



HYDRAULIC SPECIALTIES LTD

2011 PRICELIST

EFFECTIVE 1ST December 2010

ALL PRICES LISTED ARE G.S.T. EXCLUSIVE.

WHILST EVERY EFFORT IS MADE TO HOLD PRICES STEADY, LIST PRICES ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

ALL PERFORMANCE AND SPECIFICATION FIGURES ARE TAKEN FROM THE LATEST POSSIBLE LITERATURE AND MAY VARY FROM OLDER LITERATURE VERSIONS.

ALL PRESSURE RATINGS SHOWN IN THIS PRICELIST ARE OPERATING PRESSURES. THE OPERATING PRESSURE MAY BE CONSIDERABLY HIGHER THAN RELIEF OR PUMP COMPENSATOR SETTINGS.

IT IS THE RESPONSIBILITY OF THE SYSTEM DESIGNER TO DETERMINE SUITABILITY OF THE COMPONENT.

A COMMISSIONING, ASSEMBLY OR PRODUCT CONVERSION FEE MAY APPLY.

PRODUCT PHOTOS SHOWN ARE INDICATIVE ONLY. ACTUAL PRODUCTS MAY DIFFER FROM THAT SHOWN.

PRODUCT CONTAINED IN THE PRICE BOOK ARE OFFERED SUBJECT TO HYSPECS' NORMAL TERMS AND CONDITIONS OF SALE

A RESTOCKING FEE MAY APPLY ON GOODS RETURNED FOR CREDIT

SUPPLIERS OF

- ◆ Ausco ◆ Brand ◆ Char-Lynn ◆ Comer Planetary Drives ◆ Command Controls ◆
 - ◆ Delta ◆ Donaldson FBO ◆ Eaton ◆ Emmegi ◆ EOS ◆ EPE ◆ Fairfield ◆
 - ◆ Farmington ◆ Galtech ◆ Gresen ◆ Haldex ◆ Hub City ◆ Hydr-App ◆
 - ◆ HydraForce ◆ Kar-Tech ◆ Kelch ◆ Kayaba ◆ LC Oleodinamica ◆ MICO ◆
- ◆ OMT ◆ Permco ◆ Poclain ◆ Snap-Tite ◆ Tognella ◆ Vickers ◆ Walvoil ◆ Zinga ◆

Price List 2011

HYDRAULIC SPECIALTIES LTD.

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Online shopping at: www.hyspecs.co.nz

E-mail: hyspecs@hyspecs.co.nz



CONTENTS

A - PUMPS

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F – AC DC POWER UNITS

F1	DC Pump/Motor Units
F2	DC Power Units
F5	AC/DC Power Units

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G - POWER STEERING

G1	Power Steering Units
G4	Torque Generators
G4	Load Sensing Priority Flow Dividers
G5	Power Steering Pumps

H - FILTRATION

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J14	Failsafe Brakes
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L1	Three Phase Induction Motors
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M - EXCAVATOR VALVING & ACCESSORIES

M1	Excavator Valving
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N – ELECTRONIC CONTROLS

N1 Kar-Tech Wireless Remotes

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CYLINDERS AND ACTUATORS FORMULAE - METRIC UNITS

Symbol	Description	Units
Q	Flow Rate	l / min
A	Net Area	cm ²
v	Piston Speed	m / sec
F	Force	N
p	Pressure	Bar

Symbol	Description	Units
D	Cylinder Bore Ø	cm
d	Rod Diameter	cm
V	Displacement	litres
L	Stroke Length	cm
t	Stroke Time	sec

Net Area Piston Side: $A = \frac{\pi \times D^2}{4}$

Net Area Rod Side: $A = \frac{\pi}{4} \times (D^2 - d^2)$

Cylinder Force: $F = A \times p \times 10$

Cylinder Volume: $V_c = \frac{A \times L}{1000}$

Required Flow: $Q = A \times v \times 6$

Stroke Time: $t = \frac{0.06 \times A \times L}{Q}$



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PUMPS & MOTORS FORMULAE – METRIC UNITS

Symbol	Description	Units
Q	Flow Rate	l /min
V	Displacement	cc
n	Shaft Speed	rpm
P	Power	kW
T	Torque	Nm

Symbol	Description	Units
p	Pressure	Bar
v	Vehicle Speed	km / hr
r	Rolling Radius	m
G	Gear Reduction	
η	Efficiency	

Power – Pump:

$$P = \frac{Q \times p}{600}$$

Power - Motor:

$$P = \frac{T \times n}{9,549}$$

Flow:

$$Q = \frac{V \times n}{1,000}$$

Torque:

$$T = \frac{p \times V}{20 \times \pi}$$

Vehicle Drive:

$$n = \frac{2.65 \times v \times G}{r}$$

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FLOW / VOLUME CONVERSION TABLE

EXACT CONVERSIONS

- 1 LPM = 0.264 GPM (U.S)
- 1 LPM = 0.221 GPM (Imp)
- 1 GPM (U.S.) = 3.785 LPM
- 1 GPM (Imp) = 4.524 LPM
- 1 m³ = 1000 Litres
- 1 Litre = 1000 cm³
- 1 cm³ = 0.061 in³
- 1 in³ = 16.2 cm³

APPROXIMATE CONVERSION TABLE

LPM	GPM (U.S)	GPM (Imperial)
1	0.3	0.2
5	1.3	1.1
10	2.6	2.2
15	4.0	3.3
20	5.3	4.4
25	6.6	5.5
30	7.9	6.6
35	9.2	7.7
40	10.6	8.8
45	11.9	9.9
50	13.2	11.1
55	14.5	12.2
60	15.9	13.3
65	17.2	14.4
70	18.5	15.5
75	19.8	16.6
80	21.1	17.7
85	22.5	18.8
90	23.8	19.9
95	25.1	21.0
100	26.4	22.1
110	29.1	24.3
120	31.7	26.5
130	34.3	28.7
140	37.0	30.9



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POWER CONVERSION TABLE

EXACT CONVERSIONS

- 1 kW = 1.341 HP
- 1 HP = 0.7457 kW
- 1 cal/s = 4.1868 watts
- 1 kW = 56.92 Btu/min

APPROXIMATE CONVERSION TABLE

kW	HP	cal/s	Btu/min
0.33	0.4	79	19
0.50	0.7	119	28
0.75	1.0	179	43
1	1.3	239	57
2	2.7	478	114
3	4.0	717	171
4	5.4	955	228
5	6.7	1194	285
8	10.7	1911	455
10	13.4	2388	569
15	20.1	3583	854
20	26.8	4777	1138
25	33.5	5971	1423
30	40.2	7165	1708
35	46.9	8359	1992
40	53.6	9554	2277
45	60.3	10748	2561
50	67.1	11942	2846
55	73.8	13136	3131
60	80.5	14330	3415
65	87.2	15525	3700
70	93.9	16719	3984
75	100.6	17913	4269
80	107.3	19107	4554
85	114.0	20301	4838

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PRESSURE CONVERSION TABLE

EXACT CONVERSIONS

- 1 Bar = 14.50 PSI
- 1 Bar = 100.00 kPa
- 1 Bar = 0.1 MPa
- 1 Bar = 1.02 kg/cm²
- 1 PSI = 0.0690 Bar
- 1 PSI = 6.895 kPa
- 1 PSI = 0.007 MPa
- 1 PSI = 0.07 kg/cm²

APPROXIMATE CONVERSION TABLE

PSI	Bar	kPa	MPa
100	6.9	690	0.7
200	13.8	1379	1.4
300	20.7	2069	2.1
400	27.6	2759	2.8
500	34.5	3448	3.4
1000	69.0	6897	6.9
1250	86.2	8621	8.6
1500	103.4	10345	10.3
1750	120.7	12069	12.1
2000	137.9	13793	13.8
2250	155.2	15517	15.5
2500	172.4	17241	17.2
2750	189.7	18966	19.0
3000	206.9	20690	20.7
3250	224.1	22414	22.4
3500	241.4	24138	24.1
3750	258.6	25862	25.9
4000	275.9	27586	27.6
4250	293.1	29310	29.3
4500	310.3	31034	31.0
4750	327.6	32759	32.8
5000	344.8	34483	34.5
5500	379.3	37931	37.9
6000	413.8	41379	41.4
10000	689.7	68966	69.0

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TORQUE CONVERSION TABLE

EXACT CONVERSIONS

- 1 Nm = 0.7376 ft-lbs
- 1 Nm = 8.851 in-lbs
- 1 Nm = 0.102 kgm
- 1 ft-lbs = 1.356 Nm
- 1 in-lbs = 0.113 Nm
- 1 kgm = 9.807 Nm

APPROXIMATE CONVERSION TABLE

Nm	ft-lbs	in-lbs	kgm
1	0.7	8.9	0.1
2	1.5	17.7	0.2
3	2.2	26.6	0.3
4	3.0	35.4	0.4
5	3.7	44.3	0.5
10	7.4	88.5	1.0
12	8.9	106.2	1.2
14	10.3	123.9	1.4
16	11.8	141.6	1.6
18	13.3	159.3	1.8
20	14.8	177.0	2.0
25	18.4	221.3	2.6
30	22.1	265.5	3.1
35	25.8	309.8	3.6
40	29.5	354.0	4.1
45	33.2	398.3	4.6
50	36.9	442.6	5.1
75	55.3	663.8	7.7
100	73.8	885.1	10.2
150	110.6	1327.7	15.3
200	147.5	1770.2	20.4
300	221.3	2655.3	30.6
400	295.0	3540.4	40.8
500	368.8	4425.5	51.0
600	442.6	5310.6	61.2

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CONTENTS SECTION A – PUMPS**A1 Gear Pumps**

A1	Group 1 Start Pumps	<i>Galtech</i>
A1	Pump Joiner Kits	<i>Galtech</i>
A2	Group 2 Start Pumps	<i>Galtech</i>
A3	Group 3 Start Pumps	<i>Galtech</i>
A4	W1500 Series	<i>Haldex</i>
A4	2 Stage High/Low Pumps	<i>Haldex</i>

A5 Vane Pumps

A5	V10 & V20 Series	<i>Eaton/Vickers</i>
A6	VQ & VQT Series	<i>Eaton/Vickers</i>

A9 Hand Pumps

A9	CS Series	<i>Galtech</i>
A9	CSI Series	<i>Galtech</i>
A9	IS Series	<i>Galtech</i>
A10	HP Series – Cartridge	<i>HydraForce</i>

A11 Piston Pumps – Press./Press. Flow Compensated

A11	70XXX Series	<i>Eaton</i>
A12	420 Series	<i>Eaton</i>
A13	PVH Series	<i>Eaton</i>
A14	PVM Series	<i>Eaton</i>

A15 Piston Pumps – Closed Loop Medium Duty

A15	70160 Series	<i>Eaton</i>
A16	70360 Series	<i>Eaton</i>
A17	72400 Series	<i>Eaton</i>

A18 Piston Pumps – Closed Loop Heavy Duty

A18	HD Series	<i>Eaton</i>
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GEAR PUMPS - GALTECH



GROUP 1 'START' PUMPS.

