECHNICAL SPECIFICATIONS:</u>		
	P - PORT	1/2" BSPP	
	A - PORT (SPRING)	1/2" BSPP	
	B - PORT (LEVER)	1/2" BSPP	
	T - PORT	3/4" BSPP	
	CO - PORT	3/4" BSPP	
	<u>RECOMMENDED FLOW RATE:</u>		
	80 LITRES PER MIN.		
	<u>MAX OPERATING PRESSURE:</u>		
	315 BAR		
	<u>PORT PRESSURE:</u>		
	315 BAR		
	<u>TANK LINE PRESSURE:</u>		
	25 BAR		
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		
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<u>Part Number</u>	VALVES STACK		RETAIL:
			08-08-2024
	<u>SN - 6 - TAK - BOK SERIES</u>		
	(150 LITRES FLOW RATE 3/4" PORTS)		
61H-SN-6-1-3-4	SN - 6 / 1 S - 3 / 1 8 L / P3T / G - 6 - 1 / M 3	ONE SPOOL	
61H-SN-6-2-3-4	SN - 6 / 2 S - 3 / 1 8 L / P3T / G - 6 - 1 / M 3	TWO SPOOL	
61H-SN-6-3-3-4	SN - 6 / 3 S - 3 / 1 8 L / P3T / G - 6 - 1 / M 3	THREE SPOOL	
61H-SN-6-4-3-4	SN - 6 / 4 S - 3 / 1 8 L / P3T / G - 6 - 1 / M 3	FOUR SPOOL	
61H-SN-6-5-3-4	SN - 6 / 5 S - 3 / 1 8 L / P3T / G - 6 - 1 / M 3	FIVE SPOOL	
61H-SN-6-6-3-4	SN - 6 / 6 S - 3 / 1 8 L / P3T / G - 6 - 1 / M 3	SIX SPOOL	
61H-SN-6-7-3-4	SN - 6 / 7 S - 3 / 1 8 L / P3T / G - 6 - 1 / M 3	SEVEN SPOOL	
61H-SN-6-8-3-4	SN - 6 / 8 S - 3 / 1 8 L / P3T / G - 6 - 1 / M 3	EIGHT SPOOL	
	<u>SPOOL TYPE</u>		
61H-YLWSN62001	SPOOL DOUBLE ACTING ON PORT (A & B)	(SPOOL TYPE 1)	
61H-YLWSN62002	SPOOL MOTOR ACTING ON PORT (A & B)	(SPOOL TYPE 2)	
61H-YLWSN62003	SPOOL SINGLE ACTING ON PORT (A)	(SPOOL TYPE 3) (SPOOL OUT) LEVER IN	
61H-YLWSN62004	SPOOL SINGLE ACTING ON PORT (B)	(SPOOL TYPE 4) (SPOOL IN) LEVER OUT	
61H-YLWSN65003	PORT RELIEF VALVES PER PORT P (G3-100) RANGE 100 TO 250 BAR		
61H-YLWSN65004	PORT RELIEF VALVES PER PORT P (G4-200) RANGE 200 TO 315 BAR		
	<u>SPOOL CONTROL</u>		
61H-YLWSN63061	3 POSITION DETENT KIT TYPE (6-1)		
61H-YLWSN63092	1 POSITION DETENT KIT TYPE (9-2) DETENT IN PORT B WITH SPRING CENTRED		
61H-YLWSN63093	1 POSITION DETENT KIT TYPE (9-3) DETENT IN PORT A WITH SPRING CENTRED		
61H-YLWSN63080	PNEUMATIC CONTROL KIT TYPE (8P)		
61H-YLWSN68EP3	ELECTRO PNEUMATIC CONTROL KIT TYPE (8EP3) 12 OR 24 VOLT (TO BE ADDED TO ABOVE)		
61H-YLWSN630810	HYDRAULIC PILOT CONTROL KIT TYPE (8IM)		
61H-JHP-1-1S-G2	HYDRAULIC PILOT JOY - STICK PER SECTION PILOT PRESSURE 2 - 20 Bar 1/4" Bsp PORTS		
61H-JHP-1-1S-FD	HYDRAULIC PILOT JOY - STICK FRICTION DETENT PILOT PRESSURE 2 - 20 Bar 1/4" Bsp PORTS		
61H-JHP-201-LCB	HYDRAULIC PILOT JOY - STICK 4 WAY PILOT PRESSURE 2 - 20 Bar 1/4" Bsp PORTS		
61H-YLWSN64002	JOYSTICK	KIT TYPE (LCB)	
61H-YLWSN63082	DUAL CONTROL	KIT TYPE (8D2)	
61H-SN6-1DRHL	ROTARY DETENT	KIT TYPE PLUS LEVER	
	<u>ACCESSORIES</u>		
61H-YLWSN64000	LEVER BOX	KIT TYPE (L)	
61H-YLWSN64001	DUST CAP	KIT TYPE (SPL)	
61H-YLWSN63008	END CAP	KIT TYPE (8)	
61H-YLWSN10200	LEVER	KIT TYPE (YLO1M10X200)	
61H-YLPSN63003	RELIEF VALVE CARTRIDGE	TYPE (FG-3) RANGE 63 - 200 BAR	
61H-YLPSN63002S	RELIEF VALVE SPRING	KIT TYPE (FG-3) RANGE 63 - 200 BAR	
61H-YLPSN63003S	RELIEF VALVE SPRING	KIT TYPE (FG-4) RANGE 160 - 315 BAR	
61H-YLPSN63000	PILOT OPERATED RELIEF	KIT TYPE (XFG) RANGE 25 - 315 BAR	
61H-YLPEPCFSN6	PRESSURE COMPENSATED FLOW DIVIDER		
	<u>TECHNICAL SPECIFICATIONS:</u>		
	P - PORT	3/4" BSPP	
	A - PORT (SPRING)	3/4" BSPP	
	B - PORT (LEVER)	3/4" BSPP	
	T - PORT	1" BSPP	
	CO - PORT	1" BSPP	
	<u>RECOMMENDED FLOW RATE:</u>		
	150 LITRES PER MIN.		
	<u>MAX OPERATING PRESSURE:</u>		
	315 BAR		
	<u>PORT PRESSURE:</u>		
	315 BAR		
	<u>TANK LINE PRESSURE:</u>		
	25 BAR		
			
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE B 2

Part Number	VALVES STACK		RETAIL:
			08-08-2024
	<u>SN - 8 - TAK - BOK SERIES</u>		
	(250 LITRES FLOW RATE 1" PORTS)		
61H-SN-8-1-1	SN - 8 / 1 S - XHG / 18 L / P3T / G - 8 - 10 / M 3	ONE SPOOL	
61H-SN-8-2-1	SN - 8 / 2 S - XHG / 18 L / P3T / G - 8 - 10 / M 3	TWO SPOOL	
61H-SN-8-3-1	SN - 8 / 3 S - XHG / 18 L / P3T / G - 8 - 10 / M 3	THREE SPOOL	
61H-SN-8-4-1	SN - 8 / 4 S - XHG / 18 L / P3T / G - 8 - 10 / M 3	FOUR SPOOL	
61H-SN-8-5-1	SN - 8 / 5 S - XHG / 18 L / P3T / G - 8 - 10 / M 3	FIVE SPOOL	
61H-SN-8-6-1	SN - 8 / 6 S - XHG / 18 L / P3T / G - 8 - 10 / M 3	SIX SPOOL	
61H-SN-8-7-1	SN - 8 / 7 S - XHG / 18 L / P3T / G - 8 - 10 / M 3	SEVEN SPOOL	
61H-SN-8-8-1	SN - 8 / 8 S - XHG / 18 L / P3T / G - 8 - 10 / M 3	EIGHT SPOOL	
	<u>SPOOL TYPE</u>		
61H-YLWSN82001	SPOOL DOUBLE ACTING ON PORT (A & B)	(SPOOL TYPE 1)	
61H-YLWSN82002	SPOOL MOTOR ACTING ON PORT (A & B)	(SPOOL TYPE 2)	
61H-YLWSN82003	SPOOL SINGLE ACTING ON PORT (A)	(SPOOL TYPE 3) (SPOOL OUT) LEVER IN	
61H-YLWSN82004	SPOOL SINGLE ACTING ON PORT (B)	(SPOOL TYPE 4) (SPOOL IN) LEVER OUT	
61H-YLWSN85003	PORT RELIEF VALVE (G3-100) RANGE 100 TO 250 BAR		
61H-YLWSN85004	PORT RELIEF VALVE (G4-200) RANGE 200 TO 315 BAR		
	<u>SPOOL CONTROL</u>		
61H-YLWSN83061	3 POSITION DETENT KIT TYPE (6-1)		
61H-YLWSN83062	2 POSITION DETENT KIT TYPE (6-2)		
61H-YLWSN83063	2 POSITION DETENT KIT TYPE (6-3)		
61H-YLWSN83091	2 POSITION DETENT KIT TYPE (9-1) DETENT IN PORT A AND B WITH SPRING CENTRED		
61H-YLWSN83092	1 POSITION DETENT KIT TYPE (9-2) DETENT IN PORT B WITH SPRING CENTRED		
61H-YLWSN83093	1 POSITION DETENT KIT TYPE (9-3) DETENT IN PORT A WITH SPRING CENTRED		
61H-YLWSN83080	PNEUMATIC CONTROL KIT TYPE (8P)		
61H-YLWSN88EP3	ELECTRO PNEUMATIC CONTROL KIT TYPE (8EP3) 12 OR 24 VOLT (TO BE ADDED TO ABOVE)		
61H-YLWSN830810	HYDRAULIC PILOT CONTROL KIT TYPE DOUBLE ACTING SPOOL (18IM)		
61H-YLWSN830811	HYDRAULIC PILOT CONTROL KIT TYPE MOTOR ACTING SPOOL (28IM)		
61H-JHP-1-1S-G2	HYDRAULIC PILOT JOY - STICK PER SECTION PILOT PRESSURE 2 - 20 Bar 1/4" Bsp PORTS		
61H-JHP-1-1S-FD	HYDRAULIC PILOT JOY - STICK FRICTION DETENT PILOT PRESSURE 2 - 20 Bar 1/4" Bsp PORTS		
61H-JHP-201-LCB	HYDRAULIC PILOT JOY - STICK 4 WAY PILOT PRESSURE 2 - 20 Bar 1/4" Bsp PORTS		
61H-YLWSN83082	DUAL CONTROL	KIT TYPE (8D2)	
61H-SN8-1DRHL	ROTARY DETENT	KIT TYPE PLUS LEVER	
	<u>ACCESSORIES</u>		
61H-YLWSN84000	LEVER BOX	KIT TYPE (L)	
61H-YLWSN84001	DUST CAP	KIT TYPE (SPL)	
61H-YLWSN83008	END CAP	KIT TYPE (8)	
61H-YLWSN12200	LEVER	KIT TYPE (YLO9M12X200)	
61H-YLPSN83000	RELIEF VALVE CARTRIDGE KIT TYPE (XHG) RANGE 25 - 315 BAR		
61H-YLPSN83002S	RELIEF VALVE SPRING KIT TYPE (G2-63) RANGE 63 - 125 BAR		
61H-YLPSN83003S	RELIEF VALVE SPRING KIT TYPE (G3-100) RANGE 100 - 250 BAR		
61H-YLPSN83004S	RELIEF VALVE SPRING KIT TYPE (G4-200) RANGE 200 - 315 BAR		
61H-YLPEPCFSN8	PRESSURE COMPENSATED FLOW DIVIDER		
	<u>TECHNICAL SPECIFICATIONS:</u>		
	P - PORT	1" BSPP	
	A - PORT (SPRING)	1" BSPP	
	B - PORT (LEVER)	1" BSPP	
	T - PORT	1-1/4" BSPP	
	CO - PORT	1-1/4" BSPP	
	<u>RECOMMENDED FLOW RATE:</u>		
	250 LITRES PER MIN.		
	<u>MAX OPERATING PRESSURE:</u>		
	315 BAR		
	<u>PORT PRESSURE:</u>		
	315 BAR		
	<u>TANK LINE PRESSURE:</u>		
	25 BAR		
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE B 3

Part Number	VALVES PROPORTIONAL MODULAR		RETAIL:
			08-08-2024
	PV- 4 PROPORTIONAL VALVE		
	(140 LITRES FLOW RATE)		
	PV-4 Features;		
	1. Oil flow to an individual function is independent of the load pressure of this function		
	2. Oil flow to one function is independent of the load pressure of other functions		
	3 .The load sensing function can be used in a simple directional control valve to an advanced electrically controlled load- independent proportional valve		
	4. Great spool control , spool flow or pressure selection from 10 litres to 130 litres		
	5. Energy - saving		
	PROPORTIONAL VALVE MECHANICALLY ACTUATED SPRING CENTERED		
61H-PV4-1-DASP	CONTROL VALVE PROPORTIONAL	PV - 4 / 1 - DA - SP ONE SPOOL	
61H-PV4-2-DASP	CONTROL VALVE PROPORTIONAL	PV - 4 / 2 - DA - SP TWO SPOOL	
61H-PV4-3-DASP	CONTROL VALVE PROPORTIONAL	PV - 4 / 3 - DA - SP THREE SPOOL	
61H-PV4-4-DASP	CONTROL VALVE PROPORTIONAL	PV - 4 / 4 - DA - SP FOUR SPOOL	
61H-PV4-5-DASP	CONTROL VALVE PROPORTIONAL	PV - 4 / 5 - DA - SP FIVE SPOOL	
61H-PV4-6-DASP	CONTROL VALVE PROPORTIONAL	PV - 4 / 6 - DA - SP SIX SPOOL	
61H-PV4-7-DASP	CONTROL VALVE PROPORTIONAL	PV - 4 / 7 - DA - SP SEVEN SPOOL	
61H-PV4-8-DASP	CONTROL VALVE PROPORTIONAL	PV - 4 / 8 - DA - SP EIGHT SPOOL	
61H-PV4-9-DASP	CONTROL VALVE PROPORTIONAL	PV - 4 / 9 - DA - SP NINE SPOOL	
61H-PV4-10-DASP	CONTROL VALVE PROPORTIONAL	PV - 4 / 10 - DA - SP TEN SPOOL	
	PROPORTIONAL VALVE MECHANICALLY ACTUATED SPRING CENTERED WITH L/S PRV		
61H-PV4-1-LSPR	CONTROL VALVE PROPORTIONAL WITH L/S PRV ;	PV- 4 / 1 - DA - SP-L/S PRV ONE SPOOL	
61H-PV4-2-LSPR	CONTROL VALVE PROPORTIONAL WITH L/S PRV ;	PV- 4 / 2 - DA - SP-L/S PRV TWO SPOOL	
61H-PV4-3-LSPR	CONTROL VALVE PROPORTIONAL WITH L/S PRV ;	PV- 4 / 3 - DA - SP-L/S PRV THREE SPOOL	
61H-PV4-4-LSPR	CONTROL VALVE PROPORTIONAL WITH L/S PRV ;	PV- 4 / 4 - DA - SP-L/S PRV FOUR SPOOL	
61H-PV4-5-LSPR	CONTROL VALVE PROPORTIONAL WITH L/S PRV ;	PV- 4 / 5 - DA - SP-L/S PRV FIVE SPOOL	
61H-PV4-6-LSPR	CONTROL VALVE PROPORTIONAL WITH L/S PRV ;	PV- 4 / 6 - DA - SP-L/S PRV SIX SPOOL	
61H-PV4-7-LSPR	CONTROL VALVE PROPORTIONAL WITH L/S PRV ;	PV- 4 / 7 - DA - SP-L/S PRV SEVEN SPOOL	
61H-PV4-8-LSPR	CONTROL VALVE PROPORTIONAL WITH L/S PRV ;	PV- 4 / 8 - DA - SP-L/S PRV EIGHT SPOOL	
61H-PV4-9-LSPR	CONTROL VALVE PROPORTIONAL WITH L/S PRV ;	PV- 4 / 9 - DA - SP-L/S PRV NINE SPOOL	
61H-PV4-10-LSPR	CONTROL VALVE PROPORTIONAL WITH L/S PRV ;	PV- 4 / 10 - DA - SP-L/S PRV TEN SPOOL	
	TECHNICAL SPECIFICATIONS:		
	P - PORT	3/4" BSPP	
	A - PORT (LEVER)	1/2" BSPP	
	B - PORT (SPRING)	1/2" BSPP	
	T - PORT	3/4" BSPP	
	RECOMMENDED FLOW RATE:		
	140 LITRES PER MIN.		
	MAX OPERATING PRESSURE:		
	350 BAR		
	PORT PRESSURE:		
	350 BAR		
	TANK LINE PRESSURE:		
	40 BAR		
			
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY			PAGE B 4

Part Number	VALVES PROPORTIONAL MODULAR		RETAIL:
			08-05-2025
	<u>PV-4 PROPORTIONAL VALVE STANDARD SERIES</u>		
	(140 LITRES FLOW RATE)		
	<u>Pump Side Module Options;</u> (Can be modified for Open Center fixed displacement pump)		
61H-PV4P0201	For mechanically actuated valves Closed centre Pump with variable displacement		
61H-PV4P0202	Pilot oil supply for electrical actuation		
	Closed centre Pump Side Module for pumps with variable displacement		
61H-PV4P0203	For mechanically actuated valves Closed centre Pump with variable displacement		
	Connection for LS unloading valves		
61H-PV4P0205	Pilot oil supply for electrically actuated and connection for pilot oil pressure		
	Closed centre Pump variable displacement		
61H-PV4P0206H	Pilot oil supply for hydraulic actuation and connection for pilot oil pressure		
	Closed centre Pump Side Module for pumps with variable displacement		
	<u>Mid-Inlet Options;</u>		
61H-PV4P0304	Max spool oil flow 230L/m With pilot oil supply for electrically actuation valves		
	Closed centre Mid-Inlet Module for pumps with variable displacement		
	<u>Basic Module Options;</u>		
61H-PV4V04-G4	Non - damped pressure compensated valve		
61H-PV4V04U-G4	Non - damped pressure compensated valve with shock and suction valves		
	<u>A and B Port Options;</u>		
61H-PV4U300	Shock and Suction valve; Bar 50, 100, 150, 210, 250, 300, 350		
61H-PV4C	Suction and Anti-Cavitation Valve		
61H-PV4DST	Plug		
	<u>Spool options</u>		
61H-PV4201XXX	Double acting; Flow rates; 5, 10, 25, 40, 65, 100, 130 Litres		
61H-PV4202XXX	Motor acting ; Flow rates; 5, 10, 25, 40, 65, 100, 130 Litres		
61H-PV4204XXX	Single acting ; Flow rates; 10, 25, 40, 65, 100, Litres		
	<u>A; Side Actuation Options;</u>		
61H-PV4LM	Lever assembly with adjustments		
61H-PV4LEVER	Lever only		
	<u>B; Side Actuation Options;</u>		
61H-PV4CO	Cover Standard (CO)		
61H-PV4FD	Cover Friction detent (FD)		
61H-PV4HA-G2	Cover Hydraulic actuation (HA)		
61H-EPVO-H0111	Cover Electrical on/off	12v Coil with LED (EPVO)	
61H-EPVO-H0121	Cover Electrical on/off	24v Coil with LED (EPVO)	
61H-EPVM-H0111	Cover Electrical proportional	LVT 12VDC (EPVM)	
61H-EPVM-H0121	Cover Electrical proportional	LVT 24VDC (EPVM)	
61H-EPVE-12	Cover Electrical proportional	PWM 12VDC (EPVE)	
61H-EPVE-24	Cover Electrical proportional	PWM 24VDC (EPVE)	
	<u>End Plate Options;</u>		
61H-PV4C0201	Standard End Plate		
61H-PV4C0202	Special End Plate with LS Port G1/4"		
	<u>Tie Rod Kits Options;</u>		
61H-PV4M-0XX	One to Ten Section Tie Kits		
	<u>Seal Kit per Section</u>		
61H-2BMPV400539	Seal Kit Work Section		
61H-2BMPV400375	Seal Kit LM CO HA FD		
61H-2BMPV400541	Seal Kit End Plate		
61H-2BMEPV0050	Seal Kit EPVO		
61H-2BMEPV0052	Seal Kit EPVM		
61H-PV4-LAB-1	Labour to set pressures and flow on test bench per spool		
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE B 5



<u>Part Number</u>	VALVES PROPORTIONAL MODULAR	RETAIL: 08-05-2025
	<u>PV- 4 PROPORTIONAL VALVE (LS A/B) PRESSURE RELIEF SERIES</u>	
	(140 LITRES FLOW RATE)	
	<u>Pump Side Module Options;</u> (Can be modified for Open Center fixed displacement pump)	
61H-PV4P0201	For mechanically actuated valves Closed centre Pump with variable displacement	
61H-PV4P0202	Pilot oil supply for electrical actuation Closed centre Pump Side Modue for pumps with variable dispalcement	
61H-PV4P0203	For mechanically actuated valves Closed centre Pump with variable displacement Connection for LS unloading valves	
61H-PV4P0205	Pilot oil supply for electrically actuated and connection for pilot oil pressure Close centre Pump variable displacement	
61H-PV4P0206H	Pilot oil supply for hydraulic actuation and connection for pilot oil pressure Closed centre Pump Side Module for pumps with variable displacement	
	<u>Mid-Inlet Options;</u>	
61H-PV4P0304	Max spool oil flow 230L/m With pilot oil supply for electrically actuation valves Closed centre Mid-Inlet Module for pumps with variable displacement	
	<u>Basic Module Options;</u>	
61H-PV4V06-G4	Non - damped pressure compensated valve with adjustable LS on A/B pressure relief valve	
61H-PV4V06U-G4	Non - damped pressure compensated valve with adjustable LS on A/B pressure relief valve with shock and suction valves	
	<u>Shock and Suction valve Options;</u>	
61H-PV4U300	Bar 50, 100, 150, 210, 250, 300, 350	
	<u>Spool options</u>	
61H-PV4201XXXAB	Double acting; Flow rates; 5, 10, 25, 40, 65, 100, 130 Litres	
61H-PV4202XXXAB	Motor acting ; Flow rates; 5, 10, 25, 40, 65, 100, 130 Litres	
	<u>A; Side Actuation Options;</u>	
61H-PV4LM	Lever assembly with adjustments	
61H-PV4LEVER	Lever only	
	<u>B; Side Actuation Options;</u>	
61H-PV4CO	Cover Standard (CO)	
61H-PV4FD	Cover Friction detent (FD)	
61H-PV4HA-G2	Cover Hydraulic actuation (HA)	
61H-EPVO-H0111	Cover Electrical on/off 12v Coil with LED (EPVO)	
61H-EPVO-H0121	Cover Electrical on/off 24v Coil with LED (EPVO)	
61H-EPVM-H0111	Cover Electrical proportional LVT 12VDC (EPVM)	
61H-EPVM-H0121	Cover Electrical proportional LVT 24VDC (EPVM)	
61H-EPVE-12	Cover Electrical proportional PWM 12VDC (EPVE)	
61H-EPVE-24	Cover Electrical proportional PWM 24VDC (EPVE)	
	<u>End Plate Options;</u>	
61H-PV4C0201	Standard End Plate	
61H-PV4C0202	Special End Plate with LS Port G1/4"	
	<u>Tie Rod Kits Options;</u>	
61H-PV4M-0XX	One to Ten Section Tie Kits	
	<u>Seal Kit per Section</u>	
61H-2BMPV400539	Seal Kit Work Section	
61H-2BMPV400375	Seal Kit LM CO HA FD	
61H-2BMPV400541	Seal Kit End Plate	
61H-2BMEPV0050	Seal Kit EPVO	
61H-2BMEPV0052	Seal Kit EPVM	
61H-PV4-LAB-1	Labour to set pressures and flow on test bench per spool	
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY	PAGE B 6

Part Number	REMOTE VALVE CONTROLS		RETAIL:
			08-08-2024
	<u>PILOT CONTROL SERIES</u>		
61H-JHP-1-1S-G2	HYDRAULIC PILOT HAND LINEAR OPERATION (Spring return; to center position)		
61H-JHP-1-1S-FD	HYDRAULIC PILOT HAND LINEAR OPERATION (Friction detent; stop in any position)		
61H-JHP-1-1SLES	HYDRAULIC PILOT HAND LINEAR OPERATION (Safety lock spring return; to center position)		
61H-JHP-201-LCB	HYDRAULIC PILOT HAND JOYSTICK OPERATION (4 X Way hand spring return; to center position)		
61H-PHP1-02-G2	HYDRAULIC PILOT FOOT LINEAR OPERATION (Foot control spring return; to center position)		
61H-PVH-1	ELECTRIC PROPORTIONAL OPERATION (Spring return; to center position EPVM Proportional Coil)		
	JHP-1		
	<u>TECHNICAL SPECIFICATIONS</u>		
	ALL 4 PORTS P - T - 1 - 2 1/4" BSPP		
	INPUT FLOW ; 5 - 20 L/min		
	INLET PRESSURE ; 30 - 100 BAR		
	OUTLET PRESSURE ; 0 - 20 BAR		
	BACK PRESSURE ; 3 BAR		
	STACKABLE 1 - 10 SECTIONS		
	JHP-2		
	<u>TECHNICAL SPECIFICATIONS</u>		
	ALL 6 PORTS P - T - 1 - 2 - 3 - 4 ; 1/4" BSPP		
	INPUT FLOW ; 5 - 20 L/min		
	INLET PRESSURE ; 30 - 100 BAR		
	OUTLET PRESSURE ; 0 - 20 BAR		
	BACK PRESSURE ; 3 BAR		
	PHP-1		
	<u>TECHNICAL SPECIFICATIONS</u>		
	ALL 4 PORTS P - T - 1 - 2 1/4" BSPP		
	INPUT FLOW ; 5 - 20 L/min		
	INLET PRESSURE ; 30 - 100 BAR		
	OUTLET PRESSURE ; 0 - 20 BAR		
	BACK PRESSURE ; 3 BAR		
	61H-PVH-1		
	<u>TECHNICAL SPECIFICATIONS</u>		
	STACKABLE BODYS ; 1 - 10 SECTIONS		
	RANGE ; 11 - 30 VDC. CURRENT CONSUMPTION; Max. 100 mA		
	OUTPUT VOLTAGE; Us 0.25 - 0.75 Udc. NEUTRAL VOLTAGE; Us 0.5 Udc		
	MAX. CURRENT OF THE POWER SWITCH; ON/OFF 1A. CONTROL ANGLE; Single 20°		
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE B 7

[illegible]

Part Number	VALVES SOLENOID		RETAIL:
			10-02-2025
	<u>NG 10 DIRECTIONAL CONTROL VALVES</u> (120 Litres Flow Rate 315 Bar Rated)		
62H-4WE10-E-XX	NG 10 DOUBLE SOLENOID VALVE	ALL PORTS BLOCKED E CODE 3C2	
62H-4WE10-H-XX	NG 10 DOUBLE SOLENOID VALVE	ALL PORTS OPEN H CODE 3C3	
62H-4WE10-J-XX	NG 10 DOUBLE SOLENOID VALVE	P CLOSED ; A & B & T OPEN J CODE 3C4	
62H-4WE10-G-XX	NG 10 DOUBLE SOLENOID VALVE	P TO T ; A & B BLOCKED G CODE 3C6	
62H-4WE10-D-XX	NG 10 SINGLE SOLENOID VALVE	P TO A ; T TO B ; IN TRANS CLOSED D CODE 2B2	
62H-4WE10-C-XX	NG 10 SINGLE SOLENOID VALVE	P TO A ; T TO B ; IN TRANS OPEN C CODE 2B3	
62H-4WE10-HA-XX	NG 10 SINGLE SOLENOID VALVE	ALL PORTS OPEN ; TWO POSITION HA CODE 2B3B	
	<u>VOLTAGE OPTIONS</u>		
	COIL SELECTION DC 12 VOLT OR DC 24 VOLT		
	COIL SELECTION AC 110 VOLT OR AC 220 VOLT		
	<u>NG 10 / 16 SUB PLATES</u>		
62H-ES5C34P	NG 10 SUB PLATE 3/4" P & T REAR A & B REAR		
62H-ES5C34L	NG 10 SUB PLATE 3/4" P & T SIDE A & B SIDE		
62H-ES5B34PLX3F	NG 10 SUB PLATE WITH RELIEF ONE STATION (55 - 315 Bar) 3/4" P & T SIDE A & B SIDE		
62H-ES710P	NG 16 SUB PLATE 1" P & T REAR A & B REAR X & Y REAR		
	<u>MODULAR CONTROLS</u>		
62H-ZDB-10-V-P	NG 10 RELIEF VALVE ON PORT P	(35 - 315 Bar Pressure)	
62H-Z2DB10VC	NG 10 RELIEF VALVE ON PORT A & B	(35 - 315 Bar Pressure)	
62H-Z2S10AB40	NG 10 CHECK VALVE PILOT CONTROL ON PORT A & B	(2 Bar Cracking Pressure)	
62H-Z2FS-10-AB3	NG 10 THROTTLE & CHECK METERING OUT OR IN ON PORT A & B	(Swop Plate 180)	
62H-ZDR10DP2	NG 10 MODULAR PRESURE REDUCING VALVE	(150 Bar - 0 Pressure)	
	<u>NG 10 ACCESSORIES</u>		
62H-Z8-120YC12V	NG 10 DC COIL 12V		
62H-Z8-120YC24V	NG 10 DC COIL 24V		
62H-J8-50YC110V	NG 10 AC COIL 110V		
62H-J8-50YC220V	NG 10 DC COIL 220V		
62H-C001123AC	HIRSHMAN & LED AC		
62H-C001123DC	HIRSHMAN & LED DC		
62H-M6X125L	BOLTS NG 10 M 6 X 125 (each)		
62H-M6X165L	BOLTS NG 10 M 6 X 165 (each)		
62H-M6X205L	BOLTS NG 10 M 6 X 205 (each)		
62H-4WE10B	NG10 END CAP BLANKING SCREW		
	<u>NG 10 DIRECTIONAL CONTROL VALVES</u> (200 Litres Flow Rate 315 Bar Rated)		
62H-4WEH10J6X6	NG10 PILOT OIL CONTROL VALVE DOUBLE ACTING	J CODE (Including NG6 pilot valve)	
	<u>NG 16 DIRECTIONAL CONTROL VALVES</u> (300 Litres Flow Rate 315 Bar Rated)		
62H-4WEH16E6X6	NG16 PILOT OIL CONTROL VALVE DOUBLE ACTING	E CODE (Including NG6 pilot valve)	
62H-4WEH16G6X6	NG16 PILOT OIL CONTROL VALVE DOUBLE ACTING	G CODE (Including NG6 pilot valve)	
62H-4WEH16J6X6	NG16 PILOT OIL CONTROL VALVE DOUBLE ACTING	J CODE (Including NG6 pilot valve)	
62H-4WEH16R6X6	NG16 PILOT OIL CONTROL VALVE DOUBLE ACTING	R CODE (Including NG6 pilot valve)	
	<u>NG 10 DOUBLE SOLENOID</u>	<u>NG 10 SINGLE SOLENOID</u>	
			
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY			PAGE C 2

Part Number	MONOBLOCKS		RETAIL:
			10-02-2025
	<u>NG 6 MONOBLOCK WITH RELIEF (3/8" PORTS)</u>		
62H-3ES3B38X3F	NG 6 ONE	STATION WITH RELIEF (55 - 315 Bar) 3/8" P&T SIDE A & B SIDE	
62H-EM213/2X3F	NG 6 TWO	STATION WITH RELIEF (55 - 315 Bar) 3/8" P&T SIDE A & B SIDE	
62H-EM213/3X3F	NG 6 THREE	STATION WITH RELIEF (55 - 315 Bar) 3/8" P&T SIDE A & B SIDE	
62H-EM213/4X3F	NG 6 FOUR	STATION WITH RELIEF (55 - 315 Bar) 3/8" P&T SIDE A & B SIDE	
62H-EM213/5X3F	NG 6 FIVE	STATION WITH RELIEF (55 - 315 Bar) 3/8" P&T SIDE A & B SIDE	
62H-EM213/6X3F	NG 6 SIX	STATION WITH RELIEF (55 - 315 Bar) 3/8" P&T SIDE A & B SIDE	
	NG 6 MONOBLOCK PORTS ; P & T 1/2" BSPP A & B 3/8" BSPP		
62H-LDRDLWN	NG 6 RELIEF VALVE ADJUSTMENT RANGE (55 - 315 Bar) STANDARD		
	<u>NG 10 MONOBLOCK WITH RELIEF (1/2" PORTS)</u>		
62H-ES5B34PLX3F	NG 10 ONE	STATION WITH RELIEF (55 - 315 Bar) 3/4" P & T SIDE A & B SIDE	
62H-EM205/2X3F	NG 10 TWO	STATION WITH RELIEF (55 - 315 Bar) 3/4" P & T SIDE A & B SIDE	
62H-EM205/3X3F	NG 10 THREE	STATION WITH RELIEF (55 - 315 Bar) 3/4" P & T SIDE A & B SIDE	
62H-EM205/4X3F	NG 10 FOUR	STATION WITH RELIEF (55 - 315 Bar) 3/4" P & T SIDE A & B SIDE	
62H-EM205/5X3F	NG 10 FIVE	STATION WITH RELIEF (55 - 315 Bar) 3/4" P & T SIDE A & B SIDE	
	NG10 MONOBLOCK PORTS ; P & T 3/4" BSPP A & B 1/2" BSPP		
62H-LDRFLWN	NG 10 RELIEF VALVE ADJUSTMENT RANGE (55 - 315 Bar) STANDARD		
	<u>ACCESSORIES</u>		
62H-NG6BP	NG 6 STATION BLANKING PLATE		
62H-NG10BP	NG 10 STATION BLANKING PLATE		



NG6



NG6



NG10



NG6



NG6



NG10



NG10 4WEH



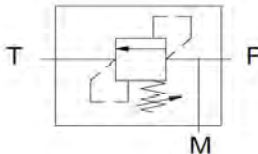
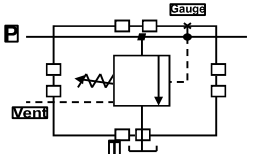
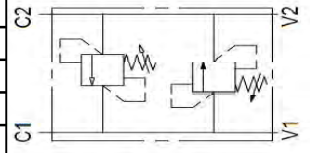
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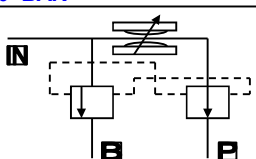
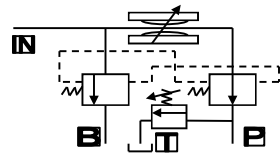
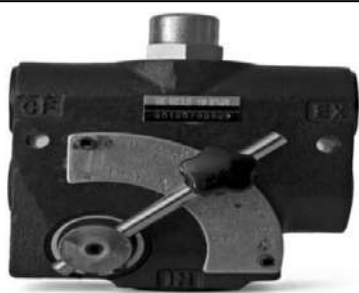
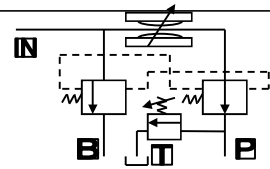
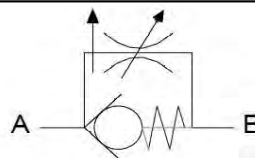
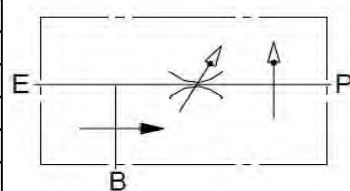
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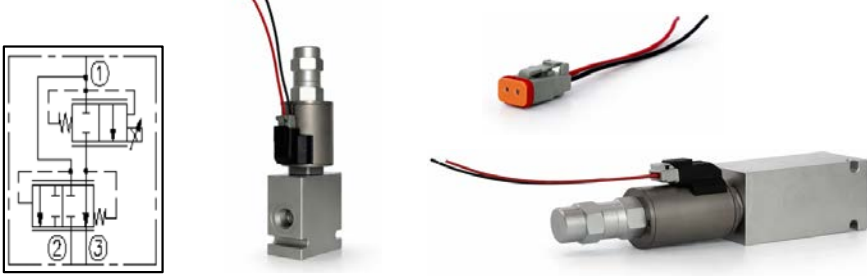
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DSG	3C2 	3C3 	3C4 	3C60
SWH	C2 	C3 	C4 	C6
DG4V	2C 	0C 	6C 	8C
B(L)*H	34E0 	34EH 	34EY 	34EM

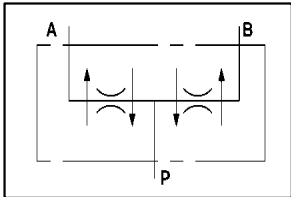
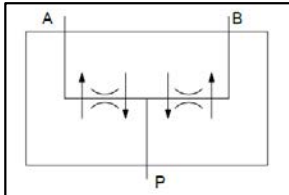
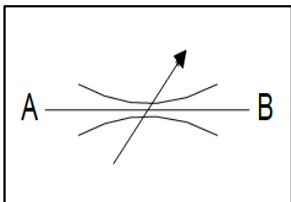
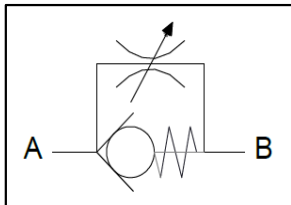
2 POSITION

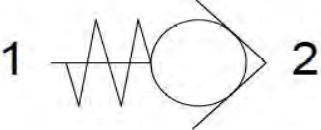
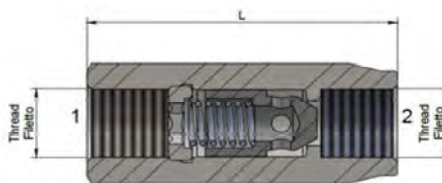
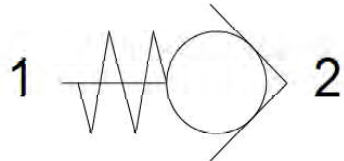
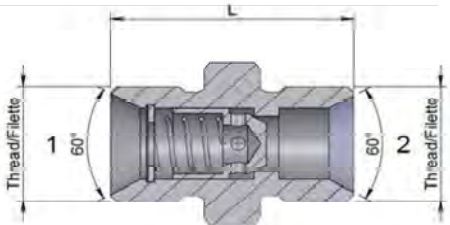
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DSG	2B2 	2B3 	2B3B 	
SWH	B2 	B3 	C3B 	
DG4V	2A 	0A 	0B 	
B(L)*H	24EI 1 	—	24EH 	

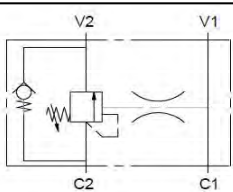
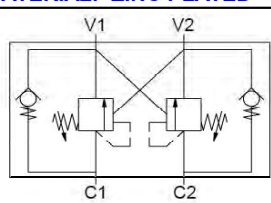
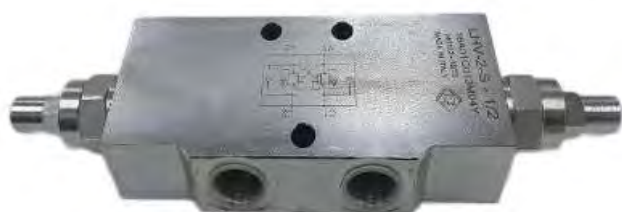
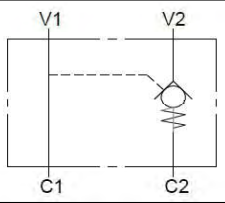
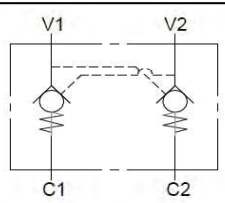
Part Number	HYDRAULIC PRESSURE CONTROL VALVES			RETAIL:
				22-01-2026
<u>RELIEF VALVES DIRECT ACTING</u>				
63H-RVD-M-06	RVD-M-SC 3/8"	3/8" BSPP THREADS	45 LITRE INLET	
63H-RVD-M-08	RVD-M-SC 1/2"	1/2" BSPP THREADS	70 LITRE INLET	
63H-RVD-M-12	RVD-M-SC 3/4"	3/4" BSPP THREADS	120 LITRE INLET	
63H-RVDD-M-160	RVDD-M-160	1" BSPP THREADS	180 LITRE INLET	
3 PORT BLOCK TYPE IN-LINE RELIEF VALVES (P + P + T)				
MAXIMUM OPERATING PRESSURE: 350 BAR				
MATERIAL: STEEL				
<u>RELIEF VALVES PILOT OPERATED BALANCED PISTON TYPE</u>				
63H-RVT-04330	RB - T04 - C	1/2" NPT THREADS	80 LITRE INLET	
63H-RVT-06330	RB - T06 - C	3/4" NPT THREADS	175 LITRE INLET	
63H-RVT-10330	RB - T10 - C	1 1/4" NPT THREADS	454 LITRE INLET	
63H-RMT-02-C	RM - T02 - C	1/4" NPT THREADS	PANEL MOUNT REMOTE CONTROL RELIEF	
3 PORT BLOCK TYPE IN-LINE RELIEF VALVES (P + P + T)				
OPTIONAL VENT AND GAUGE PORT				
MAXIMUM OPERATING PRESSURE: 210 BAR				
MATERIAL: CAST IRON				
<u>RELIEF VALVE DUAL CROSS OVER</u>				
63H-RVD-DI-06	RVD - DI 3/8"	3/8" BSPP THREADS	45 LITRE INLET	
63H-RVD-DI-08	RVD - DI 1/2"	1/2" BSPP THREADS	70 LITRE INLET	
63H-RVD-DI-12	RVD - DI 3/4"	3/4" BSPP THREADS	110 LITRE INLET	
63H-RVD-DI-16	RVD - DI 1"	1" BSPP THREADS	160 LITRE INLET	
DUAL ACTING RELIEFS, INLINE TYPE				
MAXIMUM OPERATING PRESSURE: 300 BAR				
MATERIAL: STEEL				
<u>RELIEF VALVE DUAL CROSS PORT TYPE BMR / OMR MOTOR</u>				
63H-RVD-OMR-08	RVD-OMR 1/2" OMP-OMR CROSS OVER 1/2" FOR BMR MOTORS 200 BAR			
DUAL ACTING RELIEFS, INLINE TYPE				
MAXIMUM OPERATING PRESSURE: 250 BAR				
MATERIAL: STEEL				
<u>DUAL ACTING OVERCENTRE RELIEF VALVE TYPE BMR / OMR MOTOR</u>				
63H-LHV-OMR-08	LHV-2-OMP-OMR	1/2" BSPP THREADS	60 LITRE INLET	
DUAL ACTING RELIEFS				
MAXIMUM OPERATING PRESSURE: 350 BAR				
MATERIAL: ZINC PLATED STEEL				
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY				
PAGE D 1				

Part Number	HYDRAULIC FLOW CONTROL VALVES			RETAIL:
				08-07-2025
<u>PRIORITY FLOW DIVIDER ADJUSTABLE</u>				
63H-V62150320	RF40/P	1/2" BSPP THREADS	40 LITRE INLET	
63H-V62150322	RF70/P	3/4" BSPP THREADS	70 LITRE INLET	
3 PORT BLOCK TYPE WITH ADJUSTABLE KNOB				
MAXIMUM OPERATING PRESSURE 250 BAR				
MATERIAL: CAST IRON				
				
<u>PRIORITY FLOW DIVIDER ADJUSTABLE WITH RELIEF VALVE</u>				
63H-V62150323	RF70/PV	3/4" BSPP THREADS	70 LITRE INLET	
3 PORT BLOCK TYPE WITH ADJUSTABLE KNOB				
MAXIMUM OPERATING PRESSURE: 250 BAR				
MATERIAL: CAST IRON				
				
<u>FLOW CONTROL ADJUSTABLE, PRESSURE COMPENSATED WITH RELIEF ON P PORT</u>				
70H-LKF-60	LKF-60	1/2 NPT THREADS	60 LITRE INLET	
70H-LKF-114	LKF-114	3/4 NPT THREADS	114 LITRE INLET	
3 PORT BLOCK TYPE: IN, CF, AND EX, THE EX PORT CAN ALSO BE PRESSURISED				
FLOW ADJUSTABLE LEVER				
MAXIMUM OPERATING PRESSURE : 210 BAR				
RELIEVES THROUGH THE EX PORT				
MATERIAL: CAST IRON				
				
<u>FLOW CONTROL ADJUSTABLE, PRESSURE COMPENSATED VALVE</u>				
63H-FCVC1-90-06	VRFU90-C 030	3/8" BSPP	REGULATED FLOW 20 LITRES	
63H-FCVC1-90-08	VRFU90-C 040	1/2" BSPP	REGULATED FLOW 40 LITRES	
				
<u>PRIORITY FLOW DIVIDER PRESSURE COMPENSATED 3 WAY VALVE</u>				
63H-FCVC3MEP06	FCVC-3-M-EP	3/8" BSPP	60 LITRE INLET	
63H-FCVC3MEP08	FCVC-3-M-EP	1/2" BSPP	80 LITRE INLET	
63H-FCVC3MEP12	FCVC-3-M-EP	3/4" BSPP	120 LITRE INLET	
MAXIMUM OPERATING PRESSURE : 350 BAR				
MATERIAL: ZINC PLATED				
				
