

HYDRECO

HYDRAULIC SOLUTIONS PROVIDER

**HYDRECO
POWAUTO**

Transport Hydraulics

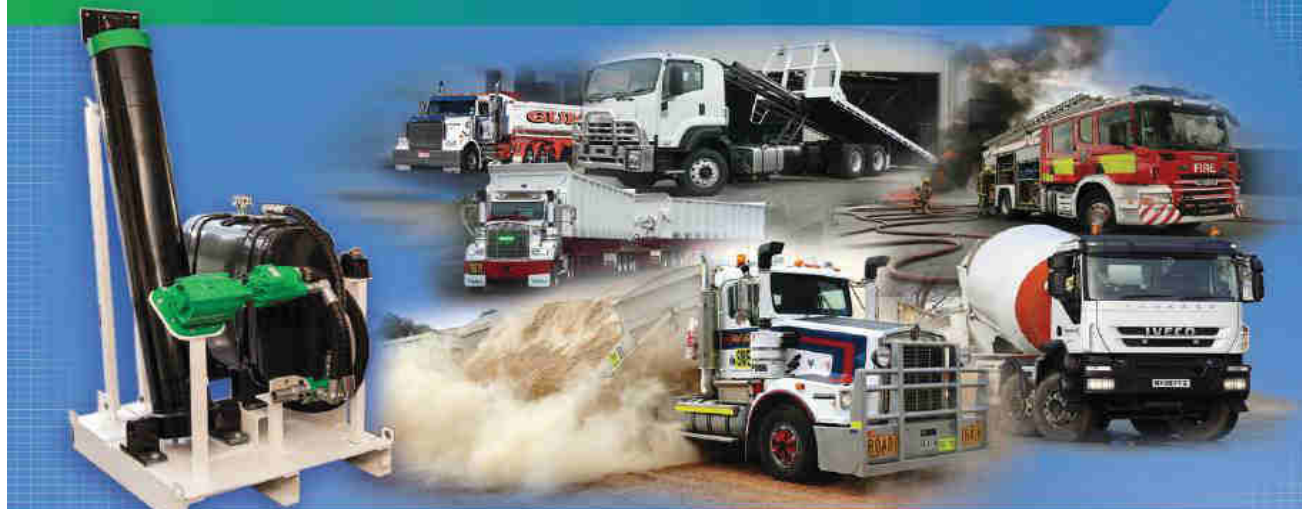
www.hydreco.com

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HYDRAULIC SOLUTIONS PROVIDER



COMPLETE TRANSPORT HYDRAULIC SOLUTIONS



Power Take-Offs

With a comprehensive range of PTOs for most vehicle transmissions, the Powauto solution will be your partner for any application



New designs are fully developed and tested in Australia's harsh environment before being exported to markets across the world.

Eaton Power Take-Offs

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➤ Eaton Fuller (Roadranger) Transmission

- 8 bolt air shift PTO options
 - 850 series
 - 851 series
 - 856 series
 - 39 series "Hotshift"
- 6 bolt air shift PTO
 - 76 series



➤ Eaton 6109/8209 Transmission

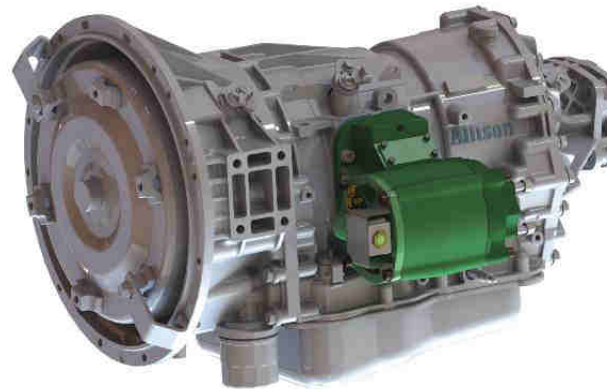
- 6 bolt air shift PTO options
 - 406 series
 - 78 series



Allison Power Take-Offs



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➤ 1000/2000 & 2500 Series Transmissions

- 6 bolt PTO options
 - 35 series "Hotshift"



Allison Power Take-Offs **HYDRECO**



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➤ 3000/4000 “World Series” Transmissions

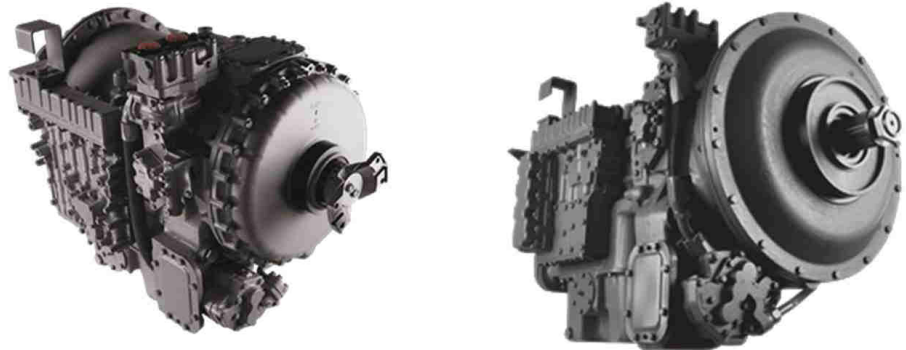
- 10 bolt air shift PTO options
 - 28 series “Constant” Heavy Duty
 - 36 series “Hotshift” Medium Duty
 - 38 series “Hotshift” Heavy Duty
 - 40 series “Hotshift” Heavy Duty
 - 44 series “Constant” Low Ratio Heavy Duty



Allison Power Take-Offs **HYDRECO**



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➤ 5000/6000 & 8000/9000 Series Transmissions

- 8 bolt PTO options
 - 43 series “Hotshift” & “Constant”



European Transmission Power Take-Offs

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Mercedes-Benz



SCANIA



IVECO

A full range of PTOs to suit most European vehicles & transmission



PB136A23



PB151-2A23



PB469A23
Hotshift

Japanese Transmission Power Take-Offs

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- Complete product portfolio to suit all Japanese commercial vehicles
- Close working relationship with Isuzu, Hino & Nissan throughout SE Asia



Pumps



POW Series

The POW Series pump is for applications requiring high pressure & flow. The design of the POW pump is maximised for performance and flow. Manufactured from rugged SG iron this product is well suited to high pressure applications such as cranes, aerial platforms, hook-lift loaders and garbage compactors.



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Technical Specifications		Pump Size								
Pump Ratings		25	35	45	55	65	75	90	115	
Pump flow Rates										
@ 1000 RPM @ No Load										
l/min (USgpm)		23 (6.0)	34 (9.0)	44 (11.6)	54 (14.3)	64 (16.9)	74 (19.5)	88 (23.2)	113 (29.9)	
@ 1000 RPM @ Max. Pressure										
l/min (USgpm)		19 (5.0)	28 (7.4)	40 (10.6)	50 (13.2)	62 (16.4)	72 (19.0)	87 (23.0)	110 (29.0)	
@ 2000 RPM @ Max. Pressure										
l/min (USgpm)		38 (10.0)	56 (14.8)	80 (21.2)	100 (26.4)	124 (32.8)	144 (38.0)	174 (46.0)	220 (58.1)	
Pressure Ratings		bar	310	300	290	280	280	270	250	230
		psi	4495	4350	4200	4060	4060	3915	3625	3335
Operating Speeds (See graph)										
Min Operational		600 rpm								
Max Continuous		2000 rpm								
Max Intermittent		2500 rpm								
Min Suction Line Inside Dia.		(32 mm) (1 1/4" in)				(40mm) (1 1/2" in)				
Pump Port Sizes		Inlet				1 7/8" 12UN O-Ring				
		Outlet				1 5/16" 12UN O-Ring				
Approx. Bare Mass		Kg	10.0	11.0	11.5	12.2	13.0	13.2	14.5	16.0
		lb	22.0	24.2	25.3	26.8	28.6	29.0	31.9	35.2
Seal kit		SK077								
Overall Length		mm	183	191	198	206	213	220	230	248
For full details refer to Powauto or consult your applications guide.										