- Each individual pump is preset for rear connection to one or more pumps by the interposition of the appropriate coupling flange.
- Euro-mount 71.9 mm x 52 mm rectangular, spigot Ø25.4 mm, 1:8 taper shaft.

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. PRESSURE <i>bar</i>	MAX. SPEED <i>rpm</i>	LIST
1SP-A-0.9-D-10NN*	0.89	240	6000	\$ 397.00
1SP-A-1.2-D-10NN*	1.18	240	6000	\$ 397.00
1SP-A-1.6-D-10NN*	1.6	240	6000	\$ 397.00
1SP-A-2.0-D-10NN*	2.0	220	5500	\$ 397.00
1SP-A-2.5-D-10NN*	2.5	220	5000	\$ 410.00
1SP-A-3.2-D-10NN*	3.2	210	4500	\$ 410.00
1SP-A-3.7-D-10NN*	3.7	210	4000	\$ 410.00
1SP-A-4.2-D-10NN*	4.2	190	3500	\$ 410.00
1SP-A-5.0-D-10NN*	5.0	180	3000	\$ 422.00
1SP-A-6.3-D-10NN*	6.3	170	2700	\$ 422.00
1SP-A-7.8-D-10NN*	7.76	170	2500	\$ 428.00

Pumps can be supplied in either clockwise or anti-clockwise rotation.

CONFIGURATION OPTIONS

LIST ADDER

Port type	Flanged ports - NN	N/C
	BSP Threaded ports - GG	N/C
Shaft type	1:8 Taper shaft - 10	N/C
	1/2" Parallel keyed shaft - 13	N/C
Mounting flange type	Standard Euro-mount 71.9 mm x 52 mm rectangle	N/C
	SAE 'A-A' Two bolt mount	\$ 41.00
* Relief valve	Integral relief valve built into the rear cover, internal exhaust - VLPI	\$ 221.00

ACCESSORIES

LIST

FG 3/8"-26	Outlet flange, 90° elbow, 3/8" BSP, 26 PCD (0.9 – 2.0 pumps)	\$ 29.00
FG 3/8"-30	Outlet flange, 90° elbow, 3/8" BSP, 30 PCD	\$ 29.00
FG 1/2"-30	Inlet and outlet flange, 90° elbow, 1/2" BSP, 30 PCD	\$ 29.00
FI 30-3/8"-Z-C	Inlet and outlet flange, straight port, 3/8" BSP, 30 PCD	\$ 64.00



PUMP JOINER KITS

MODEL	DESCRIPTION	LIST
010911000000000	Group 1 with Group 1 Start	\$ 265.00
010921100000000	Group 2 with Group 1 Start	\$ 265.00
010922000000000	Group 2 with Group 2 Start	\$ 272.00
010931100000000	Group 3 with Group 1 Start	\$ 428.00
010932000000000	Group 3 with Group 2 Start	\$ 441.00
010933000000000	Group 3 with Group 3 Start	\$ 466.00
010911010000000	Group 1 with Group 1 Short tandem (TC)	\$ 265.00
010922010000000	Group 2 with Group 2 Short tandem (TC)	\$ 272.00
010931010000000	Group 3 with Group 1 Short tandem (TC)	\$ 428.00
010932110000000	Group 3 with Group 2 Short tandem (TC)	\$ 441.00
010933100000000	Group 3 with Group 3 Short tandem (TC)	\$ 466.00

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GEAR PUMPS - GALTECH

GROUP 2 'START' PUMPS.



- 12 tooth gears and consequent decrease in noise levels.
- High working pressures.
- Flange and cover in aluminium or on request, cast iron.
- Each individual pump is preset for rear connection to one or more pumps by interposition of the appropriate coupling flange.
- Euro-mount 96.2 mm x 71.5 mm rectangular, spigot $\varnothing 36.5$ mm, 1:8 taper shaft.

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. PRESSURE <i>bar</i>	MAX. SPEED <i>rpm</i>	LIST
2SP-A-04-10N*	4.0	250	4000	\$ 498.00
2SP-A-06-10N*	6.0	250	4000	\$ 498.00
2SP-A-08-10N*	8.5	250	3500	\$ 498.00
2SP-A-11-10N*	11.0	250	3500	\$ 536.00
2SP-A-14-10N*	14.0	250	3500	\$ 536.00
2SP-A-16-10N*	16.5	230	3500	\$ 536.00
2SP-A-19-10N*	19.5	210	3300	\$ 536.00
2SP-A-22-10N*	22.5	190	2800	\$ 549.00
2SP-A-26-10N*	26.0	170	2500	\$ 549.00

- Pumps can be supplied in either clockwise or anti-clockwise rotation.
- Pumps are available with cast iron end plates for higher working pressures – *Consult Hyspecs*

CONFIGURATION OPTIONS

LIST ADDER

Port type	Flanged ports - N	N/C
	BSPP Threaded ports - G	N/C
Shaft type	1:8 Taper shaft - 10	N/C
	5/8" Parallel keyed shaft - 13	N/C
	5/8" 9 Tooth spline - 14	N/C
	10 Tooth spine - 14* - available in 8,11 and 26cc pumps only	N/C
Mounting flange type	Standard Euro-mount 96.2 mm x 71.5 mm rectangle	N/C
	SAE 'A' Two bolt mount	\$ 45.00
* Relief valve	Integral relief valve built into the rear cover, internal exhaust - VLPI	\$ 234.00

ACCESSORIES

LIST

FG 3/8"-30	Outlet flange, 90° elbow, 3/8" BSP, 30 PCD	\$ 29.00
FG 1/2"-30	Inlet & Outlet flange, 90° elbow, 1/2" BSP, 30 PCD	\$ 29.00
FG 3/4"-40	Inlet flange, 90° elbow, 3/4" BSP, 40 PCD	\$ 39.00
FI 30-3/8"-Z-C	Outlet flange, straight port, 3/8" BSP, 30 PCD	\$ 64.00
FI 40-1/2"-Z-C	Outlet flange, straight port, 1/2" BSP, 40 PCD	\$ 83.00
015290030000000	Front Euro-mount kit with bearing for shaft side loading	\$277.00

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- 12 tooth gears & consequent decrease in noise levels.
- High working pressures
- Flange and cover in aluminium or on request, cast iron.
- Each individual pump is preset for rear connection to one or more pumps by interposition of the appropriate coupling flange.
- Euro-mount 128 mm x 98 mm rectangular, spigot Ø50.8 mm, 1:8 taper shaft.

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. PRESSURE <i>bar</i>	MAX. SPEED <i>rpm</i>	LIST
3SP-A-19-10N*	19.0	250	3500	\$ 982.00
3SP-A-22-10N*	22.3	240	3500	\$ 982.00
3SP-A-29-10N*	29.3	220	3300	\$ 982.00
3SP-A-33-10N*	32.9	220	3300	\$ 982.00
3SP-A-36-10N*	36.4	210	3300	\$ 982.00
3SP-A-44-10N*	43.5	200	3000	\$ 1040.00
3SP-A-52-10N*	51.7	200	3000	\$ 1040.00
3SP-A-62-10N*	61.1	180	2500	\$ 1102.00

- Pumps can be supplied in either clockwise or anti-clockwise rotation.
- Pumps are available with cast iron end plates for higher working pressures – *Consult Hyspecs*

CONFIGURATION OPTIONS

LIST ADDER

Port type	Flanged ports - N	N/C
Shaft type	1:8 Taper shaft - 10	N/C
	7/8" Parallel keyed shaft - 13	N/C
	7/8" 13 Tooth spline - 14	N/C
Mounting flange type	Standard Euro-mount 128 mm x 98 mm rectangle	N/C
	SAE 'B' Two bolt mount	\$ 158.00
* Relief valve	Integral relief valve built into the rear cover, internal exhaust - VLPI	\$ 246.00

ACCESSORIES

LIST

FG 3/4"-40	Outlet flange, 90° elbow, 3/4" BSP, 40 PCD	\$ 39.00
FG 1"-51	Inlet flange, 90° elbow, 1" BSP, 51 PCD	\$ 64.00
FI 40-1/2"-Z-C	Outlet flange, straight port, 1/2" BSP, 40 PCD	\$ 83.00

Price List 2011



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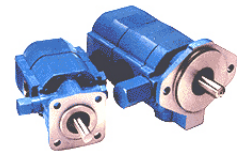
GEAR PUMPS - HALDEX HYDRAULICS



W1500

- High performance gear pump with low noise and excellent high & low speed operation. High strength aluminium with cast iron end plates.
- SAE 'B', 2-bolt, 7/8" 13T shaft, 1 5/8" UNO suction port, 1 5/16" UNO pressure port.

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. PRESSURE <i>bar</i>	MAX SPEED <i>rpm</i>	LIST
1303259	38	275	3000	\$ 1203.00
1303261	44	220	2800	\$ 1266.00
1303263	50	200	2700	\$ 1329.00



2 STAGE HIGH/LOW GEAR PUMPS

- Haldex 2 volume High/Low hydraulic pumps are compact, two stage, external gear pumps designed for use at elevated pressures. They are ideal for press-type applications requiring fast approach/retract speeds and slower peak actuator work speeds because of horsepower limitations or safety constraints.

MODEL	DISPLACEMENT		MAX. PRESSURE <i>bar</i>	MAX SPEED <i>rpm</i>	LIST
	High Pressure Gear Displ. <i>cc/rev</i>	Low Pressure Gear Displ. <i>cc/rev</i>			
1300484	1.1	6.4	207	4000	\$ 838.00
1300485	3.2	6.4	207	4000	\$ 838.00
1300159	3.2	8.5	207	4000	\$ 743.00
1300487	4.2	12.7	207	4000	\$ 1102.00
1300488	7.6	15.2	207	4000	\$ 1857.00
1300489	7.6	22.9	207	4000	\$ 2298.00

- Unloaded adjustment 27-62 bar on all pumps except the 1300488 and 1300489, which is 27-48 bar.
- NB: **Add** sizes together for maximum low pressure flow.
- Pressures and speeds shown are maximums.