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY				
PAGE D 2				

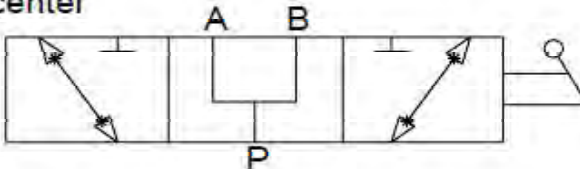
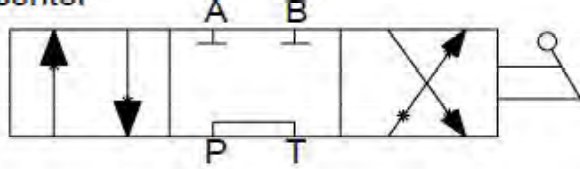
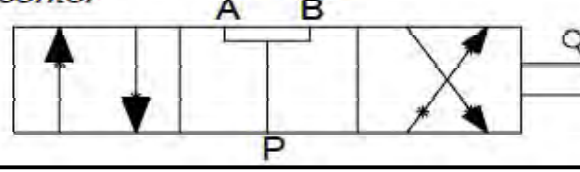
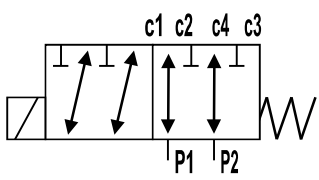
Part Number	HYDRAULIC FLOW CONTROL VALVES	RETAIL:
		12-05-2026
	<u>NORMALLY CLOSED PRESSURE COMPENSATED PROPORTIONAL FLOW REGULATOR 30 LITERS OUTLET (3)</u>	
63H-TKPV70-6	TKPV70 : PORTS 3/8" BSPP	
	FLOW RATE : (3) REG FLOW OUTLET 30 LITERS (1) MAX INLET FLOW 49 LITERS (2) BY-PASS	
	INCLUDED : 12V COIL DEUTSCH CONNECTION WITH WIRES, MANUAL OVERRIDE CONTROL POSSIBLE	
	<u>ACCESSORIES FOR VALVES BELOW</u>	
63H-TKPV70-12V	12V COIL WITH DEUTSCH FEMALE CONNECTOR	
63H-TKPV70-SP	VALVE SPOOL WITH MANUAL OVERRIDE AND NUT	
63H-TKPV70-BD	BODY WITH 3/8" BSPP THREADED PORTS NUMBERED (1) INLET (2) BYPASS (3) REGULATED	
63H-TKPV70-CO	12V COIL WITH DEUTSCH MALE CONNECTOR WITH WIRES	
63H-TK-PWM	PWM HKD DC MOTOR CONTROL DRIVE 10A 6-90V	
	 FLOW CONTROL VALVE 30 LITERS	
	<u>NORMALLY CLOSED PRESSURE COMPENSATED PROPORTIONAL FLOW REGULATOR 100 LITERS OUTLET (3)</u>	
63H-TKPV76-16	TKPV76 : PORTS 1" SAE	
63H-TKPV76-12	TKPV76 : PORTS 3/4" BSPP	
	FLOW RATE : (3) REG FLOW OUTLET 100 LITERS (1) MAX INLET FLOW 150 LITERS (2) BY-PASS	
	INCLUDED : 12V COIL DEUTSCH CONNECTION WITH WIRES, MANUAL OVERRIDE CONTROL POSSIBLE	
	<u>ACCESSORIES FOR VALVES BELOW</u>	
63H-TKPV76-12V	12V COIL WITH DEUTSCH FEMALE CONNECTOR	
63H-TKPV76-SP	VALVE SPOOL WITH MANUAL OVERRIDE AND NUT	
63H-TKPV76-BD	BODY WITH 1" SAE THREADED PORTS NUMBERED (1) INLET (2) BYPASS (3) REGULATED	
63H-TKPV76-CO	12V COIL WITH DEUTSCH MALE CONNECTOR WITH WIRES	
63H-TK-PWM	PWM HKD DC MOTOR CONTROL DRIVE 10A 6-90V	
	 FLOW CONTROL VALVE 100 LITERS	
	<u>OVERVIEW</u>	
DESCRIPTION	The PV70-30 is a solenoid operated, pressure compensated, spool type, normally closed, priority type proportional flow control regulator. It can also be used as a restrictive type, 2-way, pressure compensated proportional flow regulator (with port 2 blocked).	
OPERATION	With inlet flow at port 1 the valve will regulate priority flow out of port 3 regardless of system working pressure with flow rate proportional to current applied to the solenoid. The excessive flow will bypass out of port 2. The bypass flow CAN be used for auxiliary function control.	
	In restrictive mode applications bypass port 2 has to be blocked, flow rate out of port 3 remains proportional to current applied to the solenoid regardless of load (pressure) applied to port 3.	
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY	PAGE D 3A

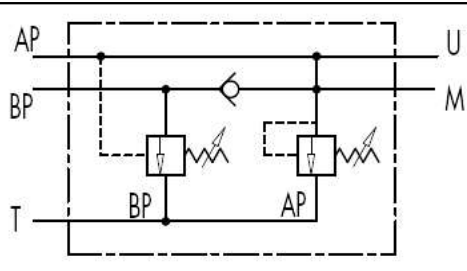
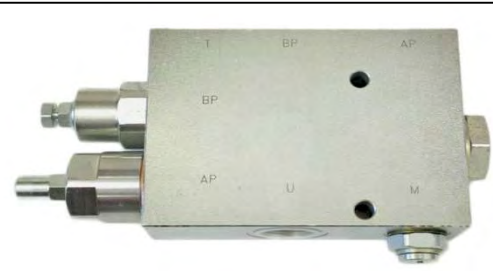
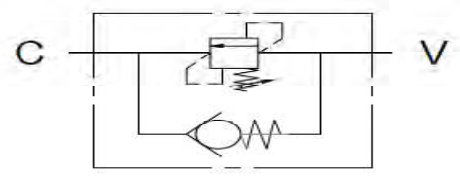
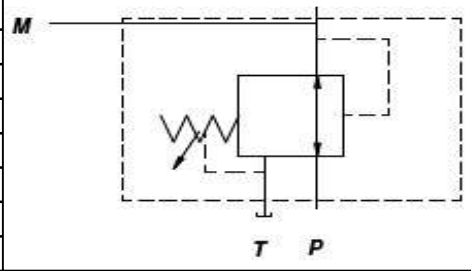
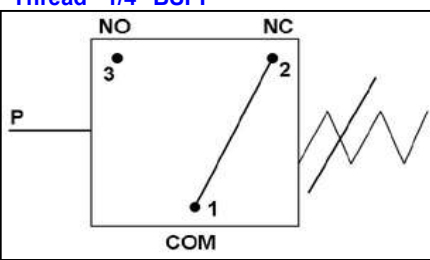
Part Number	HYDRAULIC FLOW CONTROL VALVES			RETAIL:
				12-05-2026
	<u>FLOW BALANCING VALVE</u>			
63H-FDV-B-06	FDV-3-6	3/8" BSPP THREADS	INLET 3 / 6 LITRES	
63H-FDV-C-06	FDV-6-10	3/8" BSPP THREADS	INLET 6 / 10 LITRES	
	MAXIMUM OPERATING PRESSURE 300 BAR			
	MATERIAL: ZINC PLATED			
				
	<u>FLOW DIVIDER 50 / 50 SPLIT</u>			
63H-FDV-F-08	FDV-25-40	1/2" BSPP THREADS	INLET 25 / 40 LITRES	
63H-FDV-G-08	FDV-40-60	1/2" BSPP THREADS	INLET 40 / 60 LITRES	
	MAXIMUM OPERATING PRESSURE 250 BAR			
	MATERIAL: CAST IRON			
				
	<u>FLOW RESTRICTOR ADJUSTABLE BIDIRECTIONAL (NEEDLE TYPE)</u>			
63H-FCV-2-90-04	FCVC-2-90-04	1/4" 1/4" BSPP THREADS	15 LITRE INLET	
63H-FCV-2-90-06	FCVC-2-90-06	3/8" 3/8" BSPP THREADS	30 LITRE INLET	
63H-FCV-2-90-08	FCVC-2-90-08	1/2" 1/2" BSPP THREADS	50 LITRE INLET	
63H-FCV-2-90-12	FCVC-2-90-12	3/4" 3/4" BSPP THREADS	90 LITRE INLET	
	MAXIMUM OPERATING PRESSURE 350 BAR			
	RESTRICTED BOTH WAYS			
	MATERIAL: ZINC PLATED			
				
	<u>FLOW RESTRICTOR ADJUSTABLE (NEEDLE TYPE + CHECK)</u>			
63H-FCV-1-90-04	FCV-1-90-04	1/4" 1/4" BSPP THREADS	15 LITRE INLET	
63H-FCV-1-90-06	FCV-1-90-06	3/8" 3/8" BSPP THREADS	30 LITRE INLET	
63H-FCV-1-90-08	FCV-1-90-08	1/2" 1/2" BSPP THREADS	50 LITRE INLET	
63H-FCV-1-90-12	FCV-1-90-12	3/4" 3/4" BSPP THREADS	80 LITRE INLET	
	MAXIMUM OPERATING PRESSURE 400 BAR			
	CHECKED ONE WAY FREE FLOW OTHER			
	MATERIAL: ZINC PLATED			
				
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY			PAGE D 3B

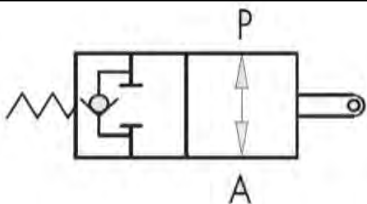
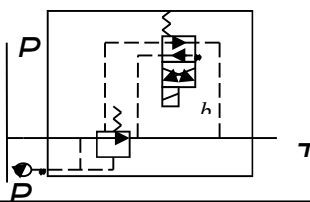
Part Number	HYDRAULIC FLOW CONTROL VALVES					RETAIL:
						08-07-2025
	<u>FEMALE FLOW CHECK VALVE</u>					
63H-CVU-04-W	CVU-04 1/4"	1/4" BSPP THREADS	20 LITRE FLOW	0,5 BAR	CRACKING	
63H-CVU-06-W	CVU-06 3/8"	3/8" BSPP THREADS	40 LITRE FLOW	0,5 BAR	CRACKING	
63H-CVU-08-W	CVU-08 1/2"	1/2" BSPP THREADS	60 LITRE FLOW	0,5 BAR	CRACKING	
63H-CVU-12-W	CVU-12 3/4"	3/4" BSPP THREADS	110 LITRE FLOW	0,5 BAR	CRACKING	
63H-CVU-16-W	CVU-16 1"	1" BSPP THREADS	160 LITRE FLOW	0,5 BAR	CRACKING	
63H-CVU-20-W	CVU-20 1 1/4"	1 1/4" BSPP THREADS	220 LITRE FLOW	0,5 BAR	CRACKING	
63H-CVU-24-W	CVU-24 1 1/2"	1 1/2" BSPP THREADS	350 LITRE FLOW	0,5 BAR	CRACKING	
63H-CVU-16-T	CVU-16 1"	1" BSPP THREADS	160 LITRE FLOW	5 BAR	CRACKING	
	MAXIMUM OPERATING PRESSURE 300 - 350 BAR					
	CHECKED ONE WAY FREE FLOW OTHER					
	MATERIAL: ZINC PLATED					
						
	<u>MALE FLOW CHECK VALVE</u>					
63H-CVU-MM-04-X	CVU MM 1/4"	1/4" BSPP THREADS	8 LITRE FLOW	1 BAR	CRACKING	
63H-CVU-MM-06-X	CVU MM 3/8"	3/8" BSPP THREADS	20 LITRE FLOW	1 BAR	CRACKING	
63H-CVU-MM-08-X	CVU MM 1/2"	1/2" BSPP THREADS	50 LITRE FLOW	1 BAR	CRACKING	
63H-CVU-MM-12-X	CVU MM 3/4"	3/4" BSPP THREADS	90 LITRE FLOW	1 BAR	CRACKING	
63H-CVU-MM-16-X	CVU MM 1"	1" BSPP THREADS	90 LITRE FLOW	1 BAR	CRACKING	
	MAXIMUM OPERATING PRESSURE 1/4" - 3/4" 350 BAR					
	MAXIMUM OPERATING PRESSURE 1" 320 BAR					
	CHECKED ONE WAY FREE FLOW OTHER					
	MATERIAL: ZINC PLATED					
						
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY						
						PAGE D 4

Part Number	HYDRAULIC LOAD HOLDING VALVES				RETAIL:
					22-07-2026
	<u>OVERCENTRE VALVE SINGLE ACTING</u>				
63H-LHV-1-06	LHV-1-PSA 06 SE	3/8" BSPP THREADS	35 LITRE INLET		
63H-LHV-1-08	LHV-1-PSA 08 SE	1/2" BSPP THREADS	60 LITRE INLET		
63H-LHV-1-12	LHV-1-PSA 12 SE	3/4" BSPP THREADS	90 LITRE INLET		
	SINGLE ACTING: 4 PORTED A + B ; C1 + C2:				
	MAXIMUM OPERATING PRESSURE: 350 BAR				
	MATERIAL: STEEL				
					
	<u>OVERCENTRE VALVE DOUBLE ACTING</u>				
63H-LHV-2-S-06	LHV-2-S 06 DE	3/8" BSPP THREADS	40 LITRE INLET		
63H-LHV-2-S-08	LHV-2-S 08 DE	1/2" BSPP THREADS	60 LITRE INLET		
63H-LHV-2-S-12	LHV-2-S 12 DE	3/4" BSPP THREADS	100 LITRE INLET		
63H-LHV-2-S-16	LHV-2-S 16 DE	1" BSPP THREADS	150 LITRE INLET		
	DOUBLE ACTING: 4 PORTED A + B ; C1 + C2:				
	MAXIMUM OPERATING PRESSURE: 350 BAR				
	MATERIAL: ZINC PLATED				
					
	<u>CHECK VALVE PILOT OPERATED SINGLE ACTING</u>				
63H-POC-1-04	POC-1-04	1/4" BSPP THREADS	20 LITRE INLET		
63H-POC-1-06	POC-1-06	3/8" BSPP THREADS	35 LITRE INLET		
63H-POC-1-08	POC-1-08	1/2" BSPP THREADS	50 LITRE INLET		
	MAXIMUM OPERATING PRESSURE 350 BAR,				
	PILOT RATIO 1:4 OPENING PRESSURE 0,5 bar				
	MATERIAL: ZINC PLATED				
					
	<u>CHECK VALVE PILOT OPERATED DOUBLE ACTING</u>				
63H-POC-2-04	POC-2-04	1/4" BSPP THREADS	4 BAR	20 LITRE INLET	
63H-POC-2-06	POC-2-06	3/8" BSPP THREADS	3 BAR	35 LITRE INLET	
63H-POC-2-08	POC-2-08	1/2" BSPP THREADS	6 BAR	50 LITRE INLET	
	MAXIMUM OPERATING PRESSURE 350 BAR,				
	PILOT RATIO 1:4 OPENING PRESSURE 0,5 bar				
	4 PORTS MATERIAL: ZINC PLATED				
					
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY					PAGE D 5

Part Number	HYDRAULIC LOAD HOLDING VALVES				RETAIL:
					12-01-2026
<u>CHECK VALVE PILOT OPERATED SINGLE ACTING</u>					
63H-POC-1-LS-06	POC-1-LS-06	3/8" BSPP THREADS	30 LITRE INLET	300 BAR	
63H-POC-1-LS-08	POC-1-LS-08	1/2" BSPP THREADS	45 LITRE INLET	300 BAR	
63H-POC-1-LS-12	POC-1-LS-12	3/4" BSPP THREADS	80 LITRE INLET	250 BAR	
63H-POC-1-LS-16	POC-1-LS-16	1" BSPP THREADS	120 LITRE INLET	220 BAR	
MAXIMUM OPERATING PRESSURE 350 BAR,					
PILOT RATIO 1:4 OPENING PRESSURE 0,5 bar					
3 PORTS					
MATERIAL: ZINC PLATED					
<u>CHECK VALVE PILOT OPERATED S/A WITH MANUAL LOCK</u>					
63H-POC-1-RSX	POC-1-RSX	LEFT HAND TYPE	3/8" BSPP THREADS	35 LITRE INLET	
63H-POC-1-RDX	POC-1-RDX	RIGHT HAND TYPE	3/8" BSPP THREADS	35 LITRE INLET	
MAXIMUM OPERATING PRESSURE: 350 BAR					
PILOT RATIO 1:4,5 OPENING PRESSURE 0,5 bar					
MATERIAL: RAW ALUMINIUM					
<u>SHUTTLE VALVE</u>					
63H-SHV-M-04	SHV-M-04	1/4" BSPP THREADS	500 BAR		
MATERIAL: ZINC PLATED					
<u>HIGH PRESSURE BALL VALVE 2 WAY</u>					
63H-EHV14-G	EHV DN 6	1/4" BSPP THREADS	500 BAR		
63H-EHV38-G	EHV DN 10	3/8" BSPP THREADS	500 BAR		
63H-EHV12-G	EHV DN 13	1/2" BSPP THREADS	500 BAR		
63H-EHV34-G	EHV DN 20	3/4" BSPP THREADS	315 BAR		
63H-EHV10-G	EHV DN 25	1" BSPP THREADS	315 BAR		
63H-EHV114-G	EHV DN 32	1-1/4" BSPP THREADS	315 BAR		
MATERIAL: STEEL					
<u>HIGH PRESSURE BALL VALVE 3 WAY CLOSED CENTRE</u>					
63H-EHVL14-G	EHVL DN 6	1/4" BSPP THREADS	500 BAR		
63H-EHVL38-G	EHVL DN 10	3/8" BSPP THREADS	500 BAR		
63H-EHVL12-G	EHVL DN 13	1/2" BSPP THREADS	500 BAR		
63H-EHVL34-G	EHVL DN 20	3/4" BSPP THREADS	315 BAR		
63H-EHVL10-G	EHVL DN 25	1" BSPP THREADS	315 BAR		
63H-EHVL114-G	EHVL DN 32	1-1/4" BSPP THREADS	315 BAR		
MATERIAL: STEEL					
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY					
					PAGE D 6

Part Number	HYDRAULIC DIVERTER VALVES				RETAIL:
					08-07-2025
<u>DIVERTER VALVE THREE WAY OPEN CENTRE</u>					
63H-DVF3-A-06	DVF3-A-06	3/8" BSPP THREADS	60	LITRE FLOW	
63H-DVF3-A-08	DVF3-A-08	1/2" BSPP THREADS	90	LITRE FLOW	
63H-DVF3-A-12	DVF3-A-12	3/4" BSPP THREADS	120	LITRE FLOW	
63H-DVF3-A-16	DVF3-A-16	1" BSPP THREADS	200	LITRE FLOW	
63H-DVF3-A-24	DVF3-A-24	1-1/2" BSPP THREADS	280	LITRE FLOW	
MAXIMUM OPERATING PRESSURE: 220 - 315 BAR					
MATERIAL: CAST IRON					
Open center					
					
<u>DIVERTER VALVE FOUR WAY OPEN CENTRE</u>					
63H-IVF4-B-06	IVF4-B-06	3/8" BSPP THREADS	35	LITRE FLOW	
63H-IVF4-B-08	IVF4-B-08	1/2" BSPP THREADS	50	LITRE FLOW	
63H-IVF4-B-12	IVF4-B-12	3/4" BSPP THREADS	90	LITRE FLOW	
MAXIMUM OPERATING PRESSURE: 220 - 300 BAR					
MATERIAL: CAST IRON					
Open center					
					
<u>DIVERTER VALVE SIX WAY OPEN CENTRE</u>					
63H-DVF6-A-08	DVF6-A-08	1/2" BSPP THREADS	90	LITRE FLOW	
63H-DVF6-A-12	DVF6-A-12	3/4" BSPP THREADS	120	LITRE FLOW	
63H-DVF6-A-16	DVF6-A-16	1" BSPP THREADS	200	LITRE FLOW	
MAXIMUM OPERATING PRESSURE: 220 - 250 BAR					
MATERIAL: CAST IRON					
Open center					
					
<u>DIVERTER VALVE TWO WAY 6 PORT SOLENOID OPERATED</u>					
63H-ELVSF240112	VS241/F1	3/8" BSPP THREADS	50	LITRE FLOW	12 VOLTS
63H-ELVSF280112	VS281/F1	1/2" BSPP THREADS	90	LITRE FLOW	12 VOLTS
MAXIMUM OPERATING PRESSURE: 310 BAR					
STACKABLE UP TO 5 BODIES					
MATERIAL: CAST IRON					
					
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY					PAGE D 7

Part Number	PRESSURE CONTROLLED VALVES					RETAIL:
						22-01-2026
	<u>PRESSURE HI - LOW UNLOADING VALVE</u>					
63H-HLV-08	HLV-08	1/2" BSPP THREADS	80 LITRE MAX FLOW			
63H-HLV-12	HLV-12	3/4" BSPP THREADS	120 LITRE MAX FLOW			
	MAX. OPERATING HIGH PRESSURE; PORT (AP) 50 : 350 Bar					
	MAX. OPERATING LOW PRESSURE; PORT (BP) 20 : 80 Bar					
	5 PORTS MATERIAL: ZINC PLATED STEEL					
						
	<u>PRESSURE SEQUENCE VALVE</u>					
63H-RVD-MS-06	RVD-MS-06	3/8" BSPP THREADS	35 LITRE INLET	10 - 180 BAR	90 LITRE/MIN	
63H-RVD-MS-08	RVD-MS-08	1/2" BSPP THREADS	70 LITRE INLET	10 - 180 BAR	90 LITRE/MIN	
63H-RVD-MS-12	RVD-MS-12	3/4" BSPP THREADS	120 LITRE INLET	50 - 400 BAR	180 LITRE/MIN	
	MAX. OPERATING PRESSURE RANGE: 10 : 180 BAR					
	MAX. OPERATING PRESSURE: 350 BAR					
	MATERIAL: ZINC PLATED STEEL					
						
	<u>PRESSURE REDUCING VALVE</u>					
63H-RPV-06	RPV-06	3/8" BSPP THREADS	10 - 60 Bar	30 LITRES		
	MAX. OPERATING PRESSURE: 350 BAR					
	MATERIAL: ZINC PLATED STEEL					
						
	<u>PRESSURE SWITCH</u>					
63H-60-P-02	P - 02	SPRING LOADED PISTON TYPE				
	RANGE 10 - 400 bar (diff % 15-20bar @ 400bar)					
	AC 110 - 250 ; DC 24V ; Thread 1/4" BSPP					
						
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY					PAGE D 8

Part Number	HYDRAULIC COMPONENTS					RETAIL:
						08-07-2025
	<u>END - STROKE VALVE</u>					
63H-V70900826	FCR-1T 80-NA12 NORMALLY OPEN 1/2" BSPP THREADS					
63H-V70900822	FCR-2T 80-NC12 NORMALLY CLOSED 1/2" BSPP THREADS					
						
	<u>SOLENOID OPERATED RELIEF VALVE</u>					
63H-BST061PN3D	BST- UNLOADING VALVE AVAILABLE IN 12 & 24 VOLT DC					
	MAXIMUM OPERATING PRESSURE: 250 BAR					
	FLOW RATE : 200 LITRES PER MINUTE					
	PORTS: 3/4" NPT					
						
	<u>PUMP PORT ADAPTOR FLANGES 90° DIAMOND 3 BOLT (EU TYPE)</u>					
63H-AFRG030060	RG 30 / 13.5	3/8" BSPP THREADS	PCD 30mm	13.5mm DIA PORT		
63H-AFRG030080	RG 30 / 13.5	1/2" BSPP THREADS	PCD 30mm	13.5mm DIA PORT		
63H-AFRG040080	RG 40 / 20.0	1/2" BSPP THREADS	PCD 40mm	20.0mm DIA PORT		
63H-AFRG040120	RG 40 / 20.0	3/4" BSPP THREADS	PCD 40mm	20.0mm DIA PORT		
63H-AFRG051120	RG 51 / 27.0	3/4" BSPP THREADS	PCD 51mm	27.0mm DIA PORT		
63H-AFRG051160	RG 51 / 27.0	1" BSPP THREADS	PCD 51mm	27.0mm DIA PORT		
	<u>PUMP PORT ADAPTOR FLANGES 90° SQUARE 4 BOLT (BOSCH TYPE)</u>					
63H-AFRGB35080	RGB 35 / 08	1/2" BSPP THREADS	PCD 35mm	15mm BOSCH		
63H-AFRGB40120	RGB 40 / 12	3/4" BSPP THREADS	PCD 40mm	20mm BOSCH		
63H-AFRGB55160	RGB 55 / 16	1" BSPP THREADS	PCD 55mm	26mm BOSCH		
	<u>DESCENT CONTROL VALVE</u>					
63H-VCG50520A0	VALVE	VSC 020 - A 3	3/8" BSPP THREADS	350 Bar	2 LITRE FLOW CONTROL	
63H-VCG506200	ADAPTOR	CMFXVSC 020	3/8" BSPP THREADS	MALE & FEMALE		
	<u>BURST VALVE</u>					
63H-ACV-MF-06	ACV-MF-06	3/8" BSPP THREADS	38 l/min	350 bar	1.5 SETTING	
63H-ACV-MF-08	ACV-MF-08	1/2" BSPP THREADS	70 l/min	350 bar	2.3 SETTING	
63H-ACV-MF-12	ACV-MF-12	3/4" BSPP THREADS	140 l/min	350 bar	2.5 SETTING	
						
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY					PAGE D 9

Part Number	TRACTOR STEP - UP GEAR BOXES		RETAIL: 08-07-2025
	<u>P.T.O. GEAR BOXES FEMALE DRIVE 12 Kw</u>		
	<u>GROUP 2 PUMP</u>		
63H-BM60002050	GBML32-2- F-1/3,5 DRIVE FEMALE 1"3/8		
63H-BF31000800	SPLINE ADAPTOR Z=14 BF2T GROUP 2 PUMP		
	RATIO : 1 / 3,5 P.T.O. SPEED 540 rpm 12 Kw		
	COMMON ROTATION C/W VIEWED FROM		
	BACK OF TRACTOR. MATERIAL: ALUMINIUM		
	<u>P.T.O. GEAR BOXES FEMALE DRIVE 20Kw</u>		
	<u>GROUP 3 & 2 PUMP</u>		
63H-BM70002050	GBML 52 - F - 1/3.4 DRIVE FEMALE 1"3/8		
63H-BF31003500	SPLINE ADAPTOR Z=18 BF3 GROUP 3 PUMP		
63H-BF31004000	SPLINE ADAPTOR Z=18 BF3/2T GROUP 2 PUMP		
	RATIO : 1 / 3,4 P.T.O. SPEED 540 rpm 20 Kw		
	COMMON ROTATION C/W VIEWED FROM		
	BACK OF TRACTOR. MATERIAL: ALUMINIUM		
	<u>P.T.O. GEAR BOXES MALE DRIVE 20Kw</u>		
	<u>GROUP 3 & 2 PUMP</u>		
63H-BM70001040	GBML 52 - M - 1/3 DRIVE FEMALE 1"3/8		
63H-BF31003500	SPLINE ADAPTOR Z=18 BF3 GROUP 3 PUMP		
63H-BF31004000	SPLINE ADAPTOR Z=18 BF3/2T GROUP 2 PUMP		
	RATIO : 1 / 3 P.T.O. SPEED 540 rpm 20 Kw		
	COMMON ROTATION C/W VIEWED FROM		
	BACK OF TRACTOR. MATERIAL: ALUMINIUM		
	<u>P.T.O. GEAR BOXES MALE / FEMALE THROUGH DRIVE 20Kw</u>		
	<u>GROUP 3 & 2 PUMP</u>		
63H-BM12390003	GBML 52/B - 8 - 1/3 THROUGH DRIVE FEMALE / MALE 1"3/8		
63H-BF31003500	SPLINE ADAPTOR Z=18 BF3 GROUP 3 PUMP		
63H-BF31004000	SPLINE ADAPTOR Z=18 BF3/2T GROUP 2 PUMP		
	RATIO : 1 / 3 P.T.O. SPEED 540 rpm 20 Kw		
	COMMON ROTATION C/W VIEWED FROM		
	BACK OF TRACTOR. MATERIAL: ALUMINIUM		
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE D 10

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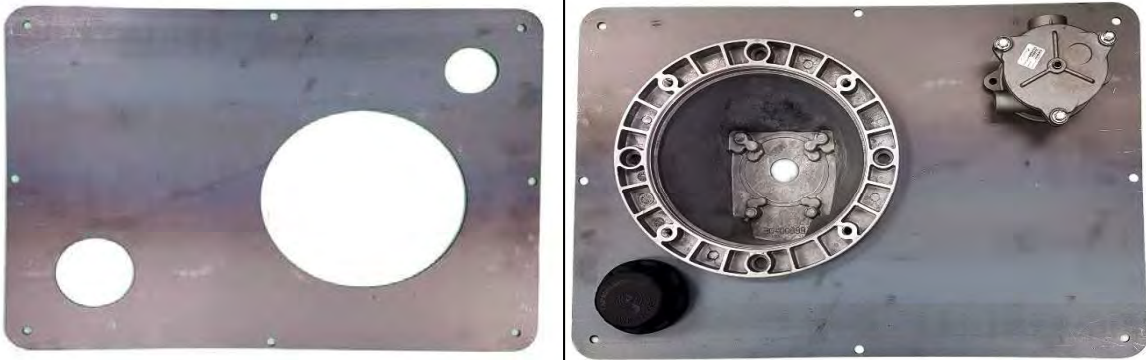
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Part Number	HAND PUMPS					RETAIL:
						15-02-2023
	STEEL TANKS FOR HAND PUMPS					
	CAPACITY					
64H-PM00220001	1 LITRE					
64H-PM00220003	3 LITRE					
64H-PM00220005	5 LITRE					
64H-PM00220010	10 LITRE					
	TANKS SUPPLIED WITH PUMP GASKET, MOUNTING BOLTS, FILLER BREATHER, DRAIN PLUG AND SUCTION PIPE					
						

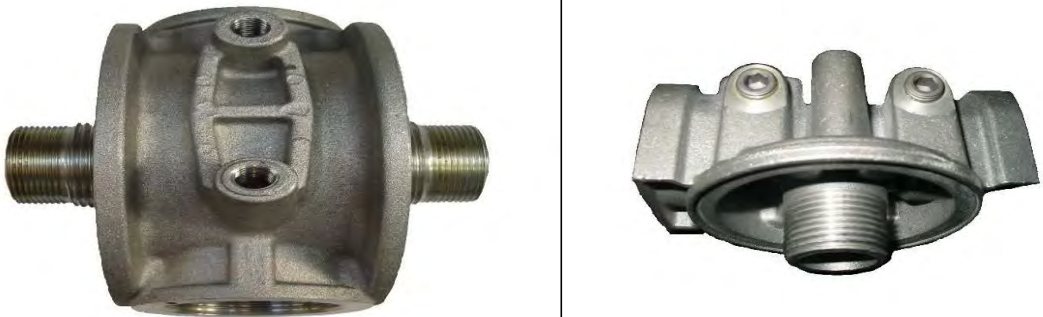
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Part Number	HYDRAULIC COMPONENTS						RETAIL:
							19-06-2024
ACCUMULATORS HR SERIES (DIAPHRAGM TYPE)							
	TYPE	MAX PRESS	NITROGEN VOL	MAX PRELOAD	MAX FLOW	CONNECTION	
		BAR	LITRE	BAR	LITRE / MIN	mm	
65H-ACH0100	H100R	250	0.15	150	15	M 18X1.5	
65H-ACH0350	H350R	250	0.35	150	35	M 18X1.5	
65H-ACH0500	H500R	250	0.45	150	45	M 18X1.5	
65H-ACH0700	H700R	250	0.7	150	70	M 18X1.5	
65H-ACH1000	H1000R	250	1.0	150	100	M 18X1.5	
65H-ACH1400	H1400R	250	1.4	150	140	M 18X1.5	
65H-ACH2000	H2000R	250	2.0	150	200	M 18X1.5	
65H-ACH4000	H4000R	250	4.0	150	380	M 18X1.5	
NITROGEN FILLING AND TESTING							
65H-ACCUFILL	FILLING AND TESTING LABOUR						
65H-ACAR500	TYPE A R CHARGING VALVE KIT 5/8" UNF THREAD SUPPLIED IN BOX						

Part Number	HYDRAULIC TANKS & ACCESSORIES						RETAIL:	
							29-05-2026	
	<u>WELDLESS STEEL TANKS FOR POWER PACKS</u> (WITHOUT LID)							
	<u>TOTAL OIL CAPACITY</u>	<u>LENGTH</u>	<u>WIDTH</u>	<u>HEIGHT</u>	<u>FEET</u>	<u>TOTAL HEIGHT</u>		
66H-025TANK	25 LITRE	390 mm	280 mm	232 mm	+48 mm	280 mm		
66H-040TANK	40 LITRE	460 mm	330 mm	272 mm	+56 mm	328 mm		
66H-070TANK	70 LITRE	560 mm	400 mm	332 mm	+69 mm	401 mm		
66H-100TANK	100 LITRE	630 mm	450 mm	372 mm	+77 mm	449 mm		
66H-160TANK	160 LITRE	730 mm	520 mm	432 mm	+90 mm	522 mm		
66H-250TANK	250 LITRE	850 mm	610 mm	502 mm	+105 mm	607 mm		
	<u>BLANK STEEL LIDS FOR TANKS</u>							
	<u>TOTAL OIL CAPACITY</u>	<u>LENGTH</u>	<u>WIDTH</u>	<u>THICKNESS</u>				
66H-25LID	25 LITRE	440 mm	330 mm	3 mm				
66H-40LID	40 LITRE	510 mm	380 mm	3 mm				
66H-70LID	70 LITRE	610 mm	450 mm	4 mm				
66H-100LID	100 LITRE	680 mm	500 mm	4 mm				
66H-160LID	160 LITRE	780 mm	570 mm	5 mm				
66H-250LID	250 LITRE	900 mm	660 mm	5 mm				
								
	<u>TECHNICAL SPECIFICATIONS</u>							
	TANK SIDES 2mm THICK AND WELDLESS							
	TANK LID FROM 3mm TO 5mm THICK WITH ROUNDED 90° EDGES							
	TANKS SUPPLIED WITH LID GASKET, 1/2"BSP DRAIN, OIL LEVEL THREADED HOLES							
	<u>TANK TOP FILLER BREATHERS</u>							
66H-EFB450H64	TANK TOP FILLER BREATHER 29mm O/D MESH 40 micron							
77H-HB-55-72	TANK TOP FILLER BREATHER 50mm O/D MESH 40 micron							
66H-TAP9010-L	TANK TOP FILLER BREATHER (Anti-splash HB-2)							
	<u>LEVEL GAUGES</u>							
66H-EAVT-I-076	EAVT-I 076BM12Z - 3" (76mm BOLT CENTER 12mm NUT)							
66H-EAVT-I-127	EAVT-I 127BM12Z - 5" (127mm BOLT CENTER 12mm NUT)							
66H-EAVT-I-254	EAVT-I 254BM12Z - 10" (254mm BOLT CENTER 12mm NUT)							
	<u>LEVEL GAUGES (SIGHT GLASS)</u>							
66H-EAPP-04	1/4" BSPP THREAD ALUMINIUM SIGHT GLASS TYPE LEVEL GAUGE							
66H-EAPP-06	3/8" BSPP THREAD ALUMINIUM SIGHT GLASS TYPE LEVEL GAUGE							
66H-EAPP-08	1/2" BSPP THREAD ALUMINIUM SIGHT GLASS TYPE LEVEL GAUGE							
66H-EAPP-12	3/4" BSPP THREAD ALUMINIUM SIGHT GLASS TYPE LEVEL GAUGE							
66H-EAPP-16	1" BSPP THREAD ALUMINIUM SIGHT GLASS TYPE LEVEL GAUGE							
66H-EAPP-20	1-1/4" BSPP THREAD ALUMINIUM SIGHT GLASS TYPE LEVEL GAUGE							
	<u>ELECTRICAL LEVEL INDICATOR</u>							
66H-EAVL-L-150	ELECTRICAL LEVEL INDICATOR PORT 1" BSPP NORMALLY OPEN SWITCH							
66H-EAVL-L-200	ELECTRICAL LEVEL INDICATOR PORT 1" BSPP NORMALLY OPEN SWITCH							
66H-EAVL-L-250	ELECTRICAL LEVEL INDICATOR PORT 1" BSPP NORMALLY OPEN SWITCH							
66H-ALEX-BUZZ	BUZZER WARNING 24 v							
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY						PAGE G 1	

Part Number	HYDRAULIC TANKS & ACCESSORIES				RETAIL:
					15-02-2023
	<u>PRE - CUT OUT STEEL LIDS FOR TANKS</u>				
	ELECTRIC MOTORS	FRAME SIZE	BELL HOUSING	PUMP TYPE ; TO FIT VERTICALLY INSIDE TANK	
66H-25L160	0.25 / 0.37	71	160	GP1 / GP2	
66H-25L200	0.55 / 0.75 / 1.1 / 1.5	80	200	GP1 / GP2	
66H-25L250	2.2 / 3.0 / 4.0	100	250	GP1	
66H-40L160	0.25 / 0.37	71	160	GP1 / GP2	
66H-40L200	0.55 / 0.75 / 1.1 / 1.5	80	200	GP1 / GP2 / GP3	
66H-40L250	2.2 / 3.0 / 4.0	100	250	GP1 / GP2	
66H-70L200	0.55 / 0.37 / 1.1 / 1.5	80	200	GP1 / GP2 / GP2+2 / GP3	
66H-70L250	2.2 / 3.0 / 4.0	100	250	GP1 / GP2 / GP3	
66H-70L300	5.5 / 7.5 / 9.2	132	300	GP1 / GP2 / GP3	
66H-100L200	0.55 / 0.37 / 1.1 / 1.5	50	200	GP1 / GP2 / GP2+2 / GP3	
66H-100L250	2.2 / 3.0	100	250	GP1 / GP2 / GP2+2 / GP3	
66H-100L250	4	112	250	GP1 / GP2 / GP2+2 / GP3 / A10V18 / A10V28	
66H-100L300	5.5 / 7.5 / 9.2	132	300	GP1 / GP2 / GP3 / A10V18 / A10V28	
66H-100L350	11.0 / 15.0	160	350	GP1 / GP2 / GP3	
66H-100L350	18.5 / 22	180	350	GP1 / GP2 / GP3	
66H-160L250	2.2 / 3.0	100	250	GP1 / GP2 / GP2+2 / GP3 / GP3+2 / A10V18 / 28 / 45	
66H-160L250	4	112	250	GP1 / GP2 / GP2+2 / GP3 / GP3+2 / A10V18 / 28 / 45	
66H-160L300	5.5 / 7.5 / 9.2	132	300	GP1 / GP2 / GP2+2 / GP3 / GP3+2 / A10V18 / 28 / 45	
66H-160L350	11.0 / 15.0	160	350	GP1 / GP2 / GP2+2 / GP3 / GP3+2 / A10V18 / 28 / 45	
66H-160L350	18.5 / 22.0	180	350	GP1 / GP2 / GP2+2 / GP3 / GP3+2 / A10V18 / 28 / 45	
66H-250L300	5.5 / 7.5 / 9.2	132	300	GP1 / GP2 / GP2+2 / GP3 / GP3+2 / A10V18 / 28 / 45 / 71 / 100	
66H-250L350	11.0 / 15.0	160	350	GP1 / GP2 / GP2+2 / GP3 / GP3+2 / A10V18 / 28 / 45 / 71 / 100	
66H-250L350	18.5 / 22.0	180	350	GP1 / GP2 / GP2+2 / GP3 / GP3+2 / A10V18 / 28 / 45 / 71 / 100	
66H-250L400	30	200	400	GP1 / GP2 / GP2+2 / GP3 / GP3+2 / A10V18 / 28 / 45 / 71 / 100	
	TANK SIZE	LEVEL GAUGE	RETURN LINE FILTER	FILLER BREATHER	
	25 L	76 mm	68Ø mm 1/2" BSPP PORTS	30Ø mm 29mm FILLER	
	40 L	127mm	90Ø mm 1" BSPP PORTS	30Ø mm 29mm FILLER	
	70 L	127mm	90Ø mm 1" BSPP PORTS	60Ø mm ANTI SPLASH	
	100 L	127mm	90Ø mm 1" BSPP PORTS	60Ø mm ANTI SPLASH	
	160 L	127mm	90Ømm 1" BSPP PORTS	60Ø mm ANTI SPLASH	
	250 L	127mm	90Ø mm 1" BSPP PORTS	60Ø mm ANTI SPLASH	
					
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY				PAGE G 2

Part Number	HYDRAULIC GAUGES			RETAIL:	
				11-03-2025	
<u>GAUGE BOTTOM ENTRY</u>					
	<u>PRESSURE RANGE</u>	<u>FACE O/D</u>	<u>THREAD BSP</u>		
66H-AMGR63010	0 / 10 Bar	63 mm	1/4"		
66H-AMGR63025	0 / 25 Bar	63 mm	1/4"		
66H-AMGR63060	0 / 60 Bar	63 mm	1/4"		
66H-AMGR63100	0 / 100 Bar	63 mm	1/4"		
66H-AMGR63160	0 / 160 Bar	63 mm	1/4"		
66H-AMGR63250	0 / 250 Bar	63 mm	1/4"		
66H-AMGR63400	0 / 400 Bar	63 mm	1/4"		
66H-AMGR63600	0 / 600 Bar	63 mm	1/4"		
<u>GAUGE REAR ENTRY</u>					
	<u>PRESSURE RANGE</u>	<u>FACE O/D</u>	<u>THREAD BSP</u>		
66H-AMGF63010	0 / 10 Bar	63 mm	1/4"		
66H-AMGF63025	0 / 25 Bar	63 mm	1/4"		
66H-AMGF63060	0 / 60 Bar	63 mm	1/4"		
66H-AMGF63100	0 / 100 Bar	63 mm	1/4"		
66H-AMGF63160	0 / 160 Bar	63 mm	1/4"		
66H-AMGF63250	0 / 250 Bar	63 mm	1/4"		
66H-AMGF63400	0 / 400 Bar	63 mm	1/4"		
66H-AMGF63600	0 / 600 Bar	63 mm	1/4"		
<u>GAUGE DIGITAL BOTTOM ENTRY 0 : 700 Bar</u>					
	<u>PRESSURE RANGE</u>	<u>FACE O/D</u>	<u>THREAD BSP</u>		
66H-SD700	700 Bar	63 mm	1/4"		
	DIGITAL READ OUT 0 : 700 Bar				
	ON / OFF BUTTON				
	AUTO OFF BUTTON				
	LIGHT BUTTON				
	MAX RECALL PRESSURE BUTTON				
	RESET BUTTON				
<u>QUADRIGAUGE</u>					
	<u>PRESSURE RANGE</u>	<u>0 - 5000 PSI</u>	<u>0 - 350 BAR</u>		
66H-03740019	1/8" NPT FEMALE FITTING ON GAUGE MALE ON HOSE				
<u>GAUGE HOSE ASSEMBLIES & TEST POINTS</u>					
	<u>PRESSURE RANGE ;</u>	<u>GAUGE THREAD</u>	<u>MINI MESS THREAD</u>	<u>LENGTH</u>	
54P-MMH-64001	0 / 700 Bar	1/4" BSPP	M16X2	1000 mm	
54P-MMH-64001-5	0 / 700 Bar	1/4" BSPP	M16X2	1500 mm	
54P-MMH-64002	0 / 700 Bar	1/4" BSPP	M16X2	2500 mm	
<u>MINI MESS TEST POINT</u>					
54P-MMP-02R	MINI MESS POINT	1/8" BSPP	M16X2		
54P-MMP-04R	MINI MESS POINT	1/4" BSPP	M16X2		
54P-MMP-06R	MINI MESS POINT	3/8" BSPP	M16X2		
54P-MMP-08R	MINI MESS POINT	1/2" BSPP	M16X2		
54P-MMP-04N	MINI MESS POINT	1/4" NPT	M16X2		
54P-MMP-06N	MINI MESS POINT	3/8" NPT	M16X2		
<u>GAUGE ISOLATOR</u>					
66H-DFPE1G0400	GAUGE ISOLATOR 1/4" NPT THREAD				
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY				PAGE G 3	

Part Number	FILTRATION ACCESSORIES				RETAIL:
					14-01-2025
	<u>IN LINE SPIN - ON FILTER HEADS</u> (RETURN LINE ONLY)				
	<u>DESCRIPTION</u>	<u>PORTS</u>	<u>FLOW RATE @ 40 KPA</u>		
67H-EFPS1	FILTER HEAD	3/4" BSP	75 LITRES		
67H-EFPS3	FILTER HEAD	1- 1/4" BSP	200 LITRES		
67H-EFPS5	FILTER HEAD	1- 1/2" BSP	350 LITRES TWIN HEADS		
67H-EFPS-3	MAX WORKING PRESSURE	12 bar	BY-PASS SPRING	1.7 bar	RETURN SIDE
67H-EFSS-3	MAX WORKING PRESSURE	12 bar	BY-PASS SPRING	0.25 bar	SUCTION SIDE
					
67H-EFFS1	SPIN-ON BREATHER EXTENSION FLANGE	3/4" BSP	3 BOLT		
	<u>SPIN - ON FILTER CANS</u>				
	<u>DESCRIPTION</u>	<u>FILTER HEAD</u>	<u>FLOW RATE</u>	<u>MICRON</u>	
67H-EEPS1-10	SPIN-ON CAN	3/4" BSP	70 LITRES @ 20 Kpa	10	
67H-EEPS1-20	SPIN-ON CAN	3/4" BSP	120 LITRES @ 20 Kpa	25	
67H-EEPS3-10	SPIN-ON CAN	1-1/4" BSP & 1-1/2" BSP	200 LITRES @ 20 Kpa	10	
67H-EEPS3-20	SPIN-ON CAN	1-1/4" BSP & 1-1/2" BSP	300 LITRES @ 20 Kpa	25	
67H-EEPS3-90	SPIN-ON CAN	1-1/4" BSP & 1-1/2" BSP	300 LITRES @ 20 Kpa	90	
	<u>VISUAL INDICATORS</u>				
67H-PA	PA GAUGE RETURN SIDE	1/8" BSP	GAUGE 0 - 12 bar		
67H-VA	VA GAUGE SUCTION SIDE	1/8" BSP	GAUGE 0 - 76 cm Hg		
	<u>SUCTION STRAINERS</u> (SUCTION LINE ONLY 125 MICRON)				
	<u>DESCRIPTION</u>	<u>PORTS</u>	<u>FLOW RATE</u>		
67H-EEST1	SUCTION STRAINER	3/8" BSP PORT	15 LITRES		
67H-EEST2	SUCTION STRAINER	1/2" BSP PORT	22 LITRES		
67H-EEST5	SUCTION STRAINER	3/4" BSP PORT	56 LITRES		
67H-EEST6	SUCTION STRAINER	1" BSP PORT	100 LITRES		
67H-EEST10	SUCTION STRAINER	1-1/4" BSP PORT	140 LITRES		
67H-EEST11	SUCTION STRAINER	1-1/2" BSP PORT	200 LITRES		
67H-EEST17	SUCTION STRAINER	2" BSP PORT	340 LITRES		
					