For full details refer to Powauto or consult your applications guide.

PUA Series

Transport PUA pumps are spur gear and are designed and manufactured to be highly efficient and provide high performance levels and long life when operated within the parameters shown



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Technical Specifications		Pump Size				
Pump Ratings		25	35	45	55	65
Displacement Range	cm ³ /rev	25.0	35.0	45.0	55.0	65.0
	in ³ /rev	1.53	2.14	2.75	3.36	3.97
Pressure Ratings	Rated Pressure					
	bar	310	300	290	280	280
	(psi)	4495	4350	4200	4060	4060
	Peak Pressure					
	bar	345	335	325	315	315
	(psi)	5000	4870	4710	4570	4570
Operating Speeds (See graph)						
Min. Operational		450				
Max. Continuous		2000				
Max. Intermittent		2500				
Min. Suction Line Inside Dia.		32mm (1 1/4" in)				40mm (1 1/2" in)
Pump Port Sizes	Inlet	1 1/4" BSPP				
	Outlet	3/4" BSPP				
Approx. Bare Mass		11	12	12.5	11.2	14
	(lb)	24.3	26.5	27.6	24.7	30.9
Seal kit	SK105	c/w Wear plates				
	SK105A	w/o Wear plates				
Overall Length 'B' mm		186.2	193.3	200.5	207.6	214.7
Mounting face to port centre 'A' mm		149.2	156.3	151.5	158.6	165.7

For full details refer to Powauto or consult your applications guide.

PUT LITE Series

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The PUT UNI Series Pumps have recently been added to our range for the low flow applications. The PUT UNI Pump is a Bi-directional with great pressure ratings.



Pump Codes	Displacement	Max. Continuous Operating Pressure	Max. Speed	A	B	C	D	WEIGHT
	cm ³ /rev	bar		mm	mm	INLET	OUTLET	kg
PUTUNI-6BD	6.1	280	3000	78	130	G1/2"	G1/2"	4
PUTUNI-10BD	10.02	280	3000	84	136	G1/2"	G1/2"	4.5
PUTUNI-16BD	16.2	280	3000	93.5	145.5	G1/2"	G1/2"	4.9
PUTUNI-20BD	20.12	260	3000	100	152	G1/2"	G1/2"	5.3
PUTUNI-25BD	25.05	220	3000	108	160	G3/4"	G3/4"	5.5
PUTUNI-32BD	32.18	190	2800	119	171	G3/4"	G3/4"	6
PUTUNI-40BD	40.15	180	2800	132	184	G3/4"	G3/4"	6.5

PUT Lite Duty Series

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The PUT Series Pumps have recently been added to our range of pumps to provide more options, particularly for the replacement market. The PUT Lite Series pumps are used for applications requiring medium pressure & flow. The design of the PUT Lite pump is maximised for performance and flow. Well suited for Tipper applications.



ISO



UNI

Pump Codes	Mount type	Displacement cm ³ /rev	Working Pressures Continuous Bar/PSI	Working Pressures Intermittent Bar/PSI	Maximum Speed Continuous RPM	Maximum Speed Intermittent RPM	Overall Length (B) mm	Weight kg	Oil inlet BSPP	Oil outlet BSPP
PUTO/S34	UNI	34.3	300/4351	325/4714	2200	2600	162	9.5	1"	3/4"
PUTO/S43	UNI	43.8	280/4061	305/4424	2100	2600	167	10	1"	3/4"
PUTO/S51	UNI	51.4	240/3481	265/3843	2000	3500	172	10.5	1"	3/4"
PUTO/S61	UNI	61.95	220/3191	240/5076	2000	2100	177	11	1.25"	1"
PUTO/S82	UNI	82.13	210/3046	230/3336	1700	1900	190	12	1.25"	1"
PUTO/S3401	ISO	34.3	300/4351	325/4714	2200	2600	174	11.5	1"	3/4"
PUTO/S4301	ISO	43.8	280/4061	305/4424	2200	2600	167	12	1"	3/4"
PUTO/S5101	ISO	51.4	240/3481	265/3843	2000	3500	184	12.5	1"	3/4"
PUTO/S6101	ISO	61.95	220/3191	240/5076	2000	2100	190	13	1.25"	1"
PUTO/S8201	ISO	82.13	210/3046	230/3336	1700	1900	202	14	1.25"	1"

PUTH Heavy Duty Series HYDRECO

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The PUT HD Series Pumps have recently been added to our range of pumps to provide more options, particularly for the replacement market. The PUT HD Series pumps are used for applications requiring high pressure & flow. The design of the PUT HD pump is maximised for performance and flow. Well suited for high pressure applications such as cranes, aerial platforms, hook-lift loaders and garbage compactors.



Pump Codes	Mount type	Displacement cm ³ /rev	Working Pressures Continuous Bar/PSI	Working Pressures Intermittent Bar/PSI	Maximum Speed Continuous RPM	Maximum Speed Intermittent RPM	Overall Length (B) mm	Weight kg	Oil inlet BSPP
PUTO/S63	UNI	63.2	280/4061	310/4496	1800	2800	190	12	1"
PUTO/S73	UNI	71.7	300/4351	320/4641	1800	2800	192	16.5	1"
PUTO/S87	UNI	87.25	265/3844	285/4134	1800	2800	200	17	1.25"
PUTO/S109	UNI	108.9	240/3480	260/3770	1800	2800	206	18	1.25"
PUTO/S6301	ISO	63.2	280/4061	310/4496	1800	2800	200	12	1"
PUTO/S7301	ISO	71.7	300/4351	320/4641	1800	2800	206	17	1"
PUTO/S8701	ISO	87.25	265/3844	285/4134	1800	2800	213	17.3	1.25"
PUTO/S10901	ISO	108.9	240/3480	260/3770	1800	2800	220	18.5	1.25"

PUP 'Powauto mount' Piston Pump Series

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The 'Powauto mount' PUP Series pump is ideal for applications requiring high pressures with confined spaces. This series pump is design with the Powauto mount to directly couple up to a Powauto PTO without having to use any adaptors. Manufactured from high strength alloy housing, this pump is designed for equipment such as cranes and hook-lift loaders. The 40° axis shift allows for installations in compact spaces. Compatible with similar "Industry Standard" bent axis piston pumps.



Pump Codes	Mount Type	Displacement	Max. Pressure Cont.	Max. Pressure Peak	Max. Speed	Min. Speed	Weight	Oil Inlet	Oil Outlet
		l/min	bar	bar	rpm	rpm	kg	BSPP	BSPP
PUPO/S30R	08	32	350	400	2200	200	9.7	R 1"	R 3/4"
PUPO/S40R	08	42	350	400	2200	200	9.9	R 1"	R 3/4"
PUPO/S50R	08	50	350	400	2200	200	10	R 1"	R 3/4"
PUPO/S63R	08	63	350	400	2200	200	10	R 1"	R 3/4"

PUP ISO Piston Pump Series

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The PUP ISO Series pump is ideal for applications requiring high pressures with confined spaces. The design is maximised for performance and flow. Manufactured from high strength alloy housing, this pump is designed for equipment such as Cranes, Walking Floors, Hook-lift loaders and Compactors. The 40° axis shift allows for installations in compact spaces. Compatible with similar "Industry Standard" bent axis piston pumps.



Pump Codes	Mount Type	Displacement cm ³ /rev	Working Pressure bar	Min. Intermitt. bar	Max. Peak bar	Max. Continuous n(l/min)	Max. Intermitt. n(l/min)	Oil Tempature °C	Weight kg	Oil Inlet C	Oil Outlet BSPP
PUPO/S41R01	ISO	41	300	350	400	1200	2000	-20 & 80	10	Ø 44	R 3/4"
PUPO/S51R01	ISO	51	300	350	400	1200	2000	-20 & 80	10	Ø 44	R 3/4"
PUPO/S61R01	ISO	61	300	350	400	1200	2000	-20 & 80	10	Ø 44	R 3/4"
PUPO/S81R01	ISO	81	300	350	400	1200	2000	-20 & 80	14	Ø 44	R 3/4"
PUPO/S101R01	ISO	101	301	351	401	1201	2001	-20 & 81	15	Ø 45	R 1"

Valves



VA83 Series Single Acting Tipper Valve

The 83 Series valve is a bracket mounted, pressure balanced single spool valve, for control on hoist tipping applications.