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VANE PUMPS – EATON/VICKERS

V10 & V20 SERIES

- Fixed displacement balanced vane pump. Single or double pumps.



SINGLE PUMPS

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. SPEED <i>rpm</i>	MAX. PRESSURE <i>bar</i>	LIST
V10	3.3	4800	172	\$ 856.00
V10	6.6	4500	172	\$ 856.00
V10	9.8	4000	172	\$ 856.00
V10	13.1	3400	172	\$ 856.00
V10	16.4	3200	172	\$ 856.00
V10	19.5	3000	152	\$ 856.00
V10	22.8	2800	138	\$ 856.00
V20	16.4	3400	172	\$ 1096.00
V20	19.5	3000	172	\$ 1096.00
V20	22.8	2800	172	\$ 1096.00
V20	26.5	2800	172	\$ 1096.00
V20	29.7	2800	172	\$ 1096.00
V20	36.4	2500	172	\$ 1096.00
V20	39.0	2400	152	\$ 1096.00
V20	42.5	2400	152	\$ 1096.00

- V10 has 1 5/16" UNO suction and 3/4" UNO pressure ports, SAE A mount
- V20 has 1 5/8" UNO suction and 1 1/16" UNO pressure ports, SAE A mount

DOUBLE PUMPS

MODEL	DISPLACEMENT SHAFT END <i>cc/rev</i>	DISPLACEMENT REAR COVER END <i>cc/rev</i>	MAX. SPEED <i>rpm</i>	MAX. PRESSURE <i>bar</i>	LIST
V2010	19.5	3.3	3000	172	\$ 2687.00
V2010	22.8	6.6	3000	172	\$ 2687.00
V2010	26.5	9.8	2800	172	\$ 2687.00
V2010	29.6	13.1	2800	172	\$ 2687.00
V2010	36.4	16.4	2500	172	\$ 2687.00
V2010	39.0	19.5	2400	152	\$ 2687.00
V2010	42.5	22.8	2400	152	\$ 2687.00
V2020	19.5	19.5	3000	172	\$ 2978.00
V2020	22.8	22.8	3000	172	\$ 2978.00
V2020	26.5	26.5	2800	172	\$ 2978.00
V2020	29.6	29.6	2800	172	\$ 2978.00
V2020	36.4	36.4	2500	172	\$ 2978.00
V2020	39.0	36.4	2400	152	\$ 2978.00
V2020	42.5	36.4	2400	152	\$ 2978.00

- V10 has 1 1/2" BSP suction and 3/4" UNO pressure ports, SAE A mount.
- V20 has 2" BSP suction and 1 1/16" UNO pressure ports, SAE A mount.

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VANE PUMPS – EATON/VICKERS

CONFIGURATION OPTIONS – SINGLE PUMPS

3/4" Straight keyed shaft	N/C
5/8" 9T shaft	N/C
3/4" 11T shaft (V20 only)	N/C
Flow control head – V10	\$ 340.00
Priority head – V10	\$ 554.00
Flow control head – V20	\$ 320.00
Priority head – V20	\$ 487.00

LIST ADDER

For flow rate and relief valve settings please *contact Hyspecs*.

VQ & VQ(T) SERIES

- Fixed displacement high speed, pressure balanced vane pump.
- Single or double pumps, through drive option



SINGLE PUMPS - VQ

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. SPEED <i>rpm</i>	MAX. PRESSURE <i>bar</i>	PRESSURE PORT <i>Code 61</i>	SUCTION PORT <i>Code 61</i>	MOUNT	LIST
20VQ	6.6	2700	210	3/4"	1 1/2"	SAE B	\$ 2079.00
20VQ	18	2700	210	3/4"	1 1/2"	SAE B	\$ 2079.00
20VQ	19	2700	210	3/4"	1 1/2"	SAE B	\$ 2079.00
20VQ	27	2700	210	3/4"	1 1/2"	SAE B	\$ 2079.00
20VQ	29	2700	210	3/4"	1 1/2"	SAE B	\$ 2079.00
20VQ	35	2700	210	3/4"	1 1/2"	SAE B	\$ 2079.00
20VQ	40	2700	158	3/4"	1 1/2"	SAE B	\$ 2079.00
20VQ	45	2700	138	3/4"	1 1/2"	SAE B	\$ 2079.00
25VQ	40	2700	210	1"	1 1/2"	SAE B	\$ 1879.00
25VQ	45	2700	210	1"	1 1/2"	SAE B	\$ 1879.00
25VQ	55	2500	210	1"	1 1/2"	SAE B	\$ 1879.00
25VQ	62	2500	210	1"	1 1/2"	SAE B	\$ 1879.00
25VQ	68	2500	210	1"	1 1/2"	SAE B	\$ 1879.00

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VANE PUMPS – EATON/VICKERS

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. SPEED <i>rpm</i>	MAX. PRESSURE <i>bar</i>	PRESSURE PORT <i>Code 61</i>	SUCTION PORT <i>Code 61</i>	MOUNT	LIST
35VQ	68	2500	210	1 1/4"	2"	SAE C	\$ 2621.00
35VQ	82	2500	210	1 1/4"	2"	SAE C	\$ 2621.00
35VQ	98	2500	210	1 1/4"	2"	SAE C	\$ 2621.00
35VQ	113	2400	210	1 1/4"	2"	SAE C	\$ 2621.00
35VQ	122	2400	210	1 1/4"	2"	SAE C	\$ 2621.00
					<i>Code 62</i>		
45VQ	139	2200	172	1 1/2"	3"	SAE C	\$ 4296.00
45VQ	155	2200	172	1 1/2"	3"	SAE C	\$ 4296.00
45VQ	162	2200	172	1 1/2"	3"	SAE C	\$ 4296.00
45VQ	188	2200	172	1 1/2"	3"	SAE C	\$ 4296.00
45VQ	193	2200	172	1 1/2"	3"	SAE C	\$ 4296.00

CONFIGURATION OPTIONS

LIST ADDER

7/8" straight keyed or 7/8" 13T shaft - 20VQ, 25VQ, 30VQ
 1 1/4" straight keyed or 1 1/4" 14T shaft - 35VQ, 45VQ

N/C
 N/C

SINGLE PUMPS – VQT

- Single vane pump with through drive option.



MODEL	REAR MOUNT	DISPLACEMENT <i>cc/rev</i>	MAX. SPEED <i>rpm</i>	SHAFT	MAX INPUT TORQUE* <i>Nm</i>	MAX REAR TORQUE <i>Nm</i>	LIST
25VQT	SAE A	All sizes as per 25VQ	As per 25VQ	1" straight	400	131	\$ 2896.00
	SAE B			316			
	7/8" 13T			316			
35VQT	SAE A	All sizes as per 35VQ	As per 35VQ	1 3/8" straight	659	131	\$ 4035.00
	SAE B			348			
	SAE C			1 1/4" 14T		791	
45VQT	SAE A	All sizes as per 45VQ	As per 45VQ	1 1/2" straight	810	131	\$ 4731.00
	SAE B			384			
	SAE C			1 1/4" 14T		1017	

* Input torque is a combination of front and back units on VQT.

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VANE PUMPS – EATON/VICKERS

DOUBLE PUMPS – VQ

- Double vane pump, single inlet



MODE L	DISPLACEMENT		MAX RPM <i>rpm</i>	MAX. PRESSURE <i>bar</i>	PRESSURE PORT	SUCTION PORT <i>Code 61</i>	MOUNT	LIST
	<i>cc/rev</i>							
	FRONT	REAR						
2520VQ	40	18	All 2700 except 55cc & 68cc max 2500	As per 20VQ & 25VQ except rear cartridge 40cc = 158 45cc = 138	As per 20VQ & 25VQ	2 1/2"	SAE B	\$ 4091.00
2520VQ	45	27				2 1/2"	SAE B	\$ 4091.00
2520VQ	55	35				2 1/2"	SAE B	\$ 4091.00
2520VQ	61	40				2 1/2"	SAE B	\$ 4091.00
2520VQ	68	45				2 1/2"	SAE B	\$ 4091.00
3520VQ	82	18	All 2500 except 113cc & 122cc max 2400	As per 20VQ & 35VQ except rear cartridge 40cc = 158 45cc = 138	As per 20VQ & 35VQ	3"	SAE C	\$ 5050.00
3520VQ	98	27				3"	SAE C	\$ 5050.00
3520VQ	113	35				3"	SAE C	\$ 5050.00
3520VQ	122	40				3"	SAE C	\$ 5050.00
3520VQ	-	45				3"	SAE C	\$ 5050.00
4520VQ	139	18	All 2200	As per 20VQ & 45VQ except rear cartridge 40cc = 158 45cc = 138	As per 20VQ & 45VQ	3 1/2"	SAE C	\$ 5970.00
4520VQ	155	27				3 1/2"	SAE C	\$ 5970.00
4520VQ	162	35				3 1/2"	SAE C	\$ 5970.00
4520VQ	188	40				3 1/2"	SAE C	\$ 5970.00
4520VQ	193	45				3 1/2"	SAE C	\$ 5970.00
3525VQ	68	-	All 2700 except 113cc & 122cc max 2400	As per 35VQ & 25VQ	As per 35VQ & 25VQ	3 1/2"	SAE C	\$ 5505.00
3525VQ	82	40				3 1/2"	SAE C	\$ 5505.00
3525VQ	98	45				3 1/2"	SAE C	\$ 5505.00
3525VQ	113	55				3 1/2"	SAE C	\$ 5505.00
3525VQ	122	68				3 1/2"	SAE C	\$ 5505.00
4525VQ	139	40	All 2200	As per 45VQ & 25VQ	As per 45VQ & 25VQ	3 1/2"	SAE C	\$ 6786.00
4525VQ	155	45				3 1/2"	SAE C	\$ 6786.00
4525VQ	162	55				3 1/2"	SAE C	\$ 6786.00
4525VQ	188	68				3 1/2"	SAE C	\$ 6787.00
4525VQ	193	-				3 1/2"	SAE C	\$ 6786.00
4535VQ	139	82	All 2200	As per 45VQ & 35VQ	As per 45VQ & 35VQ	4"	SAE C	\$ 7136.00
4535VQ	155	98				4"	SAE C	\$ 7136.00
4535VQ	162	113				4"	SAE C	\$ 7136.00
4535VQ	188	122				4"	SAE C	\$ 7136.00
4535VQ	193	-				4"	SAE C	\$ 7136.00

CONFIGURATION OPTIONS

LIST ADDER

7/8" straight keyed or 7/8" 13T shaft – 2520VQ

N/C

1 1/4" straight keyed or 1 1/4" 14T shaft – 3520VQ, 4520VQ, 3525VQ, 4525VQ, 4535VQ