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY				PAGE H

Part Number	FILTRATION ACCESSORIES			RETAIL:
				05-02-2026
	<u>TANK TOP RETURN LINE FILTER BODY</u> (INCLUDES 20 MICRON ELEMENT)			
	<u>DESCRIPTION</u>	<u>FILTER HEAD</u>	<u>FLOW RATE @ 15 KPA</u>	
67H-EFRM2BBB	TANK TOP & FILTER ELEMENT	1/2" BSP	110 LITRES	
67H-EFRM6BCB	TANK TOP & FILTER ELEMENT	3/4" BSP	150 LITRES	
67H-EFRM8BDB	TANK TOP & FILTER ELEMENT	1" BSP	210 LITRES	
67H-EFRM11BEB	TANK TOP & FILTER ELEMENT	1-1/4" BSP	300 LITRES	
67H-EFRM15BFB	TANK TOP & FILTER ELEMENT	1-1/2" BSP	425 LITRES	
67H-EFRM17BHB	TANK TOP & FILTER ELEMENT	2" BSP	600 LITRES	
	MAX WORKING PRESSURE 3 bar	BY-PASS 170 Kpa	1 bar = 100 Kpa	
	<u>TANK TOP RETURN ELEMENTS</u> (RETURN LINE ONLY, BY-PASS SET 170 KPA)			
	<u>DESCRIPTION</u>	<u>FILTER HEAD</u>	<u>FLOW RATE @ 15 KPA</u>	<u>MICRON</u>
67H-EERM2BP20	FILTER ELEMENT	1/2" BSP	60 LITRES	20
67H-EERM6BP20	FILTER ELEMENT	3/4" BSP	100 LITRES	20
67H-EERM8BP20	FILTER ELEMENT	1" BSP	150 LITRES	20
67H-EERM11BP20	FILTER ELEMENT	1-1/4" BSP	300 LITRES	20
67H-EERM15BP20	FILTER ELEMENT	1-1/2" BSP	450 LITRES	20
67H-EERM17BP20	FILTER ELEMENT	2" BSP	550 LITRES	20
	<u>TANK TOP RETURN ELEMENTS</u> (RETURN LINE ONLY, BY-PASS SET 170 KPA)			
	<u>DESCRIPTION</u>	<u>FILTER HEAD</u>	<u>FLOW RATE @ 40 KPA</u>	<u>MICRON</u>
67H-EERM2BP10	FILTER ELEMENT	1/2" BSP	45 LITRES	10
67H-EERM6BP10	FILTER ELEMENT	3/4" BSP	85 LITRES	10
67H-EERM8BP10	FILTER ELEMENT	1" BSP	150 LITRES	10
67H-EERM11BP10	FILTER ELEMENT	1-1/4" BSP	300 LITRES	10
67H-EERM15BP10	FILTER ELEMENT	1-1/2" BSP	350 LITRES	10
67H-EERM17BP10	FILTER ELEMENT	2" BSP	450 LITRES	10
	<u>HIGH PRESSURE IN LINE FILTER</u> (INCLUDES ELEMENT & INDICATOR)			
67H-EFPU3BC11B	FILTER HIGH PRESSURE 3/4" BSP INCLUDING ELEMENT 10 MICRON & INDICATOR 110 LITRES			
67H-EFPU5BD11B	FILTER HIGH PRESSURE 1" BSP INCLUDING ELEMENT 10 MICRON & INDICATOR 160 LITRES			
67H-EFPU8BE11B	FILTER HIGH PRESSURE 1-1/4" BSP INCLUDING ELEMENT 10 MICRON & INDICATOR 280 LITRES			
67H-EFPU10BF11B	FILTER HIGH PRESSURE 1-1/2" BSP INCLUDING ELEMENT 10 MICRON & INDICATOR 400 LITRES			
67H-EFPU3BP10	FILTER HIGH PRESSURE ELEMENT FOR EFPU3 3/4"	10 MICRON	FLOW RATE 110 LITRES	
67H-EFPU5BP10	FILTER HIGH PRESSURE ELEMENT FOR EFPU5 1"	10 MICRON	FLOW RATE 160 LITRES	
67H-EFPU8BP10	FILTER HIGH PRESSURE ELEMENT FOR EFPU8 1-1/4"	10 MICRON	FLOW RATE 280 LITRES	
67H-EFPU10BP10	FILTER HIGH PRESSURE ELEMENT FOR EFPU10 1-1/2"	10 MICRON	FLOW RATE 400 LITRES	
				
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY			PAGE H 2

Part Number	DRIVE COUPLINGS								RETAIL:
									01-10-2022
	<u>PARALLEL SHAFT COUPLINGS H R C (TAPER LOCK)</u>								
	MOTOR	TAPER	PUMP	TAPER	COUPLING	RUBBER	ELECTRIC	ELECTRIC	
	SHAFT	LOCK BUSH	SHAFT	LOCK BUSH	HRC TYPE	ELEMENT	FRAME	K.W.	
68H-090FASS	19	1108 19	5/8"	1108 5/8	090F	090	80	0.55 - 0.75	
68H-090FASS	19	1108 19	3/4"	1108 3/4	090F	090	80	0.55 - 0.75	
68H-090FASS	24	1108 24	3/4"	1108 3/4	090F	090	90	1.1 - 1.5	
68H-090FASS	24	1108 24	7/8"	1108 7/8	090F	090	90	1.1 - 1.5	
68H-110FASS	28	1610 028	5/8"	1610 010	110 F	110	100 / 112	2.20 - 4.00	
68H-110FASS	28	1610 028	3/4"	1610 012	110 F	110	100 / 112	2.20 - 4.00	
68H-110FASS	38	1610 038	5/8"	1610 010	110 F	110	132	5.50 - 9.00	
68H-110FASS	38	1610 038	3/4"	1610 012	110 F	110	132	5.50 - 9.00	
68H-130FASS	42	1610 042	5/8"	1610 010	130 F	130	160	11.00 - 15.00	
68H-130FASS	42	1610 042	3/4"	1610 012	130 F	130	160	11.00 - 15.00	
68H-130FASS	42	1610 042	7/8"	1610 014	130 F	130	160	11.00 - 15.00	
68H-130FASS	42	1610 042	1"	1610 100	130 F	130	160	11.00 - 15.00	
68H-130FASS	42	1610 042	1-1/8"	1610 102	130 F	130	160	11.00 - 15.00	
68H-130FASS	42	1610 042	1-1/4"	1610 104	130 F	130	160	11.00 - 15.00	
68H-150FASS	48	2012 048	7/8"	2012 014	150 F	150	180	18.00 - 22.00	
68H-150FASS	48	2012 048	1"	2012 100	150 F	150	180	18.00 - 22.00	
68H-150FASS	48	2012 048	1-1/8"	2012 102	150 F	150	180	18.00 - 22.00	
68H-150FASS	48	2012 048	1-1/4"	2012 104	150 F	150	180	18.00 - 22.00	
68H-180FASS	55	2517 055	1"	2517 100	180 F	180	200	30.00	
68H-180FASS	55	2517 055	1-1/8"	2517 102	180 F	180	200	30.00	
68H-180FASS	55	2517 055	1-1/4"	2517 104	180 F	180	200	30.00	
	<u>TAPER LOCK BUSH METRIC</u>								
68H-1108M	1108 SIZES : 16 mm 18 mm 19 mm 20 mm 22 mm 24 mm								
68H-1610M	1610 SIZES : 16 mm 19 mm 22 mm 25 mm 28 mm 30 mm 32 mm 38 mm 42 mm								
68H-2012M	2012 SIZES : 22 mm 25 mm 28 mm 30 mm 32 mm 38 mm 42 mm 48 mm								
68H-2517M	2517 SIZES : 25 mm 28 mm 30 mm 32 mm 38 mm 42 mm 48 mm 55 mm								
	<u>TAPER LOCK BUSH IMPERIAL</u>								
68H-1108I	TYPE 1108 SIZES : 5/8" 7/8" 3/4" 1"								
68H-1610I	TYPE 1610 SIZES : 5/8" 7/8" 3/4" 1" 1-1/8" 1-1/4"								
68H-2012I	TYPE 2012 SIZES : 7/8" 3/4" 1" 1-1/8" 1-1/4"								
68H-2517I	TYPE 2517 SIZES : 1" 1-1/8" 1-1/4"								
	<u>COUPLING FLANGE</u>								
68H-090-F	TYPE HRC 090 F								
68H-110-F	TYPE HRC 110 F								
68H-130-F	TYPE HRC 130 F								
68H-150-F	TYPE HRC 150 F								
68H-180-F	TYPE HRC 180 F								
	<u>COUPLING RUBBER</u>								
68H-090ELEM	TYPE HRC 090 NATURAL ELEMENT								
68H-110ELEM	TYPE HRC 110 NATURAL ELEMENT								
68H-130ELEM	TYPE HRC 130 NATURAL ELEMENT								
68H-150ELEM	TYPE HRC 150 NATURAL ELEMENT								
68H-180ELEM	TYPE HRC 180 NATURAL ELEMENT								
	<u>POWER RATINGS WORKED OUT AS BELOW</u>								
	<u>SERVICE FACTOR X 2,5 @ 1440 RPM</u>								

Part Number	DRIVE COUPLINGS								RETAIL:
									22-01-2026
	PARALLEL SHAFT COUPLING (BLANK)								
	DESC	Nm	MAX Kw	MAX rpm	MAX BORE	LENGTH	NYLON OD	STEEL OD	
		@ 1500 rpm	cont						
68H-HOF28	HOF-28	20	3	5000	28	84	67	44	
68H-HOF42	HOF-42	76	11	5000	42	88	87	60	
68H-HOF55	HOF-55	133	22	4000	55	124	121	80	
	NYLON SLEEVE ONLY								
68H-HOF28NS	SLEEVE HOF 28 NS								
68H-HOF42NS	SLEEVE HOF 42 NS								
68H-HOF55NS	SLEEVE HOF 55 NS								
	PARALLEL SHAFT COUPLING (BORED)								
	HUBS PRE - BORED ;								
	PRICED PER SIDE ; 2 SIDES TO BE ADDED TO A BLANK UNIT PRICE								
	DESCRIPTION	BORE	KEY	LENGTH	NYLON OD	STEEL OD			
68H-28-GP2-1-8	HOF-28- 1 ; 8 TAPER	1;8	3.2mm x 3.2mm	84	67	44			
68H-28-1-2	HOF-28-1/2"	1/2"	3.2mm x 3.2mm	84	67	44			
68H-28-5-8	HOF-28-5/8"	5/8"	4.8mm X 4.8mm	84	67	44			
68H-28-3-4	HOF-28-3/4"	3/4"	4.8mm X 4.8mm	84	67	44			
68H-28-7-8	HOF-28-7/8"	7/8"	6.3mm X 6.3mm	84	67	44			
68H-28-1	HOF-28-1"	1"	6.3mm X 6.3mm	84	67	44			
68H-28-1-1-8	HOF-28-1-1/8"	1-1/8"	6.3mm X 6.3mm	84	67	44			
68H-28-16mm	HOF-28-16mm	16mm	4mm X 4mm	84	67	44			
68H-28-18mm	HOF-28-18mm	18mm	6mm X 6mm	84	67	44			
68H-28-19mm	HOF-28-19mm	19mm	6mm X 6mm	84	67	44			
68H-28-22mm	HOF-28-22mm	22mm	6mm X 6mm	84	67	44			
68H-28-24mm	HOF-28-24mm	24mm	8mm X 8mm	84	67	44			
68H-28-28mm	HOF-28-28mm	28mm	8mm X 8mm	84	67	44			
68H-42-GP-1-8	HOF-42- 1 ; 8 TAPER	1;8	3.2mm x 3.2mm	88	87	60			
68H-42-3-4	HOF-42-3/4"	3/4"	4.8mm X 4.8mm	89	87	60			
68H-42-7-8	HOF-42-7/8"	7/8"	6.3mm X 6.3mm	88	87	60			
68H-42-1	HOF-42-1"	1"	6.3mm X 6.3mm	88	87	60			
68H-42-1-1-8	HOF-42-1-1/8"	1-1/8"	6.3mm X 6.3mm	88	87	60			
68H-42-1-1-4	HOF-42-1-1/4"	1-1/4"	8mm X 8mm	88	87	60			
68H-42-19mm	HOF-42-19mm	19mm	6mm X 6mm	88	87	60			
68H-42-22mm	HOF-42-22mm	22mm	6mm X 6mm	89	87	60			
68H-42-24mm	HOF-42-24mm	24mm	8mm X 8mm	88	87	60			
68H-42-25mm	HOF-42-25mm	25mm	8mm X 7mm	88	87	60			
68H-42-28mm	HOF-42-28mm	28mm	8mm X 8mm	88	87	60			
68H-42-32mm	HOF-42-32mm	32mm	10mm X 8mm	88	87	60			
68H-42-38mm	HOF-42-38mm	38mm	10mm X 10mm	88	87	60			
68H-42-42mm	HOF-42-42mm	42mm	12mm X 12mm	89	87	60			
68H-55-1-1-4	HOF-55-1-1/4"	1-1/4"	8mm X 8mm	124	121	80			
68H-55-32mm	HOF-55-1-32mm	32mm	10mm X 8mm	124	121	80			
	SPLINED BILLETS								
	FEMALE								
68H-09DIN	09 TOOTH	D.I.N.	(16.2 mm)	OD					
68H-09SAE	09 TOOTH	SAE A	5/8" (15.8 mm)	OD					
68H-10SAE	10 TOOTH		17mm	OD					
68H-11SAE	11 TOOTH		3/4"	OD					
68H-13SAE	13 TOOTH	SAE B	7/8"	OD					
68H-14SAE	14 TOOTH	SAE C	1-1/4"	OD					
68H-15SAE	15 TOOTH	SAE BB	1"	OD					
	MALE / FEMALE ADAPTORS								
68H-09-13SAE	9 - 13 TOOTH ADAPTOR								
68H-13-14SAE	13 - 14 TOOTH ADAPTOR								
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY								PAGE 12

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Part Number	DRIVE COUPLINGS						RETAIL:
							14-01-2025
	<u>BLANK COUPLINGS</u>						
	<u>BLANK HALF</u>	<u>DESCRIPTION:</u>	<u>A mm</u>	<u>C mm</u>	<u>D mm</u>	<u>E mm</u>	
68H-NS48C	NS48C	BLANK	48	38	24 max bore	54	
68H-NS65C	NS65C	BLANK	65	53	28 max bore	57.5	
68H-NS86C	NS86C	BLANK	86	73	40 max bore	88	
	<u>BLANK COUPLING RUBBER SPIDERS</u>						
	<u>SPIDER</u>	<u>DESCRIPTION:</u>	<u>I mm</u>	<u>O</u>			
68H-R42	R-42	TO FIT NS48C	16	19			
68H-R62	R-62	TO FIT NS65C	18	29			
68H-R82	R-82	TO FIT NS86C	20	31.5			
	<u>PETROL ENGINE COMPLETE COUPLINGS</u>						
	<u>HONDA</u>		<u>H/P</u>	<u>KW</u>	<u>ENGINE SHAFT OD</u>	<u>PUMP SHAFT</u>	
68H-ND510	GX160	RPM @ 3600	3.9	2.9	3/4" P-KEY	1;8 TAPER GP1	
68H-ND510	GX200	RPM @ 3600	5	3.7	3/4" P-KEY	1;8 TAPER GP1	
68H-ND610	GX240	RPM @ 3600	6.1	4.6	1" P-KEY	1;8 TAPER GP1	
68H-ND610	GX270	RPM @ 3600	6.8	5.1	1" P-KEY	1;8 TAPER GP1	
68H-ND610	GX340	RPM @ 3600	8.4	6.3	1" P-KEY	1;8 TAPER GP1	
68H-ND610	GX390	RPM @ 3600	9.4	7	1" P-KEY	1;8 TAPER GP1	
68H-ND610	GX630	RPM @ 3600	16.1	12	1" P-KEY	1;8 TAPER GP1	
68H-ND613	GX240	RPM @ 3600	6.1	4.6	1" P-KEY	1;8 TAPER GP2	
68H-ND613	GX270	RPM @ 3600	6.8	5.1	1" P-KEY	1;8 TAPER GP2	
68H-ND613	GX340	RPM @ 3600	8.4	6.3	1" P-KEY	1;8 TAPER GP2	
68H-ND613	GX390	RPM @ 3600	9.4	7	1" P-KEY	1;8 TAPER GP2	
68H-ND613	GX630	RPM @ 3600	16.1	12	1" P-KEY	1;8 TAPER GP2	

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Part Number	BELLHOUSINGS						RETAIL:
							05-02-2026
	<u>PILOT BORE BLANK BELLHOUSINGS</u>						
	DESCRIPTION	SAE FLANGE	CODE	PILOT BORE	ELECTRIC FRAME	MOTOR K.W.	
69H-200-63	200 / 63	3-1/4"	TH1-63X	63	80 / 90	0.55 - 1.5	
69H-250-63	250 / 63	3-1/4"	TH2-63X	63	100 / 112	2.2 - 4.00	
69H-300-80	300 / 80	3-1/4" / 4"	TH3-80X	80	132 / 132	5.50 - 9.00	
69H-350-80	350 / 80	3-1/4" / 4" / 5"	TH4-80X	80	160 / 180	11.00 - 22.00	
69H-400-100	400 / 100	4" / 5"	TH15-100X	100	200 / 200	30.00 - 30.00	
	<u>PETROL ENGINE BELLHOUSINGS</u>						
	HONDA		H/P	KW	ENGINE P.C.D.	PUMP SPIGOT	
69H-LMH151	GX160	RPM @ 3600	3.9	2.9	92.00 mm	25.4 mm GP1	
69H-LMH151	GX200	RPM @ 3600	5	3.7	92.00 mm	25.4 mm GP1	
69H-LMH401	GX240	RPM @ 3600	6.1	4.6	127.00 mm	25.4 mm GP1	
69H-LMH401	GX270	RPM @ 3600	6.8	5.1	127.00 mm	25.4 mm GP1	
69H-LMH401	GX340	RPM @ 3600	8.4	6.3	127.00 mm	25.4 mm GP1	
69H-LMH401	GX390	RPM @ 3600	9.4	7	127.00 mm	25.4 mm GP1	
69H-LMH401	GX630	RPM @ 3600	16.1	12	127.00 mm	25.4 mm GP1	
69H-LMH403	GX240	RPM @ 3600	6.1	4.6	127.00 mm	36.5 mm GP2	
69H-LMH403	GX270	RPM @ 3600	6.8	5.1	127.00 mm	36.5 mm GP2	
69H-LMH403	GX340	RPM @ 3600	8.4	6.3	127.00 mm	36.5 mm GP2	
69H-LMH403	GX390	RPM @ 3600	9.4	7	127.00 mm	36.5 mm GP2	
69H-LMH403	GX630	RPM @ 3600	16.1	12	127.00 mm	36.5 mm GP2	
69H-LB152-825A	GX240	RPM @ 3600	6.1	4.6	127.00 mm	3-1/4"X 2 BOLT	
69H-LB152-825A	GX270	RPM @ 3600	6.8	5.1	127.00 mm	3-1/4"X 2 BOLT	
69H-LB152-825A	GX340	RPM @ 3600	8.4	6.3	127.00 mm	3-1/4"X 2 BOLT	
69H-LB152-825A	GX390	RPM @ 3600	9.4	7	127.00 mm	3-1/4"X 2 BOLT	
69H-LB152-825A	GX630	RPM @ 3600	16.1	12	127.00 mm	3-1/4"X 2 BOLT	
69H-LB152-825A	GX390	RPM @ 3600	9.4	7	127.00 mm	3-1/4"X 2 BOLT	
69H-LB152-825A	GX630	RPM @ 3600	16.1	12	127.00 mm	3-1/4"X 2 BOLT	
	<u>CENTER RINGS</u>						
69H-RC1-254	67.5X25.4X4.2 GPOUP 1 PUMP CENTER RINGS						
69H-RC1-365	67.5X36.5X5.2 GPOUP 2 PUMP CENTER RINGS						
							
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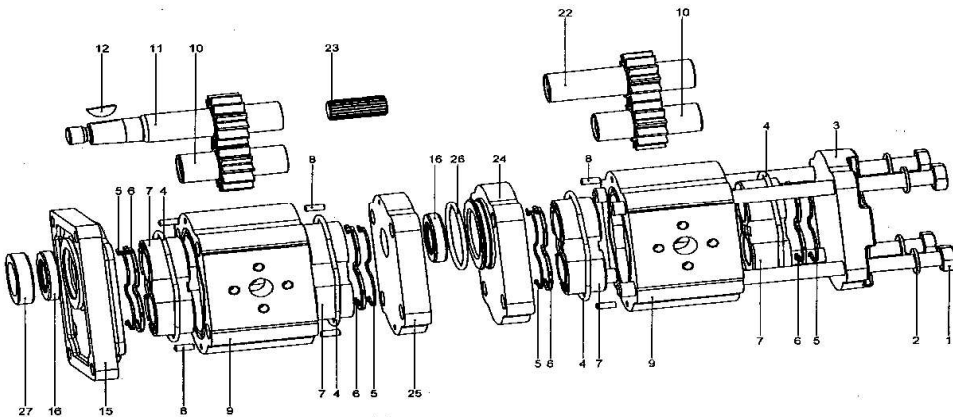
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Part Number	PUMPS GEAR ALUMINIUM			RETAIL:
				06-08-2024
	PUMP GROUP 2 SINGLE STAGE 270 Bar Continuous			
	BHP 2 SERIES FROM TAK - BOK			
	BOSCH SINGLE : SPIGOT 80 mm MOUNT 4 BOLT TAPER 1:5			
	<u>DESCRIPTION:</u>	<u>cc/rev:</u>	<u>CW / CCW</u>	
70H-P2B2D04T1F0	BHP2 B2 D 4 T1 F0	04cc per rev	0510 225 006 / 306	
70H-P2B2D06T1F0	BHP2 B2 D 6 T1 F0	06cc per rev	0510 235 006 / 306	
70H-P2B2D08T1F1	BHP2 B2 D 8 T1 F1	08cc per rev	0510 425 009 / 307	
70H-P2B2D12T1F1	BHP2 B2 D 12 T1 F1	12cc per rev	0510 525 009 / 311	
70H-P2B2D14T1F1	BHP2 B2 D 14 T1 F1	14cc per rev	0510 525 018 / 319	
70H-P2B2D16T1F1	BHP2 B2 D 16 T1 F1	16cc per rev	0510 625 022 / 315	
70H-P2B2D18T1F1	BHP2 B2 D 18 T1 F1	18cc per rev	0510 625 013 / 314	
70H-P2B2D22T1F1	BHP2 B2 D 22 T1 F1	22cc per rev	0510 725 030 / 330	
	DEUTZ SINGLE : SPIGOT 50 mm MOUNT 2 BOLT TAPER 1:5			
	<u>DESCRIPTION:</u>	<u>cc/rev:</u>	<u>CCW / CW</u>	
70H-P2Q1S04T1F0	BHP2 Q1 S 4 T1 F0	04cc per rev	0510 215 309 / 009	
70H-P2Q1S06T1F0	BHP2 Q1 S 6 T1 F0	06cc per rev	0510 315 307 / 006	
70H-P2Q1S08T1F1	BHP2 Q1 S 8 T1 F1	08cc per rev	0510 415 316 / 010	
70H-P2Q1S12T1F1	BHP2 Q1 S 12 T1 F1	12cc per rev	0510 515 309 / 007	
70H-P2Q1S14T1F1	BHP2 Q1 S 14 T1 F1	14cc per rev	0510 515 316 / 018	
70H-P2Q1S16T1F1	BHP2 Q1 S 16 T1 F1	16cc per rev	0510 615 317 / 010	
70H-P2Q1S18T1F1	BHP2 Q1 S 18 T1 F1	18cc per rev	0510 615 318 / 005	
70H-P2Q1S22T1F1	BHP2 Q1 S 22 T1 F1	22cc per rev	0510 715 306	
	DEUTZ DOUBLE : SPIGOT 50 mm MOUNT 2 BOLT TAPER 1:5			
	<u>DESCRIPTION:</u>	<u>cc/rev:</u>	<u>CCW / CW</u>	
70H-P2Q1S-16-12	BHP2 Q1 S 16-12 T1 F1	16cc / 12cc per rev	0510 665 335 /	
70H-P2Q1S-22-14	BHP2 Q1 S 22-14 T1 F1	22cc / 14cc per rev	0510 765 309 /	
70H-P2Q1S-22-16	BHP2 Q1 S 22-16 T1 F1	22cc / 16cc per rev	0510 765 310 /	
	BOSCH OUTBOARD BEARING : PUMP SINGLE ROTATION			
	<u>DESCRIPTION:</u>	<u>cc/rev:</u>	<u>CCW / CW</u>	
70H-P2B3S8T1F1	BHP2 Q3 S 8 T1 F1	08cc per rev	0510 445 300 / 001	
70H-P2B3S12T1F1	BHP2 Q3 S 12 T1 F1	12cc per rev	0510 545 300 / 001	
	OPTIONAL SPARES:			
70H-BHP2-S	PUMP SEAL KIT			
70H-BHM2-S	MOTOR SEAL KIT			
70H-BHP2-OUTB-S	PUMP SEAL KIT OUTBOARD BEARING TYPE			
	TECHNICAL SPECS FOR GROUP 2 :			
	STANDARD SHAFT : 1 : 5 TAPER SMALL OD 14 mm TO BIG OD 17 mm OVER 17 mm LENGTH			
	OUTBOARD SHAFT : 1 : 5 TAPER SMALL OD 16.3 mm TO BIG OD 20 mm OVER 20 mm LENGTH			
	BOSCH SPIGOT 80 mm FLANGE 100 X 72 4 BOLT MOUNT			
	DEUTZ SPIGOT 50 mm FLANGE 60 X 60 2 BOLT MOUNT			



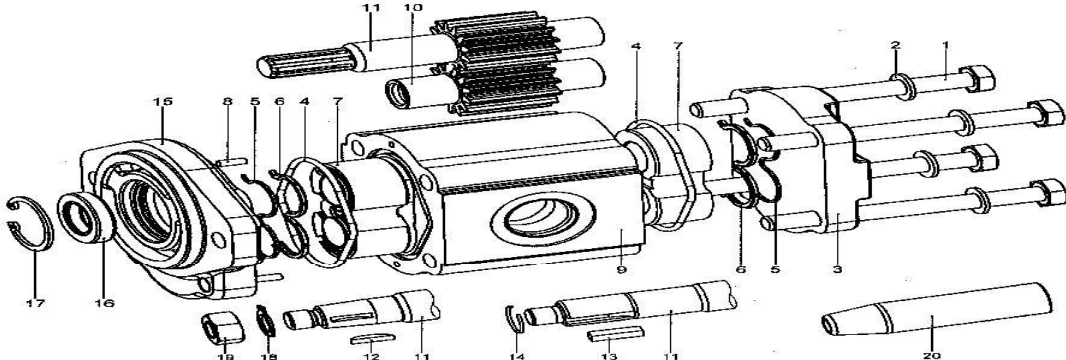
Part Number	PUMPS GEAR ALUMINIUM				RETAIL:
					06-08-2024
	PUMP GROUP 2 SINGLE STAGE 270 Bar Continuous				
	BHP 2 * / * SERIES FROM TAK - BOK				
	MAKE UP ANY OF THE BELOW COMBINATIONS BY CHOOSING THE ADDED PUMP DISPLACEMENTS				
	DRIVE SHAFT LOAD CAPACITY MUST NOT BE EXCEEDED, PHONE THE EXPERTS AND WE WILL ADVISE.				
	B.S.P. PORTS				
	DESCRIPTION:	cc / rev:	B.S.P. PORTS:	ROTATION:	W/P:
70H-P2B0X-04-XX	BHP2 B0 X4-XX	04 - ** cc per rev	3/4" BSPP x 1/2" BSPP	C/W	270 Bar
70H-P2B0X-06-XX	BHP2 B0 X6-XX	06 - ** cc per rev	3/4" BSPP x 1/2" BSPP	C/W	270 Bar
70H-P2B0X-08-XX	BHP2 B0 X8-XX	08 - ** cc per rev	3/4" BSPP x 1/2" BSPP	C/W	270 Bar
70H-P2B0X-10-XX	BHP2 B0 X10-XX	10 - ** cc per rev	3/4" BSPP x 1/2" BSPP	C/W	270 Bar
70H-P2B0X-12-XX	BHP2 B0 X12-XX	12 - ** cc per rev	3/4" BSPP x 1/2" BSPP	C/W	270 Bar
70H-P2B0X-14-XX	BHP2 B0 X14-XX	14 - ** cc per rev	3/4" BSPP x 1/2" BSPP	C/W	250 Bar
70H-P2B0X-16-XX	BHP2 B0 X16-XX	16 - ** cc per rev	3/4" BSPP x 1/2" BSPP	C/W	250 Bar
70H-P2B0X-18-XX	BHP2 B0 X18-XX	18 - ** cc per rev	3/4" BSPP x 1/2" BSPP	C/W	250 Bar
70H-P2B0X-20-XX	BHP2 B0 X20-XX	20 - ** cc per rev	3/4" BSPP x 1/2" BSPP	C/W	220 Bar
70H-P2B0X-22-XX	BHP2 B0 X22-XX	22 - ** cc per rev	3/4" BSPP x 1/2" BSPP	C/W	220 Bar
70H-P2B0X-25-XX	BHP2 B0 X25-XX	25 - ** cc per rev	1" BSPP x 3/4" BSPP	C/W	200 Bar
70H-P2B0X-28-XX	BHP2 B0 X28-XX	28 - ** cc per rev	1" BSPP x 3/4" BSPP	C/W	180 Bar
70H-P2B0X-30-XX	BHP2 B0 X30-XX	30 - ** cc per rev	1" BSPP x 3/4" BSPP	C/W	160 Bar
70H-BHP2-S-D	PUMP DOUBLE SEAL KIT				
	PUMP DISPLACEMENTS	CONT PRESSURE P1	INT PRESSURE P2	SPEED RANGE	
	04 cc per rev	270 bar	285 bar	800 to 4000	
	06 cc per rev	270bar	285 bar	600 to 4000	
	08 cc per rev	270 bar	285 bar	500 to 3500	
	10 cc per rev	270bar	285 bar	500 to 3000	
	12 cc per rev	270 bar	285 bar	500 to 3500	
	14 cc per rev	250 bar	265 bar	500 to 4000	
	16 cc per rev	250 bar	265 bar	500 to 4000	
	18 cc per rev	250 bar	265 bar	400 to 3600	
	20 cc per rev	220 bar	265 bar	400 to 3200	
	22 cc per rev	220 bar	265 bar	400 to 3000	
	25 cc per rev	200 bar	215 bar	400 to 3000	
	28 cc per rev	180 bar	190 bar	400 to 2500	
	30 cc per rev	160 bar	170 bar	400 to 2500	
	TECHNICAL SPECS FOR GROUP 2 BHP 2 * / * SERIES :				
	SHAFT 1 : 8 TAPER SMALL O/D 15 mm TO BIG O/D 17 mm OVER 18 mm LENGTH				
	SPIGOT 36,5 mm				
	FLANGE 96,2 X 71,5 4 BOLT				
	ROTATION CHANGE SWOP INTERNALS				
	CONTINUOUS MAX PRESSURE P1				
	INTERMITTENT MAX PRESSURE P2 20Sec				
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY				
	PAGE K 5				

<u>Part Number</u>	MOTOR GEAR ALUMINIUM					RETAIL:
						06-08-2024
	<u>GROUP 2 BI ROTATION MOTORS FROM TAK - BOK</u>					
	<u>BHM 2 B0 SERIES:</u> 200 Bar Continuous					
	SHAFT 1 ; 8 TAPER SPIGOT 36.4mm MOUNT 4 BOLT 1/4" BSPP CASE DRAIN ON P.E.C.					
	<u>DESCRIPTION:</u>	<u>cc / rev:</u>	<u>B.S.P. PORTS:</u>	<u>ROTATION:</u>	<u>W/P:</u>	
70H-M2B0R06T0L0	BHM 2 B0 R 6 T0 L0-Q1	06cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2B0R08T0L0	BHM 2 B0 R 8 T0 L0-Q1	08cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2B0R10T0L0	BHM 2 B0 R 10 T0 L0-Q1	10cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2B0R12T0L0	BHM 2 B0 R 12 T0 L0-Q1	12cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2B0R14T0L0	BHM 2 B0 R 14 T0 L0-Q1	14cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2B0R16T0L0	BHM 2 B0 R 16 T0 L0-Q1	16cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2B0R18T0L0	BHM 2 B0 R 18 T0 L0-Q1	18cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2B0R20T0L0	BHM 2 B0 R 20 T0 L0-Q1	20cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2B0R22T0L0	BHM 2 B0 R 22 T0 L0-Q1	23cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
	<u>BHM 2 B2 SERIES:</u>					
	SHAFT 1 ; 5 TAPER SPIGOT 80mm MOUNT 4 BOLT 1/4" BSPP CASE DRAIN ON P.E.C.					
	<u>DESCRIPTION:</u>	<u>cc / rev:</u>	<u>B.S.P. PORTS:</u>	<u>ROTATION:</u>	<u>W/P:</u>	
70H-M2B2R06T1L0	BHM 2 B2 R 6 T1 L0-Q1	06cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2B2R08T1L0	BHM 2 B2 R 8 T1 L0-Q1	08cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2B2R10T1L0	BHM 2 B2 R 10 T1 L0-Q1	10cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2B2R12T1L0	BHM 2 B2 R 12 T1 L0-Q1	12cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2B2R14T1L0	BHM 2 B2 R 14 T1 L0-Q1	14cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
	<u>BHM 2 A0 SERIES:</u>					
	SHAFT 16mm SPIGOT 3-1/4" MOUNT 2 BOLT 1/4" BSPP CASE DRAIN ON P.E.C.					
	<u>DESCRIPTION:</u>	<u>cc / rev:</u>	<u>B.S.P. PORTS:</u>	<u>ROTATION:</u>	<u>W/P:</u>	
70H-M2A0R06C0L0	BHM 2 A0 R 6 C0 L0	06cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2A0R08C0L0	BHM 2 A0 R 8 C0 L0	08cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2A0R10C0L0	BHM 2 A0 R 10 C0 L0	10cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2A0R12C0L0	BHM 2 A0 R 12 C0 L0	12cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2A0R14C0L0	BHM 2 A0 R 14 C0 L0	14cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2A0R18C0L0	BHM 2 A0 R 18 C0 L0	18cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
70H-M2A0R22C0L0	BHM 2 A0 R 22 C0 L0	23cc per rev	1/2" BSPP x 1/2" BSPP	B / I	200 Bar	
	<u>EXTRA CHOICES</u>					
70H-BHM2-S	MOTOR SEAL KIT					
70H-2MFPECB	BI ROTATION PORT END COVER NO CASE DRAIN INTERNAL CHECK VALVES					
70H-2MFPECRP	REAR PORTS; 3/4" BSPP MAX					
70H-2MFPECRF	RELIEF VALVE PORT END COVER 50 - 250 Bar					
	<u>PUMP DISPLACEMENTS</u>	<u>CONT PRESSURE</u>	<u>INT PRESSURE</u>	<u>SPEED RANGE</u>		
	06 cc per rev	270 bar	285 bar	600 to 4000		
	08 cc per rev	270 bar	285 bar	500 to 3500		
	10 cc per rev	270 bar	285 bar	500 to 3000		
	12 cc per rev	270 bar	250 bar	500 to 3500		
	14 cc per rev	250 bar	265 bar	400 to 4000		
	18 cc per rev	250 bar	265 bar	400 to 3600		
	22 cc per rev	220 bar	265 bar	400 to 3000		
						
	3-1/4" SPIGOT 80mm SPIGOT 36,5mm SPIGOT					
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY					PAGE K 6

Part Number	PUMPS GEAR ALUMINIUM			RETAIL:
				01-10-2022
	<u>GROUP 2 GEAR PUMPS / MOTORS / FLOW DIVIDERS</u>			
	MADE TO ORDER OUT OF VIRGIN PARTS 270 Bar Continuous			
	<u>SINGLE PUMP DISPLACEMENTS AVAILABLE:</u>			
70H-334X-04-08	04cc ; 06cc ; 08cc ;			
70H-334X-10-14	10cc ; 11cc ; 14cc			
70H-334X-16-23	16cc ; 19cc ; 23cc			
70H-334X-27-33	27cc ; 31cc ; 33cc			
	<u>TANDEM PUMP DISPLACEMENTS AVAILABLE:</u> (ADD PRICE TO SINGLE PUMP'S PRICE)			
70H-334XD-04-08	04cc ; 06cc ; 08cc ;			
70H-334XD-10-14	10cc ; 11cc ; 14cc			
70H-334XD-16-23	16cc ; 19cc ; 23cc			
70H-334XD-27-33	27cc ; 31cc ; 33cc			
	<u>(CODE) CHOICE OF PUMP SPIGOTS:</u>			
70H-3345041212	(33) GROUP 2	36,4mm SPIGOT	4-BOLT MOUNTING	
70H-3345041213	(34) BOSCH	80mm SPIGOT	4-BOLT MOUNTING	
70H-3345051212	(39) DEUTZ	50mm SPIGOT	2-BOLT THRU-MOUNTING (10 & 4)	
70H-3345021225	(93) SAE A	3"-1/4" SPIGOT	2-BOLT MOUNTING	
70H-3345021214	(96) SAE B	4" SPIGOT	2-BOLT MOUNTING	
70H-33450512SP	(37) NEUSE	50mm SPIGOT	2-BOLT THRU-MOUNTING (8 & 2)	
70H-3345050212	(38) (36) I H	52mm SPIGOT	2-BOLT THRU-MOUNTING (10 & 4) (8&2)	
70H-3345021229	(XX) MASSEY	52,3mm SPIGOT	2-BOLT THRU-MOUNTING	
70H-3345021225	(xx) CAT	X" SPIGOT	X-BOLT MOUNTING	
70H-3345029216	(xx) PERKINS	X" SPIGOT	X-BOLT MOUNTING	
	<u>(CODE) CHOICE OF PUMP SHAFTS:</u>			
70H-33419XX611	(86) 1 : 8	TAPER SHAFT	SMALL O/D 15mm TO BIG O/D 17mm OVER 18mm	
70H-33419XX610	(85) 1 : 5	TAPER SHAFT	SMALL O/D 14mm TO BIG O/D 17mm OVER 17mm	
70H-33412XX210	(96) 9	TOOTH SPLINE SAE A	O/D 15,5mm	
70H-33412XX710	(81) 9	TOOTH SPLINE DIN 5482	O/D 16,5mm	
70H-33417XX210	(97) 5/8"	P / KEY SHAFT	O/D 15,8mm	
70H-33417XX310	(24) 3/4"	P / KEY SHAFT	O/D 19mm	
70H-33417XX205	(XX) 16mm	P / KEY SHAFT	O/D 16mm	
70H-33417XX214	(P) 11/16"	KEY SHAFT WITH THREAD	O/D 17,4mm	
70H-33412XX910	(94) 10	TOOTH SPLINE SHAFT	O/D 17mm	
70H-33412XX310	(92) 11	TOOTH SPLINE SHAFT	O/D 18.5mm	
70H-3321000011	(XX) CAT	14 TOOTH OUTBOARD	O/D 31mm	
70H-33413XX510	(XX) TANG DRIVE	P / SHAFT	O/D 18mm W/D 8mm	
70H-33412XX711	(XX) SPLINE TOOTH SPLINE KALMAR		O/D 7/8"	
				
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY				PAGE K 7

Part Number	PUMPS GEAR ALUMINIUM	RETAIL:
	GROUP 2 PUMPS MOTORS & FLOW DIVIDERS MADE TO ORDER	06-08-2024
	ADD ON TO BASE PRICE OF PUMP OR MOTOR	
70H-3323000110	MOTOR CONVERSION BI-ROTATIONAL WITH 1/4" BSPP CASE DRAIN	
70H-3323020910	MOTOR CONVERSION BI-ROTATIONAL WITH CHECK VALVES NO CASE DRAIN	
70H-IMRC67B1	MOTOR CONVERSION BI-ROTATIONAL WITH 1/4" BSPP CASE DRAIN AND SINGLE RELIEF	
	CHOICE OF PORT END COVERS:	
70H-3509611071	PRIORITY FLOW DIVIDER WITH RELIEF VALVE 1 : 30 LITRES REG FLOW REAR PORTS	
70H-3509612030	PRIORITY FLOW DIVIDER WITH RELIEF VALVE 1 : 30 LITRES REG FLOW SIDE PORTS	
70H-3329414017	RELIEF VALVE INTERNAL DUMP 250 BAR MAX	
70H-3323030110	REAR PORTS AVAILABLE 1" & 1/2" BSPP / SAE "O" OR 3/4" MAX BOTH PORTS	
	CHOICE OF SHAFT END COVERS:	
63H-BU12020007	V BELT PULLEY SUPPORT GROUP 2 PUMP 1 : 8 TAPER TO A 22 mm PARALLEL KEY SHAFT	
70H-TK-STSU-ZFD	OUTBOARD BEARING 80mm SPIGOT FOR PULLEY DRIVE 1 : 5 TAPER	
	CHOICE OF FLOW DIVIDERS:	
	FLOW DIVIDERS (ADD UP STAGES OF SINGLE MOTOR DISPLACEMENT PRICES)	
	SPECIAL REQUESTS	
70H-LAB001	SEALED MULTIPLE UNITS PER SECTION	
70H-LAB002	UNSEALED MULTIPLE UNITS P511 TO P3 SEALED FOR ; 0.8 - 1.2 - 1.6 - 2.5 - 3.6 - 4.8	
70H-LAB003	TWIN SHAFT SINGLE PUMP FOR FAN ON REAR	
	LABOUR ADD ON CHARGES	
70H-LAB004	LABOUR TO MODIFY OLD PRIORITY FLOW DIVIDER TO FIT P11	
70H-LAB005	LABOUR TO MODIFY S. E. C.	
70H-LAB006	LABOUR TO DRILL AND TAP SHAFT	
70H-LAB007	LABOUR TO DRILL PRIORITY FLOW DIVIDER ORIFICE	
70H-LAB008	LABOUR TO TEST PUMP / MOTOR	
70H-BHP2-S	PUMP SEAL KIT	
70H-BHP2-S-D	PUMP DOUBLE SEAL KIT	
70H-BHM2-S	MOTOR SEAL KIT	
70H-BHP2-OUTB-S	PUMP SEAL KIT OUTBOARD BEARING TYPE	
	POPULAR SPIGOTS	
	  	
	SPIGOT 36,4mm SPIGOT 80mm SPIGOT 69,8mm	
	  	
	SPIGOT 52,3mm SPIGOT 3" & 4" SPIGOT 50mm	
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY	PAGE K 8

[illegible]

Part Number	PUMPS GEAR ALUMINIUM		RETAIL:
			01-10-2022
	<u>GROUP 3 PUMPS MOTORS & FLOW DIVIDERS MADE TO ORDER</u>		
	MADE TO ORDER OUT OF VIRGIN PARTS		
	<u>SINGLE PUMP DISPLACEMENTS AVAILABLE:</u>		
71H-333X-14-19	14cc ; 16cc ; 19cc ;		
71H-333X-23-28	23cc ; 25cc ; 28cc ;		
71H-333X-33-44	33cc ; 38cc ; 44cc ;		
71H-333X-50-65	50cc ; 52cc ; 65cc		
	<u>TANDEM PUMP DISPLACEMENTS AVAILABLE: (ADD PRICE TO SINGLE PUMP'S PRICE)</u>		
71H-333D-14-19	14cc ; 16cc ; 19cc ;		
71H-333D-23-28	23cc ; 25cc ; 28cc ;		
71H-333D-33-44	33cc ; 38cc ; 44cc ;		
71H-333D-50-65	50cc ; 52cc ; 65cc		
	<u>PUMP SPIGOT OPTIONS:</u>		
71H-3335040215	(87) GROUP 3	50mm SPIGOT 4-BOLT MOUNTING	
71H-3335020212	(93) SAE A	3 1/4" SPIGOT 2-BOLT MOUNTING	
71H-3335020213	(96) SAE B	4" SPIGOT 2 BOLT MOUNTING	
71H-3335040216	(86) EURO	105mm SPIGOT 4 BOLT MOUNTING	
	<u>SHAFT OPTIONS:</u>		
71H-33329XX783	(59)	1 : 8 TAPER SHAFT SMALL O/D 19mm TO BIG O/D 22mm OVER 22mm LENGTH	
71H-33329XX784	(57)	1 : 5 TAPER SHAFT SMALL O/D 13.5mm TO BIG O/D 17.4mm OVER 20mm LENGTH	
71H-33329XX951	(66)	7/8" PARALLEL KEY SHAFT O/D 22.2mm	
71H-33329XX990	(67)	1" PARALLEL KEY SHAFT O/D 25.4mm	
71H-33329XX450	(65)	13 TOOTH SPLINE SHAFT SAE B O/D 22.2mm	
71H-33329XX490	(100)	15 TOOTH SPLINE SHAFT SAE B B O/D 24.97mm	
	<u>POSSIBLE OPTIONS TO BE ADDED TO PUMPS & MOTORS:</u>		
71H-3333030110	MOTOR CONVERSION BI-ROTATIONAL WITH 1/4" BSPP CASE DRAIN		
71H-333BICV	MOTOR CONVERSION BI-ROTATIONAL WITH CHECK VALVES NO CASE DRAIN		
71H-3509713028	PRIORITY FLOW DIVIDER WITH RELIEF VALVE 5 : 38 LITRES REG FLOW		
71H-3333030110	REAR PORTS AVAILABLE MOTOR TYPE 1" MAX BSPP OR S.A.E.		
71H-3333031110	REAR PORTS AVAILABLE SPECIAL TYPE 1 1/2" MAX BSPP OR S.A.E.		
71H-3333030108	RELIEF VALVE INTERNAL DUMP 250 BAR MAX		
	<u>CHOICE OF FLOW DIVIDERS:</u>		
71H-M17FD	FLOW DIVIDERS (ADD UP STAGES OF SINGLE MOTOR DISPLACEMENT PRICES)		
71H-P17-P11	STEP DOWN ADAPTOR P17 - P11		
71H-P17-P11S	STEP DOWN ADAPTOR P17 - P11 SEPARATE OILS LABOUR		
71H-LAB009	LABOUR TO DRILL AND TAP SHAFT		
71H-LAB010	DRILL PRIORITY FLOW DIVIDER ORIFICE		
71H-LAB011	TEST PUMP / MOTOR		
71H-3P17-S	SEAL KIT PUMP		
71H-3M17-S	SEAL KIT MOTOR		
			