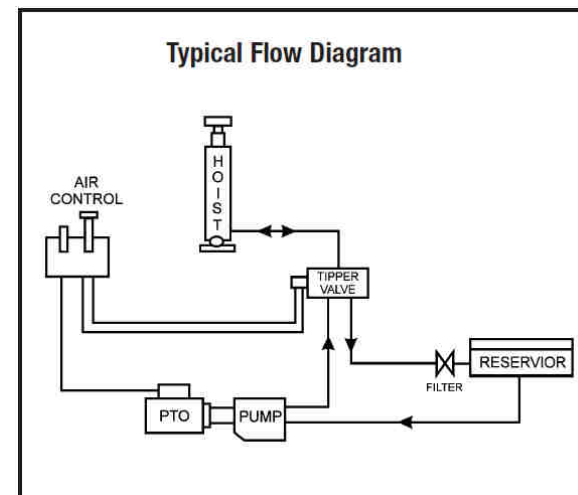
Used in conjunction with a proportional air control (e.g. CK90A or C) the valve controls the rate of lowering when the dampened model is ordered.



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Technical Data	
Flow	The pressure differential in the raise position is 780 kPa (113 psi) at 150 l/min (40 USgpm) flow rate. The pressure differential in the lower or dump position is 480 kPa (70 psi) at 225 l/min (60 USgpm) flow rate.
Maximum Pressure	The maximum working pressure is 210 bar (3000 psi). The relief valve setting is adjustable down to 70 bar (1000 psi).
Port Sizes	Pump Port - 1 1/16" - 12 UN'0' Ring Cylinder Port - 1 1/16" - 12 UN'0' Ring Tank Port - 1 5/16" - 12 UN'0' Ring
Approximate Bare Mass	Series VA83A - 5.1 kg (11.2 lb) Series VA83K - 4.2 kg (9.3 lb)



VA204 Series Dual Spool Tipper Valve

The 204 valve has been designed in response to the changing needs of the modern truck market. These valves provide another option for truck and trailer applications where dual tipping or compact size is required, in conjunction with high flow rates.

When used with a dual hoist control (e.g. CK108, CK167 TCU) these valves provide a compact solution to a common problem.

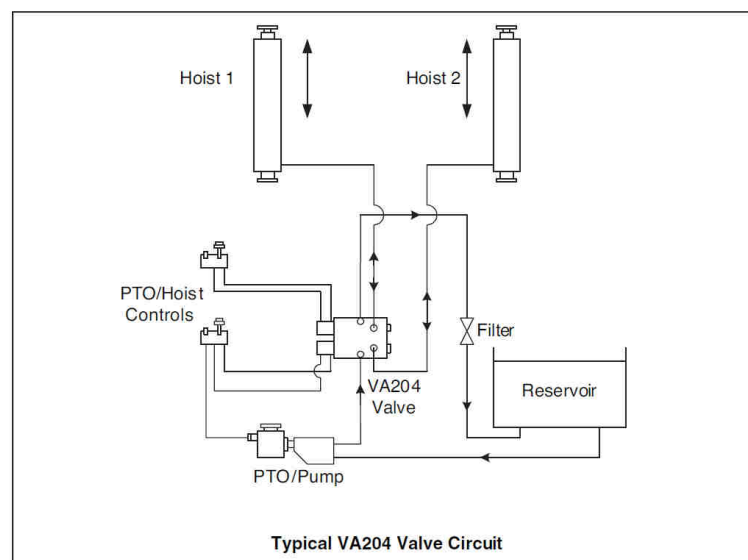


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Technical Specification

Part Number	VA 204A140B
Number of spools	2
Spool function	Single acting
Flow capacity	140 l/min
Port sizes 'P' & 'B'	3/4 inch BSPP
Port Size 'T'	1 inch BSPP
Dampened on lower	Yes



VA300 Series Monoblock Valves

The VA300 valve offers its user optimised characteristics with regard to function, capacity and quality. It is designed with the machine builders high demands of cost effectiveness, function and need of exceptionally good load manoeuvrability in mind. Suitable areas of use are Side-Tippers, Forklifts, Cranes, Loaders, excavators and other equipment where precise load control is required.



Technical Specifications	
Max Pressure	320 bar (4600 psi)
Max Pressure Port Relief	300 bar (4200 psi)
Max Tank Pressure	10 bar (150 psi)
Max Flow	140 lpm (37 US gpm)
Temperature-	40 to 80 deg C
Spool Leakage @ 100 bar	10cc/min Max
Filtration	18/14 t ISO4406
Viscosity Operating	10-400 cST

Port Sizes	BSPP
A, B	3/4"
P1, P2, T2	3/4"
T1	1"
HPCO	3/4"

Weight	Kg (lbs)
VA3018	.5 (18.9)
VA302	11.7 (26)
VA303	15.9 (35.3)
VA304	19.8 (44)
VA306	28.2 (62.7)

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VALVE MODEL CODE

300 Series Valves

VA 301 A 140 D H *

Identifier
VA = Valve

Valve Series & No. of Spools

301 = 1 spool
302 = 2 spools
303 = 3 spools
304 = 4 spools
306 = 6 spools

Spool Control

- = Enclosed Lever (Standard)
A = Pneumatic Pilot on/off
P = Pneumatic Pilot proportional
H = Hydraulic pilot

Relief Setting in Bar

140 = 140 bar (2033 psi) Standard

Spool Type

D = Double Acting Cylinder
M = Motor
S = Single Acting "B" Port

Outlet Features

Blank = Standard
H = High Pressure Carry Over
C = Closed Centre

Manufacturer's Code

Used to indicate special features

VA600 Series Single Spool Valve

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The VA601 valve offers its user optimised characteristics with regard to function, capacity and quality. It is designed with the machine builders high demands of cost effectiveness, function and need of exceptionally good load manoeuvrability in mind. Suitable areas of use are Tippers, loaders and other equipment where precise load control is required. Although the valves external dimensions are small, it does allow high internal flows and can be equipped with a large number of accessories as standard.



Technical Specifications	
Max Pressure	320 bar (4600 psi)
Max Tank Pressure	10 bar (150 psi)
Max Flow	180 lpm (48 US gpm)
Temperature-	-40 to 80 deg C
Spool Leakage @ 100 bar	10cc/min Max
Filtration	18/14 t ISO4406
Viscosity Operating	10-400 cST

Port Sizes	BSPP
A, B	3/4"
P1, P2, T2	3/4"
T1	1"
HPCO	3/4"

Weight	Kg (lbs)
VA6018	.5 (18.9)

VALVE MODEL CODE

600 Series Valves

VA 601 A 140 D H *

Identifier

VA = Valve

Valve Series & No. of Spools

601 = 1 spool only

Spool Control

- = Enclosed Lever (Standard)
A = Pneumatic Pilot on/off
P = Pneumatic Pilot proportional
H = Hydraulic pilot
R = 3 Position Detent

Relief Setting in Bar

140 = 140 bar (2033 psi) Standard.
Z140 = 140 bar Dual Relief

Spool Type

D = Double Acting Cylinder
M = Motor
S = Single Acting "B" Port

Outlet Features

Blank = Standard
H = High Pressure Carry Over
C = Closed Centre

Manufacturer's Code

Used to indicate special features

Q Series Monoblock Valves

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The Q Series Monoblock directional control valves with high strength cast iron body and nickel plated spools, available from 1 to 8 working section, with flow up to 120 Lit./min. and with maximum working pressure up to 350 bar. Available with BSP ports from 1/4" to 1", UNF from SAE 6 up to SAE 16. Characterized by compact overall dimensions, low pressure drop and very low internal leakages.

The Q Series Monoblock directional control valves can be assembled with several controls and positioning types, several spools with different sensitive levels. To control pressure, auxiliary valves can be assembled on each directional control valve, like anti-shock valves, anti-cavitation valves or both.