N/C

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HAND PUMPS - GALTECH



CS SERIES – DOUBLE ACTING WITH RELIEF

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. PRESSURE <i>bar</i>	RESERVOIR <i>litre</i>	LIST
CSN25VS-4-1-1	25	350	1	\$ 922.00
CSN25VS-4-2-1	25	350	2	\$ 957.00
CSN25VS-4-3-1	25	350	3	\$ 977.00
CSN25VS-4-5-1	25	350	5	\$ 1040.00
CSN45VS-4-1-1	45	280	1	\$ 1008.00
CSN45VS-4-2-1	45	280	2	\$ 1008.00
CSN45VS-4-3-1	45	280	3	\$ 1008.00
CSN45VS-4-5-1	45	280	5	\$ 1102.00

CSI SERIES – DOUBLE ACTING, FLOW REVERSER AND RELIEF

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. PRESSURE <i>bar</i>	RESERVOIR <i>litre</i>	LIST
CSIN12VS-4-1-1	12	380	1	\$ 549.00
CSIN12VS-4-2-1	12	380	2	\$ 1052.00
CSIN12VS-4-3-1	12	380	3	\$ 996.00
CSIN12VS-4-5-1	12	380	5	\$ 1108.00
CSIN25VS-4-1-1	25	350	1	\$ 1014.00
CSIN25VS-4-2-1	25	350	2	\$ 1052.00
CSIN25VS-4-3-1	25	350	3	\$ 1070.00
CSIN25VS-4-5-1	25	350	5	\$ 1201.00
CSIN25VS-4-10-1	25	350	10	\$ 1316.00
CSIN45VS-4-1-1	45	280	1	\$ 1070.00
CSIN45VS-4-2-1	45	280	2	\$ 1081.00
CSIN45VS-4-3-1	45	280	3	\$ 1096.00
CSIN45VS-4-5-1	45	280	5	\$ 1165.00
CSIN45VS-4-10-1	45	280	10	\$ 1196.00



IS SERIES – SINGLE ACTION, NO RESERVOIR

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. PRESSURE <i>bar</i>	LIST
IS-6	20	250	\$ 617.00
IS-7	30	200	\$ 617.00

PART	DESCRIPTION	LIST
IS6-S/K	IS-6 Seal kit	\$ 57.00
IS7-S/K	IS-7 Seal kit	\$ 61.00

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HAND PUMPS - HYDRAFORCE



HP SERIES – SINGLE ACTION, NO RESERVOIR

MODEL	DESCRIPTION	DISPLACEMENT <i>cc/rev</i>	MAX. PRESSURE <i>bar</i>	LIST
HP10-20D/T-0-N	Cartridge	1.36	207	\$ 350.00
HP10-21A-0-N-A	Cartridge	7.4	207	\$ 315.00
6502340	Handle	-	-	\$ 46.00
HS1020P8	1/2" BSPP Manifold	-	207	\$ 86.00

MODEL	DESCRIPTION	DISPLACEMENT <i>cc/rev</i>	MAX. PRESSURE <i>bar</i>	LIST
HP16-21A-0-N	Cartridge	21.32	207	\$ 424.00
6502340	Handle	-	-	\$ 46.00
HS1620P12	3/4" BSPP Manifold	-	207	\$ 189.00

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PISTON PUMPS - PRESS./ PRESS. FLOW COMPENSATED - EATON

70XXX SERIES



Model		70122	70422	70423	70523
Max Displacement	cc/rev	19	38	45	69
Max. Speed	rpm	2500	2700	3000	2500
Max. Flow*	lpm	41.6	98.4	125	159
Press. Δbar	bar	207	207	207	207
Max Case Pressure	bar	2	2	2	2
Max. H/P set @ 0 Flow	bar	207	207	207	207
Std. L/P set @ 0 Flow	bar	14	14	14	14
Max Cont. Inlet Temp	°C	107	107	107	107
Min Operating Temp	°C	-29	-29	-29	-29
Input Power*	kW	20	40	55	69
Mounting Flange		2 Bolt SAE A	2 Bolt SAE B	2 Bolt SAE BB	2/4 Bolt SAE C

H/P = high pressure, L/P = low pressure

* @ maximum continuous flow and pressure

MODEL	DESCRIPTION	LIST
70122-XXX	19 cc/rev, SAE A two bolt mount, Ø 7/8" 13T splined shaft, rear ports, press./ flow compensated.	\$ 3177.00
70422-XXX	38 cc/rev, SAE B two bolt mount, Ø 7/8" 13T splined shaft, rear ports, press./ flow compensated.	\$ 3424.00
70423-XXX	45 cc/rev, SAE B two bolt mount, Ø 7/8" 13T splined shaft, rear ports, press./ flow compensated,	\$ 3852.00
70523-XXX	69 cc/rev, SAE C four bolt mount, Ø 1 1/4" 14T splined shaft, SAE flanged side ports, press./ flow compensated.	\$ 5616.00

CONFIGURATION OPTIONS

7/8" parallel keyed shaft - (except 69 cc)

Side pressure ports - (except 69 cc)

Split flange rear ports - (69 cc)

Pressure compensated

2 bolt tandem mount back plate (SAE A)

2 bolt tandem mount back plate (SAE B)

4 bolt tandem mount back plate

NOTE: Tandem mount back plates are not available on 19 cc pumps.

70422-929	Mounting kit for aux. pump - (69 cc uses 78550-902)	\$ 18.00
70142-915	Cover plate for A flange - (aux. pump not used)	\$ 136.00
78550-902	Mounting kit for aux. pump - (69 cc only)	\$ 239.00

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PISTON PUMPS - PRESS./ PRESS. FLOW COMPENSATED - EATON

420 SERIES



Max Displacement	<i>cc/rev</i>	41.0**	49.2	62.3	80.0
Max. Speed	<i>rpm</i>	2650	2650	2600	2200
Flow	<i>lpm</i>	104	126	156	166
Cont. Pressure	<i>bar</i>	280	280	280	210
Max. Int. Pressure	<i>bar</i>	320	320	320	-
Max. Input Power*	<i>kW</i>	50.9	61.1	75.9	-
Cont. Inlet Temp	<i>°C</i>	82	82	82	82
Mounting Flange		2 Bolt SAE B	2 Bolt SAE B	2 Bolt SAE B	2 Bolt SAE B or C

* @ max continuous flow and max. continuous pressure

** Available on indent order only

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>LIST</u>
ADU041	41cc/rev, SAEB 2-bolt mount, Ø 7/8" 13T splined shaft, rear ports	\$ 3523.00
ADU049	49cc/rev, SAEB 2-bolt mount, Ø 7/8" 13T splined shaft, rear ports	\$ 3559.00
ADU062	62cc/rev, SAEB 2-bolt mount, Ø 1" 15T splined shaft, rear ports	\$ 4014.00
ADU080	80cc/rev, SAEB 2-bolt mount, Ø 1" 15T splined shaft, side ports	\$ 4600.00

CONFIGURATION OPTIONS

9900194-003	Seal kit	\$ 138.00
9900194-004	Adjustable maximum displacement stop kit	\$ 207.00

NOTE: Shaft, mount, displacement and control options are available on request – *Consult Hyspecs*



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PISTON PUMPS - PRESS./ PRESS. FLOW COMPENSATED - EATON

PVH SERIES - MOBILE



Max Displacement	cc/rev	57	74	98	131
Max. Speed	rpm	3000	2750	2600	2500
Max. Flow**	lpm	134	156	202	249
Press. Δbar	bar	250	250	250	250
Cont. Inlet Temp	°C	82	82	82	82
Mounting Flange		4 Bolt SAE C	4 Bolt SAE C	4 Bolt SAE C	4 Bolt SAE C

** @ max continuous flow and max. continuous pressure

57cc – 131cc are priced as standard with through shaft and SAE A rear mount.

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>LIST</u>
PVH – 57 cc	57 cc/rev, SAE C four bolt mount, through drive with SAE A pad Ø 1 1/4" 14T splined shaft, side ports, press./ flow compensated,	\$ 6246.00
PVH – 74 cc	74 cc/rev, SAE C four bolt mount, through drive with SAE A pad Ø 1 1/4" 14T splined shaft, side ports, press./ flow compensated,	\$ 7447.00
PVH – 98 cc	98 cc/rev, SAE C four bolt mount, through drive with SAE A pad Ø 1 1/2" 17T splined shaft, side ports, press./ flow compensated,	\$ 8717.00
PVH – 131 cc	131 cc/rev, SAE C four bolt mount, through drive with SAE A pad Ø 1 1/2" 17T splined shaft, side ports, press./ flow compensated,	\$ 11227.00

NOTE: Shaft, mount, displacement and control options are available on request – *Consult Hyspecs*



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PISTON PUMPS - PRESS./ PRESS. FLOW COMPENSATED - EATON

PVM SERIES – INDUSTRIAL PUMPS



Max Displacement	<i>cc/rev</i>	18.0*	45.1*	57.4*	73.7*	98.3*	131.0*
Max. Speed	<i>rpm</i>	1800	1800	1800	1800	1800	1800
Max. Flow**	<i>lpm</i>	31	76	102	127	170	215
Press. Δbar	<i>bar</i>	280	280	280	280	280	280
Max Case Press	<i>bar</i>	0.5	0.5	0.5	0.5	0.5	0.5
Input Power**	<i>kW</i>	16	41	52	63	88	113
Cont. Inlet Temp	<i>°C</i>	82	82	82	82	82	82
Mounting Flange		2 Bolt SAE A	2 Bolt SAE B	4 Bolt SAE C	4 Bolt SAE C	4 Bolt SAE C	4 Bolt SAE C

* **NOTE:** 10% higher displacements are available at reduced operating pressures - *Consult Hyspecs*

** @ 210 bar and 1800 rpm

57cc – 131cc are priced as standard with through shaft and SAE A rear mount.
Standard build includes industrial ER plate with right hand rotation.