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE L 2

Part Number	TAK - BOK GEAR FLOW DIVIDER								RETAIL:
									01-10-2022
<u>1FDF SERIES FLOW DIVIDER UP TO 4 STAGES</u>									
	DISPL	L P M	L P M	INLET	OUTLET	DRAIN	CONT DIFF	MAXIMUM	
	CC / REV	MIN / FLOW	MAX / FLOW	PORT	PORT	PORT	PRESSURE	OUTLET PRESS	
	GEAR SET	GEAR SET	GEAR SET	BSPP	BSPP	BSPP	INLET/OUTLET	ANY SECTION	
72H-1FDF1-6	1.6 cc	3	6.4	1/2"	1/2"	NONE	124 Bar	240 Bar	
72H-1FDF4-2	4.2 cc	9.5	18.9	1/2"	1/2"	NONE	124 Bar	240 Bar	
<u>TECHNICAL SPECS</u>									
COMBINER TYPE; REVERSIBLE FLOW WITH BUILT IN RELIEFS TO SYNCHRONISE									
EACH PUMP HOUSING HAS SEPARATE BUILT IN RELIEF VALVES NO TANK LINE REQUIRED									
<u>2FDF SERIES FLOW DIVIDER UP TO 8 STAGES</u>									
	DISPLACE	L P M	L P M	INLET	OUTLET	DRAIN	CONT DIFF	MAXIMUM	
	CC / REV	MIN / FLOW	MAX / FLOW	PORT	PORT	PORT	PRESSURE	OUTLET PRESS	
	GEAR SET	GEAR SET	GEAR SET	BSPP	BSPP	BSPP	INLET/OUTLET	ANY SECTION	
72H-2FDF06	6cc	3	18	3/4"	1/2"	3/8"	220	250	
72H-2FDF08	8cc	4	22	3/4"	1/2"	3/8"	220	250	
72H-2FDF11	11cc	5.5	27	3/4"	1/2"	3/8"	220	250	
72H-2FDF14	14cc	7	34	3/4"	1/2"	3/8"	200	220	
72H-2FDF17	17cc	8.5	37	3/4"	1/2"	3/8"	220	250	
72H-2FDF25	25cc	12	53	3/4"	1/2"	3/8"	200	220	
<u>TECHNICAL SPECS</u>									
COMBINER TYPE; REVERSIBLE FLOW WITH BUILT IN RELIEFS TO SYNCHRONISE									
EACH PUMP HOUSING HAS SEPARATE BUILT IN RELIEF VALVE AND HAS TO BE PIPED TO A									
TANK LINE IF YOU NEED IT TO SYNCHRONISE									
<u>2FDF SERIES FLOW DIVIDER</u>									
									
<u>1FDF SERIES FLOW DIVIDER</u>									
									
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY									PAGE M 1

Part Number	TAK - BOK HI / LOW GEAR PUMPS								RETAIL:
									01-10-2022
<u>CBT SERIES: HI / LOW PUMPS FOR PETROL ENGINE FITMENT</u>									
<u>TECHNICAL SPECS ON CBT SERIES 210 Bar</u>									
	SHAFT	SPIGOT	MOUNT		SUCTION	PRESSURE	ROTATION		
	1/2" P/Key	45.25mm	4 BOLT 50.08 X 50.08		25.4mm PIPE	1/2" NPT	C/W		
	5/8" P/KEY	3-1/4"	2 BOLT		1" NPT	3/4" NPT	C/W		
NOTE; TO WORK OUT Kw REQUIRED, YOU ONLY NEED TO TAKE THE HIGHEST VALUE IN Kw AND THEN USE COLUMN G OR COLUMN J , NOT BOTH									
<u>PUMP CBT 6.3 - 2.1</u>									
	A	B	C	D	E	F	G	H	J
	PUMP	CC/REV	CC/REV	Bar	Bar	FLOW	MAX K.w.	FLOW	MAX K.w.
	R P M	HI	LOW	HI	LOW	COMBINED	REQUIRED	LOW	REQUIRED
72H-C-6-3-2-1	1450	6.3	2.1	210	30 - 60	12 LITER	0.7 - 1.4	3 LITER	1.2
72H-C-6-3-2-1	2500	6.3	2.1	210	30 - 60	21 LITER	1.2 - 2.5	5.3 LITER	2.2
72H-C-6-3-2-1	3600	6.3	2.1	210	30 - 60	30 LITER	1.8 - 3.5	7.6 LITER	3.3
SUGGESTED PETROL ENGINE GX200									
<u>PUMP CBT 10.9 - 3.6</u>									
	A	B	C	D	E	F	G	H	J
	PUMP	CC/REV	CC/REV	Bar	Bar	FLOW	MAX K.w.	FLOW	MAX K.w.
	R P M	HI	LOW	HI	LOW	COMBINED	REQUIRED	LOW	REQUIRED
72H-C-10-9-3-6	1450	10.9	3.6	210	30 - 60	21 LITER	1.2 - 2.5	5.2 LITER	2.1
72H-C-10-9-3-6	2500	10.9	3.6	210	30 - 60	36 LITER	2.2 - 4.3	9 LITER	3.8
72H-C-10-9-3-6	3600	10.9	3.6	210	30 - 60	52 LITER	3.1 - 6.1	12.9 LITER	5.3
SUGGESTED PETROL ENGINE GX270									
<u>PUMP CBT 22.9 - 7.6</u>									
	A	B	C	D	E	F	G	H	J
	PUMP	CC/REV	CC/REV	Bar	Bar	FLOW	MAX K.w.	FLOW	MAX K.w.
	R P M	HI	LOW	HI	LOW	COMBINED	REQUIRED	LOW	REQUIRED
72H-C-22-9-7-6	1450	22.9	7.6	210	30 - 60	44.2 LITER	2.6 - 5.2	11.0 LITER	4.5
72H-C-22-9-7-6	2500	22.9	7.6	210	30 - 60	76.2 LITER	4.5 - 9	19.0 LITER	8.0
72H-C-22-9-7-6	3600	22.9	7.6	210	30 - 60	109.8 LITER	6.4 - 12.9	27.4 LITER	11.3
SUGGESTED PETROL ENGINE GX630									
<u>CYLINDER SHAFT SPEEDS IN SECONDS</u>									
	INPUT	SHAFT OUT	SHAFT IN	SHAFT OUT	SHAFT IN	SHAFT OUT	SHAFT IN	SHAFT OUT	SHAFT IN
	FLOW	76.2mm BORE	76.2mm BORE	101.6mm BORE	101.6mm BORE	127mm BORE	127mm BORE	127mm BORE	127mm BORE
	IN	CYLINDER	38mm SHAFT	CYLINDER	50.8mm SHAFT	CYLINDER	50.8mm SHAFT	CYLINDER	50.8mm SHAFT
	LITER	500 mm	500 mm	500mm	500 mm	500 mm	500 mm	500 mm	500 mm
	3	45	34	81	61	127	106	127	106
	5.2	26	20	47	35	73	61	73	61
	11	12	9.3	22	17	35	29	35	29
	12.1	11.2	8.4	19.8	14.8	31.3	26.3	31.3	26.3
	21	6.5	4.8	12	8.7	18	15	18	15
	44.2	3	2.3	5.5	4.1	8.6	7.2	8.6	7.2
<u>LS-TW LOG SPLITTER VALVE</u>									
72H-LS-TW-20F	LS-TW	CONTROL VALVE HAND OPERATED WITH ONE WAY DETENT PRESSURE RELEASE DETENT							
	FLOW	PORTS	PORTS	DETENT ONE WAY		SPOOL	MAX		
	RATE	P&T	A&B	PRESSURE RELEASE		TYPE	PRESSURE		
	95 L	3/4" NPT	1/2" NPT	30 - 70 Bar		CYLINDER	210		
72H-LS-TW-S-KIT	LS-TW	CONTROL VALVE SEAL KIT							
									
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY									
PAGE M 2									

Part Number	TAK - BOK HI / LOW GEAR PUMPS									RETAIL:
										26-11-2024
<u>BHLP1 SERIES: HI / LOW PUMPS FOR ELECTIC MOTOR FITMENT</u>										
<u>TECHNICAL SPECS ON BHLP SERIES 210 Bar</u>										
	SHAFT	SPIGOT	MOUNT	SUCTION	PRESSURE	ROTATION				
	1:8 TAPER Key	25.4 mm	4 BOLT	3/4 "BSPP	1/2 "BSPP	C/W				
<u>PUMP BHLP1 BO D 2.1 / 5.8</u>										
	A	B	C	D	E	F	G	H	J	
	PUMP	CC/REV	CC/REV	Bar	Bar	FLOW	MAX K.w.	FLOW	MAX K.w.	
	R P M	HI	LOW	HI	LOW	COMBINED	REQUIRED	LOW	REQUIRED	
72H-BHLP2-1-5-8	1450	2.1	5.8	210	30 - 60	11.4 LITER	0.7 - 1.4	3 LITER	1.2	
<u>PUMP BHLP1 BO D 3.7 / 9.8</u>										
	A	B	C	D	E	F	G	H	J	
	PUMP	CC/REV	CC/REV	Bar	Bar	FLOW	MAX K.w.	FLOW	MAX K.w.	
	R P M	HI	LOW	HI	LOW	COMBINED	REQUIRED	LOW	REQUIRED	
72H-BHLP3-7-9-8	1450	9.8	3.7	210	30 - 60	19.5	1.2 - 2.5	5.2 LITER	2.2	
NOTE; TO WORK OUT Kw REQUIRED, YOU ONLY NEED TO TAKE THE HIGHEST VALUE IN Kw AND THEN USE COLUMN G OR COLUMN J , NOT BOTH										
72H-BHP2G-4-12	PUMP HI / LO BHP2G/2G 4/12									
72H-BHP2G-8-22	PUMP HI / LO BHP2G/2G 8/22									
<u>CYLNDER SHAFT SPEEDS IN SECONDS</u>										
	INPUT	SHAFT OUT	SHAFT IN	SHAFT OUT	SHAFT IN	SHAFT OUT	SHAFT IN			
	FLOW	76.2mm BORE	76.2mm BORE	101.6mm BORE	101.6mm BORE	127mm BORE	127mm BORE			
	IN	CYLINDER	38mm SHAFT	CYLINDER	50.8mm SHAFT	CYLINDER	50.8mm SHAFT			
	LITER	500 mm	500 mm	500m	500 mm	500 mm	500 mm			
	3	45	34	81	61	127	106			
	5.2	26	20	47	35	73	61			
	9	15	11	26	20	42	35			
	11.4	12	9.3	22	17	35	29			
	19.5	7	5	12	9	16	23			
	21	6.5	4.8	11	8.7	18	15			
	36	4	3	6	5	10	9			
	76.2			3	2	5	4			
<u>LS-TW LOG SPLITTER VALVE</u>										
72H-LS-TW-20F	LS-TW CONTROL VALVE HAND OPERATED WITH ONE WAY DETENT PRESSURE RELEASE DETENT									
	FLOW	PORTS	PORTS	DETENT ONE WAY		SPOOL	MAX			
	RATE	P&T	A&B	PRESSURE RELEASE		TYPE	PRESSURE			
	95 L	3/4" NPT	1/2" NPT	30 - 70 Bar		CYLINDER	210			
72H-LS-TW-S-KIT	LS-TW CONTROL VALVE SEAL KIT									
60H-MBK-5-1S	MBK-5-1 LOG SPLITTER VALVE									
 										
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY										
										PAGE M 3

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Part Number	FORKLIFT PUMPS				RETAIL:
					06-08-2024
	<u>TOYOTA</u>				
	<u>3 SERIES</u>				
74H-TKBFLT325R	3 SERIES	3 TON	5P ENGINE	PETROL - GAS	
	<u>3 SERIES</u>				
74H-TKBFLT325R	3 SERIES	1.8 / 3 TON	2J ENGINE	DIESEL	
	<u>3 SERIES</u>				
74H-326-T-4-D	3 SERIES	4 TON	2F ENGINE	PETROL - GAS	
74H-326-T-4-P	3 SERIES	4 TON	2H ENGINE	DIESEL	
	<u>4 SERIES</u>				
74H-TKBFLT325R	4 SERIES	3 TON	5P ENGINE	PETROL - GAS	
	<u>4 SERIES</u>				
74H-TKBFLT325R	4 SERIES	2 / 2.5 TON	2J ENGINE	DIESEL	
	<u>3 / 4 SERIES</u>				
74H-332-E-3-1-5	3 / 4 FBRE SERIES	1 / 1.3 / 1.5 / 3 TON	MOTOR	ELECTRIC	
	<u>5 SERIES</u>				
74H-TKBFLT325R	5 SERIES	3 TON	5P ENGINE	PETROL - GAS	
	<u>5 SERIES</u>				
74H-TKBFLT325R	5 SERIES	2 / 2.5 TON	2J ENGINE	DIESEL	
	<u>5 SERIES</u>				
74H-333-5-4-5	5 SERIES	4.5 / 4 TON	3F / 1FZ ENGINE	PETROL - GAS	
74H-333-5-4-5S	5 SERIES	4.5 / 4 TON	SPLINE BEARING MODIFICATION		
	<u>5 SERIES</u>				
74H-333-5-4-5	5 SERIES	4.5 / 4 TON	11Z ENGINE	DIESEL	
74H-333-5-4-5S	5 SERIES	4.5 / 4 TON	SPLINE BEARING MODIFICATION		
	<u>5 SERIES</u>				
74H-332-5-E-1-5	5 SERIES	1 / 1.3 / 1.5 / 3 TON	MOTOR	ELECTRIC	
	<u>3 / 4 / 5 SERIES</u>				
	<u>1.8 / 2 / 2.5 / 3 / 5 TON</u>				
	<u>3 / 4 / 5 SERIES</u>				
	<u>4 TON</u>				
					
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY				PAGE 01

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Part Number	FORKLIFT PUMPS			RETAIL:
	TOYOTA			06-08-2024
	8 SERIES			
74H-TKBFLT827R	8 SERIES	1.8 / 2 / 2.5 / 3 TON	4Y ENGINE	PETROL
	8 SERIES			
74H-TKBFLT827R	8 SERIES	1.8 / 2 / 2.5 / 3 TON	1DZ2 ENGINE	DIESEL
	8 SERIES			
74H-333-8-4-5	8 SERIES	4.5 / 4 TON	GM ENGINE	PETROL - GAS
74H-333-8-4-5S	8 SERIES	4.5 / 4 TON	SPLINE BEARING MODIFICATION	
	8 SERIES			
74H-333-8-4-5	8 SERIES	4.5 / 4 TON	GM ENGINE	DIESEL
74H-333-8-4-5S	8 SERIES	4.5 / 4 TON	SPLINE BEARING MODIFICATION	
	8 SERIES 1.8 / 2 / 2.5 / 3 TON			
				
	8 SERIES 1.8 / 2 / 2.5 / 3 TON			
				
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY			PAGE 03

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Part Number	FORKLIFT PUMPS		RETAIL:
			01-10-2022
	<u>HYSTER</u>		
	<u>XL SERIES 2.5 TON</u>	PETROL C/W	
74H-3349112288	P11A193PAX10XX23XX	XXXCHANGE ROTATION	
	<u>XL SERIES 2.5 TON</u>	DIESEL CC/W	
74H-3349112288	P11A293PAX10XX23XX		
	<u>XL SERIES 4 / 5 TON F5 / G5</u>	DIESEL CC/W	
74H-3249110127	P330A297XXAB17-25		
	<u>XL SERIES H16 TON 5 HIGH</u>	DIESEL C/W	
74H-3229529072	P365B178XXAB13-7/P330AXXAB10-XXPRV1V		
	<u>XL SERIES 2 - 2.5 TON E2 / E3</u>	ELECTRIC C/W	
74H-332-HY-E	P11A193BEXX19-97	XXPORTS S/F M10X1.5 / SHAFT 5/8"P/KEY	
	<u>XM SERIES 2.5 TON</u>	DIESEL CC/W	
74H-332HYXMD	P11 A293X PA / 10 XX 27 - 92	XXSEC CUT OUT / 11 TOOTH	
	<u>XM SERIES 2.5 TON</u>	PETROL / GAS C/W	
74H-332HYXMP	P11 A193X PA / 10 XX 27 - 92	XXSEC CUT OUT / 11 TOOTH	
	<u>H40H / H60H SERIES</u>	DIESEL CC/W	
74H-3339110222	P17A193PE/10AJ38-65		
	<u>H40H / H60H SERIES</u>	PETROL C/W	
74H-3339110222	P17A193PE/10AJ38-65		
	<u>H40H / H60H SERIES</u>	GM ENGINE PETROL CC/W	
74H-3339110222	P17A293PE/10AJ38-65		
	** DENOTES : 1 HOUR ASSEMBLY XXX DENOTES 2 HOUR OR 24 HOUR ASSEMBLY		
	<u>XL / XM SERIES</u>		
			
		<u>H40 / H60H SERIES</u>	
			
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE 05

Part Number	FORKLIFT PUMPS			RETAIL:
				01-10-2022
	CLARK			
74H-332-FL-CL	DPN 25 / 30 SERIES 2 - 3 TON	DIESEL	CW	
	P11 A193 PA / 10 xx 23 - 96	XXPORTS BOSCH TYPE SQUARE / 9 TOOTH		
	NISSAN			
74H-3349112288	SERIES EH02U 2.5 TON	DIESEL	C/W	
	P11 A193PAX10XX23XX	XXPEC CUT OUT / ENGINE SD25		
	MITSUBISHI			
74H-332-MIT-15	FD 15 SERIES 1.5 TON		CC/W	
	P11 A293PC09FD33XX	XXSHAFT 10 TOOTH 17.7mm OD SPECIAL		
	SUCTION PORT 3/4" S/F M8			
	MITSUBISHI			
74H-332-MIT-25	FD 25 SERIES 2.5 TON		CC/W	
	P11 A293PC09FD33XX	XXSHAFT 10 TOOTH 17.7mm OD SPECIAL		
	SUCTION PORT 1" S/F M10X1 WARNING 82mm SPIGOT PART NUMBER 7733204086051			
	KALMAR			
	SERIES EC7 25 TON	DIESEL	CW	
74H-3229111239	P365 A178ETAB17-7	MAIN		
	KALMAR			
	SERIES DCD 280 28 TON	PETROL	CCW	
74H-3249110239	P330 A197XXAB20-25	STEER		
	KALMAR			
	SERIES DCD 280 28 TON	DIESEL	CW	
74H-3229111239	P365 A178ETAB17-7	MAIN		
	KALMAR			
	SERIES DCD 280 28 TON	DIESEL	CW	
74H-3249110239	P330 A197XXAB20-25	STEER		
	Mitsubishi Forklift			
				
				
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY			PAGE 06

Part Number	PUMPS GEAR CAST IRON					RETAIL:
						01-10-2022
<u>P20 SERIES FROM COMMERCIAL SHEARING</u>						
	CODE	GEAR WIDTH	4073	CONT / PRESS	CODE	
75H-P20-05	05	1/2"	16.34	200 Bar	05	
75H-P20-07	07	3/4"	24.21	200 Bar	07	
75H-P20-10	10	1"	32.29	200 Bar	10	
75H-P20-12	12	1-1/4"	40.36	200 Bar	12	
75H-P20-15	15	1 -1/2"	48.43	200 Bar	15	
75H-P20-17	17	1 -3/4"	56.50	170 Bar	17	
75H-P20-20	20	2"	64.58	170 Bar	20	
<u>ADD ON PRICE FOR MULTIPLE STAGE PUMPS PER SECTION</u>						
	CODE	GEAR WIDTH	CC / REV	CONT / PRESS	CODE	
75H-P20-05-XX	05	1/2"	16.34	200 Bar	05	
75H-P20-07-XX	07	3/4"	24.21	200 Bar	07	
75H-P20-10-XX	10	1"	32.29	200 Bar	10	
75H-P20-12-XX	12	1-1/4"	40.36	200 Bar	12	
75H-P20-15-XX	15	1 -1/2"	48.43	200 Bar	15	
75H-P20-17-XX	17	1 -3/4"	56.50	170 Bar	17	
75H-P20-20-XX	20	2"	64.58	170 Bar	20	
<u>ADD ON PRICES</u>						
75H-P20-M	MOTOR					
75H-P20-PTL	TELL TAIL DRAIN (DOUBLE SHAFT SEAL)					
	SHAFTS	SPIGOTS	PORTS	ROTATION	SPEED	
	*3/4" P/KEY	2-5/8" 6 BOLT	BSPP	C / W	600 MIN rpm	
	7/8" P/KEY	3-1/4" 2 BOLT	NPT	CC / W	2400 MAX rpm	
	1" P/KEY	4" 2 BOLT	SAE "O"	B I		
	*1-1/4" P/KEY	4" 4 BOLT	S/F 4 BOLT			
	9 TOOTH					
	13 TOOTH					
	*14 TOOTH					
* DENOTES : CONTI SHAFT, USE ONLY AFTER CONSULTING SIDE LOAD SPECS						

Part Number	PUMPS GEAR CAST IRON					RETAIL:
						01-10-2022
<u>P30 SERIES FROM COMMERCIAL SHEARING</u>						
	CODE	GEAR WIDTH	CC / REV	CONT / PRESS	CODE	
75H-P30-05	05	1/2"	16.34	170 Bar	05	
75H-P30-07	07	3/4"	24.21	170 Bar	07	
75H-P30-10	10	1"	32.29	170 Bar	10	
75H-P30-12	12	1-1/4"	40.36	170 Bar	12	
75H-P30-15	15	1 -1/2"	48.43	170 Bar	15	
75H-P30-17	17	1 -3/4"	56.50	150 Bar	17	
75H-P30-20	20	2"	64.58	150 Bar	20	
75H-P30-25	25	2- 1/2"	80.00	150 Bar	25	
<u>ADD ON PRICE FOR MULTIPLE STAGE PUMPS PER SECTION</u>						
	CODE	GEAR WIDTH	CC / REV	CONT / PRESS	CODE	
75H-P30-05-XX	05	1/2"	16.34	170 Bar	05	
75H-P30-07-XX	07	3/4"	24.21	170 Bar	07	
75H-P30-10-XX	10	1"	32.29	170 Bar	10	
75H-P30-12-XX	12	1-1/4"	40.36	170 Bar	12	
75H-P30-15-XX	15	1 -1/2"	48.43	170 Bar	15	
75H-P30-17-XX	17	1 -3/4"	56.50	150 Bar	17	
75H-P30-20-XX	20	2"	64.58	150 Bar	20	
75H-P30-25-XX	25	2- 1/2"	80.00	150 Bar	25	
<u>ADD ON PRICES</u>						
75H-P30-M	MOTOR					
75H-P30-D	DOWELS INCLUDED IN PRICE					
75H-P30-TT	TELL TAIL DRAIN (DOUBLE SHAFT SEAL)					
75H-P30-PB	PIGGY BACK P30 - P30					
75H-P30-PR	PRIORITY FLOW DIVIDER					
	SHAFTS	SPIGOTS	PORTS	ROTATION	SPEED	
	*3/4" P/KEY	2-5/8" 6 BOLT	BSPP	C / W	600 MIN rpm	
	7/8" P/KEY	3-1/4" 2 BOLT	NPT	CC / W	2400 MAX rpm	
	1" P/KEY	4" 2 BOLT	SAE "O"	B I		
	*1-1/4" P/KEY	4" 4 BOLT	S/F 4 BOLT			
	9 TOOTH	5" 4 BOLT				
	13 TOOTH					
	*14 TOOTH					
* DENOTES : CONTI SHAFT, USE ONLY AFTER CONSULTING SIDE LOAD SPECS						
						
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY						PAGE P 2

Part Number	PUMPS GEAR CAST IRON					RETAIL:
						01-10-2022
	<u>P25X SERIES FROM COMMERCIAL SHEARING</u>					
	CODE	GEAR WIDTH	CC / REV	CONT / PRESS	CODE	
75H-P25X-05	05	1/2"	20.89	140 Bar	05	
75H-P25X-07	07	3/4"	31.34	140 Bar	07	
75H-P25X-10	10	1"	41.79	140 Bar	10	
75H-P25X-12	12	1-1/4"	50.54	140 Bar	12	
75H-P25X-15	15	1 -1/2"	62.68	140 Bar	15	
75H-P25X-17	17	1 -3/4"	73.13	140 Bar	17	
75H-P25X-20	20	2"	83.58	140 Bar	20	
75H-P25X-22	22	2 -1/4"	94.00	140 Bar	22	
75H-P25X-25	25	2- 1/2"	104.47	140 Bar	25	
	<u>ADD ON PRICE FOR MULTIPLE STAGE PUMPS PER SECTION</u>					
	CODE	GEAR WIDTH	CC / REV	CONT / PRESS	CODE	
75H-P25X-05-XX	05	1/2"	20.89	140 Bar	05	
75H-P25X-07-XX	17	3/4"	31.34	140 Bar	07	
75H-P25X-10-XX	10	1"	41.79	140 Bar	10	
75H-P25X-12-XX	12	1-1/4"	50.54	140 Bar	12	
75H-P25X-15-XX	15	1 -1/2"	62.68	140 Bar	15	
75H-P25X-17-XX	17	1 -3/4"	73.13	140 Bar	17	
75H-P25X-20-XX	20	2"	83.58	140 Bar	20	
75H-P25X-22-XX	22	2- 1/4"	94.00	140 Bar	22	
75H-P25X-25-XX	25	2- 1/5"	104.47	140 Bar	25	
	<u>ADD ON PRICES</u>					
75H-P25X-M	MOTOR					
75H-P25X-LN	LONG NECK S. E. C.					
	SHAFTS	SPIGOTS	PORTS	ROTATION	SPEED	
	*7/8" P/KEY	2-5/8" 6 BOLT	BSPP	C / W	600 MIN rpm	
	*1" P/KEY	4" 2 BOLT	NPT	CC / W	2400 MAX rpm	
	*1-1/4" P/KEY	4" 4 BOLT	SAE "O"	B I		
	*13 TOOTH	5" 2 BOLT	S/F 4 BOLT			
	*14 TOOTH	5" 4 BOLT				
	* DENOTES : CONTI SHAFT, USE ONLY AFTER CONSULTING SIDE LOAD SPECS					

<u>Part Number</u>	PUMPS GEAR CAST IRON					RETAIL:
						01-10-2022
	<u>P50 SERIES FROM COMMERCIAL SHEARING</u>					
	CODE	GEAR WIDTH	CC / REV	CONT / PRESS	CODE	
75H-P50-05	05	1/2"	20.89	170 Bar	05	
75H-P50-07	07	3/4"	31.34	170 Bar	07	
75H-P50-10	10	1"	41.79	170 Bar	10	
75H-P50-12	12	1-1/4"	50.54	170 Bar	12	
75H-P50-15	15	1 -1/2"	62.68	170 Bar	15	
75H-P50-17	17	1 -3/4"	73.13	140 Bar	17	
75H-P50-20	20	2"	83.58	140 Bar	20	
75H-P50-22	22	2 -1/4"	94.00	140 Bar	22	
75H-P50-25	25	2- 1/2"	104.47	140 Bar	25	
	<u>ADD ON PRICE FOR MULTIPLE STAGE PUMPS PER SECTION</u>					
	CODE	GEAR WIDTH	CC / REV	CONT / PRESS	CODE	
75H-P50-05-XX	05	1/2"	20.89	170 Bar	05	
75H-P50-07-XX	07	3/4"	31.34	170 Bar	07	
75H-P50-10-XX	10	1"	41.79	170 Bar	10	
75H-P50-12-XX	12	1-1/4"	50.54	170 Bar	12	
75H-P50-15-XX	15	1 -1/2"	62.68	170 Bar	15	
75H-P50-17-XX	17	1 -3/4"	73.13	140 Bar	17	
75H-P50-20-XX	20	2"	83.58	140 Bar	20	
75H-P50-22-XX	22	2- 1/4"	94.00	140 Bar	22	
75H-P50-25-XX	25	2- 1/2"	104.47	140 Bar	25	
	<u>ADD ON PRICES</u>					
75H-P50-M	MOTOR					
75H-P50-D	DOWELS INCLUDED IN PRICE					
75H-P50-TL	TELL TAIL DRAIN (DOUBLE SHAFT SEAL)					
75H-P50-PB	PIGGY BACK P50 - P30					
75H-P50-PR	PRIORITY FLOW DIVIDER					
	SHAFTS	SPIGOTS	PORTS	ROTATION	SPEED	
	1" P/KEY	PAD MOUNT	BSPP	C / W	600 MIN rpm	
	1-1/4" P/KEY	4" 2 BOLT	NPT	CC / W	2400 MAX rpm	
	13 TOOTH	4" 4 BOLT	SAE "O"	B I		
	14 TOOTH	5" 2 BOLT	S/F 4 BOLT			
	*15 TOOTH	5" 4 BOLT				
						
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY					PAGE P 4

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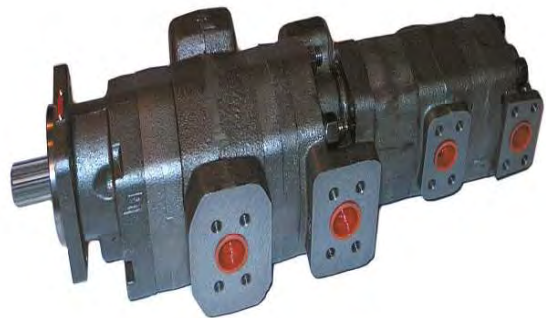
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Part Number	PUMPS GEAR CAST IRON					RETAIL:
						01-10-2022
	<u>P330 SERIES FROM COMMERCIAL SHEARING</u>					
	CODE	GEAR WIDTH	CC / REV	CONT / PRESS	CODE	
75H-P330-05	05	1/2"	16.24	245 Bar	05	
75H-P330-07	07	3/4"	24.21	245 Bar	07	
75H-P330-10	10	1"	32.29	245 Bar	10	
75H-P330-12	12	1-1/4"	40.36	245 Bar	12	
75H-P330-15	15	1 -1/2"	48.43	245 Bar	15	
75H-P330-17	17	1 -3/4"	56.5	225 Bar	17	
75H-P330-20	20	2"	64.58	210 Bar	20	
	<u>ADD ON PRICE FOR MULTIPLE STAGE PUMPS PER SECTION</u>					
	CODE	GEAR WIDTH	CC / REV	CONT / PRESS	CODE	
75H-P330-05-XX	05	1/2"	16.24	245 Bar	05	
75H-P330-07-XX	07	3/4"	24.21	245 Bar	07	
75H-P330-10-XX	10	1"	32.29	245 Bar	10	
75H-P330-12-XX	12	1-1/4"	40.36	245 Bar	12	
75H-P330-15-XX	15	1 -1/2"	48.43	245 Bar	15	
75H-P330-17-XX	17	1 -3/4"	56.5	225 Bar	17	
75H-P330-20-XX	20	2"	64.58	210 Bar	20	
	<u>ADD ON PRICES</u>					
75H-P330-M	MOTOR					
75H-P330-TL	TELL TAIL DRAIN (DOUBLE SHAFT SEAL)					
75H-P330-P315	MULTIPLE UNITS STEP SIZE P330/P315					
75H-P330-P11	MULTIPLE UNITS STEP SIZE P330/P11					
75H-P330-PF	PRIORITY FLOW DIVIDER					
75H-P330-UNLV	UNLOADING VALVE P330/315 BRG/CARR					
	SHAFTS	SPIGOTS	PORTS	ROTATION	SPEED	
	7/8" P/KEY	4" 2 BOLT	BSPP	C / W	600 MIN rpm	
	1" P/KEY	4" 4 BOLT	NPT	CC / W	2400 MAX rpm	
	*1-1/4" P/KEY	5" 2 BOLT	SAE "O"	B I		
	13 TOOTH	5" 4 BOLT	S/F 4 BOLT			
	*14 TOOTH					
	15 TOOTH					
	* DENOTES : CONTI SHAFT, USE ONLY AFTER CONSULTING SIDE LOAD SPECS					
						
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY					PAGE P 7

Part Number	PUMPS GEAR CAST IRON					RETAIL:
						01-10-2022
	<u>P350 SERIES FROM COMMERCIAL SHEARING</u>					
	CODE	GEAR WIDTH	CC / REV	CONT / PRESS	CODE	
75H-P350-05	05	1/2"	20.89	245 Bar	05	
75H-P350-07	07	3/4"	31.34	245 Bar	07	
75H-P350-10	10	1"	41.79	245 Bar	10	
75H-P350-12	12	1-1/4"	50.54	245 Bar	12	
75H-P350-15	15	1 -1/2"	62.68	245 Bar	15	
75H-P350-17	17	1 -3/4"	73.13	225 Bar	17	
75H-P350-20	20	2"	83.58	210 Bar	20	
75H-P350-22	22	2 -1/4"	94.00	190 Bar	22	
75H-P350-25	25	2- 1/2"	104.47	170 Bar	25	
	<u>ADD ON PRICE FOR MULTIPLE STAGE PUMPS PER SECTION</u>					
	CODE	GEAR WIDTH	CC / REV	CONT / PRESS	CODE	
75H-P350-05-XX	05	1/2"	20.89	245 Bar	05	
75H-P350-07-XX	07	3/4"	31.34	245 Bar	07	
75H-P350-10-XX	10	1"	41.79	245 Bar	10	
75H-P350-12-XX	12	1-1/4"	50.54	245 Bar	12	
75H-P350-15-XX	15	1 -1/2"	62.68	245 Bar	15	
75H-P350-17-XX	17	1 -3/4"	73.13	225 Bar	17	
75H-P350-20-XX	20	2"	83.58	210 Bar	20	
75H-P350-22-XX	22	2 -1/4"	94.00	190 Bar	22	
75H-P350-25-XX	25	2- 1/2"	104.47	170 Bar	25	
	<u>ADD ON PRICES</u>					
75H-P350-M	MOTOR					
75H-P350-ZF	ZF TYPE 4 BOLT P.T.O. S.E.C. & SHAFT					
75H-P350-TL	TELL TAIL DRAIN (DOUBLE SHAFT SEAL)					
75H-P350-P315	MULTIPLE UNITS STEP SIZE COMMON OIL COMMON SUCTION P350/P315					
75H-P350-P11	MULTIPLE UNITS STEP SIZE COMMON OIL COMMON SUCTION P350/P11					
75H-P350-13SP	MULTIPLE UNITS STEP SIZE SEALED OILS TO S.A.E. B 4" 2 BOLT; B SPLINE 13 TOOTH					
	SHAFTS	SPIGOTS	PORTS	ROTATION	SPEED	
	1" P/KEY	4" 2 BOLT	BSPP	C / W	600 MIN rpm	
	1-1/4" P/KEY	4" 4 BOLT	NPT	CC / W	2400 MAX rpm	
	13 TOOTH	5" 2 BOLT	SAE "O"	B I		
	14 TOOTH	5" 4 BOLT	S/F 4 BOLT			
	* DENOTES : CONTI SHAFT, USE ONLY AFTER CONSULTING SIDE LOAD SPECS					



Part Number	PUMPS GEAR CAST IRON					RETAIL:
						01-10-2022
	<u>P365 SERIES FROM COMMERCIAL SHEARING</u>					
	CODE	GEAR WIDTH	CC / REV	CONT / PRESS	CODE	
75H-P365-10	10	1"	59.00	240 Bar	10	
75H-P365-12	12	1-1/4"	73.75	240 Bar	12	
75H-P365-15	15	1 -1/2"	88.50	240 Bar	15	
75H-P365-17	17	1 -3/4"	103.25	240 Bar	17	
75H-P365-20	20	2"	118.00	240 Bar	20	
75H-P365-22	22	2 -1/4"	132.75	242 Bar	22	
75H-P365-25	25	2- 1/2"	147.50	200 Bar	25	
	<u>ADD ON PRICE FOR MULTIPLE STAGE PUMPS PER SECTION</u>					
	CODE	GEAR WIDTH	CC / REV	CONT / PRESS	CODE	
75H-P365-07-XX	07	3/4"	44.25	240 Bar	07	
75H-P365-10-XX	10	1"	59.00	240 Bar	10	
75H-P365-12-XX	12	1-1/4"	73.75	240 Bar	12	
75H-P365-15-XX	15	1 -1/2"	88.50	240 Bar	15	
75H-P365-17-XX	17	1 -3/4"	103.25	240 Bar	17	
75H-P365-20-XX	20	2"	118.00	240 Bar	20	
75H-P365-22-XX	22	2 -1/4"	132.75	242 Bar	22	
75H-P365-25-XX	25	2- 1/2"	147.50	200 Bar	25	
	<u>ADD ON PRICES</u>					
75H-P365-M	MOTOR					
75H-P365-TL	TELL TAIL DRAIN (DOUBLE SHAFT SEAL)					
75H-P365-P330	MULTIPLE UNITS STEP SIZE COMMON OIL COMMON SUCTION P365/P330					
75H-P365-SAE4	MULTIPLE UNITS STEP SIZE SEALED OILS TO S.A.E. B 4" 2 BOLT FLANGE					
75H-P365-ADSP	MULTIPLE UNITS STEP SIZE SEALED OILS ADAPTOR SPLINES S.A.E. A & B					
	SHAFTS	SPIGOTS	PORTS	ROTATION	SPEED	
	1-1/4" P/KEY	4" 2 BOLT	BSPP	C / W	600 MIN rpm	
	14 TOOTH	4" 4 BOLT	NPT	CC / W	2400 MAX rpm	
		5" 2 BOLT	SAE "O"	B I		
		5" 4 BOLT	S/F 4 BOLT			



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P.T.O SINGLE PISTON PUMP D.I.N. 8 SPLINE 60cc



Part Number	P.T.O. GEAR PUMP SINGLE								RETAIL:
									24-04-2026
	<u>TYPE : P.T.O. DIN TYPE 4 HOLE</u>								
76H-TKBLHF1-30	P.T.O. SINGLE PUMP 4 HOLE 8 SPLINE 30cc DISPLACEMENT								
76H-TKBLHF1-40	P.T.O. SINGLE PUMP 4 HOLE 8 SPLINE 40cc DISPLACEMENT								
76H-TKBLHF1-50	P.T.O. SINGLE PUMP 4 HOLE 8 SPLINE 50cc DISPLACEMENT								
76H-TKBLHF1-63	P.T.O. SINGLE PUMP 4 HOLE 8 SPLINE 63cc DISPLACEMENT								
76H-TKBLHF1-80	P.T.O. SINGLE PUMP 4 HOLE 8 SPLINE 80cc DISPLACEMENT								
	<u>TYPE : P.T.O. UNI TYPE 3 HOLE</u>								
76H-TKBLHF3-30	P.T.O. SINGLE PUMP 3 HOLE 6 SPLINE 30cc DISPLACEMENT								
76H-TKBLHF3-40	P.T.O. SINGLE PUMP 3 HOLE 6 SPLINE 40cc DISPLACEMENT								
76H-TKBLHF3-50	P.T.O. SINGLE PUMP 3 HOLE 6 SPLINE 50cc DISPLACEMENT								
76H-TKBLHF3-63	P.T.O. SINGLE PUMP 3 HOLE 6 SPLINE 63cc DISPLACEMENT								
76H-TKBLHF3-80	P.T.O. SINGLE PUMP 3 HOLE 6 SPLINE 80cc DISPLACEMENT								
	<u>TYPE : P.T.O. DIN TYPE 4 HOLE</u>								
	<u>TRUCK PUMPS : TKBLH SERIES</u>								
	<u>MOUNTINGS</u> : DIN 4 HOLE								
	<u>SHAFTS</u> : DIN 8 SPLINE								
	<u>ROTATION</u> : REVERSIBLE								
	<u>PART No</u> : SERIES, ROTATION, CC/REV, FRONT COVER, SHAFT, PORTS, POSITION								
	<u>EXAMPLE</u> : TKBLH R 50 F1 H9 L1 CO								
	TECHNICAL DATA ; P.T.O. D.I.N. TYPE GEAR SINGLE STAGE								
	FLOW	PORTS	PORTS	PRESSURE	PRESSURE	MIN SPEED	MAX SPEED	Kg	FLOW
	cc/rev	INLET x 2	OUTLET x 2	P1 Bar	P2 Bar	RPM	RPM	±	cc/rev
	30	3/4" BSP	3/4" BSP	250	280	500	2000	18	30
	40	3/4" BSP	3/4" BSP	250	280	500	2000	18	40
	50	1" BSP	1" BSP	250	280	500	2000	18	50
	63	1" BSP	1" BSP	230	250	500	2000	18	63
	80	1" BSP	1" BSP	230	250	500	2000	20	80
	<u>TYPE : P.T.O. UNI TYPE 3 HOLE</u>								
	<u>TRUCK PUMPS : TKBLH SERIES</u>								
	<u>MOUNTINGS</u> : UNI 3 HOLE								
	<u>SHAFTS</u> : ISO 6 SPLINE								
	<u>ROTATION</u> : REVERSIBLE								
	<u>PART No</u> : SERIES, ROTATION, CC/REV, FRONT COVER, SHAFT, PORTS, POSITION								
	<u>EXAMPLE</u> : TKBLH R 50 F3 H9 L1 CO								
	TECHNICAL DATA ; P.T.O. U.N.I.. TYPE GEAR SINGLE STAGE								
	FLOW	PORTS	PORTS	PRESSURE	PRESSURE	MIN SPEED	MAX SPEED	Kg	FLOW
	cc/rev	INLET x 2	OUTLET x 2	Bar	P2 Bar	RPM	RPM	±	cc/rev
	30	3/4" BSP	3/4" BSP	250	280	500	2000	16	30
	40	3/4" BSP	3/4" BSP	250	280	500	2000	16	40
	50	1" BSP	1" BSP	250	280	500	2000	16	50
	63	1" BSP	1" BSP	230	250	500	2000	16	63
	80	1" BSP	1" BSP	230	250	500	2000	20	80

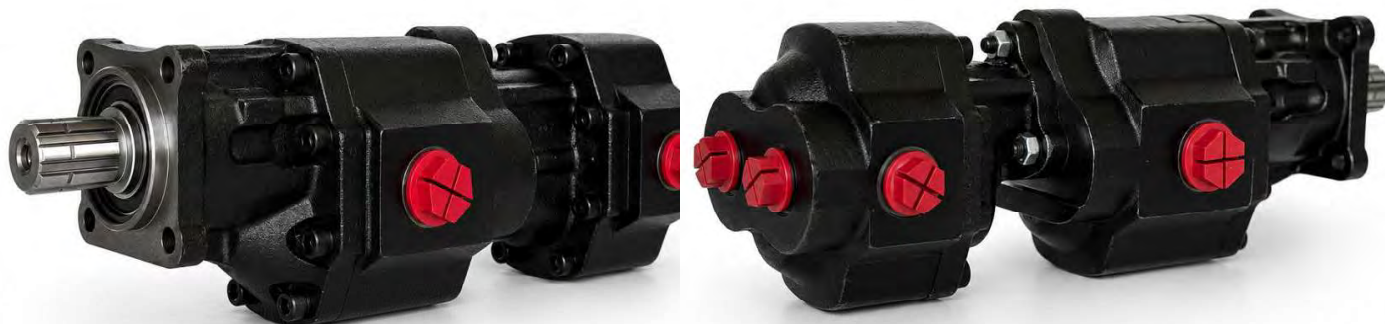
P.T.O. GEAR PUMP D.I.N. 4

P.T.O. GEAR PUMP U.N.I. 3 HOLE

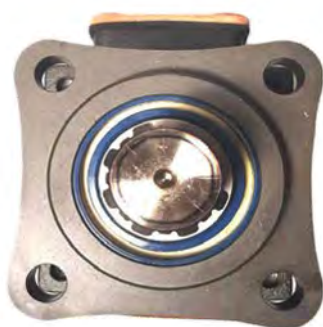


Part Number	P.T.O. GEAR PUMP DOUBLE								RETAIL:
									24-04-2026
	<u>TYPE : P.T.O. DOUBLE DIN TYPE 4 HOLE</u>								
76H-TKBLHR80-30	P.T.O. DOUBLE PUMP 4 HOLE 8 SPLINE 80cc / 30cc DISPLACEMENT								
76H-TKBLHR80-40	P.T.O. DOUBLE PUMP 4 HOLE 8 SPLINE 80cc / 40cc DISPLACEMENT								
76H-TKBLHR80-50	P.T.O. DOUBLE PUMP 4 HOLE 8 SPLINE 80cc / 50cc DISPLACEMENT								
76H-TKBLHR80-63	P.T.O. DOUBLE PUMP 4 HOLE 8 SPLINE 80cc / 63cc DISPLACEMENT								
76H-TKBLHR80-80	P.T.O. DOUBLE PUMP 4 HOLE 8 SPLINE 80cc / 80cc DISPLACEMENT								
	<u>FIRST STAGE</u>								
	<u>MOUNTINGS</u> : DIN 4 HOLE								
	<u>SHAFTS</u> : DIN 8 SPLINE								
	<u>ROTATION</u> : REVERSIBLE								
	<u>PART No</u> : SERIES, ROTATION, CC/REV, FRONT COVER, SHAFT, PORTS, POSITION								
	<u>EXAMPLE</u> : TKBLHR R 80 / XX F1 H9 L1 LOXO								
	TECHNICAL DATA ; P.T.O. D.I.N. TYPE GEAR PUMP SINGLE STAGE								
	FLOW	PORTS	PORTS	PRESSURE	PRESSURE	MIN SPEED	MAX SPEED	Kg	FLOW
	cc/rev	INLET	OUTLET	P1 Bar	P2 Bar	RPM	RPM	±	cc/rev
	80	1" BSP	1" BSP	230	250	500	2000	33	80
	<u>SECOND STAGE</u>								
	<u>MOUNTINGS</u> : UNI 3 HOLE								
	<u>SHAFTS</u> : ISO 6 SPLINE								
	<u>ROTATION</u> : REVERSIBLE								
	TECHNICAL DATA ; P.T.O. U.N.I.. TYPE GEAR PUMP SECOND STAGE								
	FLOW	PORTS	PORTS	PRESSURE	PRESSURE	MIN SPEED	MAX SPEED	Kg	FLOW
	cc/rev	INLET	OUTLET x 2	Bar				±	cc/rev
	30	3/4" BSP	3/4" BSP	250	280	500	2000	INCL.	30
	40	3/4" BSP	3/4" BSP	250	280	500	2000	INCL.	40
	50	1" BSP	1" BSP	250	280	500	2000	INCL.	50
	63	1" BSP	1" BSP	230	250	500	2000	INCL.	63
	80	1" BSP	1" BSP	230	250	500	2000	INCL.	80