	Q25	Q45	Q75	Q95
Working section max number		6	5	3
Oil range temperature	-30/80 °C -22/176 °F			
Recommended oil temperature	30/60 °C 86/140 °F			
Recommended filtering	18 / 16 / 13			
Port Sizes		1/2" BSP	1-1/16" UNF	3/4" BSP
Viscosity	58.9/1867 sus @ 100 °F			

Max working pressure	BAR / PSI			
From 1 up to 2 sections	350 5076	350 5076	350 5076	350 5076
3 sections	320 4640	300 4350	300 4350	300 4350
From 4 up to 6 sections	300 4350	270 3916	/	/
Max back pressure	25 362			
On request, 1 or 2 section Monoblock valve only, max back pressure may be 180 bar (indicate the letter "s" at the end of coding)	*	*		
Recommended Maximum Flow	23 LPM	45 LPM	75 LPM	120 LPM

VA3601 Series Tank Mounted Tipper Valves

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The VA302 Series tank mounted control valve is a new product added to our range, providing an ease to fit solution for a light to medium tipper truck application. The VA3602 has been designed in response to the changing needs of the modern truck market and provides a compact solution to a common problem.



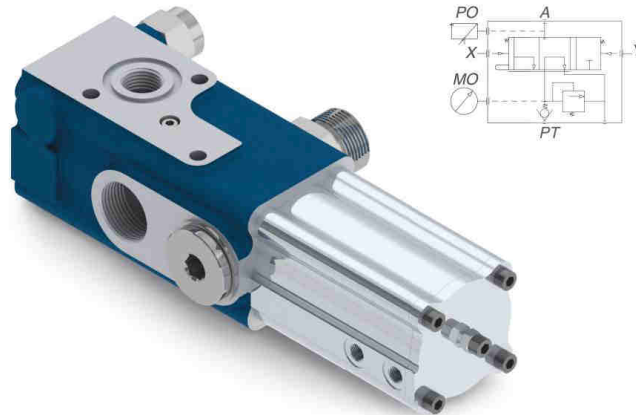
Valve Code	Flow Rate	Max. Working Pressure	Max. Peak Pressure	Pneumatic Working Pressure	Weight	Port 'P'	Port 'T'	Port 'C'
	l/min	bar	bar	bar	kg	BSPP	BSPP	BSPP
VA3601A140A	110	170	190	12	7.5	G1"	G3/4"	G1"

VA3602 Series Tank Mounted Tipper Valves

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The VA301 Series high flow tank mounted control valve is a new product added to our range, providing an ease to fit solution for a tipper application. The VA3601 has been designed in response to the changing needs of the modern truck market and provides a compact solution to a common problem.



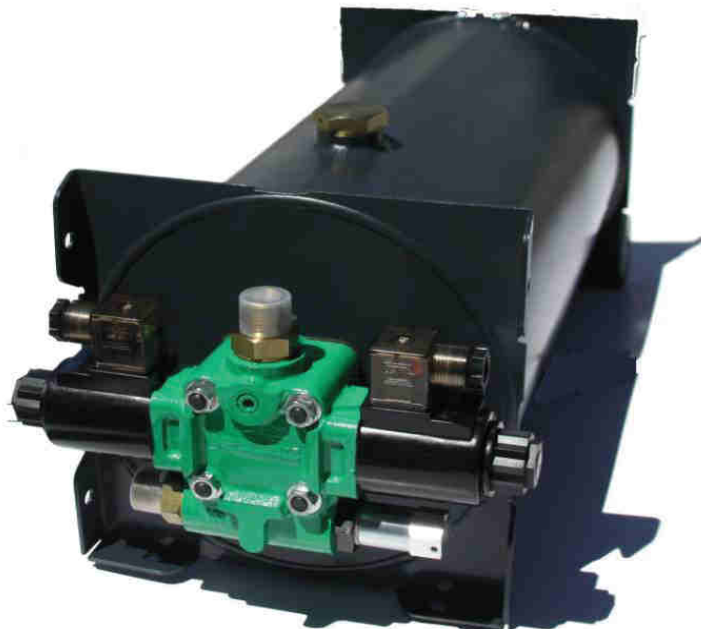
Valve Code	Flow Rate	Max. Working Pressure	Max. Peak Pressure	Pneumatic Working Pressure	Weight	Port 'P'	Port 'T'	Port 'C'
	l/min	bar	bar	bar	kg	BSPP	BSPP	BSPP
VA3602A140A	180	200	350	7-21	6.4	G3/4"	G1/2"	G1"

TKV15 Series Tank Valve Assembly

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The Electric Open centre tipping valve available in 12V & 24V, operated by switch to suit light duty tipper trucks. Comes with a built-in check and adjustable relief valve. Mounted to a 15ltr steel powder coated hydraulic tank for undemanding and low cost fitment to the vehicle.



Technical Specifications

Maximum Flow	40 L (10.5 US GPM)
Max. Working Pressure	250 Bar (3625 PSI)
Max. Peak Pressure	300 Bar (4350 PSI)
Temperature	-25 to 80 °C
Viscosity Range	12 - 100cSt
Oil Filtering	25µm
Weight	8 Kg
Valve Ports	1/2" BSPP
Tank Ports	3/4" BSPP

For full details refer to your Hydreco distributor

VA86 Series Diverter Valve

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The 86 Series valve is used to direct oil flow from between two hydraulic applications.

This valve is used extensively in B-Double and Truck & Dog applications for tipping both the front and rear trailers. Can be control manually or pneumatically



Technical Data

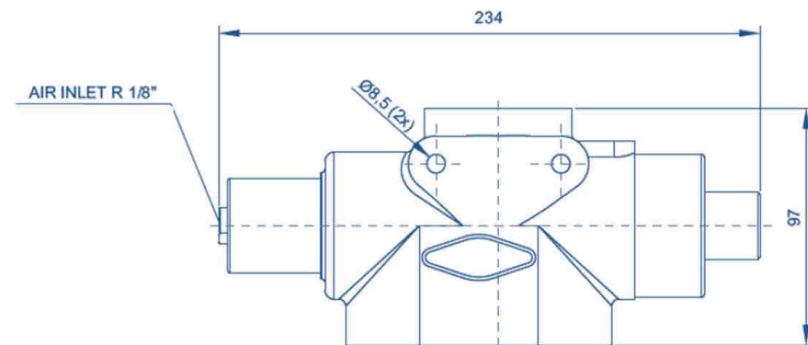
Flow:	189 l/min (50 USgpm). (With spool in any positions the oil passageway within the valve is equivalent to a 1" diameter hose or pipe.)
Port Sizes:	1 5/16" 12UN O-Ring
Approximate Bare Mass:	Series 86C - 7.1 kg (15.7 lb) Series 86A - 7.8 kg (17.2 lb)

VA3603 Series Diverter Valve

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The VA3603 Series valve is a low cost smaller in size option used to direct oil flow from between two hydraulic applications. This valve is used extensively in B-Double and Truck & Dog applications for tipping both the front and rear trailers. Can only be controlled pneumatically



Valve Code	Flow Rate	Max. Pressure	Pneumatic	Weight	Ports
	l/min	bar	bar	kg	BSPP
VA3603A	140	350	12	7.5	G 1"

D3V Series Diverter Valves

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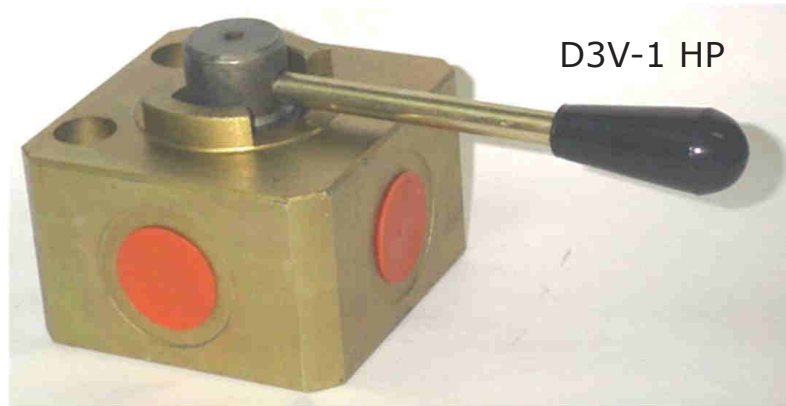
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Ideal for low to medium flow diversion in medium or high pressure systems, This valve provides a low cost alternative to an air-operated truck hydraulic system.