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>LIST</u>
PVM – 18 cc	18 cc/rev, SAE A two bolt mount, Ø 5/8" parallel shaft, side ports, press./ flow compensated.	\$ 3819.00
PVM – 45 cc	45 cc/rev, SAE B two bolt mount, Ø 7/8" parallel shaft, side ports, press./ flow compensated.	\$ 5346.00
PVM – 57 cc	57 cc/rev, SAE C four bolt mount, through drive with SAE A pad Ø 1 1/4" parallel shaft, side ports, press./ flow compensated,	\$ 6775.00
PVM – 74 cc	74 cc/rev, SAE CC four bolt mount, through drive with SAE A pad Ø 1 1/2" parallel shaft, side ports, press./ flow compensated,	\$ 8078.00
PVM – 98 cc	98 cc/rev, SAE CC four bolt mount, through drive with SAE A pad Ø 1 1/2" parallel shaft, side ports, press./ flow compensated,	\$ 9455.00
PVM – 131 cc	131 cc/rev, SAE CC four bolt mount, through drive with SAE A pad Ø 1 1/2" parallel shaft, side ports, press./ flow compensated,	\$ 12177.00

CONFIGURATION OPTIONS

Through shaft kits - (18 to 45 cc)

NOTE: Shaft, mount, displacement and control options are available on request – *Consult Hyspecs*



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PISTON PUMPS - CLOSED LOOP MEDIUM DUTY - EATON



70160 SERIES

Model		70160
Max Displacement	cc/rev	20.3
Max. Speed	rpm	3600
Max. Flow*	lpm	64.3
Press. Δbar	bar	210
Max Case Pressure	bar	2
Max. R/V setting	bar	345
Charge Pressure	bar	6.9 – 10
Input Power*	kW	25
Mounting Flange		2 Bolt SAE A Vertical

* @ max continuous flow and max. continuous pressure

- **N.B. Auxiliary cooling is recommended**

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>LIST</u>
70160-XXX	Single pump, SAE A two bolt mount. Ø 7/8" x 13T splined shaft, 6.9 cc charge pump. SAE A pad, 5/8" 9T input for auxiliary pump on rear. Right hand control shaft with cross hole viewed from input shaft.	\$ 3866.00
70160-XXX	Front tandem pump, SAE A two bolt mount. Ø 7/8" x 13T splined input shaft. Configured to accept rear tandem pump. Right hand control shaft with cross hole viewed from input shaft. It does not include a charge pump.	\$ 3409.00
70160-XXX	Rear tandem pump, SAE A two bolt mount. 35T splined input shaft. Configured to accept a front tandem pump. SAE A pad, 5/8 x 9T input for auxiliary pump on rear. Right hand control shaft with cross hole, viewed from input shaft. 13.8 cc charge pump.	\$ 3823.00

CONFIGURATION OPTIONS

23.6 cc Displacement option
7/8" keyed input shaft. (PV & TF)
13.8 cc charge pump (PV)
Tow valve.
Tapered control shaft.
L.H. control shaft.
Tandem piston pump mounting kit, 70142-944
Cover plate for SAE A flange (aux. pump not used), 70142-915
External servo control, 79003-CAB
Mounting support bracket (tandem rear pump), 70111-632

Price List 2011



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PISTON PUMPS - CLOSED LOOP MEDIUM DUTY- EATON



70360 SERIES

Model		70360	70360
Max Displacement	cc/rev	40.6	49.2
Max. Speed	rpm	3600	3600
Max. Flow*	lpm	140	169
Press. Δbar	bar	210	172
Max Case Pressure	bar	2	2
Max. R/V setting	bar	345	286
Charge Pressure	bar	6.9 – 20.6	6.9 – 20.6
Input Power*	kW	50	50
Mounting Flange		2 Bolt SAE B Vertical	2 Bolt SAE B Vertical

* @ max continuous speed and max. continuous pressure

- **N.B. Auxiliary cooling is recommended.**

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>LIST</u>
70360-XXX	Single pump, SAE B two bolt mount vertical. Ø 1" 15T splined input shaft, 6.9 cc charge pump. SAE A pad 5/8" 9T input for auxiliary pump on rear. Right hand, 0.62" square control shaft, viewed from input shaft.	\$ 3935.00
70360-XXX	Front tandem pump, SAE B two bolt mount. Ø 1" 15T splined input shaft. Configured to accept rear tandem pump. Right hand, 0.62" square control shaft, viewed from input shaft. It does not include a charge pump.	\$ 3591.00
70360-XXX	Rear tandem pump, SAE B two bolt mount. 41T splined input shaft. Configured to accept front tandem pump. Left hand, 0.62" square control shaft, viewed from input shaft. Includes a 13.8 cc charge pump.	\$ 4029.00

CONFIGURATION OPTIONS

49.2 cc Displacement option.
1" Parallel keyed input shaft (PV&TF)
1" Tapered input shaft (PV&TF)
13T Splined input shaft (PV)
Tow valve
High pressure relief valves (172 - 345 bar @ 35 bar increments)
Tandem mounting kit, 72400-902
Cover plate for SAE A mount (Aux. pump not used), 70142-915
External servo control, 79003-CAB
Mounting support bracket, 70411-605

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PISTON PUMPS - CLOSED LOOP MEDIUM DUTY - EATON



72400 SERIES

Model		72400	72400
Max Displacement	cc/rev	40.6	49.2
Max. Speed	rpm	3600	3600
Max. Flow*	lpm	140	169
Press. Δbar	bar	207	207
Max Case Pressure	bar	1.7	1.7
Max. R/V setting	bar	345	286
Charge Pressure	bar	17 – 21	17 – 21
Input Power*	kW	49	60

* @ max continuous speed and max. continuous pressure

- **N.B. Auxiliary cooling is recommended.**

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>LIST</u>
72400-XXX	Single pump, SAE B two bolt mount. Ø 1" 15T splined input shaft, 6.9 cc charge pump. SAE A pad 5/8" 9T input for auxiliary pump on rear. Manual control arm.	\$ 4975.00
72400-XXX	Front tandem pump, SAE B two bolt mount. Ø 1" 15T splined input shaft. Configured to accept rear tandem pump. Manual control arm. It does not include a charge pump.	\$ 4816.00
72400-XXX	Rear tandem pump, SAE B two bolt mount. 41T splined input shaft. Configured to accept front tandem pump. Manual control arm. Includes a 13.8 cc charge pump.	\$ 5238.00

CONFIGURATION OPTIONS

49.2cc Displacement option.
1" Keyed input shaft (PV & TF)
13T splined input shaft (PV)
Tow valve.
High pressure relief valves (172 - 345 bar @ 35 bar increments).
Hydraulic remote cwithl.
Electronic proportional displacement control.
Neutral lockout switch.
Neutral detent.
Destroke valve.
Tandem mounting kit, 72400-902
Cover plate for SAE A flange (Aux. pump not used), 70142-915

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PISTON PUMPS - CLOSED LOOP HEAVY DUTY - EATON



HD SERIES

Model		39	46	54	64	76
Displacement	cc/rev	63.7	75.3	89.1	105.5	124.8
Max. Speed @ 18° Cam Angle***	rpm	4160	4160	3720	3720	2775
Max. Flow	lpm	255	300	318	375	333
Input Torque*	Nm	265	315	371	441	514
Press. Δbar	bar	241	241	241	241	241

- * Input torque @ 241 bar
- ** At 15° swash angle
- *** Max. pump speed may be limited by the charge pump speed rating.
- Pump performance calculated @ 96% efficiency.

MODEL	DISPLACEMENT cc/rev	LIST
3923-XXX	63.7	\$ 8997.00
4623-XXX	75.3	\$ 9477.00
5423-XXX	89.1	\$ 10486.00
6423-XXX	105.5	\$ 11696.00
7620-XXX	124.8	\$ 13536.00

- Above Pricing Includes;
- Manual controller, 13.8 cc charge pump.
 - Code 61, 1" SAE main ports.

XXX - Identifies specific unit configuration - **Consult Hyspecs**

- **N.B. Auxiliary Cooling is Recommended.**

CONFIGURATION OPTIONS

Spline, taper, and parallel keyed shaft versions available but not always ex stock. Check availability.
 21 cc charge pump - (except 64-76)
 28 cc charge pump - (33-54)
 35 cc charge pump - (64-76)
 SAE A pad auxiliary mount.
 SAE B pad auxiliary mount.
 SAE C pad auxiliary mount.
 Neutral detent
 Neutral lockout
 Electro-proportional control
 Hydraulic remote
 Inching valve
 Internal pressure over-ride
 Pressure over-ride
 Remote pressure over-ride
 Anti-stall with destroke valve
 External servo stop adjustment
 Stroke Limiter
 Tachometric auto displacement control

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CONTENTS SECTION B – MOTORS**B1 Geroler/Gerotor Motors**

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B3	T Series	<i>Eaton / Char-Lynn</i>
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B15 Piston Motors – Fixed Displacement M.D.

B15	74XXX Series	<i>Eaton</i>
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B16 Piston Motors – Variable Displacement M.D.

B16	71XXX Series	<i>Eaton</i>
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B17 Piston Motors – Fixed Displacement H.D.

B17	HD Series	<i>Eaton</i>
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B18 Piston Motors - Radial

B18	S Series	<i>Poclain</i>
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GEROLER MOTORS - J2 SERIES - EATON / CHAR-LYNN



SPECIFICATIONS - J2 SERIES

Displacement	<i>cc/rev</i>	8.2	12.9	19.8	31.6	50.0
Max. Speed*	<i>rpm</i>	1992	1575	1043	650	393
Flow	<i>lpm</i>	21	25	25	25	25
Torque*	<i>Nm</i>	16	25	38	50	62
Pressure Δbar**	<i>bar</i>	220	220	220	190	150

* @ max continuous flow and max. continuous pressure

** Max intermittent pressure @ motor inlet port of **220 bar** without regard to Δbar and/or back pressure ratings.

- Δbar - true pressure difference between inlet and outlet port.

J2 SERIES - 5/8" PARALLEL SHAFT - 9/16" UN - REAR PORTS.

MODEL	DISPLACEMENT <i>cc/rev</i>	LIST
129-0001	8.2	\$ 626.00
129-0002	12.9	\$ 626.00
129-0003	19.8	\$ 626.00
129-0004	31.6	\$ 626.00
129-0411	50.0	\$ 626.00

CONFIGURATION OPTIONS

LIST ADDER

11/16" Parallel Shaft	N/C
16 mm Parallel Shaft	N/C
Nickel Plated Shaft	\$ 61.00
3/8" BSP Rear Ports	N/C
9/16" UN O-Ring Side Ports	N/C
2 Bolt SAE A-A Mount	\$ 36.00

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GEROTOR MOTORS - H SERIES - EATON / CHAR-LYNN



SPECIFICATIONS - H SERIES

Displacement	<i>cc/rev</i>	36	46	59	74	97	120	146	159	185	231	293	370
Max. Speed*	<i>rpm</i>	1021	969	953	760	585	469	385	353	304	243	192	152
Flow	<i>lpm</i>	38	45	57	57	57	57	57	57	57	57	57	57
Torque*	<i>Nm</i>	56	73	91	118	155	192	221	233	265	302	351	407
Press. Δbar**	<i>bar</i>	124	124	124	124	124	124	117	114	110	100	93	86

* @ max continuous flow and max. continuous pressure

** Max intermittent pressure @ motor inlet port of **172 bar** without regard to Δbar and/or back pressure ratings.

- **A simultaneous maximum torque and maximum speed is NOT recommended.**
- 6B splined or tapered shafts are recommended whenever operating above 282 Nm of torque, especially for those applications subject to frequent reversals.
- **Maximum case pressure - without case drain - 103 bar**
- Δbar - true pressure difference between inlet and outlet port.