P.T.O. GEAR PUMP DOUBLE



Part Number	P.T.O. VANE PUMPS CAST IRON						RETAIL:
							22-01-2026
	<u>TYPE : SINGLE ; D.I.N. MOUNT ; 4 BOLT</u>						
	<u>HOF HIGH PRESSURE VANE PUMP</u>						
	<u>MOUNTINGS</u> : 4 DIFFERENT POSITIONS DIN 4 BOLT						
	<u>SHAFTS</u> : DIN 5462 8 SPLINE						
	<u>ROTATION</u> : (R) CLOCKWISE						
	(L) ANTI CLOCKWISE						
	<u>PART No</u> : HT6GC - 022 - 6 R 01-A-M1						
	<u>PART No BREAKDOWN</u> : SERIES; HT6GC DISP; 70cc SHAFT; 8 SPLINE ROTATION ; RIGHT						
	<u>SINGLE VANE PUMP D.I.N.</u>						
	<u>TECHNICAL DATA</u>						
	CAM RING	DISPLACEMENT	PORTS	PORTS	PRESSURE	CAM RING	DISPLACEMENT
	SIZE	cc/rev	INLET	OUTLET	MAX INT	SIZE	cc/rev
76H-HT6GC10P	003	10.8	1-1/2" BSP	1" BSP	280 Bar	003	10.8
76H-HT6GC17P	005	17.2	1-1/2" BSP	1" BSP	280 Bar	005	17.2
76H-HT6GC21P	006	21.3	1-1/2" BSP	1" BSP	280 Bar	006	21.3
76H-HT6GC26P	008	26.4	1-1/2" BSP	1" BSP	280 Bar	008	26.4
76H-HT6GC31P	010	31.8	1-1/2" BSP	1" BSP	280 Bar	010	31.8
76H-HT6GC37P	012	37.1	1-1/2" BSP	1" BSP	280 Bar	012	37.1
76H-HT6GC46P	014	46.0	1-1/2" BSP	1" BSP	280 Bar	014	46.0
76H-HT6GC58P	017	58.3	1-1/2" BSP	1" BSP	281 Bar	017	58.3
76H-HT6GC63P	020	63.8	1-1/2" BSP	1" BSP	280 Bar	020	63.8
76H-HT6GC70P	022	70.3	1-1/2" BSP	1" BSP	280 Bar	022	70.3
76H-HT6GC79P	025	79.3	1-1/2" BSP	1" BSP	280 Bar	025	79.3
76H-HT6GC88P	028	88.8	1-1/2" BSP	1" BSP	210 Bar	028	88.8
76H-HT6GC100P	031	100.0	1-1/2" BSP	1" BSP	210 Bar	031	100.0
	<u>SPARE PARTS</u>						
76H-HT6GZC10CR	CARTRIDGE KIT 10.8cc ; CAM RING CODE 003						
76H-HT6GZC17CR	CARTRIDGE KIT 17.3cc ; CAM RING CODE 005						
76H-HT6GZC21CR	CARTRIDGE KIT 21.3cc ; CAM RING CODE 006						
76H-HT6GZC26CR	CARTRIDGE KIT 26.4cc ; CAM RING CODE 008						
76H-HT6GZC31CR	CARTRIDGE KIT 31.8cc ; CAM RING CODE 010						
76H-HT6GZC37CR	CARTRIDGE KIT 37.1cc ; CAM RING CODE 012						
76H-HT6GZC46CR	CARTRIDGE KIT 46.0cc ; CAM RING CODE 014						
76H-HT6GZC58CR	CARTRIDGE KIT 58.3cc ; CAM RING CODE 017						
76H-HT6GZC63CR	CARTRIDGE KIT 63.8cc ; CAM RING CODE 020						
76H-HT6GZC70CR	CARTRIDGE KIT 70.3cc ; CAM RING CODE 022						
76H-HT6GZC79CR	CARTRIDGE KIT 79.3cc ; CAM RING CODE 025						
76H-HT6GZC88CR	CARTRIDGE KIT 88.8cc ; CAM RING CODE 028						
76H-HT6GZC100CR	CARTRIDGE KIT 100cc ; CAM RING CODE 031						
76H-HT6GCSHAF	DRIVE SHAFT SINGLE						
76H-HT6GCBEAR	BEARING KIT SINGLE						
76H-HT6GCSKIT	SEAL KIT SINGLE						



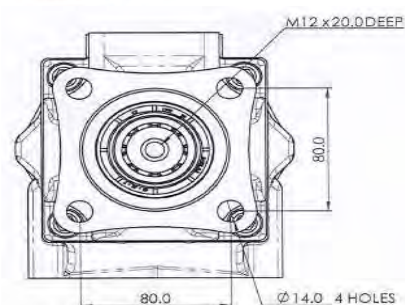
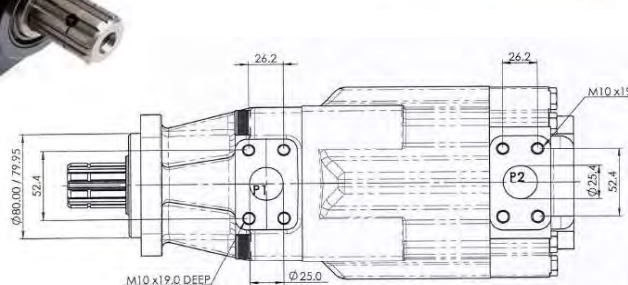
HT6GC

Part Number	P.T.O. VANE PUMPS CAST IRON						RETAIL:
							22-01-2026
	<u>TYPE : SINGLE ; U.N.I. MOUNT ; 3 BOLT</u>						
	<u>HOF HIGH PRESSURE VANE PUMP</u>						
	<u>MOUNTINGS</u> : 4 DIFFERENT POSITIONS DIN 4 BOLT						
	<u>SHAFTS</u> : DIN 5463 6 SPLINE						
	<u>ROTATION</u> : (R) CLOCKWISE						
	(L) ANTI CLOCKWISE						
	<u>PART No</u> : HT6ZC - 022 - 6 R 01-A-M1						
	<u>PART No BREAKDOWN</u> : SERIES; HT6ZC DISP; 70cc SHAFT; 6 SPLINE ROTATION ; RIGHT						
	<u>SINGLE VANE PUMP U.N.I..</u>						
	<u>TECHNICAL DATA</u>						
	CAM RING	DISPLACEMENT	PORTS	PORTS	PRESSURE	CAM RING	DISPLACEMENT
	SIZE	cc/rev	INLET	OUTLET	MAX INT	SIZE	cc/rev
76H-HT6ZC10P	003	10.8	1-1/2" BSP	1" BSP	280 Bar	003	10.8
76H-HT6ZC17P	005	17.2	1-1/2" BSP	1" BSP	280 Bar	005	17.2
76H-HT6ZC21P	006	21.3	1-1/2" BSP	1" BSP	280 Bar	006	21.3
76H-HT6ZC26P	008	26.4	1-1/2" BSP	1" BSP	280 Bar	008	26.4
76H-HT6ZC31P	010	31.8	1-1/2" BSP	1" BSP	280 Bar	010	31.8
76H-HT6ZC37P	012	37.1	1-1/2" BSP	1" BSP	280 Bar	012	37.1
76H-HT6ZC46P	014	46.0	1-1/2" BSP	1" BSP	280 Bar	014	46.0
76H-HT6ZC58P	017	58.3	1-1/2" BSP	1" BSP	281 Bar	017	58.3
76H-HT6ZC63P	020	63.8	1-1/2" BSP	1" BSP	280 Bar	020	63.8
76H-HT6ZC70P	022	70.3	1-1/2" BSP	1" BSP	280 Bar	022	70.3
76H-HT6ZC79P	025	79.3	1-1/2" BSP	1" BSP	280 Bar	025	79.3
76H-HT6ZC88P	028	88.8	1-1/2" BSP	1" BSP	210 Bar	028	88.8
76H-HT6ZC100P	031	100.0	1-1/2" BSP	1" BSP	210 Bar	031	100.0
	<u>SPARE PARTS</u>						
76H-HT6GZC10CR	CARTRIDGE KIT 10.8cc ; CAM RING CODE 003						
76H-HT6GZC17CR	CARTRIDGE KIT 17.3cc ; CAM RING CODE 005						
76H-HT6GZC21CR	CARTRIDGE KIT 21.3cc ; CAM RING CODE 006						
76H-HT6GZC26CR	CARTRIDGE KIT 26.4cc ; CAM RING CODE 008						
76H-HT6GZC31CR	CARTRIDGE KIT 31.8cc ; CAM RING CODE 010						
76H-HT6GZC37CR	CARTRIDGE KIT 37.1cc ; CAM RING CODE 012						
76H-HT6GZC46CR	CARTRIDGE KIT 46.0cc ; CAM RING CODE 014						
76H-HT6GZC58CR	CARTRIDGE KIT 58.3cc ; CAM RING CODE 017						
76H-HT6GZC63CR	CARTRIDGE KIT 63.8cc ; CAM RING CODE 020						
76H-HT6GZC70CR	CARTRIDGE KIT 70.3cc ; CAM RING CODE 022						
76H-HT6GZC79CR	CARTRIDGE KIT 79.3cc ; CAM RING CODE 025						
76H-HT6GZC88CR	CARTRIDGE KIT 88.8cc ; CAM RING CODE 028						
76H-HT6GZC100CR	CARTRIDGE KIT 100cc ; CAM RING CODE 031						
76H-HT6ZCSHAF	DRIVE SHAFT SINGLE						
76H-HT6ZCBEAR	BEARING KIT SINGLE						
76H-HT6ZCSKIT	SEAL KIT SINGLE						



HT6ZC

Part Number	P.T.O. VANE PUMPS CAST IRON								RETAIL:
									22-01-2026
	<u>TYPE : DOUBLE ; D.I.N. MOUNT ; 4 BOLT</u>								
	<u>HOF HIGH PRESSURE VANE PUMP</u>								
	<u>MOUNTINGS</u> : DIN 4 BOLT 32 DIFFERENT PORT POSITIONS								
	<u>SHAFTS</u> : DIN 5462 8 SPLINE								
	<u>ROTATION</u> : (R) CLOCKWISE								
	(L) ANTI CLOCKWISE								
	<u>PART No</u> : HT6GCC - 70 - 70 - R								
	<u>PART No BREAKDOWN</u> : SERIES; HT6GCC DISP; 70cc / 70cc R; RIGHT HAND ROTATION								
	<u>DOUBLE PUMPS</u>								
	<u>TECHNICAL DATA</u>								
		DISP	CAM RING	PRESSURE	PORT	P0RTS	PRESSURE	CAM RING	DISP
		cc/rev X P1	SIZE X P1	MAX CONT	INLET X 1	OUTLET x 2	MAX CONT	SIZE X P2	cc/rev X P2
76H-HT6GCC70-70		70.3	022	240 Bar	2-1/2" S/F	1" S/F	240 Bar	022	70.3
76H-HT6GCC70-XX		70.3	022	240 Bar	2-1/2" S/F	1" S/F	240 Bar	XX	XX
76H-HT6GCC80-XX		79.3	025	210 Bar	2-1/2" S/F	1" S/F	240 Bar	XX	XX
	<u>FRONT PUMP CARTRIGE KIT P1</u>								
	<u>TECHNICAL DATA</u>								
		CAM RING	DISP	PRESSURE		PRESSURE	CAM RING	DISP	
		SIZE	cc/rev	MAX CONT		MAX CONT	SIZE	cc/rev	
76H-HT6GCCP1-70		022	70.3	240 Bar		240 Bar	022	70,3	
76H-HT6GCCP1-80		025	79.3	210 Bar		210 Bar	025	79,3	
	<u>REAR PUMP CARTRIDGE KIT P2</u>								
	<u>TECHNICAL DATA</u>								
		CAM RING	DISP	PRESSURE		PRESSURE	CAM RING	DISP	
		SIZE	cc/rev	MAX CONT		MAX CONT	SIZE	cc/rev	
76H-HT6GCCP2-10		003	10.8	240 Bar		240 Bar	003	10.8	
76H-HT6GCCP2-17		006	17.2	240 Bar		240 Bar	005	17.2	
76H-HT6GCCP2-32		010	31.8	240 Bar		240 Bar	010	31.8	
76H-HT6GCCP2-46		014	46.0	240 Bar		240 Bar	014	46.0	
76H-HT6GCCP2-58		017	58.3	240 Bar		240 Bar	017	58.3	
76H-HT6GCCP2-70		022	70.3	210 Bar		210 Bar	022	70.3	
	<u>SPARE PARTS</u>								
76H-HT6GCCSHAF	DRIVE SHAFT DOUBLE								
76H-HT6GCCBEAR	BEARING KIT DOUBLE								
76H-HT6GCCSKIT	SEAL KIT DOUBLE								



HT6GCC

<u>Part Number</u>	PUMPS VANE		RETAIL:
			22-01-2026
	<u>MODEL VQ VANE PUMP CARTRIDGES</u>		(DIRECT SWOP WITH VICKERS)
	<u>CARTRIDGE KIT 20VQ SERIES</u>		
77H-20VQ-5	5	GALLON CARTRIDGE KIT	
77H-20VQ-8	8	GALLON CARTRIDGE KIT	
77H-20VQ-11	11	GALLON CARTRIDGE KIT	
77H-20VQ-12	12	GALLON CARTRIDGE KIT	
77H-20VQ-14	14	GALLON CARTRIDGE KIT	
	<u>CARTRIDGE KIT 25VQ SERIES</u>		
77H-25VQ-12	12	GALLON CARTRIDGE KIT	
77H-25VQ-14	14	GALLON CARTRIDGE KIT	
77H-25VQ-17	17	GALLON CARTRIDGE KIT	
77H-25VQ-21	21	GALLON CARTRIDGE KIT	
	<u>CARTRIDGE KIT 35VQ SERIES</u>		
77H-35VQ-25	25	GALLON CARTRIDGE KIT	
77H-35VQ-30	30	GALLON CARTRIDGE KIT	
77H-35VQ-35	35	GALLON CARTRIDGE KIT	
77H-35VQ-38	38	GALLON CARTRIDGE KIT	
	<u>CARTRIDGE KIT 45VQ SERIES</u>		
77H-45VQ-42	42	GALLON CARTRIDGE KIT	
77H-45VQ-50	50	GALLON CARTRIDGE KIT	
77H-45VQ-60	60	GALLON CARTRIDGE KIT	
	<u>SHAFT SEALS PRIMARY (INSIDE PUMP)</u>		
77H-20VQSP	20VQ		
77H-25VQSP	25VQ		
77H-35VQSP	35VQ		
77H-45VQSP	45VQ		
	<u>SHAFT BEARINGS</u>		
77H-20VQSB	20VQ		
77H-25VQSB	25VQ		
77H-35VQSB	35VQ		
77H-45VQSB	45VQ		
	<u>PUMP SHAFT KIT ; SPIROLOCK , WASHER AND SNAPRING</u>		
77H-20VQSL	20VQ		
77H-25VQSL	25VQ		
77H-35VQSL	35VQ		
77H-45VQSL	45VQ		
	<u>PUMP SEAL KIT SINGLE</u>		
77H-20VQSK	20VQ		
77H-25VQSK	25VQ		
77H-35VQSK	35VQ		
77H-45VQSK	45VQ		
	<u>PUMP SEAL KIT DOUBLE</u>		
77H-2520VQSKD	2520VQ		
77H-3520VQSKD	3520VQ		
77H-3525VQSKD	3525VQ		
77H-4520VQSKD	4520VQ		
77H-4525VQSKD	4525VQ		
77H-4535VQSKD	4535VQ		
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE R 1

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Part Number	PUMPS VANE				RETAIL:
					22-01-2026
	<u>MODEL VQ VANE PUMPS</u> (DIRECT SWOP WITH VICKERS)				
	<u>COMPLETE PUMPS SINGLE</u>				
77H-20VQ	5 TO 14	GALLON	SHAFT PARR KEY 7/8" OR 13 SPLINE SPIGOT 4" 2 BOLT		
77H-25VQ	12 TO 21	GALLON	SHAFT PARR KEY 7/8" OR 1" OR 13 SPLINE SPIGOT 4" 2 BOLT		
77H-35VQ	25 TO 38	GALLON	SHAFT PARR KEY 1-1/4" OR 14 SPLINE 11/4" SPIGOT 5" 2 BOLT		
77H-45VQ	42 TO 60	GALLON	SHAFT PARR KEY 1-1/4" OR 14 SPLINE 11/4" SPIGOT 5" 2 BOLT		
	<u>COMPLETE PUMPS DOUBLE</u>				
77H-2520VQ	12-21 TO 5-14	GALLON	SHAFT PARR KEY 7/8" AND 1" OR 13 SPLINE SPIGOT 4" 2 BOLT		
77H-3520VQ	25-38 TO 5-14	GALLON	SHAFT PARR KEY 1-1/4" OR 14 SPLINE 1-1/4" SPIGOT 5" 2 BOLT		
77H-3525VQ	25-38 TO 12-21	GALLON	SHAFT PARR KEY 1-1/4" OR 14 SPLINE 1-1/4" SPIGOT 5" 2 BOLT		
77H-4520VQ	42-60 TO 5-14	GALLON	SHAFT PARR KEY 1-1/4" OR 14 SPLINE 1-1/4" SPIGOT 5" 2 BOLT		
77H-4525VQ	42-60 TO 12-21	GALLON	SHAFT PARR KEY 1-1/4" OR 14 SPLINE 1-1/4" SPIGOT 5" 2 BOLT		
77H-4535VQ	42-60 TO 25-38	GALLON	SHAFT PARR KEY 1-1/4" OR 14 SPLINE 1-1/4" SPIGOT 5" 2 BOLT		
	<u>HOW TO IDENTIFY PUMP SERIES BY MEASURING CAM RING OD IN mm</u>				
	20VQ	CAM RING OD	82.6 mm		
	25VQ	CAM RING OD	96.8 mm		
	35VQ	CAM RING OD	114.3 mm		
	45VQ	CAM RING OD	133.40 mm		
	<u>TECHNICAL SPECIFICATIONS</u>				
	<u>MODEL</u>	<u>FLOW @ 1200RPM US GAL</u>	<u>CC/REV</u>	<u>MAX SPEED RPM</u>	<u>MAX PRESS BAR</u>
	20VQ	5	18	2700	206
	20VQ	8	27	2700	206
	20VQ	11	36	2700	206
	20VQ	12	39	2700	158
	20VQ	14	45	2700	138
	<u>MODEL</u>	<u>FLOW @ 1200RPM US GAL</u>	<u>CC/REV</u>	<u>MAX SPEED RPM</u>	<u>MAX PRESS BAR</u>
	25VQ	12	40	2700	206
	25VQ	14	45	2700	206
	25VQ	17	55	2500	206
	25VQ	21	67	2500	206
	<u>MODEL</u>	<u>FLOW @ 1200RPM US GAL</u>	<u>CC/REV</u>	<u>MAX SPEED RPM</u>	<u>MAX PRESS BAR</u>
	35VQ	25	81	2500	206
	35VQ	30	97	2500	206
	35VQ	35	112	2400	206
	35VQ	38	121	2400	206
	<u>MODEL</u>	<u>FLOW @ 1200RPM US GAL</u>	<u>CC/REV</u>	<u>MAX SPEED RPM</u>	<u>MAX PRESS BAR</u>
	45VQ	42	138	2200	172
	45VQ	50	162	2200	172
	45VQ	60	193	2200	172



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Part Number	PUMPS VANE				RETAIL:
					22-01-2026
	MODEL V10, V20 & VTM 42 VANE PUMPS (DIRECT SWOP WITH VICKERS)				
77H-V10	1 TO 7 GALLON SHAFT PARR KEY 3/4" SPIGOT 3-1/4" 2 BOLT				
77H-V20	5 TO 13 GALLON SHAFT PARR KEY 3/4" SPIGOT 3-1/4" 2 BOLT				
77H-V2010	5 -13 TO 1-7 GALLON SHAFT PARR KEY 7/8" SPIGOT 4" 2 BOLT				
77H-V2020	10 -13 TO 5-11 GALLON SHAFT PARR KEY 7/8" SPIGOT 4" 2 BOLT				
	MODEL V 10 P VANE PUMP UNIT GALLION GRADER STEER PUMP				
77H-V10-1P4P1CR	V10-1P4P-1C-R				
	SPECS : SPIGOT 3-1/4" 2 BOLT PORTS 1" NPT & 1/2" NPT DELIVERY 4 GAL				
	SHAFT 3/4" PARR KEY ROTATION C/W				
	MODEL V 20 VANE PUMP UNIT DIRECT SWOP ON PART NUMBER				
77H-V20-1P9P1C	V20-1P9P-1C-R				
	SPECS : SPIGOT 3-1/4" 2 BOLT PORTS 1-1/4" NPT & 3/4" NPT DELIVERY 4 GAL				
	SHAFT 3/4" PARR KEY ROTATION C/W				
77H-V20-1P11P1C	V20-1P11P-1C-R				
	SPECS : SPIGOT 3-1/4" 2 BOLT PORTS 1-1/4" NPT & 3/4" NPT DELIVERY 11 GAL				
	SHAFT 3/4" PARR KEY ROTATION C/W				
	MODEL V 2010 VANE PUMP DOUBLE PUMP				
77H-V2010-1F10P	V2010-1F10P6P-1CC-R				
	SPECS : SPIGOT 4" 2 BOLT PORTS 1-1/2" 4 BOLT FLANGE & 1/2" NPT DELIVERY 10 & 6 GAL				
	SHAFT 7/8" PARR KEY ROTATION C/W				
	MODEL VTM 42 VANE PUMP UNIT DIRECT SWOP ON PART NUMBER				
77H-VTM425040	VTM-42-50-40-15-NO-R1-14				
	SPECS : SPIGOT 3-1/4" 2 BOLT DELIVERY 5 GAL CONTROLLED FLOW 4 GAL RELIEF 15 BAR				
	ROTATION C/W SHAFT 7/8" PARR KEY + THREAD PRESSURE PORT 1/2" SAE "O"				
77H-VTM-TANK	VTM TANK				
	TECHNICAL SPECIFICATIONS				
	MODEL	FLOW @ 1200RPM US GAL	CC/REV	MAX SPEED RPM	MAX PRESS BAR
	V10	1	3.3	4800	172
	V10	2	6.6	4500	172
	V10	3	9.8	4000	172
	V10	4	13.1	3400	172
	V10	5	16.4	3200	172
	V10	6	19.5	3000	152
	V10	7	22.8	2800	138
	MODEL	FLOW @ 1200RPM US GAL	CC/REV	MAX SPEED RPM	MAX PRESS BAR
	V20	5	16.4	3200	172
	V20	6	19.5	3400	172
	V20	7	22.8	3000	172
	V20	8	26.5	2800	172
	V20	9	29.7	2800	172
	V20	10	34.1	2500	172
	V20	11	36.4	2500	172
	V20	12	39.0	2400	152
	V20	13	42.4	2400	152



Part Number	VANE MOTORS					RETAIL:
						22-01-2026
	MOTOR SERIES ; 25HM ; 35HM ; 45HM					
	25HM COMPLETE MOTORS					
77H-25HM30A1C	25 HM 30 A - 1 C	RING SIZE 29.0cc	PARRALLEL SHAFT 7/8" OR 13 TOOTH	SPIGOT 4"		
77H-25HM42A1C	25 HM 42 A - 1 C	RING SIZE 43.9cc	PARRALLEL SHAFT 7/8" OR 13 TOOTH	SPIGOT 4"		
77H-25HM55A1C	25 HM 55 A - 1 C	RING SIZE 57.7cc	PARRALLEL SHAFT 7/8" OR 13 TOOTH	SPIGOT 4"		
77H-25HM65A1C	25 HM 65 A - 1 C	RING SIZE 68.7cc	PARRALLEL SHAFT 7/8" OR 13 TOOTH	SPIGOT 4"		
	35HM COMPLETE MOTORS					
77H-35HM80A1C	35 HM 80 A - 1 C	RING SIZE 83.6cc	PARRALLEL SHAFT 1-1/4" OR 14 TOOTH	SPIGOT 5"		
77H-35HM95A1C	35 HM 95 A - 1 C	RING SIZE 100.3cc	PARRALLEL SHAFT 1-1/4" OR 14 TOOTH	SPIGOT 5"		
77H-35HM115A1C	35 HM 115 A - 1 C	RING SIZE 121.9cc	PARRALLEL SHAFT 1-1/4" OR 14 TOOTH	SPIGOT 5"		
	45HM COMPLETE MOTORS					
77H-45HM130A1C	45 HM 130 A - 1 C	RING SIZE 138.0cc	PARRALLEL SHAFT 1-1/4" OR 14 TOOTH	SPIGOT 5"		
77H-45HM155A1C	45 HM 155 A - 1 C	RING SIZE 163.2cc	PARRALLEL SHAFT 1-1/4" OR 14 TOOTH	SPIGOT 5"		
77H-45HM185A1C	45 HM 185 A - 1 C	RING SIZE 193.2cc	PARRALLEL SHAFT 1-1/4" OR 14 TOOTH	SPIGOT 5"		
	CARTRIDGE KITS					
77H-25HM-30	25HM RING SIZE, 30					
77H-25HM-42	25HM RING SIZE, 42					
77H-25HM-55	25HM RING SIZE, 55,					
77H-25HM-65	25HM RING SIZE, 65					
77H-35HM-80	35HM RING SIZE, 80					
77H-35HM-95	35HM RING SIZE, 95,					
77H-35HM-115	35HM RING SIZE, 115					
77H-45HM-130	45HM RING SIZE, 130					
77H-45HM-155	45HM RING SIZE, 155					
77H-45HM-185	45HM RING SIZE, 185					
	SHAFTS					
77H-25HMS-11	MOTOR SHAFT SPLINED 25 HM - 11 (13 TOOTH SAE B)					
77H-35HMS-11	MOTOR SHAFT SPLINED 35 HM - 11 (14 TOOTH SAE C)					
77H-45HMS-11	MOTOR SHAFT SPLINED 45 HM - 11 (14 TOOTH SAE C)					
	SHAFT SEAL					
77H-25HM-SS	25HM SHAFT SEAL					
77H-35HM-SS	35HM SHAFT SEAL					
77H-45HM-SS	45HM SHAFT SEAL					
	NOTES:					
	MOTORS ARE BI ROTATION , CAN BE RUN IN SERIES, HIGHER SPEEDS CAN REACHED IF					
	WORKING PRESSURE IS LOWERED, CASE DRAIN MUST BE NO MORE THAN MAX 0.7 bar					
	PORTS					
	SERIES	BODY PORT	COVER PORT	CASE DRAIN		
	25HM	1-1/4" S/F unc	1-1/4" S/F unc	1/4" NPT		
	35HM	1-1/2" S/F unc	1-1/2" S/F unc	3/8" NPT		
	45HM	2" S/F unc	2" S/F unc	1/2" NPT		
	SPECIFICATIONS					
	MODEL SERIES	TORQUE Nm/6.9bar (lb in/100psi)	DISPLACEMENT cc/r (cc/r)	FLOW INPUT @ 1200rpm L/min (Us/gal)	MAX SPEED & PRESSURE CONTINUOUS	Kg
	25HM	3.3 (30)	29.0 (1.77)	34.8 (9.19)	2600 r/min @ 155 bar	18
		4.7 (42)	43.9 (2.68)	52.6 (13.9)	2600 r/min @ 155 bar	18
		6.2 (55)	57.7 (3.52)	69.3 (18.3)	2600 r/min @ 155 bar	18
		7.3 (65)	68.7 (4.19)	82.5 (21.8)	2600 r/min @ 155 bar	18
	35HM	9.0 (80)	83.6 (5.10)	100.3 (26.5)	2600 r/min @ 155 bar	29
		10.7 (95)	100.3 (6.12)	120.4 (31.8)	2600 r/min @ 155 bar	29
		13.0 (115)	121.9 (7.44)	146.1 (38.6)	2600 r/min @ 155 bar	29
	45HM	14.7 (130)	138.0 (8.42)	165.4 (43.7)	2600 r/min @ 155 bar	39
		17.5 (155)	163.2 (9.96)	195.7 (51.7)	2600 r/min @ 155 bar	39
		20.9 (185)	193.2 (11.79)	232.0 (61.3)	2600 r/min @ 155 bar	39
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY					PAGE R 6

PUMPS PISTON

PUMP ORDERING CODE	TK	A10VS	O	71	DFR	31	R	P	P	A	12	N00
AXIAL PISTON UNIT												
SWASH PLATE VARIABLE PUMP INDUSTRIAL		A10VS										
MODES OF OPERATION												
PUMP OPEN CIRCUIT			X									
SIZE												
DISPLACEMENT (cc/rev)		18	28	45	71	100	140					
CONTROL DEVICES												
PRESSURE CONTROL		X	X	X	X	X	X	DR				
G-REMOTE CONTROL		X	X	X	X	X	X	DRG				
PRESSURE AND FLOW CONTROL		X	X	X	X	X	X	DFR				
X CHANNEL PLUGGED		X	X	X	X	X	X	DFR1				
PRESSURE FLOW AND POWER CONTROL			X	X	X	X		DFLR				
SERIES						31						
DIRECTION OF ROTATION												
VIEWED ON DRIVE SHAFT			CLOCKWISE				R					
VIEWED ON DRIVE SHAFT			ANTI CLOCKWISE				L					
SEALS												
BUNA-N							P					
FPM (FLUOROCARBON)							V					
SHAFT END			18	28	45	71	100	140				
SPLINED SHAFT SAE INCH			3/4"-11T	7/8"-13T	1"-15T	1-1/4"-14T	1-1/2"-17T	1-3/4"-13T	S			
SPLINED SHAFT SAE INCH SHAFT REINFORCED THRU - DRIVE				7/8"-13T	1"-15T	1-1/4"-14T			R			
SPLINED SHAFT SAE INCH SMALLER SIZE NO THRU - DRIVE					7/8"-13T		1-1/4"-14T		U			
SPLINED SHAFT SAE INCH SHAFT REINFORCED U TYPE SHAFT					7/8"-13T		1-1/4"-14T		W			
PARALLEL SHAFT SAE INCH KEYED SHAFT			3/4"	7/8"	1"	1-1/4"	1-1/2"	1-3/4"	K			
PARALLEL SHAFT DIN METRIC KEYED SHAFT			18mm	22mm	25mm	32mm	40mm	45mm	P			
MOUNTING FLANGE			18	28	45	71	100	140				
SAE 2 HOLE INCH			3-3/4"	4"	4"	5"	5"		C			
SAE 4 HOLE INCH								6"	D			
ISO 2 HOLE METRIC			80mm	100mm	100mm	125mm	125mm	180mm	A			
SERVICE PORTS			18	28	45	71	100	140				
REAR PORTS UNC THREADS				x	x	x	x	x	61	ports pos		
OPPOSITE SIDE PORTS UNC THREADS			X	X	X	X	X	X	62	61, 11, 91,		
REAR PORTS METRIC THREADS				X	X	X	X	X	11	and 41		
OPPOSITE SIDE PORTS METRIC THREADS			X	X	X	X	X	X	12	only for		
REAR PORTS UNC THREADS						X			91	version		
OPPOSITE SIDE PORTS UNC THREADS						X			92	without		
REAR PORTS METRIC THREADS						X			41	through		
OPPOSITE SIDE PORTS METRIC THREADS						X			42	drive		
THRU - DRIVE REAR COVER			18	28	45	71	100	140				
STANDARD COVER WITHOUT THROUGH DRIVE				X	X	X	X	X	N00			
SAE A 3-1/4" 2 BOLT ADAPTOR 9 SPLINE				X	X	X	X	X	K01			
SAE A 3-1/4" 2 BOLT ADAPTOR 11 SPLINE				X	X	X	X	X	K52			
SAE B 4" 2 BOLT ADAPTOR 13 SPLINE				X	X	X	X		K02 / K68			
SAE B 4" 2 BOLT ADAPTOR 15 SPLINE				X	X	X	X	X	K04			
SAE C 5" 2 BOLT ADAPTOR 14 SPLINE						X	X	X	K07			
SAE D 6" 4 BOLT ADAPTOR 14 SPLINE								X	K17			

Part Number	PUMPS PISTON						RETAIL:	
							10-02-2025	
	<u>SINGLE A 10V 31 SERIES IMPERIAL (SPIGOT & SHAFT C/W / CCW)</u>							
	<u>STANDARD PARRALLEL KEY SHAFTS (CODE K)</u>							
78H-A10V18-IPR	A10VS O 18 DFR / 31 R - P K C 62 NOO		PARRALLEL SHAFT 3/4"		SPIGOT 3-1/4"			
78H-A10V28-IPR	A10VS O 28 DFR / 31 R - P K C 62 NOO		PARRALLEL SHAFT 7/8"		SPIGOT 4"			
78H-A10V45-IPR	A10VS O 45 DFR / 31 R - P K C 62 NOO		PARRALLEL SHAFT 1"		SPIGOT 4"			
78H-A10V71-IPR	A10VS O 71 DFR / 31 R - P K C 62 NOO		PARRALLEL SHAFT 1-1/4"		SPIGOT 5"			
78H-A10V100-IPR	A10VS O 100 DFR / 31 R - P K C 62 NOO		PARRALLEL SHAFT 1-1/2"		SPIGOT 5"			
78H-A10V140-IPR	A10VS O 140 DFR / 31 R - P K D 62 NOO		PARRALLEL SHAFT 1- 3/4"		SPIGOT 6"			
	<u>STANDARD SPLINE SHAFTS (CODE S)</u>							
78H-A10V18-ISR	A10VS O 18 DFR / 31 R - P S C 62 NOO		SPLINE SHAFT 11 SPLINE		SPIGOT 3-1/4"			
78H-A10V28-ISR	A10VS O 28 DFR / 31 R - P S C 62 NOO		SPLINE SHAFT 13 SPLINE		SPIGOT 4"			
78H-A10V45-ISR	A10VS O 45 DFR / 31 R - P S C 62 NOO		SPLINE SHAFT 15 SPLINE		SPIGOT 4"			
78H-A10V71-ISR	A10VS O 71 DFR / 31 R - P S C 62 NOO		SPLINE SHAFT 14 SPLINE		SPIGOT 5"			
78H-A10V100-ISR	A10VS O 100 DFR / 31 R - P S C 62 NOO		SPLINE SHAFT 17 SPLINE		SPIGOT 5"			
78H-A10V140-ISR	A10VS O 140 DFR / 31 R - P S D 62 NOO		SPLINE SHAFT 13 SPLINE		SPIGOT 6"			
	<u>DOUBLE A 10V 31 SERIES IMPERIAL (THRU-DRIVE ADD-ON C/W / CCW)</u>							
78H-A10V28AD3R	A10VS O 28 DFR / 31 R - 62 ADD-ON		SAE A 3-1/4"		(K01 / 9T) (K52 / 11T)			
78H-A10V28AD4R	A10VS O 28 DFR / 31 R - 62 ADD-ON		SAE B 4"		(K68 ; K02 / 13T) (K04 / 15T)			
78H-A10V45AD3R	A10VS O 45 DFR / 31 R - 62 ADD-ON		SAE A 3-1/4"		(K01 / 9T) (K52 / 11T)			
78H-A10V45AD4R	A10VS O 45 DFR / 31 R - 62 ADD-ON		SAE B 4"		(K68 ; K02 / 13T) (K04 / 15T)			
78H-A10V71AD3R	A10VS O 71 DFR / 31 R - 62 ADD-ON		SAE A 3-1/4"		(K01 / 9T) (K52 / 11T)			
78H-A10V71AD4R	A10VS O 71 DFR / 31 R - 62 ADD-ON		SAE B 4"		(K68 ; K02 / 13T) (K04 / 15T)			
78H-A10V71AD5R	A10VS O 71 DFR / 31 R - 62 ADD-ON		SAE C 5"		(K07 / 14T)			
78H-A10V100AD4R	A10VS O 100 DFR / 31 R - 62 ADD-ON		SAE B 4"		(K68 ; K02 / 13T) (K04 / 15T)			
78H-A10V100AD5R	A10VS O 100 DFR / 31 R - 62 ADD-ON		SAE C 5"		(K07 / 14T)			
78H-A10V140AD4R	A10VS O 140 DFR / 31 R - 62 ADD-ON		SAE B 4"		(K68 ; K02 / 13T) (K04 / 15T)			
78H-A10V140AD5R	A10VS O 140 DFR / 31 R - 62 ADD-ON		SAE C 5"		(K07 / 14T)			
	<u>SPECS; FOR THE ABOVE PUMPS</u>							
	MODEL	CC / REV	ROTATION	SHAFT	SPIGOT	MOUNT	SUCTION	PRESSURE
	A10VSO18	18	C / W	3/4" : 11T	3-1/4"	2 X BOLT	1" S/F	3/4" S/F
	A10VSO28	28	C / W	7/8" : 13T	4"	2 X BOLT	1-1/4" S/F	3/4" S/F
	A10VSO45	45	C / W	1" : 15T	4"	2 X BOLT	1-1/2" S/F	1" S/F
	A10VSO71	71	C / W	1-1/4" : 14T	5"	2 X BOLT	2" S/F	1" S/F
	A10VSO100	100	C / W	1-1/2" : 17T	5"	2 X BOLT	2-1/2" S/F	1-1/4" S/F-m*
	A10VSO140	140	C / W	1-3/4" : 13T	6"	4 X BOLT	2-1/2" S/F	1-1/4" S/F-m*
	ALL PORTS 3000 SERIES ; EXCEPT FOR 1-1/4" S/F-m* 6000 SERIES							
	<u>SPECS; FOR THE ABOVE PUMPS</u>							
	MODEL	PRESSURE	PRESSURE	INLET PRESSURE		SPEED	SPEED	WEIGHT
	CC/REV	RATED	CASING	MIN	MAX	MAX	MIN	Kg
	A10VSO18	280 Bar	2 Bar	0.8 Bar	30 Bar	3300 rpm	600 rpm	12
	A10VSO28	280 Bar	2 Bar	0.8 Bar	30 Bar	3000 rpm	600 rpm	15
	A10VSO45	280 Bar	2 Bar	0.8 Bar	30 Bar	2600 rpm	600 rpm	21
	A10VSO71	280 Bar	2 Bar	0.8 Bar	30 Bar	2200 rpm	600 rpm	33
	A10VSO100	280 Bar	2 Bar	0.8 Bar	30 Bar	2000 rpm	600 rpm	45
	A10VSO140	280 Bar	2 Bar	0.8 Bar	30 Bar	1800 rpm	600 rpm	60
								
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY							PAGE S 2

Part Number	PUMPS PISTON		RETAIL:
			10-02-2025
	<u>SINGLE A 10V 31 SERIES IMPERIAL (HORSE POWER CONTROL)</u>		
	STANDARD PARRALLEL KEY SHAFTS	(CODE K)	
78H-A1028DFLIR	A10VS O 28 DFLR / 31 R - P K C 62 NOO	PARRALLEL SHAFT 7/8" SPIGOT 4"	
78H-A1045DFLIR	A10VS O 45 DFLR / 31 R - P K C 62 NOO	PARRALLEL SHAFT 1" SPIGOT 4"	
78H-A1071DFLIR	A10VS O 71 DFLR / 31 R - P K C 62 NOO	PARRALLEL SHAFT 1-1/4" SPIGOT 5"	
78H-A10100DFLIR	A10VS O 100 DFLR / 31 R - P K C 62 NOO	PARRALLEL SHAFT 1-1/2" SPIGOT 5"	
78H-A10140DFLIR	A10VS O 140 DFLR / 31 R - P K D 62 NOO	PARRALLEL SHAFT 1-3/4" SPIGOT 6"	
	<u>CONNECTING BILLET OPTIONS</u>		
	<u>A10VSO 28 THRU - DRIVE BILLETS</u>		
78H-241-3601	BILLET ADAPTOR 9 SPLINE K01		
78H-1-3601B-SZ	BILLET ADAPTOR 11 SPLINE K52		
78H-241-3601A	BILLET ADAPTOR 13 SPLINE K02 / K68		
	<u>A10VSO 45 THRU - DRIVE BILLETS</u>		
78H-242-3601A	BILLET ADAPTOR 11 SPLINE K52 / KB2		
78H-242-3601E	BILLET ADAPTOR 9 SPLINE K01		
78H-242-3601B	BILLET ADAPTOR 13 SPLINE K68		
78H-242-3601F	BILLET ADAPTOR 13 SPLINE K02 / K68		
78H-242-3601C	BILLET ADAPTOR 15 SPLINE K04		
	<u>A10VSO 71 THRU - DRIVE BILLETS</u>		
78H-243-3601	BILLET ADAPTOR 9 SPLINE K01		
78H-243-3601E	BILLET ADAPTOR 11 SPLINE K52		
78H-243-3601C	BILLET ADAPTOR 13 SPLINE K02 / K68		
78H-243-3601A	BILLET ADAPTOR 14 SPLINE K07		
78H-243-3601D	BILLET ADAPTOR 15 SPLINE K04		
	<u>A10VSO 100 THRU - DRIVE BILLETS</u>		
78H-244-3601	BILLET ADAPTOR 9 SPLINE K01		
78H-244-3601B	BILLET ADAPTOR 13 SPLINE K02 / K68		
78H-244-3601A	BILLET ADAPTOR 14 SPLINE K07		
78H-244-3601C	BILLET ADAPTOR 15 SPLINE K04		
	<u>A10VSO 140 THRU - DRIVE BILLETS</u>		
78H-245-3601F	BILLET ADAPTOR 9 SPLINE K01		
78H-245-3601D	BILLET ADAPTOR 13 SPLINE K02 / K68		
78H-245-3601B	BILLET ADAPTOR 14 SPLINE K07		
78H-245-3601C	BILLET ADAPTOR 15 SPLINE K04		
	<u>LABOUR OPTIONS</u>		
78H-A10V-LAB-01	TO SET UP ON TEST BENCH NEW SINGLE PUMP PRESSURES AND FLOW		
78H-A10V-LAB-02	TO SET UP ON TEST BENCH NEW DOUBLE PUMP PRESSURES AND FLOW		
78H-A10V-LAB-03	TO SET UP ON TEST BENCH USED SINGLE PUMP PRESSURES AND FLOW		
78H-A10V-LAB-04	TO SET UP ON TEST BENCH USED DOUBLE PUMP PRESSURES AND FLOW		
78H-A10V-LAB-05	TO SET UP ON TEST BENCH NEW DFLR CONTROLLED PUMP		
	<u>BILL OF MATERIAL FOR ROTATION CHANGE</u>		
	BACK COVER ; VALVE PLATE AND YOKE TO BE REPLACED		
			
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE S 3

Part Number	PUMPS PISTON		RETAIL: 10-02-2025	
	A 10V 31 SERIES PISTON PUMP			
	A10VSO 18 SPARES			
78H-240-3306	A10VSO 18 SEAL KIT			
78H-A10V18-ROT	A10VSO 18 ROTATING GROUP ASSEMBLY 18cc			
78H-240-1101	A10VSO 18 CYLINDER BLOCK			
78H-240-2100C	A10VSO 18 PISTON (9 PER SET)			
78H-240-1201	A10VSO 18 BARREL WASHER			
78H-240-1301	A10VSO 18 COIL SPRING			
78H-240-1401	A10VSO 18 PRESS PIN			
78H-240-1501	A10VSO 18 SNAP RING			
78H-240-4102A	A10VSO 18 BALL GUIDE			
78H-240-4111A	A10VSO 18 RETAINER PLATE			
78H-240-3704	A10VSO 18 SHAFT BIG BEARING FRONT			
78H-240-3704A	A10VSO 18 SHAFT SMALL BEARING REAR			
78H-240-4401	A10VSO 18 VALVE PLATE RIGHT HAND			
78H-240-4501	A10VSO 18 VALVE PLATE LEFT HAND			
78H-240-5220	A10VSO 18 SWASH PLATE RIGHT HAND			
78H-240-5320	A10VSO 18 SWASH PLATE LEFT HAND			
78H-240-5251	A10VSO 18 SADDLE BEARING			
78H-240-7102B	A10VSO 18 HEAD BLOCK RIGHT HAND SAE SINGLE SIDE PORT 62 N00			
78H-240-7103B	A10VSO 18 HEAD BLOCK LEFT HAND SAE SINGLE SIDE PORT 62 N00			
78H-240-3101K	A10VSO 18 3/4" P / KEY TYPE K			
78H-240-3201U	A10VSO 18 SHAFT 9 SPLINE TYPE U			
78H-240-3201S	A10VSO 18 SHAFT 11 SPLINE TYPE S			
78H-240-7300	A10VSO 18 CONTROL VALVE DR			
78H-240-7200	A10VSO 18 CONTROL VALVE DFR			
78H-240-7400	A10VSO 18 CONTROL VALVE DFR1			
78H-240-72-DRG	A10VSO 18 CONTROL VALVE DRG			
78H-240-7110	A10VSO 18 CONTROL PISTON ASSEMBLY			
78H-240-7120	A10VSO 18 COUNTER PISTON ASSEMBLY			
78H-240-7135	A10VSO 18 BIAS SPRING			
78H-240-7630A	A10VSO 18 ~ 100 0.8 ORIFICE DFR ADAPTER			
78H-240-SL-M6	A10VSO 18 ~ 100 DOUBLE HEAD PLUG SL-M6 A6VM160			
78H-240-B6X18	A10VSO 18 ~ 100 COLUMN PIN B6x18 GB/T119			
	A10VSO 28 SPARES			
78H-241-3306	A10VSO 28 SEAL KIT			
78H-A10V28-ROT	A10VSO 28 ROTATING GROUP ASSEMBLY 28cc			
78H-241-1101	A10VSO 28 CYLINDER BLOCK			
78H-241-2100C	A10VSO 28 PISTON			
78H-241-1201	A10VSO 28 BARREL WASHER			
78H-241-1301	A10VSO 28 COIL SPRING			
78H-241-1401	A10VSO 28 PRESS PIN			
78H-241-1501	A10VSO 28 SNAP RING			
78H-241-4102F	A10VSO 28 BALL GUIDE			
78H-241-4111A	A10VSO 28 RETAINER PLATE			
78H-241-3704	A10VSO 28 SHAFT BIG BEARING FRONT			
78H-241-3704A	A10VSO 28 SHAFT SMALL BEARING REAR			
78H-241-4401	A10VSO 28 VALVE PLATE RIGHT HAND			
78H-241-4501	A10VSO 28 VALVE PLATE LEFT HAND			
78H-241-5220	A10VSO 28 SWASH PLATE RIGHT HAND			
78H-241-5320	A10VSO 28 SWASH PLATE LEFT HAND			
78H-241-5251	A10VSO 28 SADDLE BEARING			
78H-241-7102B	A10VSO 28 HEAD BLOCK RIGHT HAND SAE SINGLE SIDE PORT 62 N00			
78H-241-7103B	A10VSO 28 HEAD BLOCK LEFT HAND SAE SINGLE SIDE PORT 62 N00			
78H-241-7102C	A10VSO 28 RIGHT HAND REAR COVER / THRU - DRIVE 3-1/4" 2 BOLT SAE SIDE PORT 62 (K01 / K52)			
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE S 4	