Simple to operate this valve opens both systems during transition to prevent pressure spikes in operation.



D3V-3/4



D3V-1 HP

Model	Max Flow (l/min)	Max Pressure (bar)	d1	d2	C	D	E	F	G	H	I	L
D3V-1/2	80	250	G1/2	8.5	36	43	96	173	30	85	24	70
D3V-3/4	120	220	G3/4	10.5	41	47	101	179	32	91	28	80
D3V-1	180	220	G1	10.5	50	51	115	194	32	98	32	90
D3V-1/2 HP	90	350	G1/2	11	27.5	40	80	165	30	80	38	71
D3V-3/4 HP	120	350	G3/4	11.5	30	45	90	169	32	90	44	80
D3V-1 HP	180	320	G1	11	38	53	106	217	60	106	53	88

Controls



Cable Operated Controls

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Developed for operation of equipment on trucks that are not equipped with air, these kits enable PTOs & Valves to be operated efficiently from the truck cab.

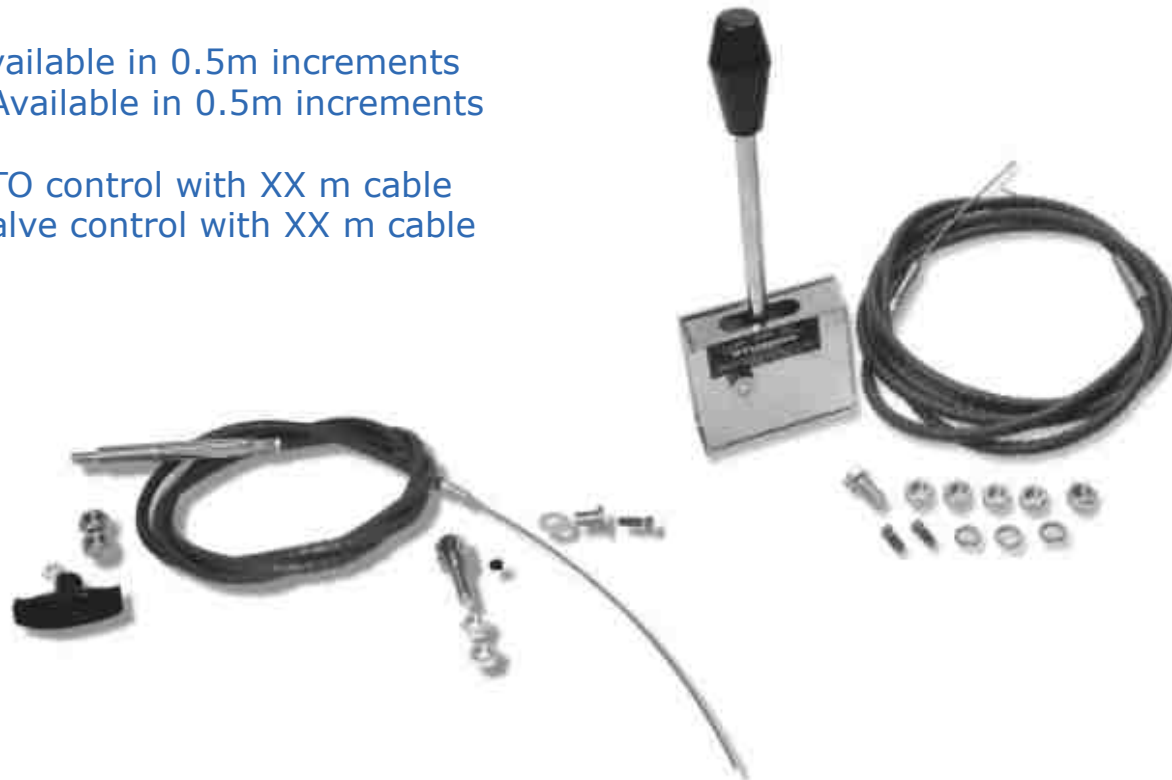
PTO Controls - Available in 0.5m increments

Valve Controls - Available in 0.5m increments

Designation:

CKxx21 - PTO control with XX m cable

CKxx62 - Valve control with XX m cable



Cabin Controls

HYDRECO

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Designed for modern truck cabs, these controls are manufactured to exacting tolerances ensuring consistent, trouble-free operation. Powauto produces a wide variety of controls dependent on your requirements. From PTO only to the most complex truck and trailer assembly. Configured for discreet fitment – ordering the right control for your truck cab is easy. Auto Disengage is an available option.



CK90 – Single Hoist Control with PTO Engagement



CK96 – Hoist Control available in a variety of options for Single & Dual Systems with PTO engagement.



CK158 – Electric over Air Hoist Control available with PTO engagement and tailgate.



CK113– Single Hoist Control with PTO Engagement and Auxiliary (e.g. Tailgate)



CK114– Single Hoist Control with a Pedestal Mount, PTO Engagement and Auxiliary (e.g. Tailgate)



CK98 – Single Hoist Control with PTO engagement available in a variety of options. Pedestal is optional



Cabin Controls

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CK108– Air Dual Hoist Control with a Pedestal Mount, PTO Engagement, Two (2) Auxiliary (e.g. Tailgates) and Dolly Lock



CK167– Intelligent TCU Control System for Truck and Trailer application c/w PTO engagement, two (2) Hoist raise/lower, two (2) tailgate release and Dolly lock.



CK158– Standard TCU Control System for Truck and Trailer application c/w PTO engagement, two (2) Hoist raise/lower, two (2) tailgate release and Dolly lock.

Cabin Controls

HYDRECO

HYDRAULIC SOLUTIONS PROVIDER

Hydreco has a lot optional extras to suit variety of different truck cabins in the market today.

Single Acting Solenoid Valve for PTO engagement

We cover a big range of PTO Control Kits to suit most vehicle in the Market.



CK173 – PTO Engagement



CK156 A & B – Pneumatic Systems

CK165 A & B – Vacuum Systems



Single Acting Air Controls



CK94 – PTO Engagement



Banks of Single Acting Control Switches for Auxiliary options. Banks of 2, 3 & 4

Remote Mounted Electric Over Hydraulic Kits

CK149 A – 12V unit to suit 35 & 36 Series PTOs
CK149 B – 24 V unit to suit 35 & 36 Series PTOs

CK150 A – 12V unit to suit the 38 Series PTO
CK150 B – 24V unit to suit the 38 Series PTO



Hydraulic Oil Tanks

HYDRECO

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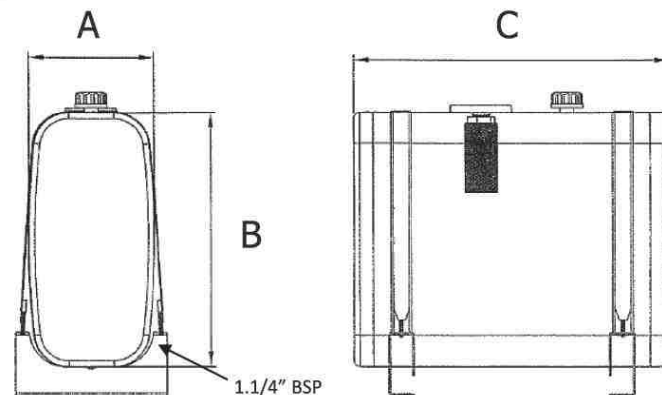
Once you the capacity of the oil require for the application, we have a large variety of Hydraulic Tanks available to suit different chassis types. With volumes from 20 to 250 litres in Square and Rectangular shapes, with Round types to follow. They are made from Steel or Aluminium and are supplied with Filter, Breather, level gauge, Bracket and Straps.