H SERIES- 2 BOLT MOUNT, 1" PARALLEL SHAFT, 7/8" UN PORTS.

MODEL	DISPLACEMENT <i>cc/rev</i>	LIST
101-1700	36	\$ 702.00
101-1033	46	\$ 708.00
101-1701	59	\$ 727.00
101-1034	74	\$ 736.00
101-1035	97	\$ 742.00
101-1702	120	\$ 759.00
101-1703	146	\$ 766.00
101-1036	159	\$ 791.00
101-1037	185	\$ 823.00
101-1038	231	\$ 863.00
101-1039	293	\$ 914.00
101-1040	370	\$ 986.00

CONFIGURATION OPTIONS

LIST ADDER

4 bolt standard mount	\$ N.C
2 bolt SAE 'B' mount	\$ 208.00
Manifold ports	\$ 34.00
1/2" BSP ports - 'O'-Ring	\$ 10.00
End ported with 3/4" UNO ports	\$ 45.00
1/4" BSP case drain end cap	\$ 28.00
7/16" UNO case drain end cap	\$ 28.00
1" x 6B Spline shaft	\$ 28.00
7/8" x 13T Spline shaft	\$ 28.00
25 mm metric parallel shaft	\$ 28.00
1" - 1:8 Taper shaft	\$ 75.00
1" Parallel shaft -nickel plated - for harsh environments	\$ 75.00
Epoxy coated marinised	\$ 148.00
Low speed valve	\$ 28.00
Speed sensor	\$ 650.00
Free running	\$ 28.00

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GEROLER MOTORS - T SERIES - EATON / CHAR-LYNN



SPECIFICATIONS - T SERIES

Displacement	cc/rev	36	46	66	80	102	131	157	195	244	306	370
Max. Speed*	rpm	1021	906	849	694	550	426	355	287	229	183	152
Flow	lpm	38	45	57	57	57	57	57	57	57	57	57
Torque*	Nm	76	105	138	174	219	251	297	359	410	441	430
Press. Δbar**	bar	155	155	155	155	155	138	138	138	127	110	90

* @ max continuous flow and max. continuous pressure

** Max intermittent pressure @ motor inlet port of **190 bar** without regard to Δbar and/or back pressure ratings.

- **A simultaneous maximum torque and maximum speed is NOT recommended.**
- 6B splined or tapered shafts are recommended whenever operating above 282 Nm of torque, especially for those applications subject to frequent reversals.
- **Maximum case pressure - without case drain - 103 bar**
- Δbar - true pressure difference between inlet and outlet port.

T SERIES - 2 BOLT MOUNT, 1" PARALLEL SHAFT, 7/8" UN PORTS.

MODEL	DISPLACEMENT cc/rev	LIST
158-3024	36	\$ 922.00
158-2917	49	\$ 931.00
158-1537	66	\$ 952.00
158-1034	80	\$ 938.00
158-1035	102	\$ 951.00
158-1538	131	\$ 972.00
158-1036	157	\$ 1005.00
158-1037	195	\$ 1044.00
158-1038	244	\$ 1069.00
158-1039	306	\$ 1158.00
158-1040	370	\$ 1206.00

CONFIGURATION OPTIONS

LIST ADDER

4 bolt standard mount	\$ N.C
2 bolt SAE 'B' mount	\$ 208.00
1/2" BSP ports -'O'-ring	\$ 10.00
Manifold ports	\$ 45.00
1/4" BSP case drain end cap	\$ 28.00
7/16" UNO case drain end cap	\$ 28.00
1" x 6B Spline shaft	\$ 28.00
7/8" x 13T Spline shaft	\$ 28.00
7/8" Parallel shaft	\$ 75.00
1" Parallel shaft - nickel plated	\$ 75.00
1:8 Taper shaft	\$ 75.00
25 mm Metric parallel shaft	\$ 28.00
Low speed	\$ 28.00
Epoxy coated marinised	\$ 148.00
Speed sensor	\$ 650.00
Free running.	\$ 28.00

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GEROLER MOTORS - T SERIES WITH STATIC BRAKE
EATON / CHAR-LYNN



SPECIFICATIONS - T SERIES WITH BRAKE

Displacement	<i>cc/rev</i>	80	157	244
Max. Speed*	<i>rpm</i>	694	355	229
Flow	<i>lpm</i>	57	57	57
Torque*	<i>Nm</i>	174	297	410
Press. Δbar**	<i>bar</i>	155	138	127

* @ max continuous flow and max. continuous pressure

** Max intermittent pressure @ motor inlet port of **190 bar** without regard to Δbar and/or back pressure ratings.

- **A simultaneous maximum torque and maximum speed is NOT recommended.**
- **Minimum brake release pressure 17 bar, maximum release pressure 103 bar**
- 6B splined or tapered shafts are recommended whenever operating above 282 Nm of torque, especially for those applications subject to frequent reversals.
- **Maximum case pressure - without case drain - 103 bar**
- Δbar - true pressure difference between inlet and outlet port.

T SERIES - 2 BOLT MOUNT, 1" PARALLEL SHAFT, 7/8" UN PORTS.

MODEL	DISPLACEMENT* <i>cc/rev</i>	LIST
185-2002	80	\$ 2019.00
185-2005	157	\$ 2043.00
185-2007	244	\$ 2129.00
185-2008	306	\$ 2199.00

* Other displacements are available on indent – **Contact Hyspecs**

CONFIGURATION OPTIONS

LIST ADDER

4 bolt standard mount	\$ NC
2 bolt SAE 'B' mount	\$ 215.00
1/2" BSP ports -'O'-ring	\$10.00
Manifold ports	\$ 46.00
1/4" BSP case drain end cap	\$ 29.00
7/16" UNO case drain end cap	\$ 29.00
1" x 6B Spline shaft	\$ 29.00
7/8" x 13T Spline shaft	\$ 29.00
7/8" Parallel shaft	\$ 78.00
1" Parallel shaft - nickel plated	\$78.00
1:8 Taper shaft	\$ 78.00
25 mm Metric parallel shaft	\$ 29.00
Low speed	\$ 29.00
Epoxy coated marinised	\$ 153.00
Speed sensor	\$ 672.00
Free running.	\$ 29.00

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GEROLER MOTORS – W SERIES WITH STATIC BRAKE
EATON / CHAR-LYNN



SPECIFICATIONS - W SERIES WITH PARKING BRAKE

Displacement	<i>cc/rev</i>	251	303	374
Max. Speed*	<i>rpm</i>	200	200	200
Flow	<i>lpm</i>	53	62	68
Torque*	<i>Nm</i>	375	387	410
Press. Δbar**	<i>bar</i>	110	97	83

* @ max continuous flow and max. continuous pressure

** Max pressure @ motor inlet port of **179 bar** without regard to Δbar and/or back pressure ratings.

- **A simultaneous maximum torque and maximum speed is NOT recommended.**
- **Minimum brake release pressure 15 bar, maximum release pressure 205 bar**
- **Maximum case pressure - without case drain - 103 bar**
- Δbar - true pressure difference between inlet and outlet port.

W SERIES - 4 BOLT WHEEL MOUNT, 1 1/4" TAPERED SHAFT, 7/8" UN PORTS.

MODEL	DISPLACEMENT <i>cc/rev</i>	LIST
162-1134	251	\$ 2827.00
162-1148	303	\$ 2849.00
162-1149	374	\$ 2888.00

Price List 2011



HYDRAULIC SPECIALTIES LTD.

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GEROLER MOTORS - 2000 SERIES - EATON / CHAR-LYNN



SPECIFICATIONS - 2000 SERIES

Displacement	<i>cc/rev</i>	80	100	130	160	195	245	305	395	492
Max. Speed*	<i>rpm</i>	799	742	576	477	385	308	246	191	153
Flow	<i>lpm</i>	75	75	75	75	75	75	75	75	75
Torque*	<i>Nm</i>	235	295	385	455	540	660	765	775	845
Press. Δbar**	<i>bar</i>	205	205	205	205	205	205	205	155	120

* @ max continuous flow and max. continuous pressure

** Max intermittent pressure @ motor inlet port of **310 bar** without regard to Δbar and/or back pressure ratings.

- **A simultaneous maximum torque and maximum speed is NOT recommended.**
- Maximum torque for 1" diameter shaft = 395 Nm continuous
- To assure optimum motor life, run motor for approximately one hour at 30% of rated pressure before application of full load.
- **Maximum case pressure - without case drain - 140 bar**
- Δbar - true pressure difference between inlet and outlet port.

2000 SERIES, 2 BOLT SAE A MOUNT, 1 1/4" PARALLEL SHAFT, 7/8"UN PORTS.

MODEL	DISPLACEMENT <i>cc/rev</i>	LIST
104-1022	80	\$ 1345.00
104-1023	100	\$ 1345.00
104-1024	130	\$ 1366.00
104-1025	160	\$ 1377.00
104-1026	195	\$ 1386.00
104-1027	245	\$ 1418.00
104-1028	305	\$ 1450.00
104-1228	395	\$ 1490.00
104-1420	492	\$ 1679.00

CONFIGURATION OPTIONS

LIST ADDER

4 bolt wheel mount	\$ 82.00
2 bolt std SAE B	\$ 203.00
4 bolt std. square mount	\$ 175.00
Magneto 4 bolt mount	\$ 27.00
1/2" BSP ports - O-ring	\$ 10.00
1 1/16"UN ports	\$ 53.00
End ported with 7/8" UNO ports	\$ 99.00
Manifold port mount - 0.375-16 mtg. holes	\$ 130.00
7/8"UN end ports	\$ 99.00
1 1/4" Tapered shaft	\$ 57.00
1" Parallel shaft	N/C
1" x 6B Spline shaft	\$33.00
1 1/4" x 14T 12/24 spline shaft	\$ 38.00
1 1/4" Parallel shaft - chrome plated	\$ 216.00
1" Parallel shaft - chrome plated	\$ 216.00
32 mm Metric parallel shaft	\$ 11.00
7/8" x 13T Spline shaft	\$ 59.00
2 Speed Motor	\$ 1880.00
Bearingless	P.O.A
Speed sensor	\$ 810.00

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GEROLER MOTORS - 4000 SERIES - EATON / CHAR-LYNN



SPECIFICATIONS - 4000 SERIES

Displacement	<i>cc/rev</i>	110	130	160	205	245	310	395	495	625
Max. Speed*	<i>rpm</i>	697	722	582	459	383	303	239	191	151
Flow	<i>lpm</i>	75	95	95	95	95	95	95	95	95
Torque*	<i>Nm</i>	320	375	485	600	705	850	930	945	970
Press. Δbar**	<i>bar</i>	205	205	205	205	205	205	185	140	115

* @ max continuous flow and max. continuous pressure

** Max intermittent pressure @ motor inlet port of **310 bar** without regard to Δbar and/or back pressure ratings.

- **A simultaneous maximum torque and maximum speed is NOT recommended.**
- Maximum torque for 1 1/4" diameter shaft = 770 Nm continuous
- To assure optimum motor life, run motor for approximately one hour at 30% of rated pressure before application of full load.
- **Maximum case pressure - without case drain - 105 bar**
- Δbar - true pressure difference between inlet and outlet port.