Part Number	PUMPS PISTON		RETAIL: 10-02-2025	
	<u>A 10V 31 SERIES PISTON PUMP</u>			
	<u>A10VSO 28 SPARES</u>			
78H-241-7103C	A10VSO 28 LEFT HAND REAR COVER / THRU - DRIVE 3-1/4" 2 BOLT SAE SIDE PORT 62 (K01 / K52)			
78H-241	A10VSO 28 RIGHT HAND REAR COVER / THRU - DRIVE 4" 2 BOLT SAE SIDE PORT 62 (K04 / K68)			
78H-241-7103E	A10VSO 28 LEFT HAND REAR COVER / THRU - DRIVE 4" 2 BOLT SAE SIDE PORT 62 (K04 / K68)			
78H-241-3601	A10VSO 28 BILLET ADAPTOR 9 SPLINE K01			
78H-1-3601B-SZ	A10VSO 28 BILLET ADAPTOR 11 SPLINE K52			
78H-241-3601A	A10VSO 28 BILLET ADAPTOR 13 SPLINE K02 / K68			
78H-241-3601F	A10VSO 28 BILLET ADAPTOR 15 SPLINE K04			
78H-241-3101K	A10VSO28 SHAFT 7/8" P / KEY TYPE K			
78H-241-3101D	A10V28 SHAFT 7/8" P/KEY / THRU/D TYPE K			
78H-241-3201C	A10VSO28 SHAFT 13 SPLINE TYPE S			
78H-241-3201B	A10V28 SHAFT 13 SPLINE / THRU/D TYPE S			
78H-240-7300	A10VSO28 CONTROL VALVE DR			
78H-240-7200	A10VSO28 CONTROL VALVE DFR			
78H-240-7400	A10VSO28 CONTROL VALVE DFR1			
78H-240-72-DRG	A10VSO28 CONTROL VALVE DRG			
78H-242-7800	A10VSO28 HORSE POWER CONTROLLER 7.5Kw			
78H-241-7110	A10VSO 28 CONTROL PISTON ASSEMBLY			
78H-241-7120	A10VSO 28 COUNTER PISTON ASSEMBLY			
78H-241-7135	A10VSO 28 BIAS SPRING			
78H-241-7630A	A10VSO 18 ~ 100 0.8 ORIFICE DFR ADAPTER			
78H-241-SL-M6	A10VSO 18 ~ 100 DOUBLE HEAD PLUG SL-M6 A6VM160			
78H-241-B6X18	A10VSO 18 ~ 100 COLUMN PIN B6x18 GB/T119			
	<u>A10VSO 45 SPARES</u>			
78H-242-3306	A10VSO 45 SEAL KIT			
78H-A10V45-ROT	A10VSO 45 ROTATING GROUP ASSEMBLY 45cc			
78H-242-1101	A10VSO 45 CYLINDER BLOCK			
78H-242-2100C	A10VSO 45 PISTON			
78H-242-1201	A10VSO 45 BARREL WASHER			
78H-242-1301	A10VSO 45 COIL SPRING			
78H-242-1401	A10VSO 45 PRESS PIN			
78H-242-1501	A10VSO 45 SNAP RING			
78H-242-4102F	A10VSO 45 BALL GUIDE			
78H-242-4111	A10VSO 45 RETAINER PLATE			
78H-242-3704	A10VSO 45 SHAFT BIG BEARING FRONT			
78H-242-3704A	A10VSO 45 SHAFT SMALL BEARING REAR			
78H-242-4401	A10VSO 45 VALVE PLATE RIGHT HAND			
78H-242-4501	A10VSO 45 VALVE PLATE LEFT HAND			
78H-242-5220	A10VSO 45 SWASH PLATE RIGHT HAND			
78H-242-5320	A10VSO 45 SWASH PLATE LEFT HAND			
78H-242-5251	A10VSO 45 SADDLE BEARING			
78H-242-7102B	A10VSO 45 HEAD BLOCK RIGHT HAND SAE SINGLE SIDE PORT 62 N00			
78H-242-7103B	A10VSO 45 HEAD BLOCK LEFT HAND SAE SINGLE SIDE PORT 62 N00			
78H-242-7102E	A10VSO 45 RIGHT HAND REAR COVER / THRU - DRIVE 3-1/4" 2 BOLT SAE SIDE PORT 62 (K01 / K52)			
78H-242-7103E	A10VSO 45 LEFT HAND REAR COVER / THRU - DRIVE 3-1/4" 2 BOLT SAE SIDE PORT 62 (K01 / K52)			
78H-242-7102C	A10VSO 45 RIGHT HAND REAR COVER / THRU - DRIVE 4" 2 BOLT SAE SIDE PORT 62 (K04 / K68)			
78H-242-7103C	A10VSO 45 LEFT HAND REAR COVER / THRU - DRIVE 4" 2 BOLT SAE SIDE PORT 62 (K04 / K68)			
78H-242-3601A	A10VSO 45 BILLET ADAPTOR 11 SPLINE K52 / KB2			
78H-242-3601E	A10VSO 45 BILLET ADAPTOR 9 SPLINE K01			
78H-242-3601B	A10VSO 45 BILLET ADAPTOR 13 SPLINE K68			
78H-242-3601F	A10VSO 45 BILLET ADAPTOR 13 SPLINE K02 / K68			
78H-242-3601C	A10VSO 45 BILLET ADAPTOR 15 SPLINE K04			
78H-242-3101K	A10VSO 45 SHAFT 1" P / KEY TYPE K			
78H-242-3101D	A10VSO 45 SHAFT 1" P/KEY / THRU-DRIVE TYPE K			
78H-242-3201U	A10VSO 45 SHAFT 13 SPLINE TYPE U			
78H-242-3201D	A10VSO 45 SHAFT 13 SPLINE/THRU-DRIVE TYPE U			
78H-242-3201	A10VSO 45 SHAFT 15 SPLINE TYPE S			
78H-242-3201C	A10VSO 45 SHAFT 15 SPLINE / THRU-DRIVE TYPE S			
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE S 5	

Part Number	PUMPS PISTON		RETAIL: 10-02-2025
<u>A 10V 31 SERIES PISTON PUMP</u>			
<u>A10VSO 45 SPARES</u>			
78H-240-7300	A10VSO 45 CONTROL VALVE DR		
78H-240-7200	A10VSO 45 CONTROL VALVE DFR		
78H-240-7400	A10VSO 45 CONTROL VALVE DFR1		
78H-240-72-DRG	A10VSO 45 CONTROL VALVE DRG		
78H-242-7800	A10VSO 45 HORSE POWER CONTROLLER 15Kw		
78H-242-7110	A10VSO 45 CONTROL PISTON ASSEMBLY		
78H-242-7120	A10VSO 45 COUNTER PISTON ASSEMBLY		
78H-242-7135	A10VSO 45 BIAS SPRING		
78H-242-7630A	A10VSO 18 ~ 100 0.8 ORIFICE DFR ADAPTER		
78H-242-SL-M6	A10VSO 18 ~ 100 DOUBLE HEAD PLUG SL-M6 A6VM160		
78H-242-B6X18	A10VSO 18 ~ 100 COLUMN PIN B6x18 GB/T119		
<u>A10VSO 71 SPARES</u>			
78H-243-3306	A10VSO 71 SEAL KIT		
78H-A10V71-ROT	A10VSO 71 ROTATING GROUP ASSEMBLY 71cc		
78H-243-1101	A10VSO 71 CYLINDER BLOCK		
78H-243-2100C	A10VSO 71 PISTON (9 PER SET)		
78H-243-1201	A10VSO 71 BARREL WASHER		
78H-243-1301	A10VSO 71 COIL SPRING		
78H-243-1401	A10VSO 71 PRESS PIN		
78H-243-1501	A10VSO 71 SNAP RING		
78H-243-4102F	A10VSO 71 BALL GUIDE		
78H-243-4111	A10VSO 71 RETAINER PLATE		
78H-243-3704	A10VSO 71 SHAFT BIG BEARING FRONT		
78H-243-3704A	A10VSO 71 SHAFT SMALL BEARING REAR		
78H-243-4401	A10VSO 71 VALVE PLATE RIGHT HAND		
78H-243-4501	A10VSO 71 VALVE PLATE LEFT HAND		
78H-243-5220	A10VSO 71 SWASH PLATE RIGHT HAND		
78H-243-5320	A10VSO 71 SWASH PLATE LEFT HAND		
78H-243-5251	A10VSO 71 SADDLE BEARING		
78H-243-7104	A10VSO 71 HEAD BLOCK RIGHT HAND REAR PORTS		
78H-243-7105	A10VSO 71 HEAD BLOCK LEFT HAND REAR PORTS		
78H-243-7102B	A10VSO 71 HEAD BLOCK RIGHT HAND SAE SINGLE SIDE PORT 62 N00		
78H-243-7103B	A10VSO 71 HEAD BLOCK LEFT HAND SAE SINGLE SIDE PORT 62 N00		
78H-243-7102C	A10VSO 71 RIGHT HAND REAR COVER / THRU - DRIVE 3-1/4" 2 BOLT SAE SIDE PORT 62 (K01 / K52)		
78H-243-7103C	A10VSO 71 LEFT HAND REAR COVER / THRU - DRIVE 3-1/4" 2 BOLT SAE SIDE PORT 62 (K01 / K52)		
78H-243-7102N	A10VSO 71 RIGHT HAND REAR COVER / THRU - DRIVE 4" 2 BOLT SAE SIDE PORT 62 (K04 / K68)		
78H-243-7103N	A10VSO 71 LEFT HAND REAR COVER / THRU - DRIVE 4" 2 BOLT SAE SIDE PORT 62 (K04 / K68)		
78H-243-7102G	A10VSO 71 RIGHT HAND REAR COVER / THRU - DRIVE 5" 2 BOLT SAE SIDE PORT 62 (K07)		
78H-243-7103G	A10VSO 71 LEFT HAND REAR COVER / THRU - DRIVE 5" 2 BOLT SAE SIDE PORT 62 (K07)		
78H-243-3601	A10VSO 71 BILLET ADAPTOR 9 SPLINE K01		
78H-243-3601E	A10VSO 71 BILLET ADAPTOR 11 SPLINE K52		
78H-243-3601B	A10VSO 71 BILLET ADAPTOR 13 SPLINE K02 / K68		
78H-243-3601C	A10VSO 71 BILLET ADAPTOR 32mm PARALLEL KEY		
78H-243-3601A	A10VSO 71 BILLET ADAPTOR 14 SPLINE K07		
78H-243-3601D	A10VSO 71 BILLET ADAPTOR 15 SPLINE K04		
78H-243-3101K	A10VSO 71 SHAFT 1-1/4" P / KEY TYPE K		
78H-243-3101D	A10VSO 71 SHAFT 1-1/4" P / THRU - DRIVE TYPE K		
78H-243-3201S	A10VSO 71 SHAFT 14 SPLINE TYPE S		
78H-243-3201A	A10VSO 71 SHAFT 14 SPLINE / THRU - DRIVE TYPE S		
78H-240-7300	A10VSO 71 CONTROL VALVE DR		
78H-240-7200	A10VSO 71 CONTROL VALVE DFR		
78H-240-7400	A10VSO 71 CONTROL VALVE DFR1		
78H-240-72-DRG	A10VSO 71 CONTROL VALVE DRG		
78H-242-7800	A10VSO 71 HORSE POWER CONTROLLER 22Kw		
78H-243-7110	A10VSO 71 CONTROL PISTON ASSEMBLY		
78H-243-7120	A10VSO 71 COUNTER PISTON ASSEMBLY		
78H-243-7135	A10VSO 71 BIAS SPRING		
78H-243-7630A	A10VSO 18 ~ 100 0.8 ORIFICE DFR ADAPTER		
78H-243-SL-M6	A10VSO 18 ~ 100 DOUBLE HEAD PLUG SL-M6 A6VM160		
78H-243-B6X18	A10VSO 18 ~ 100 COLUMN PIN B6x18 GB/T119		
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY			PAGE S 6

<u>Part Number</u>	PUMPS PISTON		RETAIL: 10-02-2025
	<u>A 10V 31 SERIES PISTON PUMP</u>		
	<u>A10VSO 100 SPARES</u>		
78H-244-3306C	A10VSO 100 SEAL KIT		
78H-A10V100-ROT	A10VSO 100 ROTATING GROUP ASSEMBLY 100cc		
78H-244-1101	A10VSO 100 CYLINDER BLOCK		
78H-244-2100C	A10VSO 100 PISTON		
78H-244-1201	A10VSO 100 BARREL WASHER		
78H-244-1301	A10VSO 100 COIL SPRING		
78H-244-1401	A10VSO 100 PRESS PIN		
78H-244-1501	A10VSO 100 SNAP RING		
78H-244-4102F	A10VSO 100 BALL GUIDE		
78H-244-4111	A10VSO 100 RETAINER PLATE		
78H-244-7103	A10VSO 100 HEAD BLOCK LEFT HAND METRIC		
78H-244-7102	A10VSO 100 HEAD BLOCK RIGHT HAND METRIC		
78H-244-3704	A10VSO 100 SHAFT BIG BEARING FRONT		
78H-244-3704A	A10VSO 100 SHAFT SMALL BEARING REAR		
78H-244-4401	A10VSO 100 VALVE PLATE RIGHT HAND		
78H-244-4501	A10VSO 100 VALVE PLATE LEFT HAND		
78H-244-5220	A10VSO 100 SWASH PLATE RIGHT HAND		
78H-244-5320	A10VSO 100 SWASH PLATE LEFT HAND		
78H-244-5251	A10VSO 100 SADDLE BEARING		
78H-244-7102B	A10VSO 100 HEAD BLOCK RIGHT HAND SAE SINGLE SIDE PORT 62 N00		
78H-244-7103B	A10VSO 100 HEAD BLOCK LEFT HAND SAE SINGLE SIDE PORT 62 N00		
78H-244-7102N	A10VSO 100 RIGHT HAND REAR COVER / THRU - DRIVE 4" 2 BOLT SAE SIDE PORT 62 (K04 / K68)		
78H-244-7102C	A10VSO 100 RIGHT HAND REAR COVER / THRU - DRIVE 5" 2 BOLT SAE SIDE PORT 62 (K07)		
78H-244-7103C	A10VSO 100 LEFT HAND REAR COVER / THRU - DRIVE 5" 2 BOLT SAE SIDE PORT 62 (K07)		
78H-244-3601	A10VSO 100 BILLET ADAPTOR 9 SPLINE K01		
78H-244-3601B	A10VSO 100 BILLET ADAPTOR 13 SPLINE K02 / K68		
78H-244-3601A	A10VSO 100 BILLET ADAPTOR 14 SPLINE K07		
78H-244-3601C	A10VSO 100 BILLET ADAPTOR 15 SPLINE K04		
78H-244-3101K	A10VSO 100 SHAFT 1-1/2" P / KEY TYPE K		
78H-244-3101D	A10VSO 100 SHAFT 1-1/2" P / THRU - DRIVE TYPE K		
78H-244-3201B	A10VSO 100 SHAFT 14 SPLINE TYPE U		
78H-244-3201D	A10VSO 100 SHAFT 14 SPLINE/THRU/D TYPE U		
78H-244-3201S	A10VSO 100 SHAFT 17 SPLINE TYPE S		
78H-244-3201	A10VSO 100 SHAFT 17 SPLINE / THRU - DRIVE TYPE S		
78H-240-7300	A10VSO 100 CONTROL VALVE DR		
78H-240-7200	A10VSO 100 CONTROL VALVE DFR		
78H-240-7400	A10VSO 100 CONTROL VALVE DFR1		
78H-240-72-DRG	A10VSO 100 CONTROL VALVE DRG		
78H-242-7800	A10VSO100 HORSE POWER CONTROLLER 30Kw		
78H-244-7110A	A10VSO 100 CONTROL PISTON ASSEMBLY		
78H-244-7120	A10VSO 100 COUNTER PISTON ASSEMBLY		
78H-244-7135	A10VSO 100 BIAS SPRING		
78H-244-7630A	A10VSO 18 ~ 100 0.8 ORIFICE DFR ADAPTER		
78H-244-SL-M6	A10VSO 18 ~ 100 DOUBLE HEAD PLUG SL-M6 A6VM160		
78H-244-B6X18	A10VSO 18 ~ 100 COLUMN PIN B6x18 GB/T119		
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY			PAGE S 7

Part Number	PUMPS PISTON		RETAIL: 10-02-2025
	<u>A 10V 31 SERIES PISTON PUMP</u>		
	<u>A10VSO 140 SPARES</u>		
78H-245-3306	A10VSO 140 SEAL KIT		
78H-A10V140-ROT	A10VSO 140 ROTATING GROUP ASSEMBLY 140cc		
78H-245-1101A	A10VSO 140 CYLINDER BLOCK		
78H-245-2100	A10VSO 140 PISTON		
78H-245-1201	A10VSO 140 BARREL WASHER		
78H-245-1301	A10VSO 140 COIL SPRING		
78H-245-1401	A10VSO 140 PRESS PIN		
78H-245-1501	A10VSO 140 SNAP RING		
78H-245-4102F	A10VSO 140 BALL GUIDE		
78H-245-4111	A10VSO 140 RETAINER PLATE		
78H-245-3704	A10VSO 140 SHAFT BIG BEARING FRONT		
78H-245-3704A	A10VSO 140 SHAFT SMALL BEARING REAR		
78H-245-4401	A10VSO 140 VALVE PLATE RIGHT HAND		
78H-245-4501	A10VSO 140 VALVE PLATE LEFT HAND		
78H-245-5220	A10VSO 140 SWASH PLATE RIGHT HAND		
78H-245-5320	A10VSO 140 SWASH PLATE LEFT HAND		
78H-245-5251	A10VSO 140 SADDLE BEARING		
78H-245-7102B	A10VSO 140 HEAD BLOCK RIGHT HAND SAE SINGLE SIDE PORT 62 N00		
78H-245-7103B	A10VSO 140 HEAD BLOCK LEFT HAND SAE SINGLE SIDE PORT 62 N00		
78H-245	A10VSO 140 RIGHT HAND REAR COVER / THRU - DRIVE 3-1/4" 2 BOLT SAE SIDE PORT 62 (K01 / K52)		
78H-245	A10VSO 140 LEFT HAND REAR COVER / THRU - DRIVE 3-1/4" 2 BOLT SAE SIDE PORT 62 (K01 / K52)		
78H-245-7102G	A10VSO 140 RIGHT HAND REAR COVER / THRU - DRIVE	4" 2 BOLT SAE SIDE PORT 62 (K04 / K68)	
78H-245	A10VSO 140 LEFT HAND REAR COVER / THRU - DRIVE	4" 2 BOLT SAE SIDE PORT 62 (K04 / K68)	
78H-245-7102H	A10VSO 140 RIGHT HAND REAR COVER / THRU - DRIVE	5" 2 BOLT SAE SIDE PORT 62 (K07)	
78H-245-7103H	A10VSO 140 LEFT HAND REAR COVER / THRU - DRIVE	5" 2 BOLT SAE SIDE PORT 62 (K07)	
78H-245-3601F	A10VSO 140 BILLET ADAPTOR 9 SPLINE K01		
78H-245-3601D	A10VSO 140 BILLET ADAPTOR 13 SPLINE	K02 / K68	
78H-245-3601B	A10VSO 140 BILLET ADAPTOR 14 SPLINE	K07	
78H-245-3601C	A10VSO 140 BILLET ADAPTOR 15 SPLINE	K04	
78H-245-3101K	A10VSO 140 SHAFT 1-3/4" P / KEY	TYPE K	
78H-245-3101D	A10VSO 140 SHAFT 1-3/4" P / THRU - DRIVE	TYPE K	
78H-245-3201	A10VSO 140 SHAFT 13 SPLINE	TYPE S	
78H-245-3201C	A10VSO 140 SHAFT 13 SPLINE / THRU - DRIVE	TYPE S	
78H-245-7300	A10VSO 140 CONTROL VALVE DR		
78H-245-7200	A10VSO 140 CONTROL VALVE DFR		
78H-245-7400	A10VSO 140 CONTROL VALVE DFR1		
78H-245-7110A	A10VSO 140 CONTROL PISTON ASSEMBLY		
78H-245-7120	A10VSO 140 COUNTER PISTON ASSEMBLY		
78H-245-7135	A10VSO 140 BIAS SPRING		
78H-245-7630A	A10VSO140 1.0 ORIFICE DFR ADAPTER		
78H-245-SL-M6	A10VSO 140 DOUBLE HEAD PLUG SL-M6 A6VM160		
78H-245-B8X20	A10VSO 140 COLUMN PIN B8x20 GB/T119		

Part Number	MOTORS GEROLOR TAK - BOK							RETAIL: 08-07-2025
<u>BMR - SERIES</u>								
COMPETITOR MODELS ; (OMR - DANFOSS) (BMR - ZHENJIANG) (S - CHAR - LYNN)								
Specs ; 25mm P/KEY SHAFT 3-1/4" SPIGOT 2 BOLT MOUNT & 1" SHAFT ON REQUEST								
	Type	cc/rev	Cont. Speed	Cont. flow	Cont. Press Drop	Cont. Torque	Cont. Kw	Rotor Height
79H-BMR-36P1	BMR	36	800 rpm	40 L	140 bar	70 Nm	7	8.0 mm
79H-BMR-50P1	BMR	50	775 rpm	60 L	140 bar	93 Nm	7	9.0 mm
79H-BMR-80P1	BMR	80	750 rpm	60 L	140 bar	152 Nm	10	14 mm
79H-BMR-100P1	BMR	100	475 rpm	60 L	140 bar	194 Nm	10	17.5 mm
79H-BMR-125P1	BMR	125	600 rpm	60 L	140 bar	237 Nm	10	22 mm
79H-BMR-160P1	BMR	160	470 rpm	60 L	140 bar	310 Nm	10	28 mm
79H-BMR-200P1	BMR	200	300 rpm	60 L	140 bar	369Nm	8	35 mm
79H-BMR-250P1	BMR	250	240 rpm	60 L	110 bar	380 Nm	6	44 mm
79H-BMR-315P1	BMR	315	190 rpm	60 L	90 bar	380 Nm	5	56 mm
79H-BMR-400P1	BMR	400	160 rpm	60 L	70 bar	380 Nm	4	70 mm
<u>BMR - SERIES</u>								
COMPETITOR MODELS ; (OMR - DANFOSS) (BMR - ZHENJIANG) (S - CHAR - LYNN)								
Specs ; 1" P/KEY SHAFT 1-3/4" SPIGOT 4 BOLT SQUARE MOUNT								
	Type	cc/rev	Cont. Speed	Cont. flow	Cont. Press Drop	Cont. Torque	Cont. Kw	Rotor Height
79H-BMR-36P3	BMR	36	800 rpm	40 L	140 bar	70 Nm	7	8.0 mm
79H-BMR-50P3	BMR	50	775 rpm	60 L	140 bar	93 Nm	7	9.0 mm
79H-BMR-80P3	BMR	80	750 rpm	60 L	140 bar	152 Nm	10	14 mm
79H-BMR-100P3	BMR	100	475 rpm	60 L	140 bar	194 Nm	10	17.5 mm
79H-BMR-125P3	BMR	125	600 rpm	60 L	140 bar	237 Nm	10	22 mm
79H-BMR-160P3	BMR	160	470 rpm	60 L	140 bar	310 Nm	10	28 mm
79H-BMR-200P3	BMR	200	300 rpm	60 L	140 bar	369Nm	8	35 mm
79H-BMR-250P3	BMR	250	240 rpm	60 L	110 bar	380 Nm	6	44 mm
79H-BMR-315P3	BMR	315	190 rpm	60 L	90 bar	380 Nm	5	56 mm
79H-BMR-400P3	BMR	400	160 rpm	60 L	70 bar	380 Nm	4	70 mm
63H-RVD-OMR-08	RVD-OMR 1/2" OMP / OMR CROSS OVER 1/2" PORT RELIEF							
63H-LHV-OMR-08	LHV-2-OMR 1/2" OMP / OMR DUAL ACTING OVERCENTRE 1/2" RELIEF VALVE							
79H-BMRXX-H2	4 BOLT MOUNT 6 SPLINE USE BMR-XXP1 A11Y10/T7 PRICE AND ADD							
79H-BMRSKAIT7	BMR SEAL KIT T7 FOR P1 / P3 BMR/SK/AII/T7 ID: 30 OD: 48 W: 7 3-1/4" SPIGOT 2 BOLT MOUNT							
79H-BMRSKC1T10	BMR SEAL KIT T10 FOR P3 BMR/SK/C1/T10 ID: 28 OD: 42 W: 5 1-3/4" SPIGOT 4 BOLT MOUNT							
<u>BMR - SERIES MOTOR DATA</u>								
	TYPE	SPIGOT	MOUNT	SHAFT	KEY WIDTH	PORTS	DRAIN	
79H-BMRXX-P1	BMR - SERIES	3-1/4"	2 BOLT	25mm P/K	8mm	1/2"BSPP	1/4"BSPP	
79H-BMRXX-P52	BMR - SERIES	3-1/4"	2 BOLT	32mm P/K	8mm	1/2"BSPP	1/4"BSPP	
79H-BMRXX-P3	BMR - SERIES	1-3/4"	4 BOLT	1" P/K	6,35mm	1/2"BSPP	1/4"BSPP	
79H-BMRXX-H2	BMR - SERIES	1-3/4"	4 BOLT	6 SPLINE	25 mm O/D	1/2"BSPP	1/4"BSPP	
  BMR-XXXXP1  RVD-OMP-OMR 1/2"  BMR-XXXXP3  LHV-2-OMP-OMR 1/2" BMR								
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY								PAGE T 1

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Part Number	MOTORS GEROLOR TAK - BOK							RETAIL:
								03-03-2026
	BM5 - SERIES							
	COMPETITOR MODELS ; (OMV - DANFOSS) (BMV - ZHENJIANG) (10 000 - CHAR-LYNN)							
	Specs ; 2-1/4" P/KEY SHAFT 5" SPIGOT 4 BOLT MOUNT							
	Type cc/rev	Cont. Speed	Cont. flow	Cont. Press Drop	Cont. Torque	Cont. Kw	Rotor Height	
79H-BM5U315P10	BM5U 315	10-475 rpm	150 litres	200 bar	873 Nm	32	19 mm	
79H-BM5U400P10	BM5U 400	9-375 rpm	150 litres	200 bar	1108 Nm	32	26 mm	
79H-BM5U500P10	BM5U 500	8-300 rpm	150 litres	200 bar	1385 Nm	32	34 mm	
79H-BM5U630P10	BM5U 630	6-315 rpm	150 litres	200 bar	1570 Nm	40	44 mm	
	BM5 - SERIES MOTOR DATA							
	TYPE	SPIGOT	MOUNT	SHAFT	KEY WIDTH	PORTS	DRAIN	
79H-BM5UXX-P10	BM5U - SERIES	5"	4 BOLT	2-1/4" P/K	12,7mm	1" SAE "O"	3/8" SAE "O"	
79H-BM5U-SK	BM5 SEAL KIT							
	TKRE - SERIES							
	COMPETITOR MODELS; (TKRE-TAK-BOK) (BMRE - ZHENJIANG) (TG - PARKER) (RE - 5001 WHITE)							
	SPECS ; 1-1/4" P/K SHAFT 3-1/4" SPIGOT 4 BOLT MAGNETO MOUNT NO CASE DRAIN							
	Type cc/rev	Cont. Speed	Cont. flow	Cont. Press Drop	Cont. Torque	Cont. Kw	Rotor Height	
79H-TKRE-125G2	TKRE 125	360 rpm	60 litres	205 bar	325 Nm	12	10.2 mm	
79H-TKRE-160G2	TKRE 160	375 rpm	60 litres	205 bar	450 Nm	15	13.5 mm	
79H-TKRE-200G2	TKRE 200	330 rpm	60 litres	205 bar	530 Nm	15.5	17.0 mm	
79H-TKRE-250G2	TKRE 250	290 rpm	60 litres	205 bar	700 Nm	17.5	22.0 mm	
79H-TKRE-300G2	TKRE 300	250 rpm	60 litres	205 bar	810 Nm	18	25.4 mm	
79H-TKRE-350G2	TKRE 350	220 rpm	60 litres	205 bar	905 Nm	17.5	29.4 mm	
79H-TKRE-375G2	TKRE 375	200 rpm	60 litres	205 bar	990 Nm	16.5	31.8 mm	
79H-TKRE-475G2	TKRE 475	160 rpm	60 litres	175 bar	1085 Nm	14.5	39.4 mm	
79H-TKRE-S-KIT	TKRE SEAL KIT							
79H-TKRE-01K14	TKRE 14 SPLINE SHAFT ONLY							
	TKRE - SERIES MOTOR DATA							
	TYPE	SPIGOT	MOUNT	SHAFT	KEY WIDTH	PORTS	DRAIN	
79H-TKREXXG2	TKRE -SERIES	3-1/4"	4 BOLT	1-1/4" P/K		1/2"BSPP	NONE	
79H-TKREXXRW	TKRE -SERIES	3-1/4"	4 BOLT	1" P/K		1/2"BSPP	NONE	
79H-TKREXXFD1	TKRE -SERIES	3-1/4"	4 BOLT	14 SPLINE		1/2"BSPP	NONE	
	USEFUL DATA							
	CODE; TKRE 200 = (196cc = 12cu.in)			CODE; TKRE 230 = (228cc = 14cu.in)				
	CODE; TKRE 250 = (257cc = 16cu.in)			CODE; TKRE 300 = (296cc = 18cu.in)				
	CODE; TKRE 350 = (345cc = 20cu.in)			CODE; TKRE 375 = (371cc = 24cu.in)				
	CODE; TKRE 475 = (462cc = 26cu.in)			CODE; TKRE 540 = (540cc = 32cu.in)				
	CODE; TKRE 750 = (745cc = 48cu.in)							

BM5U-XXXP10



TKRE-XXG2



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Part Number	MOTORS GEROLOR TAK - BOK							RETAIL:
								10-04-2024
BMM - SERIES								
COMPETITOR MODELS ; (OMM - DANFOSS) (BMM - ZHENJIANG) (J - CHAR-LYNN)								
Specs ; 16mm P/KEY SHAFT 3-1/4" 2 BOLT FLANGE 63mm SPIGOT REAR PORTS								
	Type cc/rev	Cont. Speed	Cont. flow	Cont. Press Drop	Cont. Torque	Cont. Kw	Rotor Height	
79H-BMM-08P1Y	BMM 08	1950 rpm	16 L	100 bar	16 Nm	1.8	3.5 mm	
79H-BMM-12P1Y	BMM 12	1550 rpm	20 L	100 bar	16 Nm	2.4	5.5 mm	
79H-BMM-20P1Y	BMM 20	1000 rpm	20 L	100 bar	25 Nm	2.4	8.5 mm	
79H-BMM-32P1Y	BMM 32	630 rpm	20 L	100 bar	40 Nm	2.4	13.5 mm	
79H-BMM-40P1Y	BMM 40	500 rpm	20 L	90 bar	45 Nm	2.2	17.0 mm	
79H-BMM-50P1Y	BMM 50	400 rpm	20 L	70 bar	46 Nm	1.8	21.5 mm	
BMM - SERIES MOTOR DATA								
	TYPE	SPIGOT	MOUNT	SHAFT	KEY WIDTH	PORTS	DRAIN	
79H-BMM-XXP1Y	BMM - SERIES	3-1/4" (63mm)	2 BOLT	16mm P/K	5mm	3/8"BSPP REAR	1/8" BSPP	
79H-BMM-XXP1S	BMM - SERIES	3-1/4" (63mm)	2 BOLT	16mm P/K	5mm	3/8"BSPP SIDE	1/8" BSPP	
79H-BMM-XXK1Y	BMM - SERIES	3-1/4" (63mm)	2 BOLT	9 SPLINE		3/8"BSPP REAR	1/8" BSPP	
79H-BMM-XXK1S	BMM - SERIES	3-1/4" (63mm)	2 BOLT	9 SPLINE		3/8"BSPP SIDE	1/8" BSPP	
JMGD - SERIES								
COMPETITOR MODELS ;								
Specs ; 38mm P/KEY SHAFT 190mm SPIGOT 5 BOLT FLANGE SIDE PORTS								
	Type cc/rev	Speed	Cont. flow	Cont. Press Drop	Cont. Torque	Cont. Kw		
79H-JMDG3-300B	JMGB 289	30-350 rpm	105 L	140 bar	720 Nm	32		
JMGD- SERIES MOTOR DATA								
	TYPE	SPIGOT	MOUNT	SHAFT	KEY WIDTH	PORTS	DRAIN	
79H-JMDG3-XXB	JMGD - SERIES	190mm	5 BOLT	38mm P/K	10mm	3/4"BSPP SIDE	3/8" BSPP	
BMM-XXXP1  JMDG-XXXB 								
PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY								
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Part Number	MOTORS BENT AXIAL PISTON TAK - BOK					RETAIL:
						29-05-2025
	<u>A2FM - SERIES</u>					
	SHAFT 25mm P/KEY SPIGOT 80mm MOUNT 4 BOLT SIDE PORTS M14 x 1.5 CASE DRAIN					
	DESCRIPTION:	cc / rev:	METRIC PORTS:	ROTATION	W/P:	
79H-A2FM12BB30	A2FM 12 BENT AXIAL	12cc per rev	M22 x 1.5	B / I	400 BAR	
79H-A2FM16BB30	A2FM 16 BENT AXIAL	16cc per rev	M22 x 1.5	B / I	400 BAR	
	SHAFT 30mm P/KEY SPIGOT 100mm MOUNT 4 BOLT SIDE PORTS M18 x 1.5 CASE DRAIN					
	DESCRIPTION:	cc / rev:	SAE FLANGE PORTS:	ROTATION	W/P:	
79H-A2FM23BB20	A2FM 23 BENT AXIAL	23cc per rev	1/2" 6000	B / I	400 BAR	
79H-A2FM28BB20	A2FM 28 BENT AXIAL	28cc per rev	1/2" 6000	B / I	400 BAR	
	TECHNICAL DATA					
	TYPE	A2FM 12	A2FM 16	A2FM 23	A2FM 28	
	CC / REV	12	16	22.9	28.1	
	WORKING / P	400 BAR	400 BAR	400 BAR	400 BAR	
	MAX / P	450 BAR	450 BAR	450 BAR	450 BAR	
	MAX / RPM	8000	8000	6300	6300	
	LITRES / M	96	128	144	177	
	FITTINGS TO MATCH A2FM MOTORS					
	A2FM 12 & A2FM 16					
54P-1JH-08-22	JICM X METM-08-22MM 8JM-22MM 1/2" JIC MALE X 22MM METRIC MALE STRAIGHT ADAPTOR					
51P-26711-08-08	JICF-08-08 X12JF08 1/2" JIC FEMALE STRAIGHT HOSE END					
51P-26791-08-08	JICF9-08-08 X12J90F08 1/2" JIC FEMALE 90° HOSE END					
	A2FM 23 & A2FM 28					
54P-SGF6-08G08	SAE 6000 PORT ADAPTOR 1/2" BSPP 1/2" SAE 'O' RING FLANGE TO 1/2" BSPP FEMALE					
						
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY					PAGE T 5

Part Number	MOTORS GEROLOR TAK - BOK SHAFTS	10-04-2024
	SHAFT ONLY	
79H-BMR-SH-P1	BMR SHAFT P1 / T10 - 25 mm PARALLEL KEY, 8 x 7 x 32 (HIRSCH POPULAR ONE).	
79H-BMR-SH-P3	BMR SHAFT P3 - 25.4 mm PARALLEL KEY SHAFT IMPERIAL ONLY 6.35 x 6.35 x 32	
79H-BMR-SH-P52	BMR SHAFT P52 - 32 mm P/KEY, 10x8x45 (3mm LONGER THAN P5 SHAFT) REPLACES P5 SHAFT	
79H-BMR-SH-H3	BMR SHAFT H3 - 25.4 mm 6 SPLINED SHAFT IMPERIAL, 6-25.4 x 21.4 x 6.2	
79H-BM3-SH-P5	BM3 SHAFT 1-1/4" P/KEY TYPE FOR 80cc & 100cc WITH NUT (40mm OD BEARING) M36 x 1.5 THREAD	
79H-BM3-SH-K10	BM3 14 TOOTH SPLINED SHAFT FOR 80cc & 100cc WITH NUT (40mm OD BEARING) M40 x 1.5 THREAD	
79H-BM3-SH-K3	SPECIAL - BM3 SPLINED SHAFT 1-1/4" 14 TEETH FOR 80cc & 100cc WITH NUT (40mm OD BEARING)	
79H-BM3Y-SH-P5	BM3Y SHAFT 1-1/4" P/KEY FOR 125cc - 500cc WITH NUT (45mm OD BEARING) M42 x 1.5 THREAD	
79H-BM3Y-SH-K3	BM3Y SPLINED SHAFT 1-1/4" 14 TEETH FOR 125cc - 500cc WITH NUT (45mm OD) M42 x 1.5 THREAD	
79H-BM3Y-SH-K13	SPECIAL - BM3Y SPLINED SHAFT 1-1/4" 14 TEETH FOR 125cc - 500cc (BM3Y K13) WITH NUT (45mm OD)	
	KEY ONLY	
79H-BMM-KEY-P1	BMM SHAFT KEY P1 5 X 5 X 16	
79H-BMR-KEY-P1	BMR SHAFT KEY P1 8 X 7 X 32	
79H-BMR-KEY-P3	BMR SHAFT KEY P3 6.35 X 6.35 X 32	
79H-BMR-KEY-P5	BMR SHAFT KEY P5 10 x 8 x 45	
79H-BMR-KEY-P52	BMR SHAFT KEY P52 10 x 8 x 45	
79H-BM3Y-KEY-P5	BM3Y SHAFT KEY P5 7.96 X 7.96 X 32	
79H-BM4U-KEY-P3	BM4U SHAFT KEY P3 12 X 8 X 70	
79H-BM4EKEY-P13	BM4E SHAFT KEY P13 7.96 X 7.96 X 36 (changed IT WAS 7.96 X 7.96 X 38)	
79H-BM5UKEY-P10	BM5U SHAFT KEY P10 12.7 X 12.7 X 57	
	BEARING SET	
79H-BMM-SB-P1	BEARING SET BMM-31*17*7 = QTY/set x 1	
79H-BMR-SB-P1	BEARING BMR-30*62*16(C2) + RETAINER RING A-30*1.2	
79H-BMR-SB-P3	BEARING BMR-30*62*16(C2) + RETAINER RING A-30*1.2	
79H-BMR-SB-H3	BEARING BMR-30*62*16(C2) + RETAINER RING A-30*1.2	
79H-BMR-SB-P5	BEARING BMR-35*62*14 + RETAINER RING A-35*1.5	
79H-BMR-SB-P52	BEARING BMR-35*62*14 + RETAINER RING A-35*1.5	
79H-BM3-SB-K10	Bearing BM3-40*68*19X2 + Lock nut BMRW1-11 + Space ring BM3-21	
79H-BM3-SB-K3	Bearing BM3-40*68*19X2 + Lock nut BMRW1-11 + Space ring BM3-21	
79H-BM3-SB-P5	Bearing BM3-40*68*19X2 + Lock nut BMRW1-11 + Space ring BM3-21	
79H-BM3Y-SB-P5	Bearing BM3Y-45*68*15X2 + Lock nut BM3Y-17 + Space ring BM3Y-21	
79H-BM3Y-SB-K3	Bearing BM3Y-45*68*15X2 + Lock nut BM3Y-17 + Space ring BM3Y-21	
79H-BM3Y-SB-K13	Bearing BM3Y-45*68*15X2 + Lock nut BM3Y-17 + Space ring BM3Y-21	
79H-BM4U-SB-P3	Bearing BM4-55*90*23X2 + Lock nut BM4020 + Space ring BM4021	
79H-BM4E-SB-P13	Bearing BM4-55*90*23X2 + Lock nut BM4020 + Space ring BM4021	
79H-BM5U-SB-P10	Bearing BM5-65*100*23X2 + Lock nut BM5020 + Space ring BM5021	
		
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Part Number	STEERING UNITS					RETAIL:
						28-01-2026
	BPBSI - HKUS / 4 SERIES					
	OPEN CENTRE NON LOAD REACTIVE					
	RELIEF VALVE ON P PORT (150 Bar)					
	COMPETITOR MODELS ; DANFOSS (OSPC***ON ; OSPB***ON) M&S (HKUS***/4 ; HKU***/4)					
	HKUS / 4 SERIES	DISPLACEMENT	MAX INPUT	MAIN PRESSURE SET	ROTOR HEIGHT	
80H-BPBS1-50	HKUS 50 / 4 / A	49.5cc per rev	6 LPM	150 bar	6.6 mm	
80H-BPBS1-63	HKUS 63 / 4 / A	65.5cc per rev	6 LPM	150 bar	9.7 mm	
80H-BPBS1-80	HKUS 80 / 4 / A	79.2cc per rev	9 LPM	150 bar	10.5 mm	
80H-BPBS1-100	HKUS 100 / 4 / A	99.0cc per rev	9 LPM	150 bar	13.0 mm	
80H-BPBS1-125	HKUS 125 / 4 / A	123.8cc per rev	12 LPM	150 bar	16.0 mm	
80H-BPBS1-160	HKUS 160 / 4 / A	158.4cc per rev	12 LPM	150 bar	21.0 mm	
80H-BPBS1-200	HKUS 200 / 4 / A	198.0cc per rev	17 LPM	150 bar	26.0 mm	
80H-BPBS1-250	HKUS 250 / 4 / A	247.5cc per rev	24 LPM	150 bar	32.0 mm	
80H-BPBS1-280	HKUS 280 / 4 / A	280.0cc per rev	28 LPM	150 bar	37.0 mm	
80H-BPBS1-315	HKUS 315 / 4 / A	320.5cc per rev	30 LPM	150 bar	42.0 mm	
80H-BPBS1-400	HKUS 400 / 4 / A	400.5cc per rev	40 LPM	150 bar	52.0 mm	
80H-BPBSEALKIT	HKU SEAL KIT					
	STEER WHEEL COLUMN					
	ACI SERIES					
80H-ACI-0075	STEER WHEEL COLUMN LENGTH 75 mm					
80H-ACI-0150	STEER WHEEL COLUMN LENGTH 150 mm					
80H-ACI-0200	STEER WHEEL COLUMN LENGTH 200 mm					
80H-ACI-0400	STEER WHEEL COLUMN LENGTH 400 mm					
80H-ACI-0750	STEER WHEEL COLUMN LENGTH 750 mm					
	STEER WHEEL					
	AV SERIES					
80H-AV003200	STEER WHEEL 350 OD mm TO FIT ACI COLUMN					
80H-AT004700	STEER WHEEL CAP					
						
	PORTS:					
	P + T 1/2" SAE "O"					
	L + R 1/2" SAE "O"					
	MOUNTING THREADS					
	MOUNTING TO COLUMN 4 X 3/8 - 16 UNC					
	MOUNTING TO R/V BLOCK 2 X 3/8 - 24 UNF					
	POSSIBLE OPTIONS					
	HKU NO RELIEF VALVES					
	HKUS RELIEF VALVES BUILT IN					
	4 OPEN CENTER					
	4 A OPEN CENTER					
	5 T CLOSED CENTER LOAD SENSE					
	7 A CLOSED CENTER					
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY					PAGE U 1