Aluminium Over Chassis Oil Tanks

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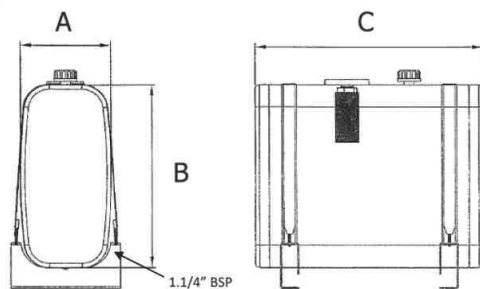
OVER CHASSIS OIL TANKS (ALUMINIUM)

Part Numbers	Dimensions			Tank Cap.	Working Cap.
	A	B	C		
TK3265120RAL	32	65	65	135	120
TK3265160RAL	32	65	90	185	160
TK3265190RAL	32	65	110	225	190
TK3265230RAL	32	65	125	255	230
TK4050135RAL	40	50	79	158	135
TK4050150RAL	40	50	89	175	150
TK4050165RAL	40	50	98	195	165
TK4050190RAL	40	50	110	220	190
TK4050220RAL	40	50	125	250	220

Steel Over Chassis Oil Tanks

HYDRECO

HYDRAULIC SOLUTIONS PROVIDER

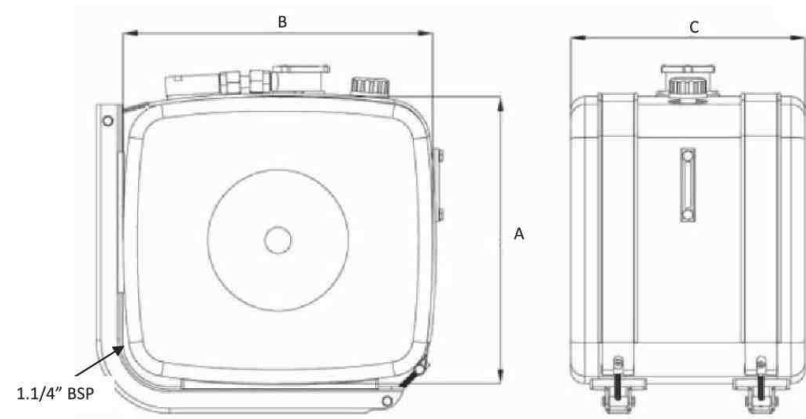


OVER CHASSIS OIL TANKS (STEEL)					
Part Numbers	Dimensions			Tank Cap.	Working Cap.
	A	B	C		
TK255155R	25	51	52	65	55
TK255165R	25	51	59	75	65
TK255175R	25	51	73	93	75
TK255190R	25	51	84	105	90
TK2551100R	25	51	95	120	100
TK2551110R	25	51	105	130	110
TK2551140R	25	51	125	160	140
TK315190R	31	51	68	105	90
TK3151100R	31	51	77	120	100
TK3151110R	31	51	85	134	110
TK3151135R	31	51	100	155	135
TK3151150R	31	51	113	175	150
TK3151180R	31	51	125	197	180
TK3265120R	32	65	65	135	120
TK3265160R	32	65	90	185	160
TK3265190R	32	65	110	225	190
TK3265230R	32	65	125	255	230
TK4050135R	40	50	79	158	135
TK4050150R	40	50	89	175	150
TK4050165R	40	50	98	195	165
TK4050190R	40	50	110	220	190
TK4050220R	40	50	125	250	220
TK4060170R	40	60	82	195	170
TK4060190R	40	60	93	220	190
TK4060230R	40	60	110	264	230
TK4060250R	40	60	120	285	250

Aluminium Side Mounted Oil Tanks

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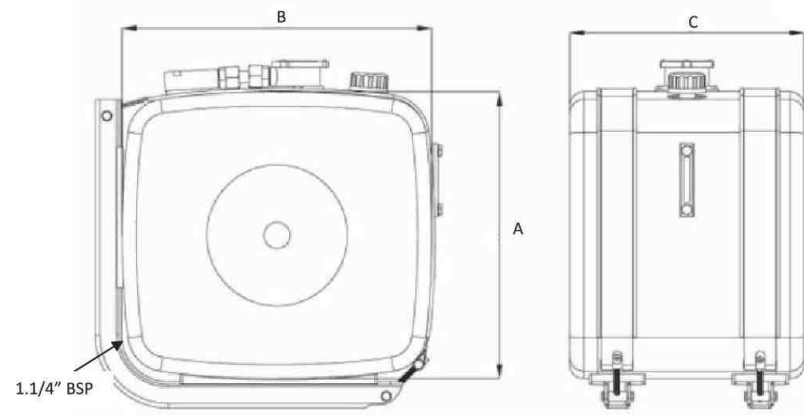


SIDE CHASSIS OIL TANKS (ALUMINIUM)					
Part Numbers	Dimensions			Tank Cap.	Working Cap.
	A	B	C		
TK405065SAL	40	50	40	80	65
TK405080SAL	40	50	50	100	80
TK4050100SAL	40	50	60	120	100
TK5664115SAL	56	64	40	128	115
TK5664140SAL	56	64	50	160	140
TK5664160SAL	56	64	60	190	160
TK6267150SAL	62	67	40	166	150
TK6267180SAL	62	67	50	207	180
TK6267220SAL	62	67	60	249	220
TK7070166SAL	70	70	40	196	166
TK7070215SAL	70	70	50	245	215
TK7070264SAL	70	70	60	294	264

Steel Side Mounted Oil Tanks

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SIDE CHASSIS OIL TANKS (STEEL)					
Part Numbers	Dimensions			Tank Cap.	Working Cap.
	A	B	C		
TK405065S	40	50	40	80	65
TK405080S	40	50	50	100	80
TK4050100S	40	50	60	120	100
TK5064115S	50	64	40	128	115
TK5064140S	50	64	50	160	140
TK5064160S	50	64	60	190	160
TK6267150S	62	67	40	166	150
TK6267180S	62	67	50	207	180
TK6267220S	62	67	60	249	220
TK6170151S	61	70	40	170	150
TK6170190S	61	70	50	213	190
TK6170230S	61	70	60	256	230

Single and Double Acting Power Packs

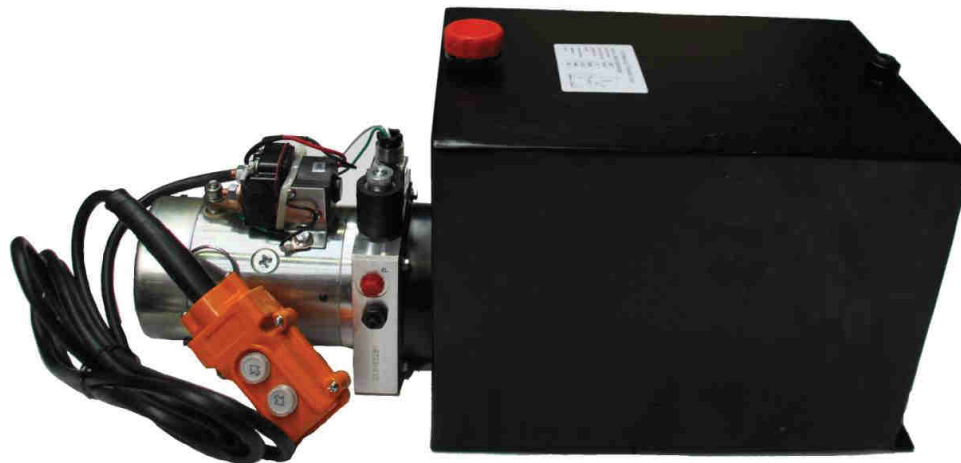
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Single Acting 12V or 24V motor, this power unit has a check valve, and adjustable relief valve, adjustable lowering speed, emergency lowering valve and the choice of 5, 7, 10, 16 & 20 litre tanks. A sealant pendant control is also available as an option.

Double Acting power units are available in 12V or 24V configurations and has two adjustable relief valves (one main and one low pressure on Port 'A'). It is also available with a check valve, 5, 7, 10, 16 & 20 litre tanks and comes complete with a sealed pendant control.