4000 SERIES, 4 BOLT SAE B MOUNT, 1 1/4" PARALLEL SHAFT, 1 1/16" UN PORTS.

MODEL	DISPLACEMENT <i>cc/rev</i>	LIST
109-1100	110	\$ 2243.00
109-1101	130	\$ 2276.00
109-1102	160	\$ 2291.00
109-1103	205	\$ 2506.00
109-1104	245	\$ 2325.00
109-1105	310	\$ 2352.00
109-1106	395	\$ 2394.00
109-1212	495	\$ 2613.00
109-1215	625	\$ 2898.00

CONFIGURATION OPTIONS

LIST ADDER

Wheel mount	\$ 127.00
4 bolt mount SAE C	\$ 53.00
3/4" Split flange ports	\$ 110.00
3/4" BSP ports	\$ 17.00
1 1/4" x 14T Spline shaft	\$ 19.00
1 1/2" x 17T Spline shaft	\$ 53.00
1 5/8" Tapered shaft	\$ 70.00
40 mm Parallel shaft	\$ 17.00
Two way shuttle	\$ 203.00
Bearingless	P.O.A

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GEROLER MOTORS – 4000 COMPACT SERIES - EATON / CHAR-LYNN

- This new compact edition in a family of disc valve hydraulic motors produces the same amount of torque as the current 4000 series. Yet, it is housed in an envelope similar to its smaller counterpart, the 2000 series.



SPECIFICATIONS - 4000 SERIES

Displacement	<i>cc/rev</i>	160	200	250	325	405	490
Max. Speed*	<i>rpm</i>	464	375	300	234	188	155
Flow	<i>lpm</i>	75	75	75	75	75	75
Torque*	<i>Nm</i>	510	758	734	793	800	975
Press. Δbar**	<i>bar</i>	225	225	205	170	140	140

* @ max continuous flow and max. continuous pressure

** Max intermittent pressure @ motor inlet port of **310 bar** without regard to Δbar and/or back pressure ratings.

- **A simultaneous maximum torque and maximum speed is NOT recommended.**
- Maximum torque for 1 1/4" diameter shaft = 770 Nm continuous
- To assure optimum motor life, run motor for approximately one hour at 30% of rated pressure before application of full load.
- **Maximum case pressure - without case drain - 105 bar**
- Δbar - true pressure difference between inlet and outlet port.

4000 SERIES, 4 BOLT SAE B MOUNT, 1 1/4" PARALLEL SHAFT, 1 1/16" UN PORTS.

MODEL	DISPLACEMENT <i>cc/rev</i>	LIST
169-0015	250	\$ 2046.00
169-0026	325	\$ 2140.00
169-0025	405	\$ 2253.00
169-0027	490	\$ 2330.00

- For other displacements *consult Hyspecs.*

CONFIGURATION OPTIONS

LIST ADDER

Wheel mount	\$ 123.00
4 bolt mount SAE C	\$ 51.00
3/4" Split flange ports	\$ 106.00
3/4" BSP ports	\$ 16.00
1 1/4" x 14T Spline shaft	\$ 18.00
1 1/2" x 17T Spline shaft	\$ 51.00
1 5/8" Tapered shaft	\$ 68.00
40 mm Parallel shaft	\$ 16.00
Two way shuttle	\$ 196.00
Bearingless	P.O.A

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GEROLER MOTORS - 6000 SERIES - EATON / CHAR-LYNN



SPECIFICATIONS - 6000 SERIES

Displacement	<i>cc/rev</i>	195	245	310	390	490	625	985
Max. Speed*	<i>rpm</i>	775	615	485	387	307	241	153
Flow	<i>lpm</i>	150	150	150	150	150	150	150
Torque*	<i>Nm</i>	575	735	930	1155	1445	1380	1685
Press. Δbar**	<i>bar</i>	205	205	205	205	205	140	140

* @ max continuous flow and max. continuous pressure

** Max intermittent pressure @ motor inlet port of **310 bar** without regard to Δbar and/or back pressure ratings.

- **A simultaneous maximum torque and maximum speed is NOT recommended.**
- Maximum torque for 1 1/2" diameter shaft = 1325 Nm continuous
- To assure optimum motor life, run motor for approximately one hour at 30% of rated pressure before application of full load.
- **Maximum case pressure - without case drain - 105 bar**
- Δbar - true pressure difference between inlet and outlet port.

6000 SERIES, 4 BOLT SAE 'C-C' MOUNT, 1 1/2" PARALLEL SHAFT, 1 5/16" UN PORTS.

MODEL	DISPLACEMENT <i>cc/rev</i>	LIST
112-1064	195	\$ 3034.00
112-1065	245	\$ 3094.00
112-1066	310	\$ 3142.00
112-1067	390	\$ 3218.00
112-1068	490	\$ 3312.00
112-1107	625	\$ 3447.00
112-1069	985	\$ 3750.00

CONFIGURATION OPTIONS

LIST ADDER

Wheel mount	\$ 128.00
3/4" Split flange ports	\$ 101.00
1" BSP ports	\$ 24.00
1 1/2" x 17T Spline shaft	\$ 53.00
1 3/4" Tapered shaft	\$ 101.00
40 mm Metric parallel shaft	\$ 68.00
Bearingless	P.O.A

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GEROLER MOTORS - 10000 SERIES - EATON / CHAR-LYNN



SPECIFICATIONS - 10000 SERIES

Displacement	<i>cc/rev</i>	345	480	665	940
Max. Speed*	<i>rpm</i>	501	354	254	179
Flow	<i>lpm</i>	170	170	170	170
Torque*	<i>Nm</i>	1040	1475	2085	2700
Press. Δbar**	<i>bar</i>	205	205	205	190

* @ max continuous flow and max. continuous pressure

** Max intermittent pressure @ motor inlet port of **275 bar** without regard to Δbar and/or back pressure ratings.

- **A simultaneous maximum torque and maximum speed is NOT recommended.**
- To assure optimum motor life, run motor for approximately one hour at 30% of rated pressure before application of full load.
- **Maximum case pressure - without case drain - 20 bar**
- Δbar - true pressure difference between inlet and outlet port.

10000 SERIES 4 BOLT STANDARD MOUNT, 2 1/4" PARALLEL SHAFT, 1 5/16" UN PORTS

MODEL	DISPLACEMENT <i>cc/rev</i>	LIST
119-1028	340	\$ 5554.00
119-1029	480	\$ 5638.00
119-1030	665	\$ 5763.00
119-1031	940	\$ 5940.00

CONFIGURATION OPTIONS

LIST ADDER

Wheel mount	\$ 390.00
1 1/4" Split flange ports	\$ 121.00
2 1/8" x 16T Spline shaft	\$ 102.00
2 1/4" Tapered shaft	\$ 102.00
2 Speed	\$ 3470.00

ALSO AVAILABLE AS 2 SPEED MOTORS (1:2).

- Shifts the motor from a low speed, high torque to a high speed, low torque mode.
- The open centre selector valve shifts the speed mode from low to high speed when pilot pressure is applied to the pilot port. The pilot pressure should be at least 7 bar higher than the case pressure.
- In the high speed mode torque values are approx. one half with twice the speed of a conventional 10000 series single speed motor.
- Normal position of the motor is in the low speed mode.



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GEROTOR/GEROLER MOTORS - SEAL KITS - EATON / CHAR-LYNN

SERIES	SHAFT SEAL *	LIST	SEAL KIT	LIST
J-SERIES 129-XXXX-002	14709-002	\$ 42.00	60580-000	\$ 110.00
H-SERIES 101-XXXX-005 101-XXXX-007 101-XXXX-008/009	20599-000 9057-001 9057-014	\$ 12.00 \$ 23.00 \$ 41.00	60036-000 60023-000 60540-000	\$ 56.00 \$ 67.00 \$ 84.00
S-SERIES 103-XXXX-006 103-XXXX-007 103-XXXX-008 103-XXXX-009/010	20599-000 9057-001 9057-001 9057-014	\$ 12.00 \$ 23.00 \$ 23.00 \$ 41.00	60042-000 60026-000 60533-000 60539-000	\$ 76.00 \$ 76.00 \$ 70.00 \$ 84.00
T-SERIES 158-XXXX-001 185-XXXX-001	9057-014 9057-014	\$ 41.00 \$ 41.00	60564-000 60564-000	\$ 97.00 \$ 97.00
W-SERIES 162-XXXX-004	9057-009	\$ 55.00	60577-000	\$ 158.00
2000-SERIES 104-XXXX-005 105-XXXX-005 106-XXXX-005 104-XXXX-006 105-XXXX-006 106-XXXX-006	9057-009 9057-009	\$ 55.00 \$ 55.00	61252-000 61258-000	\$ 110.00 \$ 110.00
3000-SERIES 107-XXXX-004			6099-000	\$ 97.00
4000-SERIES 109-XXXX-004 110-XXXX-004 109-XXXX-006 110-XXXX-006 111-XXXX-004/005	9057-012 9057-012	\$ 72.00 \$ 72.00	61234-000 (Rear) 61236-000 (Shaft) 61234-000 (Rear) 61281-000 (Shaft) 61235-000 (Bearingless)	\$ 49.00 \$ 79.00 \$ 49.00 \$ 79.00 \$ 58.00
6000-SERIES 112-XXXX-005/006 113-XXXX-005/006 114-XXXX-005/006	9057-013 9057-013	\$ 80.00 \$ 80.00	61237-000 (Shaft) 61238-000 (Rear) 61239-000 (Bearingless)	\$ 79.00 \$ 79.00 \$ 140.00
10000-SERIES 119-XXXX-002/003/004 120-XXXX-002/003/004	9004-002	\$ 46.00	6405-000 (Rear) 6406-000 (Front)	\$ 96.00 \$ 101.00

* Shaft seal only. Does not include backup washer or dust seal if needed.