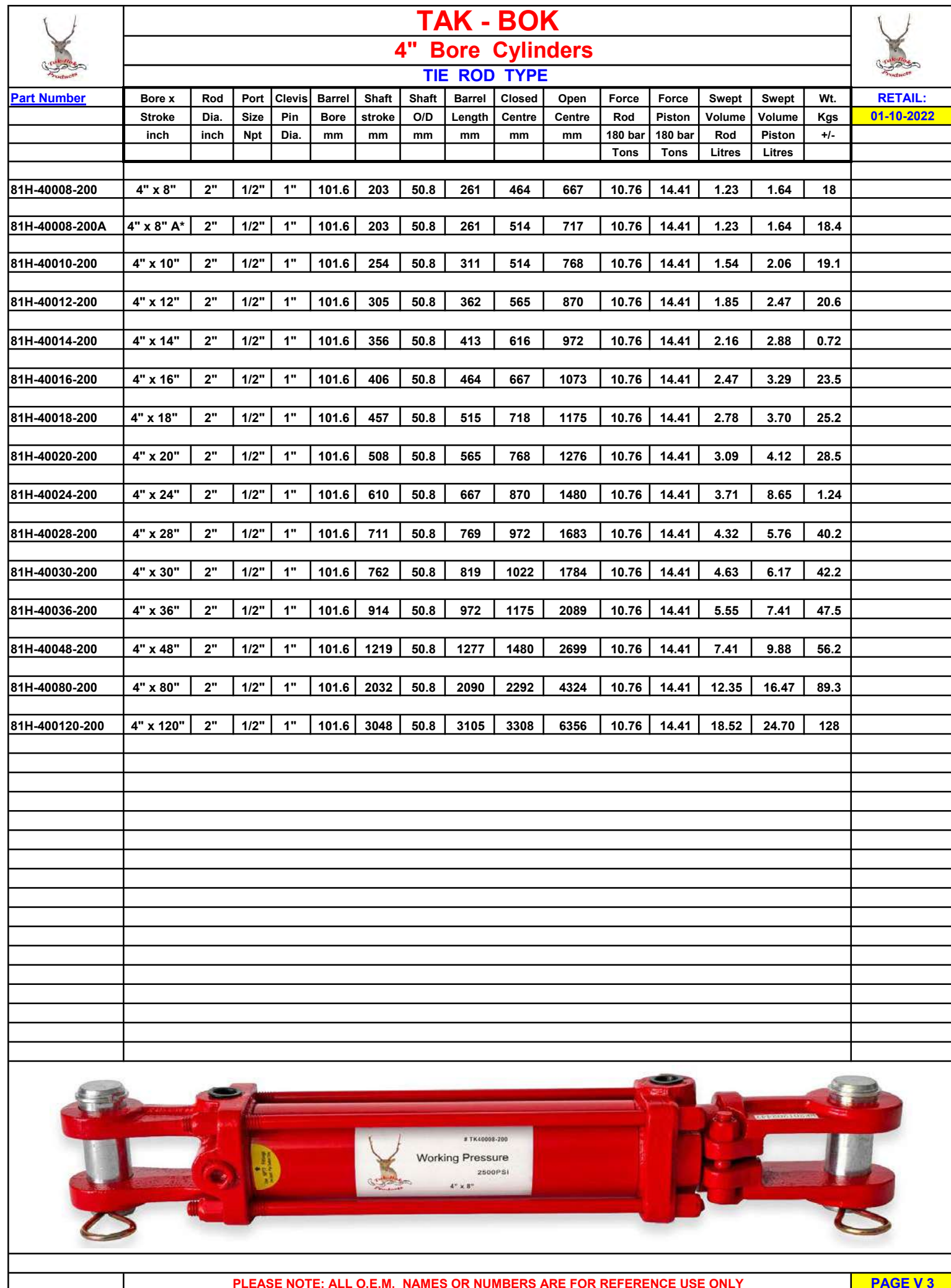
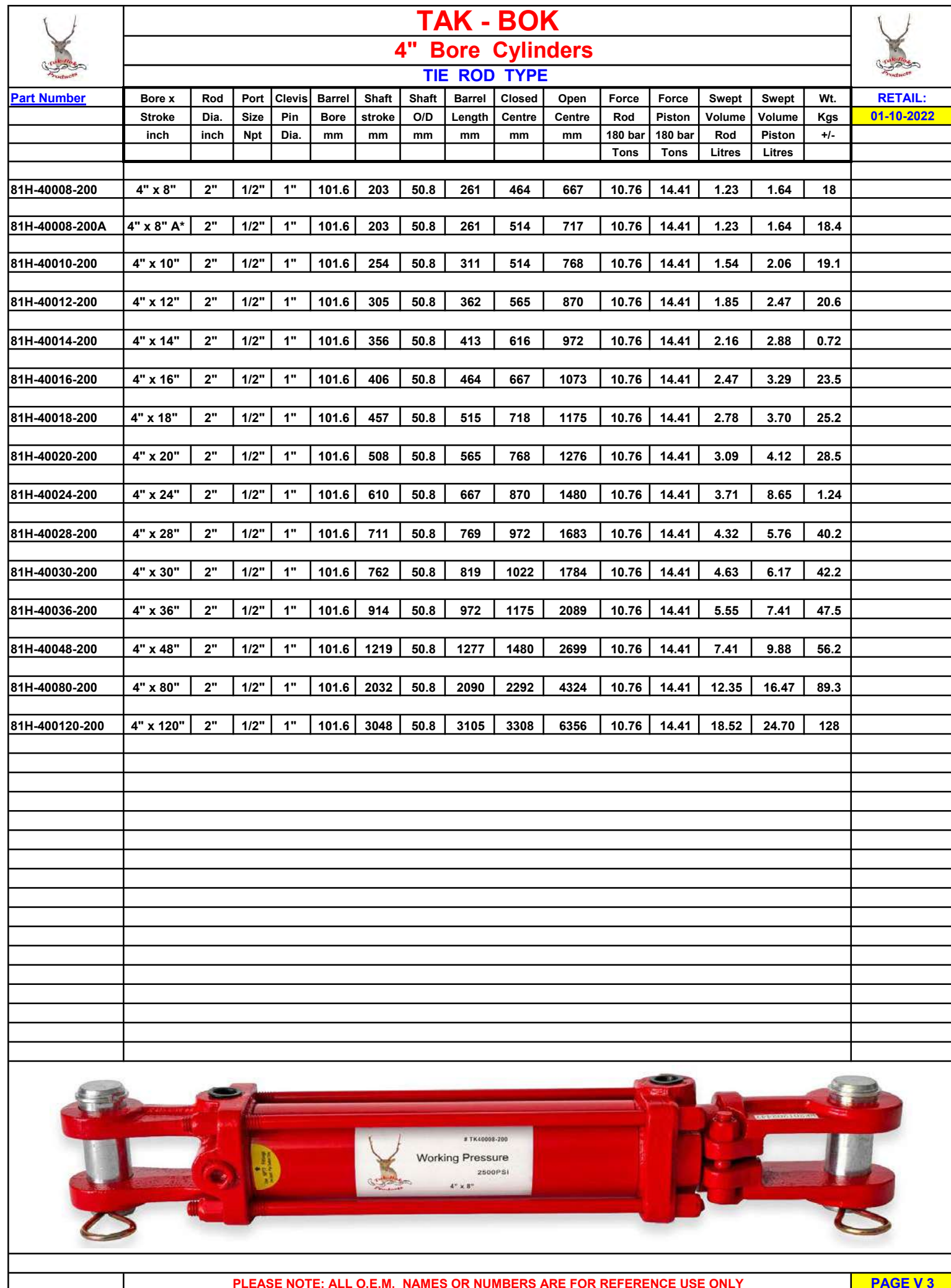
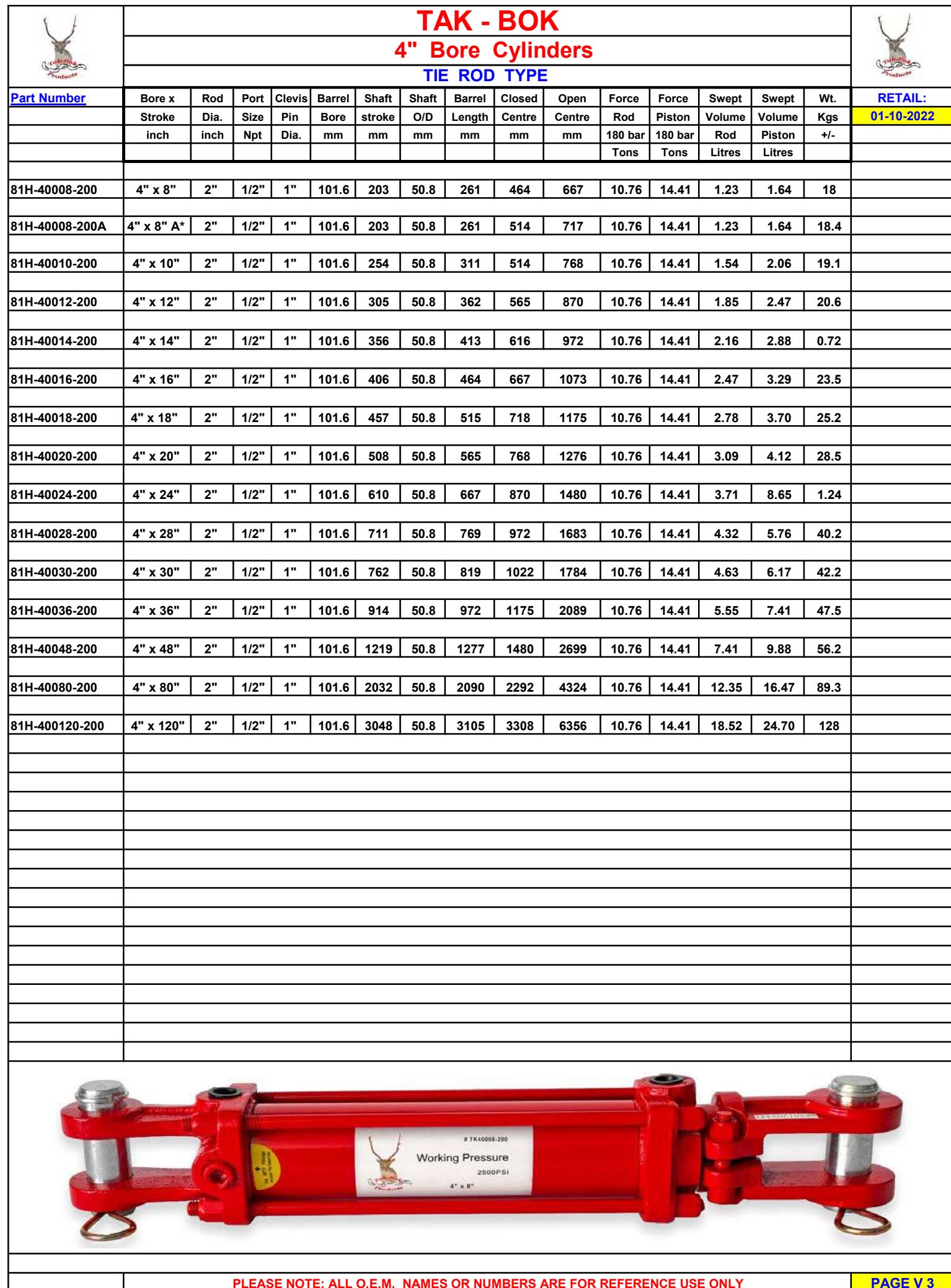
Part Number	STEERING UNITS					RETAIL:
						10-04-2024
	<u>BPBS5T - HKUS / 5 T SERIES</u>					
	CLOSED CENTRE NON LOAD REACTIVE LOAD SENSING					
	RELIEF VALVE ON LS LINE (150Bar) AND SHOCK VALES ON L & R (200Bar)					
	COMPETITOR MODELS ; DANFOSS (OSPB***LS) M&S (HKUS***/5T)					
	<u>HKUS / 5 T SERIES</u>	<u>DISPLACEMENT</u>	<u>MAX INPUT</u>	<u>MAIN PRESSURE SET</u>	<u>ROTOR HEIGHT</u>	
80H-BPBS5T-50	HKUS 50 / 5 / T	49.5cc per rev	6 LPM	150 bar	6.6 mm	
80H-BPBS5T-63	HKUS 63 / 5 / T	65.5cc per rev	6 LPM	150 bar	9.7 mm	
80H-BPBS5T-80	HKUS 80 / 5 / T	79.2cc per rev	9 LPM	150 bar	10.5 mm	
80H-BPBS5T-100	HKUS 100 / 5 / T	99.0cc per rev	9 LPM	150 bar	13.0 mm	
80H-BPBS5T-125	HKUS 125 / 5 / T	123.8cc per rev	12 LPM	150 bar	16.0 mm	
80H-BPBS5T-160	HKUS 160 / 5 / T	158.4cc per rev	12 LPM	150 bar	21.0 mm	
80H-BPBS5T-200	HKUS 200 / 5 / T	198.0cc per rev	17 LPM	150 bar	26.0 mm	
80H-BPBS5T-250	HKUS 250 / 5 / T	247.5cc per rev	24 LPM	150 bar	32.0 mm	
80H-BPBS5T-280	HKUS 280 / 5 / T	280.0cc per rev	28 LPM	150 bar	37.0 mm	
80H-BPBS5T-315	HKUS 315 / 5 / T	320.5cc per rev	30 LPM	150 bar	42.0 mm	
80H-BPBS5T-400	HKUS 400 / 5 / T	400.5cc per rev	40 LPM	150 bar	52.0 mm	
80H-BPBS5T-500	HKUS 500 / 5 / T	495.0cc per rev	53 LPM	160 bar	65.0 mm	
80H-BPBS5T-630	HKUS 630 / 5 / T	618.8cc per rev	63 LPM	140 bar	84.0 mm	
80H-BPBS5T-800	HKUS 800 / 5 / T	800.8cc per rev	63 LPM	140 bar	104.0 mm	
80H-BPBSEALKIT	HKU SEAL KIT					
80H-564V115003	BKH 1 MAIN RELIEF + CROSS OVER PORT RELIEFS					
80H-564V300012	BKH 3 PORT RELIEFS ONLY					
	<u>BPB3 - HKU / 7 SERIES</u>					
	CLOSED CENTRE NON LOAD REACTIVE					
	NO RELIEF ON P SHOCK VALES ON L & R (200Bar)					
	COMPETITOR MODELS ; DANFOSS (OSPB***CN) M&S (HKUS***/7)					
	<u>HKUS / 7 / A SERIES</u>	<u>DISPLACEMENT</u>	<u>MAX INPUT</u>	<u>MAIN PRESSURE SET</u>	<u>ROTOR HEIGHT</u>	
80H-BPB3-50-Y4	HKUS 50 / 7 / A	49.5cc per rev	6 LPM	150 bar	6.6 mm	
80H-BPB3-63-Y4	HKUS 63 / 7 / A	65.5cc per rev	6 LPM	150 bar	9.7 mm	
80H-BPB3-80-Y4	HKUS 80 / 7 / A	79.2cc per rev	9 LPM	150 bar	10.5 mm	
80H-BPB3-100-Y4	HKUS 100 / 7 / A	99.0cc per rev	9 LPM	150 bar	13.0 mm	
80H-BPB3-125-Y4	HKUS 125 / 7 / A	123.8cc per rev	12 LPM	150 bar	16.0 mm	
80H-BPB3-160-Y4	HKUS 160 / 7 / A	158.4cc per rev	12 LPM	150 bar	21.0 mm	
80H-BPB3-200-Y4	HKUS 200 / 7 / A	198.0cc per rev	17 LPM	150 bar	26.0 mm	
80H-BPB3-250-Y4	HKUS 250 / 7 / A	247.5cc per rev	24 LPM	150 bar	32.0 mm	
80H-BPB3-280-Y4	HKUS 280 / 7 / A	280.0cc per rev	28 LPM	150 bar	37.0 mm	
80H-BPB3-315-Y4	HKUS 315 / 7 / A	320.5cc per rev	30 LPM	150 bar	42.0 mm	
80H-BPB3-400-Y4	HKUS 400 / 7 / A	400.5cc per rev	40 LPM	150 bar	52.0 mm	
80H-BPB3-500-Y4	HKUS 500 / 7 / A	495.0cc per rev	53 LPM	160 bar	65.0 mm	
80H-BPB3-630-Y4	HKUS 630 / 7 / A	618.8cc per rev	63 LPM	140 bar	84.0 mm	
80H-BPB3-800-Y4	HKUS 800 / 7 / A	800.8cc per rev	63 LPM	140 bar	104.0 mm	
80H-BPBSEALKIT	HKU SEAL KIT					
	<u>PORTS:</u>					
	P + T 1/2" S A E "O"					
	L + R 1/2" S A E "O"					
	LS 1/4" S A E "O"					
	<u>MOUNTING THREADS</u>					
	MOUNTING TO COLUMN 4 X 3/8 - 16 UNC					
	MOUNTING TO R/V BLOCK 2 X 3/8 - 24 UNF					
	<u>POSSIBLE OPTIONS</u>					
	HKU NO RELIEF VALVES					
	HKUS RELIEF VALVES BUILT IN					
	4 OPEN CENTER					
	4 A OPEN CENTER					
	5 T CLOSED CENTER LOAD SENSE					
	7 A CLOSED CENTER					
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY					PAGE U 2



TIE ROD TYPE

	TAK - BOK															
	3" Bore Cylinders															
	TIE ROD TYPE															
Part Number	Bore x	Rod	Port	Clevis	Barrel	Shaft	Shaft	Barrel	Closed	Open	Force	Force	Swept	Swept	Wt.	RETAIL:
	Stroke	Dia.	Size	Pin	Bore	stroke	O/D	Length	Centre	Centre	Rod	Piston	Volume	Volume	Kgs	01-10-2022
	inch	inch	Npt	Dia.	mm	mm	mm	mm	mm	mm	180 bar	180 bar	Rod	Piston	+/-	
											Tons	Tons	Litres	Litres		
81H-30006-125	3" x 6"	1-1/4"	1/2"	1"	76.2	152	31.75	210	413	565	6.74	8.16	0.57	0.69	10.1	
81H-30008-125	3" x 8"	1-1/4"	1/2"	1"	76.2	203	31.75	261	464	667	6.74	8.16	0.76	0.93	11	
81H-30008-150	3" x 8"	1-1/2"	1/2"	1"	76.2	203	38.1	261	464	667	6.11	8.16	0.69	0.93	12.1	
81H-30008-125A	3" x 8" A*	1-1/4"	1/2"	1"	76.2	203	31.75	261	514	717	6.74	8.16	0.76	0.93	11.3	
81H-30008-150A	3" x 8" A*	1-1/2"	1/2"	1"	76.2	203	38.1	261	514	717	6.11	8.16	0.69	0.93	12.4	
81H-30010-125	3" x 10"	1-1/4"	1/2"	1"	76.2	254	31.75	311	514	768	6.74	8.16	0.96	1.16	13.7	
81H-30010-150	3" x 10"	1-1/2"	1/2"	1"	76.2	254	38.1	311	514	768	6.11	8.16	0.87	1.16	15	
81H-30012-125	3" x 12"	1-1/4"	1/2"	1"	76.2	305	31.75	362	565	870	6.74	8.16	1.15	1.39	12.8	
81H-30012-150	3" x 12"	1-1/2"	1/2"	1"	76.2	305	38.1	362	565	870	6.11	8.16	1.04	1.39	14	
81H-30014-125	3" x 14"	1-1/4"	1/2"	1"	76.2	356	31.75	413	616	972	6.74	8.16	1.34	1.62	13.7	
81H-30014-150	3" x 14"	1-1/2"	1/2"	1"	76.2	356	38.1	413	616	972	6.11	8.16	1.22	1.62	15.1	
81H-30016-125	3" x 16"	1-1/4"	1/2"	1"	76.2	406	31.75	464	667	1073	6.74	8.16	1.53	1.85	14.8	
81H-30016-150	3" x 16"	1-1/2"	1/2"	1"	76.2	406	38.1	464	667	1073	6.11	8.16	1.39	1.85	16.3	
81H-30018-125	3" x 18"	1-1/4"	1/2"	1"	76.2	457	31.75	515	718	1175	6.74	8.16	1.72	2.08	15.8	
81H-30018-150	3" x 18"	1-1/2"	1/2"	1"	76.2	457	38.1	515	718	1175	6.11	8.16	1.56	2.08	17.4	
81H-30020-125	3" x 20"	1-1/4"	1/2"	1"	76.2	508	31.75	565	768	1276	6.74	8.16	1.91	2.32	16.8	
81H-30020-150	3" x 20"	1-1/2"	1/2"	1"	76.2	508	38.1	565	768	1276	6.11	8.16	1.74	2.32	18.5	
81H-30024-150	3" x 24"	1-1/2"	1/2"	1"	76.2	610	38.1	667	870	1480	6.11	8.16	2.09	2.78	21	
81H-30028-150	3" x 28"	1-1/2"	1/2"	1"	76.2	711	38.1	769	972	1683	6.11	8.16	2.43	3.24	23.6	
81H-30030-150	3" x 30"	1-1/2"	1/2"	1"	76.2	762	38.1	819	1022	1784	6.11	8.16	2.60	3.47	24.43	
81H-30036-150	3" x 36"	1-1/2"	1/2"	1"	76.2	914	38.1	972	1175	2089	6.11	8.16	3.12	4.17	28.2	
81H-30048-150	3" x 48"	1-1/2"	1/2"	1"	76.2	1219	38.1	1277	1480	2699	6.11	8.16	4.17	5.56	43.2	
81H-30080-150	3" x 80"	1-1/2"	1/2"	1"	76.2	2032	38.1	2090	2292	4324	6.11	8.16	6.95	9.26	52	
81H-30120-150	3" x 120"	1-1/2"	1/2"	1"	76.2	3048	38.1	3105	3308	6356	6.11	8.16	10.42	13.89	75	



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	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY	PAGE V 3

	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY	PAGE V 3

	TAK - BOK		
	CYLINDER SPARES		
	TIE ROD TYPE		
Part Number		RETAIL:	
	<u>DESCRIPTION FOR ; 2" SPARES</u>	01-10-2022	
81H-20-SKIT-NWO	2" SEAL KIT ; "O" RING DESIGN ; FOR SHAFT 1-1/16"		
81H-20-SKIT-NBU	2" SEAL KIT ; U SEAL DESIGN ; FOR SHAFT 1-1/16"		
81H-20-56891	2" ROD CLEVIS 1-1/16" OD SHAFT ; THREAD 1-1/16"- UNF		
81H-20-040001	2" ROD CLEVIS 1-1/16" OD SHAFT ; LOCKING SCREW TYPE 80" - 120" STROKE		
81H-A03-20A0C0	LOCKING SCREW FOR CLEVIS FOR 2" 3" 4"		
81H-N600001-2	LOCKING SCREW NYLON BLOCK FOR CLEVIS FOR 2" 3" 4"		
81H-20-59626	2" ROD CLEVIS PIN ; 1" OD		
81H-20-63512	2" R CLIP FOR PIN ; 1" OD		
81H-20-62538	2" HEAD ROD CAP ; "O" RING DESIGN ; FOR SHAFT 1-1/16"		
81H-20-62538NBU	2" HEAD ROD CAP ; U SEAL DESIGN ; FOR SHAFT 1-1/16"		
81H-20-59842	2" BASE BOTTOM CLEVIS 2 PORTS 3/8" NPT		
81H-20-59847	2" PISTON		
81H-20-P-NUT	2" PISTON NUT		
	<u>DESCRIPTION FOR ; 3" SPARES</u>		
81H-30-SKIT-NWO	3" SEAL KIT ; "O" RING DESIGN ; FOR SHAFT 1-1/4"		
81H-30-SKIT-NBO	3" SEAL KIT ; "O" RING DESIGN ; FOR SHAFT 1-1/2"		
81H-30-SKIT-NWU	3" SEAL KIT ; U SEAL DESIGN ; FOR SHAFT 1-1/4"		
81H-30-SKIT-NBU	3" SEAL KIT ; U SEAL DESIGN ; FOR SHAFT 1-1/2"		
81H-30-56892	3" ROD CLEVIS 1-1/4" & 1-1/2" OD SHAFT ; THREAD 1-1/4"- UNF; FOR BOTH SHAFT O/D		
81H-3040-040001	3" AND 4" ROD CLEVIS 1-1/2" & 2" OD SHAFT ; LOCKING SCREW 80" - 120" STROKE		
81H-A03-20A0C0	LOCKING SCREW FOR CLEVIS FOR 2" 3" 4"		
81H-N600001-2	LOCKING SCREW NYLON BLOCK FOR CLEVIS FOR 2" 3" 4"		
81H-30-59626	3" ROD CLEVIS PIN ; 1" OD		
81H-30-63512	3" R CLIP FOR PIN ; 1" OD		
81H-30-62541	3" HEAD ROD CAP ; "O" RING DESIGN ; FOR SHAFT 1-1/4"		
81H-30-62542	3" HEAD ROD CAP ; "O" RING DESIGN ; FOR SHAFT 1-12"		
81H-30-62541-NB	3" HEAD ROD CAP ; U SEAL DESIGN ; FOR SHAFT 1-1/4"		
81H-30-62542-NB	3" HEAD ROD CAP ; U SEAL DESIGN ; FOR SHAFT 1-1/2"		
81H-30-59844	3" BASE BOTTOM CLEVIS 2 PORTS 1/2" NPT		
81H-30-59849	3" PISTON		
81H-30-P-NUT	3" PISTON NUT		
	<u>DESCRIPTION FOR ; 4" SPARES</u>		
81H-40-SKIT-NWO	4" SEAL KIT ; "O" RING DESIGN ; FOR SHAFT 2"		
81H-40-SKIT-NBU	4" SEAL KIT ; U SEAL DESIGN ; FOR SHAFT 2"		
81H-40-56893	4" ROD CLEVIS 2" OD SHAFT ; THREAD 1-1/2"- UNF		
81H-3040-040001	3" AND 4" ROD CLEVIS 1-1/2" & 2" OD SHAFT ; LOCKING SCREW 80" - 120" STROKE		
81H-A03-20A0C0	LOCKING SCREW FOR CLEVIS FOR 2" 3" 4"		
81H-N600001-2	LOCKING SCREW NYLON BLOCK FOR CLEVIS FOR 2" 3" 4"		
81H-40-59626	4" ROD CLEVIS PIN ; 1" OD		
81H-40-63512	4" R CLIP FOR PIN ; 1" OD		
81H-40-62549	4" HEAD ROD CAP ; "O" RING DESIGN ; FOR SHAFT 2"		
81H-40-62549-NB	4" HEAD ROD CAP ; U SEAL DESIGN ; FOR SHAFT 2"		
81H-40-59846	4" BASE BOTTOM CLEVIS 2 PORTS 1/2" NPT		
81H-40-59851	4" PISTON		
81H-40-P-NUT	4" PISTON NUT		



TIE ROD CYLINDER TECHNICAL

HOW TO IDENTIFY TAK - BOK CYLINDERS

Barrel	Barrel	Barrel	*** How to work out closed centre	Cylinder
I/D	I/D	O/D	Measure barrel length in ? mm + 203 mm	Size
2"	50.8 mm	61 mm	Example ; TK 2008 -106 (261 + 203) = 464 mm C/C	2"
3"	76.2 mm	86 mm	Example ; TK 3008 -125 (261 + 203) = 464 mm C/C	3"
4"	101.6 mm	112 mm	Example ; TK 4008 -200 (261 + 203) = 464 mm C/C	4"

*** How to work out closed centre with no sample; use (260.4 mm) + (stroke mm) = closed centre in mm

Barrel	Barrel	Barrel	*** How to work out open centre	Cylinder
I/D	I/D	O/D	Measure closed centre in ? mm + stroke in mm	Size
2"	50.8 mm	61 mm	Example ; TK 2008 -106 (464 + 203) = 667 mm C/C	2"
3"	76.2 mm	86 mm	Example ; TK 3008 -125 (464 + 203) = 667 mm C/C	3"
4"	101.6 mm	112 mm	Example ; TK 4008 -200 (464 + 203) = 667 mm C/C	4"

How to work out threads				
Bore Diameter	2" (50.8 mm)	3" (76.2 mm)	4" (101.6 mm)	
Shaft Diameter	1-1/16" (27mm)	1-1/4" (31.75mm)	1-1/2" (38.1mm)	2" (50.8mm)
Thread U N F	1-1/16" - 12 UNF	1-1/4" - 12 UNF		1-1/2" - 12 UNF
Ports N P T	3/8"	1/2"		1/2"

NOTE: A* - SHAFT STROKE FOR ASAE TYPE CYLINDERS, YOU MUST ADD AN EXTRA 50.8 mm OR 2"

BUCKLING LOADS FOR TIE ROD CYLINDERS

2" CYLINDER

BUCKLING LOADS		STROKE		
Bore 2"	Shaft 1-1/16	6" TO 18"	20" TO 24"	28" TO 36"
		Stable Region Safety 3:1	Safety 2:1	Safety 1:1

3" CYLINDER

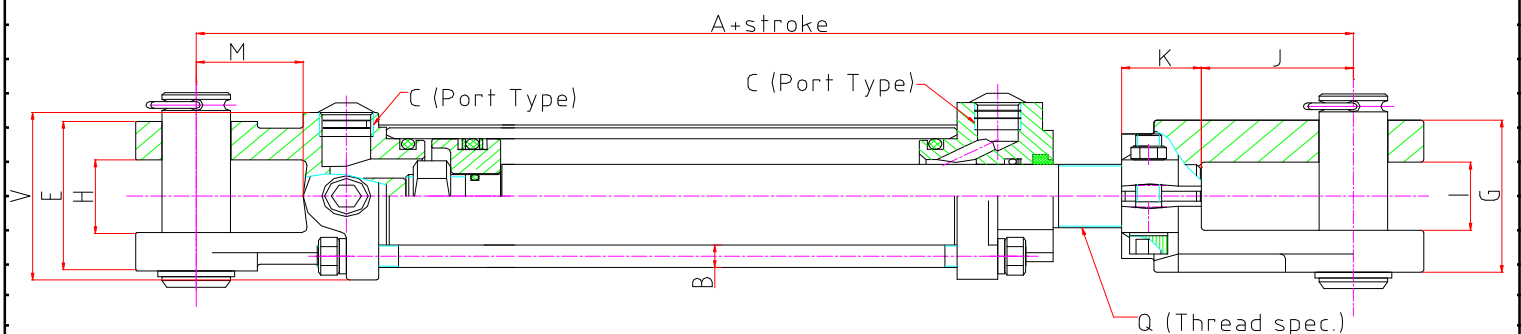
BUCKLING LOADS		STROKE		
Bore 3"	Shaft 1-1/4"	6" TO 16"	18" TO 20"	24" TO 36"
Bore 3"	Shaft 1-1/2"	6" TO 24"	28" TO 36"	
		Stable Region Safety 3:1	Safety 2:1	Safety 1:1

4" CYLINDER

BUCKLING LOADS		STROKE		
Bore 4"	Shaft 2"	8" TO 36"		
		Stable Region Safety 3:1	Safety 2:1	Safety 1:1

CYLINDER DIMENSIONS

BORE	A***	B	C	E & G	H & I	J	M	Q	V
2"	10.25"	0.188"	3/8"	2.441"	1.125"	2.125"	2"	1-1/16"	2.874"
50.8 mm	260.4 mm	4.8 mm	NPT	62 mm	29 mm	54 mm	50.8 mm	UNF	73 mm
3"	10.25"	0.188"	1/2"	2.717"	1.125"	2.125"	2"	1-1/4"	3.78"
76.2 mm	260.4 mm	4.8 mm	NPT	69 mm	29 mm	54 mm	50.8 mm	UNF	96mm
4"	10.25"	0.25"	1/2"	2.717"	1.125"	2.125"	2.118"	1-1/2"	5.039"
101.6 mm	260.4 mm	6.35 mm	NPT	69 mm	29 mm	54 mm	53.8 mm	UNF	128 mm





WELDED TYPE

24-07-2024



WELDED TYPE

01-01-2023

	TAK - BOK															
	3" Bore Cylinders															
	WELDED TYPE															
Part Number	Bore x	Rod	Port	Clevis	Barrel	Shaft	Shaft	Barrel	Closed	Open	Force	Force	Swept	Swept	Wt.	RETAIL:
	Stroke	Dia.	Size	Pin	Bore	stroke	O/D	Length	Centre	Centre	Rod	Piston	Volume	Volume	Kgs	01-01-2023
	inch	inch	Bsp	Dia.	mm	mm	mm	mm	mm	mm	250 bar	250 bar	Rod	Piston	+/-	
											Tons	Tons	Litres	Litres		
81H-WC30006-150	3" x 6"	1-1/2"	1/2"	1"	76.2	152	38.1	252	413	565	8.5	11.5	0.52	0.69	11.1	
81H-WC30008-150	3" x 8"	1-1/2"	1/2"	1"	76.2	203	38.1	303	464	667	8.5	11.5	0.69	0.93	12.2	
81H-WC30008150A	3" x 8" A*	1-1/2"	1/2"	1"	76.2	203	38.1	303	514	717	8.5	11.5	0.69	0.93	12.7	
81H-WC30010-150	3" x 10"	1-1/2"	1/2"	1"	76.2	254	38.1	354	514	768	8.5	11.5	0.87	1.16	13.4	
81H-WC30012-150	3" x 12"	1-1/2"	1/2"	1"	76.2	305	38.1	405	565	870	8.5	11.5	1.04	1.39	14.5	
81H-WC30014-150	3" x 14"	1-1/2"	1/2"	1"	76.2	356	38.1	456	616	972	8.5	11.5	1.22	1.62	15.6	
81H-WC30016-150	3" x 16"	1-1/2"	1/2"	1"	76.2	406	38.1	506	667	1073	8.5	11.5	1.39	1.85	16.6	
81H-WC30018-150	3" x 18"	1-1/2"	1/2"	1"	76.2	457	38.1	557	718	1175	8.5	11.5	1.56	2.08	17.7	
81H-WC30020-150	3" x 20"	1-1/2"	1/2"	1"	76.2	508	38.1	608	768	1276	8.5	11.5	1.74	2.32	18.8	
81H-WC30024-150	3" x 24"	1-1/2"	1/2"	1"	76.2	610	38.1	710	870	1480	8.5	11.5	2.09	2.78	21.1	
81H-WC30028-150	3" x 28"	1-1/2"	1/2"	1"	76.2	711	38.1	811	972	1683	8.5	11.5	2.43	3.24	23.1	
81H-WC30030-150	3" x 30"	1-1/2"	1/2"	1"	76.2	762	38.1	862	1022	1784	8.5	11.5	2.60	3.47	24.3	
81H-WC30036-150	3" x 36"	1-1/2"	1/2"	1"	76.2	914	38.1	1014	1175	2089	8.5	11.5	3.12	4.17	27.6	
81H-WC30048-150	3" x 48"	1-1/2"	1/2"	1"	76.2	1219	38.1	1319	1480	2699	8.5	11.5	4.17	5.56	34.1	
81H-WC30120-150	3" x 120"	1-1/2"	1/2"	1"	76.2	3048	38.1	3148	3308	6356	8.5	11.5	10.42	13.89	73.8	



Part Number		RETAIL:
	<u>DESCRIPTION FOR : 2" SPARES</u>	01-01-2023
81H-20-SKIT-W	2" SEAL KIT	
81H-20-CLV2001	MALE ROD END CLEVIS 2"	
81H-20-WBC2003	MALE BASE BOTTOM CLEVIS 2"	



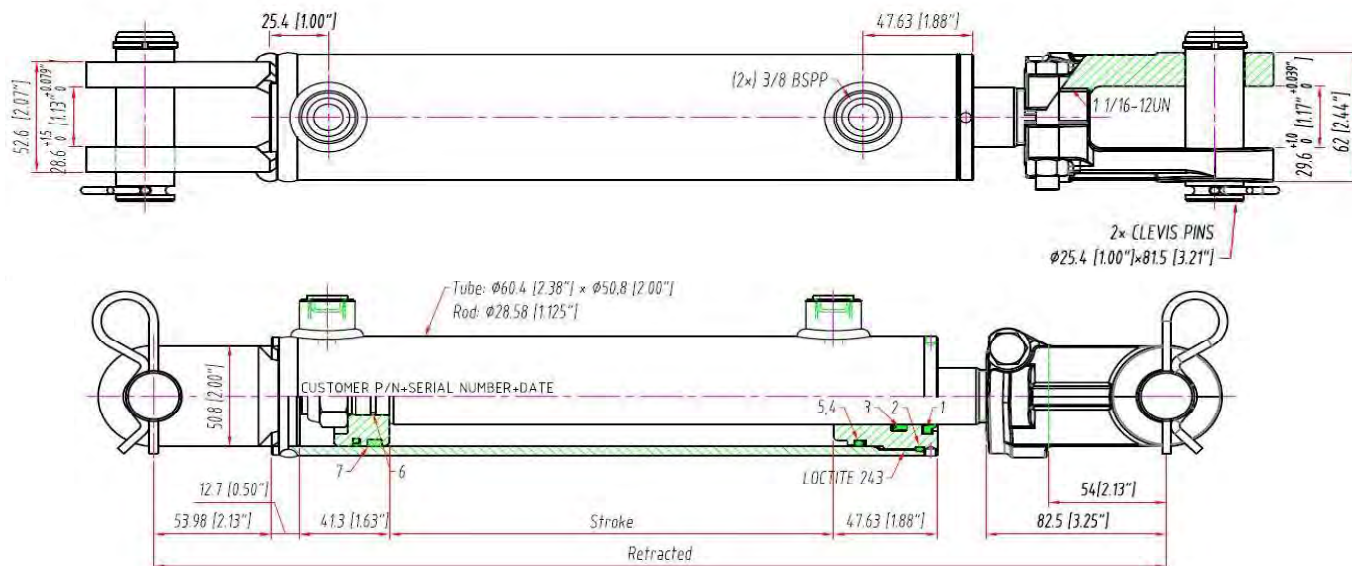
	<u>DESCRIPTION FOR : 3" SPARES</u>	
81H-30-SKIT-W	3" SEAL KIT	
81H-30-CLV3001	MALE ROD END CLEVIS 3"	
81H-30-WBC3002	MALE BASE BOTTOM CLEVIS 3"	



WELDED CYLINDER TECHNICAL

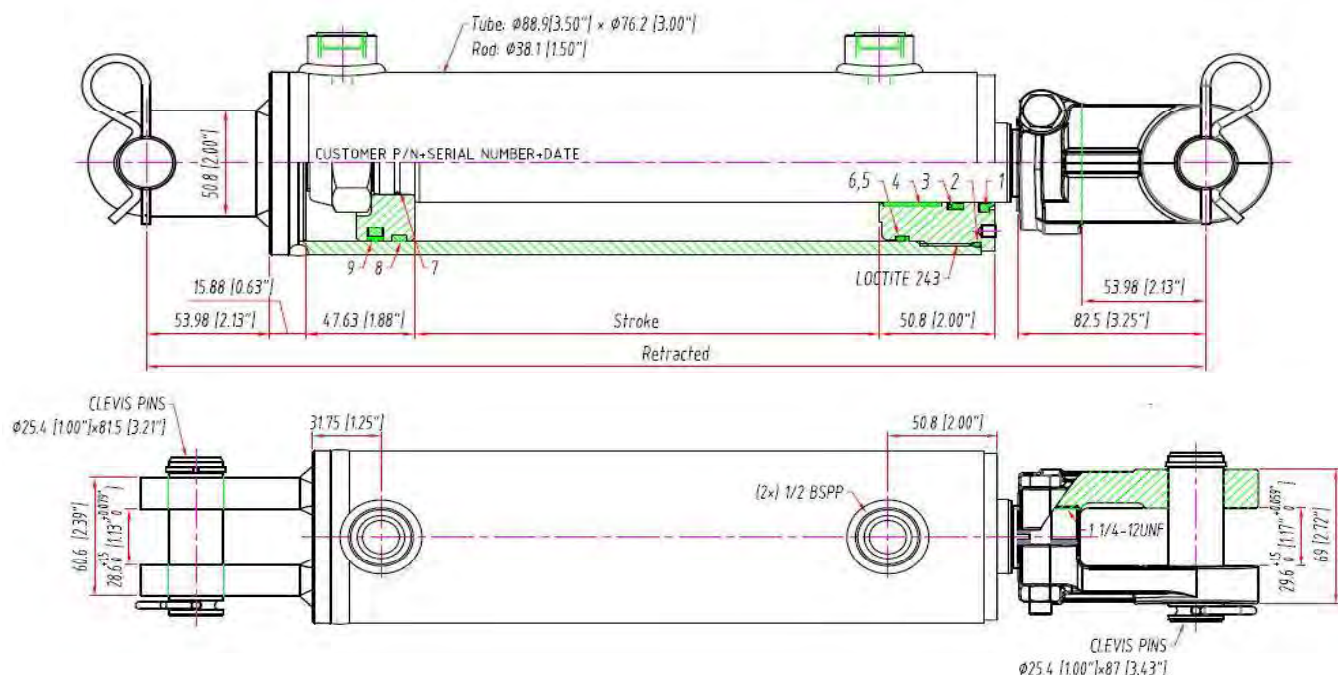
CYLINDER DIMENSIONS

PART NUMBER	STROKE	RETRACTED	PART NUMBER	STROKE	RETRACTED
81H-WC20006-113	152.4 (6.00")	412.75 (16.25")	81H-WC20018-113	457.2 (18.00")	717.55 (28.25")
81H-WC20008-113	203.2 (8.00")	463.55 (18.25")	81H-WC20020-113	508.0 (20.00")	768.35 (30.25")
81H-WC20012-113	304.8 (12.00")	565.15 (22.25")	81H-WC20024-113	609.6 (24.00")	869.95 (34.25")
81H-WC20014-113	355.6 (14.00")	615.95 (24.25")	81H-WC20030-113	762.0 (30.00")	1022.35 (40.25")
81H-WC20016-113	406.4 (16.00")	666.75 (26.25")	81H-WC20036-113	914.4 (36.00")	1174.75 (46.25")



CYLINDER DIMENSIONS

PART NUMBER	STROKE	RETRACTED	PART NUMBER	STROKE	RETRACTED
81H-WC30006-150	152.4 (6.00")	412.75 (16.25")	81H-WC30020-150	508.0 (20.00")	768.35 (30.25")
81H-WC30008-150	203.2 (8.00")	463.55 (18.25")	81H-WC30024-150	609.6 (24.00")	869.95 (34.25")
81H-WC30008-150A	203.2 (8.00")	514.35 (20.25")	81H-WC30028-150	711.2 (28.00")	971.55 (38.25")
81H-WC30010-150	355.6 (14.00")	615.95 (24.25")	81H-WC30030-150	762.0 (30.00")	1022.35 (40.25")
81H-WC30012-150	304.8 (12.00")	565.15 (22.25")	81H-WC30036-150	914.4 (36.00")	1174.75 (46.25")
81H-WC30014-150	355.6 (14.00")	615.95 (24.25")	81H-WC30048-150	1219.2 (48.00")	1479.55 (58.25")
81H-WC30016-150	406.4 (16.00")	666.75 (26.25")	81H-WC30120-150	3048.0 (120.00")	3308.35 (130.25")
81H-WC30018-150	457.2 (18.00")	717.55 (28.25")			



<u>Part Number</u>	HI / LOW PUMPS						RETAIL:
							01-10-2022
	<u>CBT SERIES HI / LOW PUMPS</u>						
72H-C-6-3-2-1	PUMP CBT 6.3 cc - 2.1 cc						
72H-C-10-9-3-6	PUMP CBT 10.9 cc - 3.6 cc						
72H-C-22-9-7-6	PUMP CBT 22.9 cc - 7.6 cc						
	<u>TECHNICAL SPECS ON CBT SERIES 210 Bar</u>						
	SHAFT	SPIGOT	MOUNT	SUCTION	PRESSURE	ROTATION	
	1/2" P/Key	45.25mm	4 BOLT 50.08 X 50.08	25.4mm PIPE	1/2" NPT	C/W	
	5/8" P/KEY	3-1/4"	2 BOLT	1" NPT	3/4" NPT	C/W	
	<u>LOG SPLITTER VALVE</u>						
72H-LS-TW-20F	LS-TW LOG SPLITTER VALVE HAND OPERATED ONE WAY WITH DETENT PRESSURE RELEASE						
	<u>LOG SPLITTER CYLINDER</u>						
82H-TKLOG518	LOG SPLITTER CYLINDER 125 X 810 X 1267 X 75						
	<u>SPECS</u>						
	LOG SPLITTER CYLINDER 25 TONS @ 210 BAR PISTON SIDE						
	BORE 125mm						
	CLOSED CENTRE 810mm						
	OPEN CENTRE 1267mm						
	STROKE 457mm						
	SHAFT OD 75mm						
							
  							
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY						PAGE W 1

STANDARD PUMP PORTS

BSP THREADED PORTS

PORT SIZE	THREAD	THREAD OD	DRILL SIZE
1/8"	1/8" - 28 tpi	9.5	8.8
1/4"	1/4" - 19 tpi	13	11.8
3/8"	3/8" - 19 tpi	16.5	15.5
1/2"	1/2" - 14 tpi	21	19
5/8"	5/8" - 14 tpi	22.7	21
3/4"	3/4" - 14 tpi	26.2	24.5
1"	1" - 11 tpi	33	31
1-1/4"	1-1/4" - 11 tpi	41.8	40
1-1/2"	1-1/2" - 11 tpi	47.4	45.5
2"	2" - 11 tpi	59.3	57

NPT THREADED PORTS

PORT SIZE	THREAD	THREAD OD	DRILL SIZE
1/8"	1/8" - 27 tpi	9.2	8.8
1/4"	1/4" - 18 tpi	13	10.7
3/8"	3/8" - 18 tpi	16.4	14.25
1/2"	1/2" - 14 tpi	20.5	17.5
3/4"	3/4" - 14 tpi	25.7	22.75
1"	1" - 11-1/2"	31.5	28.5
1-1/4"	1-1/4" - 11-1/2"	41.3	37.5
1-1/2"	1-1/2" - 11-1/2"	47.3	43.5
2"	2" - 11-1/2"	59.5	55

NOTE: NPT THREAD OD TAKEN FROM SMALLEST SIZE

S. A. E. "O" THREADED PORTS

PORT SIZE	THREAD	THREAD OD	DRILL SIZE
1/4"	7/16" - 20UNF	11	9.9
5/8"	1/2" - 20 UNF	12.5	11.6
3/8"	9/16" - 18UNF	14	13
1/2"	3/4" - 16UNF	19	17.5
5/8"	7/8" - 14UNF	22	20.5
3/4"	1" - 1/16- 12UN	26.8	24.5
1"	1" - 5/16- 12UN	32.2	31.2
1 1/4"	1" - 5/8 - 12UN	41	39
1 1/2"	1" - 7/8 - 12UN	47.2	45.5
2"	2" - 1/2 - 12UN	63	61

DOWTY FLANGED PORTS

PORT SIZE	P C D mm	THREAD mm	DRILL SIZE
P1 17.3	43	5/16" - 18UNC	6.6
P1 17.3	43	5/16" - 18UNC	6.6
P2 21.6	48	5/16" - 18UNC	6.6
P2 21.7	48	5/16" - 18UNC	6.6

DIAMOND PORTS



BOSCH SQUARE FLANGED PORTS

PORT SIZE mm	P C D mm	THREAD mm	DRILL SIZE
8	30	M6 x 1	5
12	30	M6 x 1	5
15	35	M6 x 1	5
20	40	M6 x 1	5
18	55	M8 x 1.25	6.5
26	55	M8 x 1.25	6.5

DIAMOND FLANGED PORTS

PORT SIZE mm	P C D mm	THREAD mm	DRILL SIZE
13	30	M6 x 1	5
19	40	M8 x 1.25	6.5
27	51	M10 x 1.5	8.5
34	56	M10 x 1.5	8.5
36	62	M10 x 1.5	8.5
45	72	M12 x 1.75	10

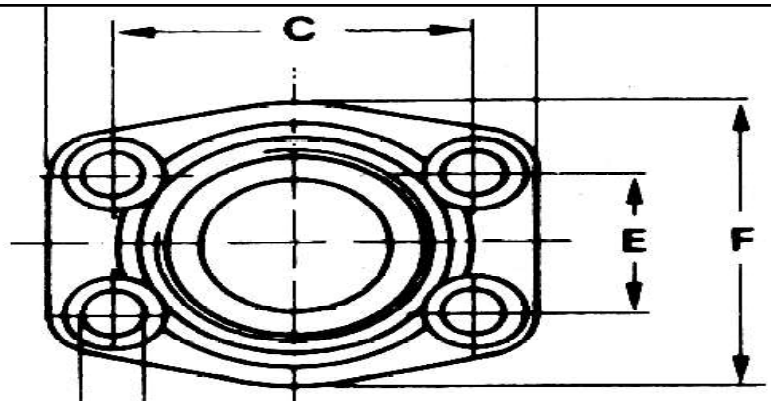
S.A.E 4 BOLT FLANGE 3000 SERIES

FLANGE SIZE	DIMENSIONS			SCREWS			
	C	E	H	METRIC	DRILL	UNC	DRILL
1/2"	38.1	17.48	16	M08	6.50	5/16	6.50
3/4"	47.63	22.23	18	M10	8.50	3/8	8.00
1"	52.37	26.19	18	M10	8.50	3/8	8.00
1 1/4"	58.72	30.18	21	M10	8.50	7/16	9.50
1 1/2"	69.85	35.71	25	M12	10.00	1/2	10.50
2	77.77	42.88	25	M12	10.00	1/2	10.50
2 1/2"	88.9	50.80	25	M12	10.00	1/2	10.50
3"	106.38	61.93	27	M16	14.00	5/8	13.50
3 1/2"	120.65	69.85	27	M16	14.00	5/8	13.50
4"	130.18	77.77	27	M16	14.00	5/8	13.50