The Power Packs are S3 duty and are made for intermittent use only (10% of 10 mins.).



Single and Double Acting Power Packs

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POWER UNIT MODEL CODE

DC Power Units

David Brown Power Unit

Motor Voltage

- 1. 12 Volt DC
- 2. 24 Volt DC

Motor Power

- W = 1.5kW
- A = 2.0kW

Relief Pressure

- E = 160 Bar Standard
- Externally Adjustable

Pump Size

- 2.1 = 2.1 cc/rev

DBPU 1 W E 2.1 B 2 *

Manufactures Code

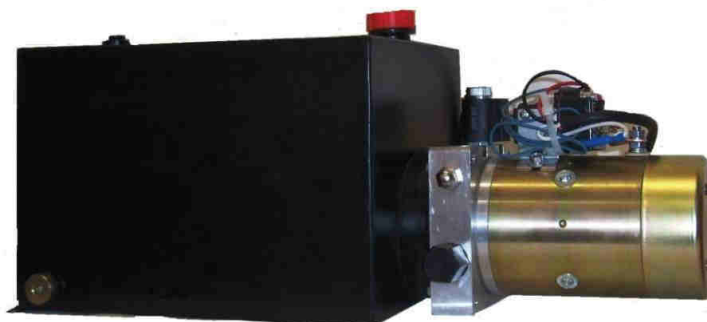
- R = Remote control

Circuit Type

- 2 = Single Acting
- 61 = Double Acting
- See Below for Details

Tank Capacity

- B = 5 Litre
- C = 7 Litre
- D = 10 Litre
- E = 12 Litre
- G = 16 Litre
- H = 20 Litre



Hydraulic Couplings

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Designed for speedy and efficient connections of hydraulic hoses where equipment is interchanged, Powauto quick release couplings offer the best solution for the transport industry. Available in a full range of sizes from 1/4" to 1", Powauto quick release couplings provide self sealing hose ends or pressure eliminator options to prevent oil loss and ease of engagement. Also available with ISO standard flat face mounts plus a range of options.



Hydraulic Coupling		
DBP-2510	Coupling body	1/4"
DBP-2520	Plug in Nipple	1/4"
DBP-3810	Coupling body	3/8"
DBP-3820	Plug in Nipple	3/8"
DBP-5010	Coupling body	1/2"
DBP-5020	Plug in Nipple	1/2"
DBP-7510	Coupling body	3/4"
DBP-7520	Plug in Nipple	3/4"
DBP-10010	Coupling body	1"
DBP-10020	Plug in Nipple	1"
Hydraulic Couplings with pressure eliminator		
DBP-3811	Coupling body with P.E.	3/8"
DBP-3821	Plug in Nipple with P.E.	3/8"
DBP-5011	Coupling body with P.E.	1/2"
DBP-5021	Plug in Nipple with P.E.	1/2"
DBP-7511	Coupling body with P.E.	3/4"
DBP-7521	Plug in Nipple with P.E.	3/4"
DBP-10011	Coupling body with P.E.	1"
DBP-10021	Plug in Nipple with P.E.	1"

Plugs & Caps		
DBP-2516	Plug	1/4"
DBP-2526	Cap	1/4"
DBP-3816	Plug	3/8"
DBP-3826	Cap	3/8"
DBP-5016	Plug	1/2"
DBP-5026	Cap	1/2"
DBP-7516	Plug	3/4"
DBP-7526	Cap	3/4"
DBP-10016	Plug	1"
DBP-10026	Cap	1"
Repair Kits		
DBP-2500-PSN*	'O' Ring Kit	1/4"
DBP-3800-PSN*	'O' Ring Kit	3/8"
DBP-5000-PSN*	'O' Ring Kit	1/2"
DBP-7500-PSN*	'O' Ring Kit	3/4"
DBP-10000-PSN*	'O' Ring Kit	1"

* for Viton 'O' Ring Kit, change 'N' to 'V'.

Underbody Cylinders

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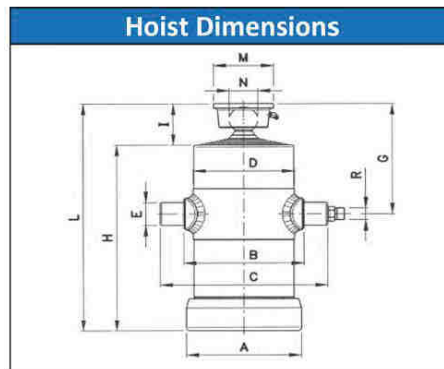
The UBB series hoist are manufactured from the highest quality hot rolled seamless tube machined to exacting tolerances. A chrome film is applied to the outer surface of all sliding sections. The sliding sections use quality Delrin bearings a thermoplastic used for high stiffness, low friction and excellent dimensional stability to ensure Long life and trouble free operation. All seals are high quality distortion-proof polyurethane. All upper and lower stops are steel and machined on the tubes to ensure reliable service. Ideal for rear or side tipping applications, these hoists can be used from 2 to 28 tones payload.



Underbody Cylinders

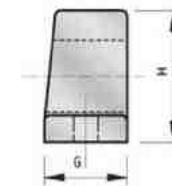
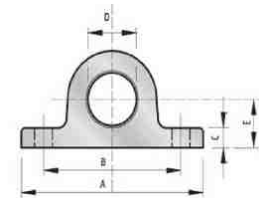
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Hoist Mount Dimensions (mm)									
Part No.	A	B	C	D	E	F	G	H	kg
UBFM-35	130	95	12	36	30	13	40	56	0.9
UBFM-40	140	108	15	41	33	15	45	66	1.2
UBFM-45	140	108	15	46	33	15	45	66	1.2
UBFM-50	150	116	15	51	36	15	45	71	1.4