S.A.E 4 BOLT FLANGE 6000 SERIES

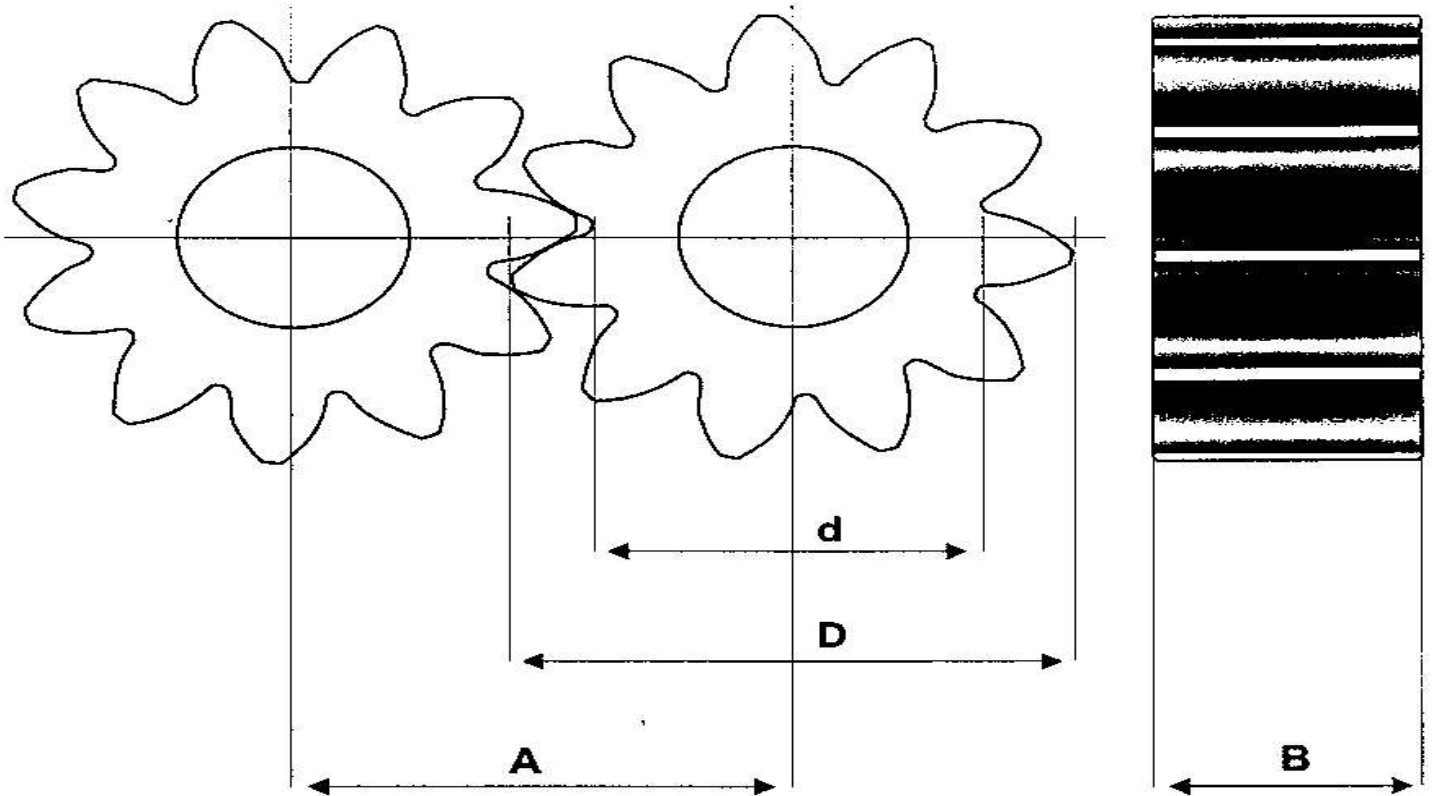
FLANGE SIZE	DIMENSIONS			SCREWS			
	C	E	H	METRIC	DRILL	UNC	DRILL
1/2"	40.49	18.24	16	M08	6.50	5/16	6.50
3/4"	50.80	23.80	21	M10	8.50	3/8	8.00
1"	57.15	27.76	25	M12	10.00	7/16	9.50
1 1/4"	66.68	31.75	27	M14	12.00	1/2	10.50
1 1/2"	79.38	36.50	30	M16	14.00	5/8	13.50
2"	96.82	44.45	37	M20	17.50	3/4	16.50

S.A.E. 4 BOLT



	HYDRAULIC WORKSHOP FORMULAE	
	CYLINDER FORCE ; IN KILOGRAMS (KG)	
	$Kg = AREA \times PRESSURE = DIAMETER (cm) \times DIAMETER (cm) \times PRESSURE (bar) \times 3.14 \div 4$	
	$Kg = 10.1 \text{ cm} \times 10.1 \text{ cm} \times 180 \text{ Bar} \times 3.14 \div 4 = 14414 \text{ Kg}$	
	$tons = Kg \div 1000$	
	$14414 \text{ Kg} \div 1000 = 14.41 \text{ tons}$	
	CYLINDER CAPACITY FLOW RATE ; IN LITRES PER MINUTE (L/min)	
	$L/min = AREA \times SPEED = DIAMETER (cm) \times DIAMETER (cm) \times SPEED (m/s) \times 4.71$	
	$L/min = 10.1 \text{ cm} \times 10.1 \text{ cm} \times .02 \text{ m/s} \times 4.71 = 9 \text{ L/min}$	
	CYLINDER SHAFT SPEED ; IN MILLIMETERS PER SEC (M/S)	
	$m/s = FLOW RATE \div AREA = FLOW RATE (L/min) \div DIAMETER (cm) \div DIAMETER (cm) \times 0.21$	
	$m/s = 9 \text{ L/min} \div 10.1 \text{ cm} \div 10.1 \text{ cm} \times .21 = .02 \text{ m/s} = 20 \text{ mm/s}$	
	CYLINDER STROKE TIME ; IN SECONDS PER STROKE	
	$sec = STROKE LENGTH (cm) \div SPEED (m/s) \div 100$	
	$sec = 10 \text{ cm} \div .02 \text{ m/s} \div 100 = 5 \text{ sec}$	
	PUMP FLOW : IN LITRES PER MINUTE (L/min)	
	$L/min = cc / Rev \times RPM \div 1000$	
	$L/min = 14 \text{ cc/Rev} \times 1450 \text{ RPM} \div 1000 = 20.3 \text{ L/min}$	
	PUMP INPUT POWER ; IN KILOWATTS (MILLIMETERS)	
	$Kw = FLOW \times PRESSURE \div 600 \div 0.85$	
	$Kw = 20 \text{ LITRES} \times 180 \text{ Bar} \div 600 \div 0.85 = 7 \text{ KW (KILOWATT)}$	
	MOTOR TORQUE ; IN NEWTON METER (Nm)	
	$Nm = PRESSURE (MPa) \times FLOW (L/min) \times 159 \div RPM$	
	$Nm = 21 \text{ MPa} \times 9 \text{ L/min} \times 159 \div 1450 \text{ RPM} = 20.72 \text{ Nm}$	
	MOTOR TORQUE ; IN NEWTON METER (Nm)	
	$Nm = PRESSURE (MPa) \times DISPLACEMENT (cm \times cm) \div 6.28$	
	$Nm = 21 \text{ MPa} \times 10 \text{ cm}^2 \div 6.28 = 33.44 \text{ Nm}$	
	PUMP SHAFT PL FACTOR ; IN TORQUE NEWTON METER (Nm)	
	$Nm = cc / Rev \times bar / 57.2 = Nm (NEWTON METER)$	
	$Nm = 14 \text{ cc} / Rev \times 140 \text{ bar} \div 57.2 = 34 \text{ Nm}$	
	CONVERSION FACTORS	
	1 Kw = 1.34 HP	
	1 HP = 0.75 Kw	
	1 Kw = 1000 Watts	
	1000 Kg = 1 TON METRIC	
	1 KILOGRAM = 2.2 Lbs	
	1 NEWTON METER (nm) = 8.9 in-Lbs.	
	1 NEWTON METER (nm) = 0.74 ft-Lbs.	
	10 NEWTON METERS (nm) = 1 Dnm	
	1 US Gal = 3.79 Litre	
	1 Imp. Gallon = 4.5 LITRE	
	1 cu Inch = 16.4 cc	
	1 Inch = 25.4mm	
	1 METER = 39.4 Inch	
	0.01 mm = 4 thousands of an Inch	
	1 bar = 14.5 PSI	
	1 MPA = 10 bar	
	1 bar = 100 Kpa	
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY	PAGE X 2

**HOW TO WORK OUT APPROXIMATE FLOW CAPACITY
OF A GEAR PUMP IN LITRES PER MINUTE
AT 1450 RPM. (OR IN cm^3 PER REVOLUTION)**



FORMULA: USING TWO GEARS

NOTE: ALL DIMENSIONS IN MM $\div$ BY 1000 TO GET CC/REV.

A = CENTRE TO CENTRE OF SHAFTS

B = GEAR WIDTH

D = GEAR OD

d = GEAR ID

$$1.3682 \times A \times B \times (D-d)$$

EXAMPLE $1.3682 \times 44.3 \times 32 \times (53.3-33.5)$
 $= 38403.2 \div \text{BY } 1000 \text{ TO GET CC/REV.}$
38.4 CC/REV.

FORMULA: USING ONE GEAR (NOT AS ACCURATE)

$$\text{FORMULA; } (D^2 - d^2) \times B \times \frac{\pi}{4}$$

PUMPS GEAR ALUMINIUM ROTATION CHANGE

GROUP 2 & GROUP 3

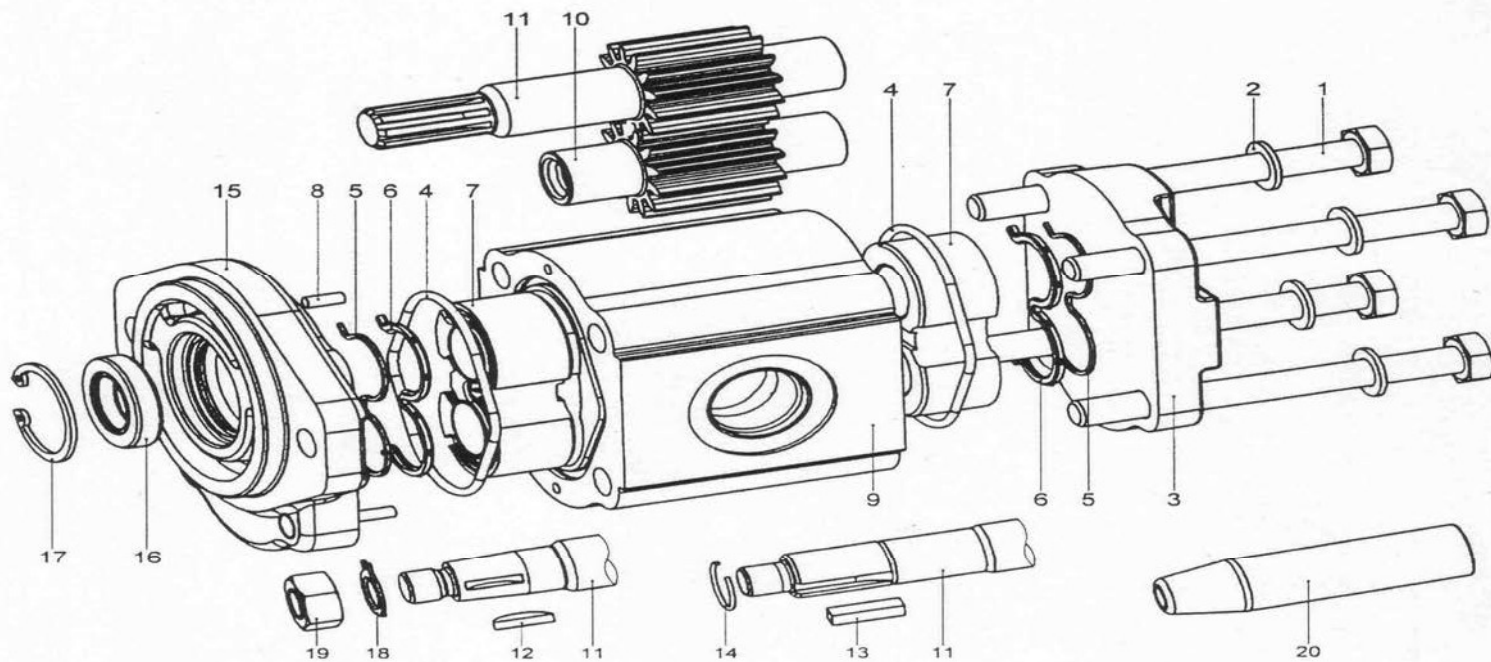
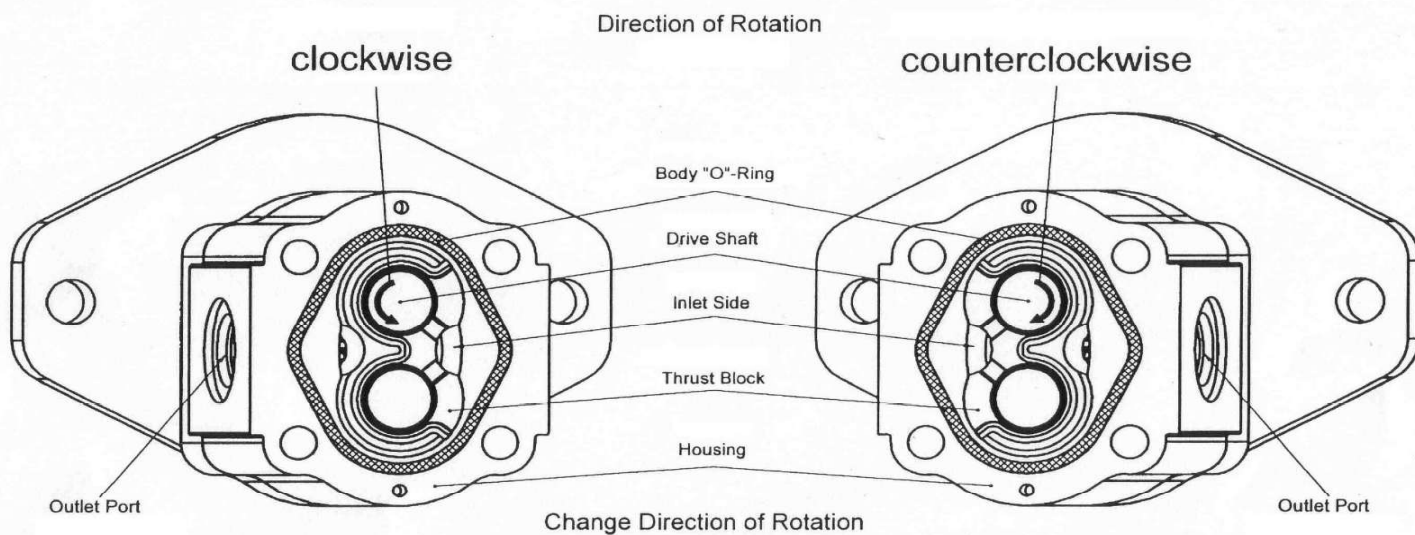
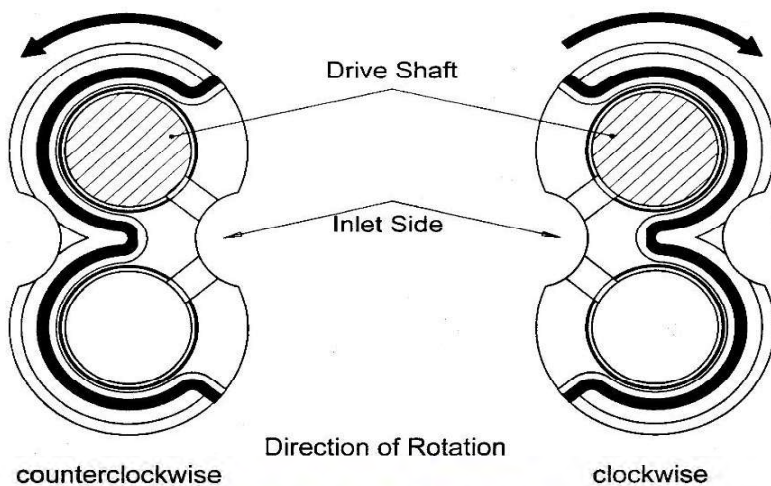


Fig.4



Housing and Thrust Blocks turned 180°



View from shaft end

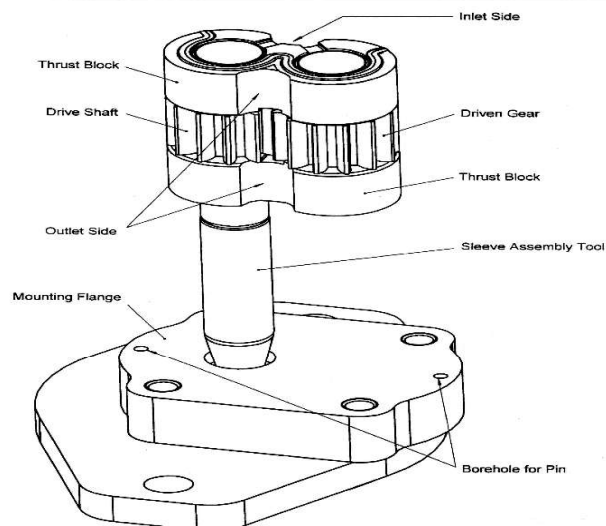


Fig. 2

HYDRAULIC FORMULA CALCULATOR

CYLINDER CALCULATIONS

NOTE; Put your amounts in where the **red figures** are and check out the answer where the **blue figures** are (click enter) !

CONVERSION CYLINDER; INCH TO METRIC	2" = 5.08 cm 3" = 7.62 cm 4" = 10.16 cm 5" = 12.7
CONVERSION SHAFT; INCH TO METRIC	1.06" = 2.70 cm 1.25" = 3.2 cm 1.50" = 3.80 cm 2" = 5.08 cm
	1-1/16" = 2.70 cm 1-1/4" = 3.2 cm 1-1/2" = 3.80 cm 2" = 5.08 cm

CONVERSIONS INCH TO METRIC

TO BE USED WHEN CALCULATING INCH TO METRIC (cm) AND METRIC (cm) TO INCH

1	FORMULA				
	Metric / Inch	INCH	METRIC ANSWER	METRIC (cm)	INCH ANSWER
		8	20.32	15.24	6

FORCE

TO BE USED WHEN CALCULATING THE FORCE OF A HYDRAULIC CYLINDER (LARGE PISTON AREA)

2	FORMULA	PRESSURE	CYLINDER DIAMETER	FORCE (tons)	FORCE (kg)
	tons	ENTER (Bar)	ENTER (cm)	(click enter) !	(click enter) !
		90	16	18.0864	18086.4

SPEED

TO BE USED WHEN CALCULATING THE SPEED USING THE PISTON AREA

3	FORMULA	ENTER FLOW RATE (L/min)	ENTER PISTON DIAMETER (cm)	SPEED (m/s)	SPEED (sec/25 mm)
	m/s	12.1	12.7	0.015927845	1.569578306
				mm /sec	SECONDS / METER
				15.92784502	62.78313223

SPEED

TO BE USED WHEN CALCULATING THE SPEED USING THE SHAFT AREA

4	FORMULA	ENTER FLOW RATE (L/min)	ENTER SHAFT DIAMETER (cm)	SPEED (m/s)	SPEED (sec/25 mm)
	m/s	12.1	5.08	0.099549031	0.251132529
				mm /sec	SECONDS / METER
				99.54903137	10.04530116

TIME TAKEN TO DO FULL STROKE

TO BE USED WHEN CALCULATING THE TIME TAKEN FOR THE SHAFT TO TRAVEL OVER A SET DISTANCE

5	FORMULA	PISTON (SIDE)	SHAFT (SIDE)		
	Seconds	ENTER STROKE (mm)	ENTER STROKE (mm)		
		500	500		
		SECONDS TAKEN	SECONDS TAKEN		
		31.39156612	26.36891554		

SWEPT VOLUME OF A CYLINDER ; PISTON SIDE

TO BE USED WHEN CALCULATING THE AMOUNT OF OIL NEEDED PISTON SIDE

6	FORMULA	ENTER CYL DIAMETER (cm)	ENTER STROKE (cm)	VOL OF PISTON SIDE (L)	
	liters	10.16	500	40.516048	

SWEPT VOLUME OF A CYLINDER ; SHAFT SIDE

TO BE USED WHEN CALCULATING THE AMOUNT OF OIL NEEDED SHAFT SIDE

7	FORMULA	ENTER DIAM OF SHAFT (cm)	ENTER STROKE (cm)	VOLUME OF SHAFT	
	liters	6	500	14.139	

MINIMUM TANK VOLUME SIZE ;

TO BE USED WHEN CALCULATING THE MINIMUM AMOUNT OF OIL NEEDED ON A DOUBLE ACTING CYLINDER

8	FORMULA	PISTON SIDE VOLUME	SHAFT SIDE VOLUME	TANK VOLUME	
	liters	40.516048	14.139	26.377048	

TO BE USED AT YOUR OWN RISK BY; Dr Christine Edmonds of Milwaukee Wisconsin

PAGE X 5

HYDRAULIC FORMULA CALCULATOR

PUMP CALCULATIONS

NOTE; Put your amounts where the **red figures** are and check out the answer where the **blue figures** are (click enter) !

FLOW RATE

TO BE USED WHEN CALCULATING THE FLOW RATE OF A HYDRAULIC PUMP

1	FORMULA				
	L/min	ENTER cc/Rev	ENTER RPM	FLOW (L/min)	cc/min
		6	1450	8.7	8700
2	FORMULA				
	L/min	ENTER SPEED (m/s)	ENTER CYL DIAMETER (cm)	FLOW (L/min)	cc/min
		0.047717	5.08	5.799912787	5799.912787
3	FORMULA				
	L/min	ENTER POWER (KW)	ENTER PRESSURE (Mpa)	FLOW (L/min)	cc/min
		0.568	5	5.7936	5793.6

POWER

TO BE USED WHEN CALCULATING THE POWER REQUIRED TO DRIVE A HYDRAULIC PUMP

4	FORMULA				
	kW	ENTER PRESSURE (bar)	ENTER FLOW RATE (L/min)	POWER (kW)	WATTS
		200	20	7.843137255	7843.137255
5	FORMULA				
	bar	ENTER PRESSURE (bar)	ENTER FLOW RATE (L/min)	POWER (kW)	WATTS
		198.9	20	7.8	7800
6	FORMULA				
	flow	ENTER PRESSURE (bar)	ENTER FLOW RATE (L/min)	POWER (kW)	WATTS
		200	19.89	7.8	

GEAR PUMP CAPACITY

TO BE USED WHEN CALCULATING THE APPROXIMATE FLOW RATE OF A GEAR PUMP

	FORMULA				
7	CC/REV	A	B	D - d	CC/REV
		CENTRE TO CENTRE	GEAR WIDTH	GEAR OD - ID	
		44.3	32	19.8	38.40329434

TORQUE

TO BE USED WHEN CALCULATING THE TORQUE PRODUCED BY A HYDRAULIC MOTOR

8	FORMULA				
	Nm	ENTER PRESSURE (Mpa)	ENTER DISPLACEMENT (cm³)	TORQUE (Nm)	Dm
		5	4	3.184713376	31.84713376
9	FORMULA				
	Nm	ENTER PRESSURE (Mpa)	ENTER FLOW RATE (L/min)	ENTER RPM	TORQUE (Nm)
		5	5.8	1450	3.18

HOSE SIZING

TO BE USED WHEN CALCULATING THE HOSE SIZE FOR SUCTION AND DELIVERY

10	FORMULA				
	m/s	MAX. SPEED RATE	DISPLACEMENT	SUCTION PORT ID	
		(U/min)	(cm³)	(mm)	
		1450	25.0	19.0	*** Special note;
		Velocity (m/s)	→	2.13	METERS/SECOND

*** Special note; The maximum recommended flow rate for a gear pump is 2,5 m/s please do not exceed.

*** Special note; For delivery hose size, rule of thumb 25% smaller than suction hose

PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY

TO BE USED AT YOUR OWN RISK BY; Dr Christine Edmonds of Milwaukee Wisconsin

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Part Number	MINI POWER PACKS	RETAIL:
		23-06-2026
	<u>MAKE - UP MINI POWER PACKS ; TKM SERIES</u>	
85H-108-D12-1-1	SINGLE ACTING; 1.1Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-D12-1-6	SINGLE ACTING; 1.6Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-D12-2-0	SINGLE ACTING; 2.0Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-D12-1-1	DOUBLE ACTING; 1.1Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-D12-1-6	DOUBLE ACTING; 1.6Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-D12-2-0	DOUBLE ACTING; 2.0Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-D24-1-1	SINGLE ACTING; 1.1Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-D24-1-6	SINGLE ACTING; 1.6Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-D24-2-0	SINGLE ACTING; 2.0Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-D24-3-0	SINGLE ACTING; 3.0Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-D24-1-1	DOUBLE ACTING; 1.1Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-D24-1-6	DOUBLE ACTING; 1.6Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-D24-2-0	DOUBLE ACTING; 2.0Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-D24-3-0	DOUBLE ACTING; 3.0Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-A22-0-7	SINGLE ACTING; 0.7Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-A22-1-1	SINGLE ACTING; 1.1Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-A22-1-5	SINGLE ACTING; 1.5Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-A22-2-2	SINGLE ACTING; 2.2Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-A22-3-3	SINGLE ACTING; 3.3Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-A22-0-7	DOUBLE ACTING; 0.7Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-A22-1-1	DOUBLE ACTING; 1.1Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-A22-1-5	DOUBLE ACTING; 1.5Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-A22-2-2	DOUBLE ACTING; 2.2Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-A22-3-3	DOUBLE ACTING; 3.3Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-A38-1-1	SINGLE ACTING; 1.1Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-A38-1-5	SINGLE ACTING; 1.5Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-A38-2-2	SINGLE ACTING; 2.2Kw P PORT & SOLENOID DUMP; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-A38-3-0	SINGLE ACTING; 3.0Kw P PORT & SOLENOID DUMP; FLOW MAX 22L; TANKS 4L TO 15L; MAX P 250Bar	
85H-108-A38-4-0	SINGLE ACTING; 4.0Kw P PORT & SOLENOID DUMP; FLOW MAX 22L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-A38-1-1	DOUBLE ACTING; 1.1Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-A38-1-5	DOUBLE ACTING; 1.5Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-A38-2-2	DOUBLE ACTING; 2.2Kw P & T PORTS ; FLOW MAX 12L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-A38-3-0	DOUBLE ACTING; 3.0Kw P & T PORTS ; FLOW MAX 22L; TANKS 4L TO 15L; MAX P 250Bar	
85H-107-A38-4-0	DOUBLE ACTING; 4.0Kw P & T PORTS ; FLOW MAX 22L; TANKS 4L TO 15L; MAX P 250Bar	

MINI POWER PACK WITH DC MOTOR



Part Number	MINI POWER PACKS		RETAIL:
			23-06-2026
	<u>ACCESSORIES & SPARES PARTS ; TKM SERIES</u>		
	ELECTRIC MOTORS		
	12V DC MOTORS		
85H-DC12-1-1	12V DC 1,1 Kw	2400 RPM + FAN + STARTER RELAY + HEAT SENSOR	
85H-DC12-1-6	12V DC 1,6 Kw	2400 RPM + FAN + STARTER RELAY + HEAT SENSOR	
85H-DC12-2-0	12V DC 2,0 Kw	2400 RPM + FAN + STARTER RELAY + HEAT SENSOR	
	24V DC MOTORS		
85H-DC24-1-1	24V DC 1,1 Kw	2600 RPM + FAN + STARTER RELAY + HEAT SENSOR	
85H-DC24-1-6	24V DC 1,6 Kw	2600 RPM + FAN + STARTER RELAY + HEAT SENSOR	
85H-DC24-2-2	24V DC 2,2 Kw	2600 RPM + FAN + STARTER RELAY + HEAT SENSOR	
85H-DC24-3-0	24V DC 3,0 Kw	2600 RPM + FAN + STARTER RELAY + HEAT SENSOR	
	220V AC MOTORS 1 PHASE		
85H-AC220-0-7	220V AC 0,7 Kw	1420 RPM + FAN	
85H-AC220-1-1	220V AC 1,1 Kw	1420 RPM + FAN	
85H-AC220-1-5	220V AC 1,5 Kw	1420 RPM + FAN	
85H-AC220-2-2	220V AC 2,2 Kw	1420 RPM + FAN	
85H-AC220-3-0	220V AC 3,0 Kw	1420 RPM + FAN	
	380V AC MOTORS 3 PHASE		
85H-AC380-1-1	380V AC 1,1 Kw	1420 RPM + FAN	
85H-AC380-1-5	380V AC 1,5 Kw	1420 RPM + FAN	
85H-AC380-2-2	380V AC 2,2 Kw	1420 RPM + FAN	
85H-AC380-3-0	380V AC 3,0 Kw	2850 RPM + FAN	
85H-AC380-4-0	380V AC 4,0 Kw	2850 RPM + FAN	
	STARTER COILS		
85H-SW-12V-150	12V DC STARTER COIL	150 AMP	
85H-SW-12V-200	12V DC STARTER COIL	200 AMP	
85H-SW-24V-150	24V DC STARTER COIL	150 AMP	
85H-SW-24V-200	24V DC STARTER COIL	200 AMP	
	DC MOTOR COUPLINGS		
85H-CUP-360007	GROUP1	OD 80mm	
85H-CUP-360008	GROUP1	OD 114mm	
	AC MOTOR COUPLINGS		
85H-CUP-360005	GROUP1		
85H-CUP-360018	GROUP1		
85H-CUP-360013	GROUP1		
	B14 AC MOTOR MOUNTING KIT		
85H-MOU-B14-71	B14 AC MOUNTING KIT FOR 71 FRAME		
85H-MOU-B14-80	B14 AC MOUNTING KIT FOR 80 FRAME		
85H-MOU-B14-90	B14 AC MOUNTING KIT FOR 90 FRAME		
85H-MOU-B14-100	B14 AC MOUNTING KIT FOR 100 FRAME		
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE Y 2

Part Number	MINI POWER PACKS		RETAIL:
			23-06-2026
	<u>ACCESSORIES & SPARES PARTS ; TKM SERIES</u>		
	CENTRAL MANIFOLD		
85H-107	DOUBLE ACTING USE		
85H-108	SINGLE ACTING USE		
	STACKING MANIFOLDS		
85H-560005	SPACER MANIFOLD ADAPTOR 70mm 3/8" PORTS		
85H-560010	SPACER MANIFOLD ADAPTOR 30mm 3/8" PORTS		
85H-560006	MOTOR SIDE 90 DEGREE ROTATION MANIFOLD 60mm HIGH		
85H-560007	MOTOR SIDE 90 DEGREE ROTATION MANIFOLD 90mm HIGH		
85H-560008	TANK SIDE 90 DEGREE ROTATION MANIFOLD 60mm HIGH		
85H-560009	TANK SIDE 90 DEGREE ROTATION MANIFOLD 90mm HIGH		
85H-560101	NG6 PARALLEL CONNECTION REAR PORTS 3/8" PORTS		
85H-560102	NG6 PARALLEL CONNECTION LATERAL PORTS 3/8" PORTS		
85H-560825	MODULAR MANIFOLD TWO WAY TWO POSITION 3/8" PORTS		
85H-580082	STANDARD 2/2 MANIFOLD BLOCK A & B PORT 3/8" BSPP		
	CARTRIDGE VALVES		
85H-TSV2-NCP-M	2/2 NC SOLENOID VALVE WITH MANUAL EMERGENCY OVERRIDE		
85H-TSV2-NOP-M	2/2 NO SOLENOID VALVE WITH MANUAL EMERGENCY OVERRIDE		
85H-TSV2-NCSPLM	2/2 NC SOLENOID DOUBLE CHECK VALVE WITH EMERGENCY		
85H-500080-32-NC	2/2 NC MANUAL OPERATED VALVE		
85H-TMP-08-NC	2/2 NC EMERGENCY BUTTON VALVE		
85H-TCV-08	CHECK VALVE POPPET -TYPE		
85H-TICV2-G1-4	CHECK VALVE BALL-TYPE		
85H-TRV2-08-23	RELIEF VALVE RANGE 20-100 Bar		
85H-TRV2-08-6	RELIEF VALVE RANGE 50-250 Bar		
85H-THP-08	HAND PUMP		
85H-TNV2-08	FLOW CONTROL AJUSTABLE		
85H-TMRV-08	MANUAL LEVER UNLOADING VALVE		
85H-TCV-08G	PLUG		
85H-TCV-08L	PLUG		
85H-TCV-08H	PLUG		
85H-TCV-08P	PLUG		
	WIRING HARNESSES		
85H-BRP02-3	WIRING HARNESS / REMOTE FOR SINGLE ACTION		
85H-BRP02-4	WIRING HARNESS / REMOTE FOR DOUBLE ACTION		
85H-BRP04-6	WIRING HARNESS / REMOTE FOR 2 X DOUBLE ACTION		
	COILS		
85H-DC12COIL	12V DC COIL 13mm ID		
85H-DC24COIL	24V DC COIL 13mm ID		
85H-DC220COIL	220V DC COIL 13mm ID		
	GEAR PUMPS GROUP 1		
85H-GP1-0-75-A	0,75cc GP1 CODE A ROTATION CCW		
85H-GP1-1-1-B	1,1cc GP1 CODE B ROTATION CCW		
85H-GP1-1-3-C	1,3cc GP1 CODE C ROTATION CCW		
85H-GP1-1-6-D	1,6cc GP1 CODE D ROTATION CCW		
85H-GP1-2-1-E	2,1cc GP1 CODE E ROTATION CCW		
85H-GP1-2-7-F	2,7cc GP1 CODE F ROTATION CCW		
85H-GP1-3-2-G	3,2cc GP1 CODE G ROTATION CCW		
85H-GP1-3-7-H	3,7cc GP1 CODE H ROTATION CCW		
85H-GP1-4-2-I	4,2cc GP1 CODE I ROTATION CCW		
85H-GP1-4-8-J	4,8cc GP1 CODE J ROTATION CCW		
85H-GP1-5-8-K	5,8cc GP1 CODE K ROTATION CCW		
85H-GP1-8-0-M	8,0cc GP1 CODE M ROTATION CCW		
	PLEASE NOTE: ALL O.E.M. NAMES OR NUMBERS ARE FOR REFERENCE USE ONLY		PAGE Y 3

Part Number	MINI POWER PACKS		RETAIL:
			23-06-2026
	ACCESSORIES & SPARES PARTS ; TKM SERIES		
	STEEL ROUND TANK		
85H-ST-120-4L	4 LITER	SPIGOT 120mm OD 178mm	
85H-ST-120-6L	6 LITER	SPIGOT 120mm OD 178mm	
85H-ST-120-8L	8 LITER	SPIGOT 120mm OD 178mm	
85H-ST-120-10L	10 LITER	SPIGOT 120mm OD 178mm	
85H-ST-120-12L	12 LITER	SPIGOT 120mm OD 178mm	
85H-ST-120-15L	15 LITER	SPIGOT 120mm OD 178mm	
	STEEL SQUARE TANK		
85H-SST-120-15	15 LITER	SPIGOT 120mm L 300mm X W 250mm X H 270mm	
85H-SST-120-20	20 LITER	SPIGOT 120mm L 300mm X W 300mm X H 280mm	
85H-SST-120-30	30 LITER	SPIGOT 120mm L 350mm X W 300mm X H 330mm	
	PLASTIC SQUARE TANK		
85H-PT-120-5L	5 LITER	SPIGOT 120mm L 300mm X W 180mm	
85H-PT-120-8L	8 LITER	SPIGOT 120mm L 335mm X W 180mm	
85H-PT-120-13L	13 LITER	SPIGOT 120mm L 550mm X W 180mm	
85H-PT-120-24L	24 LITER	SPIGOT 120mm L 1050mm X W 180mm	
85H-390120	WELDABLE NECK SPIGOT 120mm		
	ACCESSORIES SPARES PARTS		
85H-TGT-M82-48	FOOT FLANGE / MOUNTING BRACKET		
85H-OILCAP-3-8	OIL CAP FILLER 3/8"		
85H-OILCAP-1-2	OIL CAP FILLER 1/2"		
85H-ZG38-90	HORIZONTAL SUCTION PIPE 3/8"		
85H-PSP-400	VERTICAL SUCTION PIPE PLASTIC 3/8"		
85H-PSP-530	VERTICAL SUCTION PIPE STEEL 3/8"		
85H-SF-F65	SUCTION FILTER 3/8"		
85H-RP-1-4-500	RETURN LINE PIPE		
85H-RP-G14-320	RETURN LINE PIPE PLASTIC 1/4"		
85H-RP-14-90	90 DEGREE RETURN LINE PIPE PLASTIC 1/4"		
85H-BOLT-T-M6-8	BOLTS FOR TANK SIDE		
85H-BOLT-M-M6-8	BOLTS FOR ELECTRIC MOTOR SIDE		
85H-MC002	DC ELETRIC PLASTIC COVERS MOTOR		

10L STEEL ROUND



15L STEEL SQUARE TANK



13L PLASTIC SQAURE



Part Number	MINI POWER PACKS	RETAIL:
		23-06-2026
	<u>HOW TO ORDER MAKE - UP MINI POWER PACKS ; TKM SERIES</u>	
	HYDRAULIC CIRCUIT; SINGLE ACTING	
CODE;108	CODE; 108 = CENTRAL MANIFOLD	
	PORTS = P 3/8"BSPP & T BLOCKED	
	USE; TO EXTERNAL SINGLE ACTING FUNTION	
	MOTOR ON ; TO P	
	SOLINIOD OR MANUAL ;TO T	
	FLOW CONTROL; ON T IF NEEDED	
	HYDRAULIC CIRCUIT; DOUBLE ACTING	
CODE;107	CODE; 107 = CENTRAL MANIFOLD	
	PORTS = P & T 3/8"BSPP	
	USE; TO EXTERNAL VALVE BANK or DIRECT MOUNT TO NG 6 VALVE BANKS	
	MOTOR ON ; TO P	
	RETURN ; TO T	
	FLOW CONTROL ; ON T IF NEEDED	
	MOTOR VOLTAGE	
CODE;D12	CODE; D12 VOLTAGE DC12V	
CODE;D24	CODE; D24 VOLTAGE DC24V	
CODE;A22	CODE; A22 VOLTAGE AC220V	
CODE;A38	CODE; A38 VOLTAGE AC380V	
	MOTOR POWER DC	
CODE;02	CODE; 02 POWER Kw 1,1	
CODE;03	CODE; 03 POWER Kw 1,6	
CODE;04	CODE; 04 POWER Kw 2,0	
CODE;05	CODE; 05 POWER Kw 2,5	
CODE;06	CODE; 06 POWER Kw 3,0	
	MOTOR POWER AC	
CODE;01	CODE; 01 POWER Kw 0,75	
CODE;02	CODE; 02 POWER Kw 1,1	
CODE;03	CODE; 03 POWER Kw 1,5	
CODE;04	CODE; 04 POWER Kw 2,2	
CODE;05	CODE; 05 POWER Kw 3,0	
CODE;06	CODE; 06 POWER Kw 4,0	
	MOTOR SPEEDS @ NO LOAD	
	12V DC; RPM 2400; Kw 1,1 Kw 1,6 Kw 2,0	
	24V DC; RPM 2600; Kw 1,1 Kw 1,6 Kw 2,2 Kw3,0	
	220V AC; RPM 1420; Kw 0,7 Kw 1,1 Kw 1,5 Kw 2,2 Kw 3,0	
	380V AC; RPM 1420; Kw 1,1 Kw 1,5 Kw 2,2	
	380V AC; RPM 2850; Kw 3,0 Kw 4,0	



Part Number	MINI POWER PACKS					RETAIL:
						23-06-2026
	<u>HOW TO ORDER MAKE - UP MINI POWER PACKS ; TKM SERIES</u>					
	PUMP DISPLACEMENT GROUP 1					
CODE;A	CODE; A	DISPLACEMENT	cc/r 0,75	CONTINUOUS	PRESSURE 230 Bar	
CODE;B	CODE; B	DISPLACEMENT	cc/r 1,1	CONTINUOUS	PRESSURE 230 Bar	
CODE;C	CODE; C	DISPLACEMENT	cc/r 1,3	CONTINUOUS	PRESSURE 230 Bar	
CODE;D	CODE; D	DISPLACEMENT	cc/r 1,6	CONTINUOUS	PRESSURE 230 Bar	
CODE;E	CODE; E	DISPLACEMENT	cc/r 2,1	CONTINUOUS	PRESSURE 230 Bar	
CODE;F	CODE; F	DISPLACEMENT	cc/r 2,7	CONTINUOUS	PRESSURE 230 Bar	
CODE;G	CODE; G	DISPLACEMENT	cc/r 3,2	CONTINUOUS	PRESSURE 210 Bar	
CODE;H	CODE; H	DISPLACEMENT	cc/r 3,7	CONTINUOUS	PRESSURE 210 Bar	
CODE;I	CODE; I	DISPLACEMENT	cc/r 4,2	CONTINUOUS	PRESSURE 210 Bar	
CODE;J	CODE; J	DISPLACEMENT	cc/r 4,8	CONTINUOUS	PRESSURE 190 Bar	
CODE;K	CODE; K	DISPLACEMENT	cc/r 5,8	CONTINUOUS	PRESSURE 190 Bar	
CODE;M	CODE; M	DISPLACEMENT	cc/r 8,0	CONTINUOUS	PRESSURE 190 Bar	
	TANK SIZES ROUND STEEL					
CODE;ST-120-4L	CODE; ST - 120 - 4L	VOLUME	4 LITERS	SPIGOT 120mm	OD 178mm	
CODE;ST-120-4L	CODE; ST - 120 - 6L	VOLUME	6 LITERS	SPIGOT 120mm	OD 178mm	
CODE;ST-120-4L	CODE; ST - 120 - 8L	VOLUME	8 LITERS	SPIGOT 120mm	OD 178mm	
CODE;ST-120-4L	CODE; ST - 120 - 10L	VOLUME	10 LITERS	SPIGOT 120mm	OD 178mm	
CODE;ST-120-4L	CODE; ST - 120 - 12L	VOLUME	12 LITERS	SPIGOT 120mm	OD 178mm	
CODE;ST-120-4L	CODE; ST - 120 - 15L	VOLUME	15 LITERS	SPIGOT 120mm	OD 178mm	
	TANK SIZES SQUARE STEEL					
CODE;ST-120-15LCV	CODE; ST - 120 - 15LCV	VOLUME	15 LITERS	SPIGOT 120mm	L300mm X W250mm X H270mm	
CODE;ST-120-20LCV	CODE; ST - 120 - 20LCV	VOLUME	20 LITERS	SPIGOT 120mm	L300mm X W300mm X H280mm	
CODE;ST-120-30LCV	CODE; ST - 120 - 30LCV	VOLUME	30 LITERS	SPIGOT 120mm	L350mm X W300mm X H330mm	
	RELIEF SETTING					
CODE;180	CODE; 180 Bar					
	MOUNTING					
CODE; H	CODE; H HORIZONTAL					
CODE; V	CODE; V VERTICAL					
	OIL PORTS					
CODE;A	CODE; A OIL PORT 1/4" BSPP					
CODE;B	CODE; B OIL PORT 3/8" BSPP					



[illegible]

PRESSURE CONVERSION CHART

1 kPa = 0,01 bar
1 Mpa = 10,00 bar

1 kPa = 0,145 P.S.I.
1 kg/cm² = 14,223 P.S.I.

Kg/cm² = 1,00 at
1 P.S.I. = 6,895 kPa

kPa	Mpa	bar	kg/cm ²	P.S.I.
5	0,005	0,05	0,05	0,73
10	0,01	0,1	0,10	1,45
25	0,025	0,25	0,25	3,63
50	0,05	0,5	0,51	7,25
75	0,075	0,75	0,76	10,88
100	0,1	1	1,02	14,5
200	0,2	2	2,04	29,0
300	0,3	3	3,06	43,5
400	0,4	4	4,08	58
500	0,5	5	5,10	72,5
600	0,6	6	6,12	87
700	0,7	7	7,14	102
800	0,8	8	8,16	116
900	0,9	9	9,18	131
1000	1	10	10,2	145
2000	2	20	20,4	290
3000	3	30	30,6	435
4000	4	40	40,8	580
5000	5	50	51,0	725
6000	6	60	61,2	870
7000	7	70	71,4	1015
8000	8	80	81,6	1160
9000	9	90	91,8	1305
10000	10	100	102	1450
11000	11	110	112	1595
12000	12	120	122	1740
13000	13	130	133	1885
14000	14	140	143	2030

kPa	Mpa	bar	kg/cm ²	P.S.I.
15000	15	150	152	2175
16000	16	160	163	2320
17000	17	170	173	2465
18000	18	180	183	2610
19000	19	190	194	2755
20000	20	200	204	2900
21000	21	210	214	3045
22000	22	220	224	3190
23000	23	230	235	3335
24000	24	240	245	3480
25000	25	250	255	3625
26000	26	260	265	3770
27000	27	270	275	3915
28000	28	280	286	4060
29000	29	290	296	4205
30000	30	300	306	4350
31000	31	310	316	4495
32000	32	320	326	4640
33000	33	330	337	4705
34000	34	340	347	4930
35000	35	350	357	5075
36000	36	360	367	5220
37000	37	370	377	5365
38000	38	380	387	5510
39000	39	390	398	5655
40000	40	400	408	5800
41000	41	410	418	5945
42000	42	420	428	6090

kPa	Mpa	bar	kg/cm ²	P.S.I.
43000	43	430	438	6235
44000	44	440	449	6380
45000	45	450	459	6525
46000	46	460	469	6670
47000	47	470	479	6815
48000	48	480	489	6960
49000	49	490	500	7105
50000	50	500	510	7250
51000	51	510	520	7395
52000	52	520	530	7540
53000	53	530	540	7685
54000	54	540	551	7830
55000	55	550	561	7975
56000	56	560	571	8120
57000	57	570	581	8265
58000	58	580	591	8410
59000	59	590	602	8555
60000	60	600	612	8700
61000	61	610	622	8845
62000	62	620	632	8990
63000	63	630	642	9135
64000	64	640	653	9280
65000	65	650	663	9425
66000	66	660	673	9570
67000	67	670	683	9715
68000	68	680	693	9860
69000	69	690	704	10005
70000	70	700	714	10150