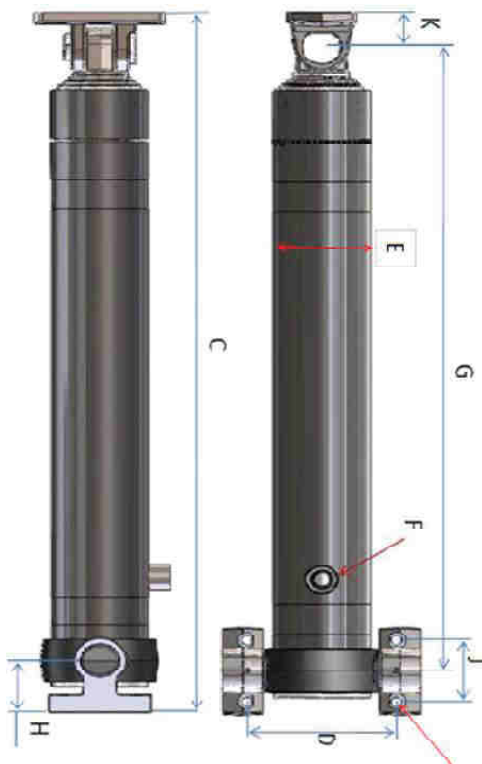
Designation	Stages	Stroke	Stage Diameter (mm)										Nominal 100 BAR	Rated 160 BAR	Ideal Pivot Centres	Dimensions (mm)												Weight kg	Swept Volume litres
			32	46	61	72	76	91	107	127	146	166				A	B	C	D	E	G	H	I	L	M	N	R		
UBB95-3-500	3	500		o	o		o						3	4.8	565	110	115	200	95	35	142	245	69	314	100	45	1/2"	14	2.0
UBB114-4-850	4	850		o	o		o	o					5	8	980	130	135	220	114	35	142	289	71	360	100	45	1/2"	22	4.2
UBB127-4-1500	4	1500			o		o	o	o				8	12.8	1745	145	150	232	127	40	153	454	84	538	115	55	1/2"	40	10.3
UBB127-4-1700	4	1700			o		o	o	o				8	12.8	1980	145	150	232	127	40	153	504	84	588	115	55	1/2"	44	11.6
UBB127-4-2000	4	2000			o		o	o	o				8	12.8	2335	145	150	232	127	40	153	579	84	663	115	55	1/2"	53	13.5
UBB127-5-1050	5	1050		o	o		o	o	o				5	8	1215	145	150	232	127	40	142	288	73	361	100	45	1/2"	26	6.5
UBB127-5-1250	5	1250		o	o		o	o	o				5	8	1450	145	150	232	127	40	142	328	73	401	100	45	1/2"	29	7.6
UBB127-5-1500	5	1500		o	o		o	o	o				5	8	1745	145	150	232	127	40	142	378	73	451	100	45	1/2"	33	9.0
UBB127-5-2150	5	2150		o	o		o	o	o				5	8	2510	145	150	232	127	40	142	508	73	581	100	45	1/2"	41	12.6
UBB127-5-2500	5	2500		o	o		o	o	o				5	8	2925	145	150	232	127	40	142	578	73	651	100	45	1/2"	45	14.6
UBB127-6-850	6	850	o	o	o		o	o	o				5	8	980	145	150	232	127	40	142	218	73	291	100	45	1/2"	21	4.9
UBB127-6-1020	6	1020	o	o	o		o	o	o				5	8	1180	145	150	232	127	40	142	247	73	320	100	45	1/2"	23	5.6
UBB152-5-1500	5	1500			o		o	o	o	o			9	14.4	1745	170	175	262	152	45	155	391	86	477	115	55	1/2"	50	13.1
UBB152-5-2150	5	2150			o		o	o	o	o			9	14.4	2510	170	175	262	152	45	155	521	86	607	115	55	1/2"	61	18.3
UBB152-5-2500	5	2500			o		o	o	o	o			9	14.4	2925	170	175	262	152	45	155	591	86	676	115	55	1/2"	70	21.0
UBB152-6-1500	6	1500		o	o		o	o	o	o			6	9.6	1745	170	175	262	152	45	144	343	75	418	100	45	1/2"	38	11.9
UBB152-6-1800	6	1800		o	o		o	o	o	o			6	9.6	2100	170	175	262	152	45	144	393	75	468	100	45	1/2"	43	13.9
UBB152-6-3000	6	3000		o	o		o	o	o	o			6	9.6	3515	170	175	262	152	45	144	593	75	668	100	45	1/2"	62	22.2
UBB193-6-1800	6	1800				o		o	o	o	o	o	18	28.8	2100	220	230	320	193	50	247	406	96	52	107	65	3/4"	84	25.5
UBB193-6-2220	6	2220				o		o	o	o	o	o	18	28.8	2595	220	230	320	193	50	247	476	96	572	107	65	3/4"	96	30.9
UBB193-6-3000	6	3000				o		o	o	o	o	o	18	28.8	3515	220	230	320	193	50	247	606	96	702	107	65	3/4"	118	40.8



World Series Cylinder Data

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Designation	Closed Height 'C'	Stroke	Outer Barrel Size	Inlet Port 'F'	CTC Height 'G'	Foot Mount 'H'	Top Mount 'K'	Foot Hole Pattern 'D' x 'T'	Top Plate Hole Pattern 'U' x 'M'	Tipping Capacity 48"	Weight Kg	Swept Volume Litres	Pivot Length
560-120-3-2710	1249	2710	143	1" 1/8" UNO-RING	1099	90	60	219 x 95	146 x 70	20t	99	22	3305
560-120-3-3040	1359	3040	143		1209	90	60	219 x 95	146 x 70	20t	107	25	3707
560-120-3-3300	1445	3300	143		1295	90	60	219 x 95	146 x 70	20t	113	27	4024
560-120-3-3440	1492	3440	143		1342	90	60	219 x 95	146 x 70	20t	117	28	4195
560-120-3-3640	1559	3640	143		1409	90	60	219 x 95	146 x 70	20t	119	30	4439
560-120-3-3740	1592	3740	143		1442	90	60	219 x 95	146 x 70	20t	123	31	4561
560-120-3-3855	1630	3855	143		1480	90	60	219 x 95	146 x 70	20t	126	32	4701
560-120-3-4025	1687	4025	143		1537	90	60	219 x 95	146 x 70	20t	130	33	4909
560-143-3-2720	1253	2720	165		1103	90	60	239 x 95	146 x 70	30t	118	31	3317
560-143-3-3050	1363	3050	165		1213	90	60	239 x 95	146 x 70	30t	128	35	3720
560-143-3-3235	1424	3235	165		1274	90	60	239 x 95	146 x 70	30t	134	37	3945
560-143-3-3565	1534	3565	165		1384	90	60	239 x 95	146 x 70	30t	143	41	4348
560-143-3-3740	1592	3740	165		1442	90	60	239 x 95	146 x 70	30t	149	43	4561
560-143-3-3925	1654	3925	165		1504	90	60	239 x 95	146 x 70	30t	154	45	4787
560-143-3-4109	1716	4109	165		1566	90	60	239 x 95	146 x 70	30t	159	48	5011
560-143-3-4313	1783	4313	165		1633	90	60	239 x 95	146 x 70	30t	165	50	5260
560-143-3-4680	1907	4680	165		1757	90	60	239 x 95	146 x 70	30t	177	54	5707
560-143-4-3300	1180	3300	165	1" 5/16" UNO-RING	1030	90	60	239 x 95	146 x 70	30t	134	32	4024
560-143-4-3500	1230	3500	165		1080	90	60	239 x 95	146 x 70	30t	140	37	4268
560-143-4-3700	1280	3700	165		1130	90	60	239 x 95	146 x 70	30t	146	39	4512
560-143-4-3900	1330	3900	165		1180	90	60	239 x 95	146 x 70	30t	150	41	4756
560-143-4-4100	1380	4100	165		1230	90	60	239 x 95	146 x 70	30t	155	44	5000
560-143-4-4335	1436	4335	165		1286	90	60	239 x 95	146 x 70	30t	165	46	5287
560-143-4-4703	1530	4703	165		1380	90	60	239 x 95	146 x 70	30t	175	50	5735
560-143-4-4995	1603	4995	165		1453	90	60	239 x 95	146 x 70	30t	181	56	6091
560-165-4-4160	1412	4160	190		1262	90	60	305 x 165	146 x 70	40t	179	58	5073
560-165-4-4640	1532	4640	190		1382	90	60	305 x 165	146 x 70	40t	194	65	5659
560-165-4-4700	1548	4700	190		1398	90	60	305 x 165	146 x 70	40t	196	66	5732
560-165-4-5100	1646	5100	190		1496	90	60	305 x 165	146 x 70	40t	208	71	6220
560-165-4-5485	1743	5485	190		1593	90	60	305 x 165	146 x 70	40t	220	77	6689
560-165-4-5696	1797	5696	190		1647	90	60	305 x 165	146 x 70	40t	226	80	6946
560-165-4-5965	1863	5965	190		1713	90	60	305 x 165	146 x 70	40t	235	84	7274
560-190-4-5985	1908	5985	216	1" 5/16" UNO-RING	1738	110	60	343 x 165	184 x 95	50t	300	114	7299
560-190-4-6385	2008	6385	216		1838	110	60	343 x 165	184 x 95	50t	316	121	7787
560-190-4-6560	2051	6560	216		1881	110	60	343 x 165	184 x 95	50t	322	124	8000
560-190-4-7015	2165	7015	216		1995	110	60	343 x 165	184 x 95	50t	339	133	8555
560-190-4-7295	2235	7295	216		2065	110	60	343 x 165	184 x 95	50t	350	138	8896
560-190-5-6230	1658	6230	216		1488	110	60	343 x 165	146 x 70	45t	310	120	7598
560-190-5-6745	1761	6745	216		1591	110	60	343 x 165	146 x 70	45t	324	126	8226
560-190-5-7085	1829	7085	216		1659	110	60	343 x 165	146 x 70	45t	339	130	8640
560-216-4-6230	2000	6230	248		1830	110	60	370 x 216	194 x 89	60t	422	157	7598
560-216-4-7251	2255	7251	248		2085	110	60	370 x 216	194 x 89	60t	472	183	8843
560-216-4-7640	2352	7640	248		2182	110	60	370 x 216	194 x 89	60t	494	193	9317



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