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GEROTOR HIGH SPEED MOTORS - GRESEN



MGG SERIES

Displacement	<i>cc/rev</i>	3.5	6.2	7.4	9.5	11.5
Max. Speed	<i>rpm</i>	5000	5000	5000	5000	5000
Flow*	<i>lpm</i>	22	35	42	52	63
Torque*	<i>Nm</i>	6.8	11.8	15.8	19.2	24.9
Press. Δbar	<i>bar</i>	138	138	138	138	104
Power Output*	<i>kW</i>	3	4	7	9	11

* @ max. continuous flow and max. continuous pressure

- **Maximum back pressure = 68 bar.**
- All MGG20010, MGG20016, MGG20020 motors have 3/4-16 UNF Ports.
- All MGG20025, MGG20030 motors have 7/8-14 UNF Ports.
- All MGG motors have a 9/16" parallel, keyed shaft

GRESEN MGG GEROTOR MOTORS

MODEL	DISPLACEMENT <i>cc/rev</i>	LIST
MGG20010 B * 1 ^ 3	3.5	\$ 718.00
MGG20016 B * 1 ^ 3	6.2	\$ 730.00
MGG20020 B * 1 ^ 3	7.4	\$ 737.00
MGG20025 B * 1 ^ 3	9.5	\$ 750.00
MGG20030 B * 1 ^ 3	11.5	\$ 768.00

* Flange 'A' designates 2 Bolt SAE AA
'B' designates 4 Bolt, to suit M8 bolts on a 50.8 mm PCD, 45.28 mm spigot

^ Port Locations, 'A' designates 2 Rear Ports
'B' designates 2 Side Ports



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GEAR MOTORS - GALTECH



GROUP 2 'START' MOTORS.

- 12 tooth gears and consequent decrease in noise levels.
- High working pressures.
- Flange and cover in aluminium or on request, cast iron.
- Bi-directional motors with bronze teflon bushings for heavy duty, non-dusty environments where noise levels must be kept down.
- Euro-mount - 96.2 mm x 71.5 mm rectangular, - spigot \varnothing 36.5 mm, - 1:8 taper shaft.

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. PRESSURE <i>bar</i>	MAX. SPEED <i>rpm</i>	LIST
2SM-A-04-R-10N	4.0	230	4000	\$ 629.00
2SM-A-06-R-10N	6.0	230	4000	\$ 629.00
2SM-A-08-R-10N	8.5	230	3500	\$ 629.00
2SM-A-11-R-10N	11.0	230	3500	\$ 655.00
2SM-A-14-R-10N	14.0	230	3500	\$ 655.00
2SM-A-16-R-10N	16.5	195	3500	\$ 655.00
2SM-A-19-R-10N	19.5	180	3300	\$ 655.00
2SM-A-22-R-10N	22.5	165	2800	\$ 680.00
2SM-A-26-R-10N	26.0	150	2500	\$ 680.00

CONFIGURATION OPTIONS

LIST ADDER

Shaft type	1:8 Taper shaft – 10	N/C
	5/8" Parallel keyed shaft – 13	N/C
Mounting flange type	Standard Euro-mount 96.2 mm x 71.5 mm rectangle	N/C
	SAE 'A' Two bolt mount	\$ 45.00

ACCESSORIES

LIST

FG 3/4"-40	Port flange, 90° elbow, 3/4" BSP, 40 PCD, 11-26 cc/rev	\$ 39.00
FG 1/2"-30	Port flange, 90° elbow, 1/2" BSP, 30 PCD, 4-8 cc/rev	\$ 29.00
FI 40-1/2"-Z-C	Port flange, straight port, 1/2" BSP, 40 PCD, 11-26 cc/rev	\$ 83.00
FI 30-3/8"-Z-C	Port flange, straight port, 3/8" BSP, 30 PCD, 4-8 cc/rev	\$ 64.00

N.B. - Please consult Hyspecs concerning series applications using gear motors.

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GEAR MOTORS – GALTECH



GROUP 3 ‘START’ MOTORS.

- 12 Tooth gears and consequent decrease in noise levels.
- High working pressures.
- Flange and cover in aluminium or on request, cast iron.
- Bi-directional motors with bronze teflon bushings for heavy duty, non-dusty environments where noise levels must be kept down.
- Euro-mount, - 96.2 mm x 71.5 mm, - spigot Ø36.5 mm, - 1:8 taper.

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. PRESSURE <i>bar</i>	MAX. SPEED <i>rpm</i>	LIST
3SM-A-19-R-10N	19.0	215	3500	\$ 1170.00
3SM-A-22-R-10N	22.3	205	3500	\$ 1170.00
3SM-A-29-R-10N	29.3	190	3300	\$ 1170.00
3SM-A-33-R-10N	32.9	190	3300	\$ 1170.00
3SM-A-36-R-10N	36.4	180	3300	\$ 1170.00
3SM-A-44-R-10N	43.5	170	3000	\$ 1235.00
3SM-A-52-R-10N	51.7	170	3000	\$ 1235.00
3SM-A-62-R-10N	61.1	155	2500	\$ 1235.00

CONFIGURATION OPTIONS

LIST ADDER

Shaft type	1:8 Taper shaft – 10	N/C
	7/8" Parallel keyed shaft – 13	N/C
Mounting flange type	Standard Euro-mount 128 mm x 98 mm rectangle	N/C
	SAE ‘B’ Two bolt mount	\$ 160.00

ACCESSORIES

LIST

FG 1"-51	Port flange, 90° elbow, 1" BSP, 51 PCD	\$ 64.00
FI 40-1/2"-Z-C	Port flange, straight port, 1/2" BSP, 40 PCD	\$ 83.00

N.B. - Please consult Hyspecs concerning series applications using gear motors.



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PISTON MOTORS - FIXED DISPLACEMENT M.D. - EATON



74XXX SERIES

Model		74111	74118	74315	74318	74328	74624
Displacement	cc/rev	12.3	20.3	32.9	40.6	49.2	82.6
Max. Speed	rpm	4500	3600	3600	3600	3000	1500
Flow*	lpm	64	79	121	154	156	129
Torque*	Nm	28.3	58.8	92	136	138	280
Press. Δbar	bar	210	210	210	210	210	240
Power Output	kW	13.8	23.2	35	43	43	43

* @ max continuous flow and max. continuous pressure

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>LIST</u>
74111-XXX	SAE A two bolt mount, opposite side ports. 7/8" 13T splined shaft, or 7/8" parallel keyed shaft.	\$ 1946.00
74118-XXX	SAE A two bolt mount, opposite side ports. 7/8" 13T splined shaft, or 7/8" parallel keyed shaft.	\$ 1946.00
74315-XXX	SAE B two bolt mount, rear ports. 7/8" 13T splined shaft, or 7/8" parallel keyed shaft.	\$ 2069.00
74318-XXX	SAE B two bolt mount, rear ports. 7/8" 13T splined shaft, or 7/8" parallel keyed shaft	\$ 2081.00
74328-XXX	SAE B two bolt mount, rear ports. 7/8" 13T splined shaft, or 7/8" parallel keyed shaft	\$ 2328.00
74624-XXX	SAE B two bolt mount, rear ports. 1" 15T splined shaft, or 1" parallel keyed shaft.	\$ 2769.00

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PISTON MOTORS - VARIABLE DISPLACEMENT M.D. - EATON



71XXX SERIES

Model		71302
Displacement	<i>cc/rev</i>	21.0 to 40.7
Max. Speed @ 17° Cam Angle	<i>rpm</i>	3000 @ 17°
Max. Flow*	<i>lpm</i>	126 @ 17°
Max. Torque*	<i>Nm</i>	124.3
Press. Δbar	<i>bar</i>	210
Power Output*	<i>kW</i>	38.8 @17°

* @ max continuous flow and max. continuous pressure

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>LIST</u>
71402-XXX	SAE B two bolt mount, rear ports. 7/8" 13T splined shaft, Right hand control shaft	\$ 3162.00

ACCESSORIES

79003-CAB	External servo displacement control.	\$ 647.00
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PISTON MOTORS - FIXED DISPLACEMENT H.D. - EATON



HD SERIES

Model		39	46	54	64	76
Displacement	cc/rev	63.7	75.3	89.1	105.5	124.8
Max. Speed @ 18° Cam Angle	rpm	4160	4160	3720	3720	2775
Max. Flow	lpm	231	332	337	409	371
Max. Torque**	Nm	397	469	556	656	781
Press. Δbar	bar	240	240	240	240	240
Power Output	kW	125	150	155	185	164

* At 15.5° cam angle

** Maximum output torque is measured @ 415 bar

MODEL	DISPLACEMENT	LIST
	cc/rev	
3933-XXX	63.7	\$ 6051.00
4633-XXX	75.3	\$ 6383.00
5433-XXX	89.1	\$ 7060.00
6433-XXX	105.5	\$ 7871.00
7630-XXX	124.8	\$ 9510.00

XXX - Identifies specific unit configuration - **Consult Hyspecs**

- Variable displacement units also available on request.



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PISTON MOTORS - RADIAL - POCLAIN



“S” SERIES.

- Hydraulic shaft motors: multi-cam radial pistons. Standard manufacture splined shaft (DIN), one or two speeds, with or without brake (integral multi-disc wet brake).
- Also available as a hydraulic wheel motor with flanged output shaft or drum brake on some models.

SPECIFICATION – MS SERIES

Model		MS02	MS05	MS08	MS11	MS18	MS25	MS35	MS50	MS83	MS125
Displacement	cc/rev	213	468	780	1048	1747	2498	3494	4996	8323	12500
Max. Speed	rpm	310	240	170	180	150	140	130	135	60	40
Max. Torque*	Nm	1845	4005	6682	9000	15030	21510	30060	43065	71775	76320
Press. Δbar*	bar	450	450	450	450	450	450	450	450	450	450
Power Output	kW	18	29	41	50	70	90	110	140	200	240

* Theoretical maximum torque at maximum pressure and largest displacement

** Depending on selected displacement

- Intermediate displacements are available – Contact Hyspecs

MSE SERIES.

- Some “S” Series are available with larger displacements in smaller bodies to give a compact design. This results in lower pressures and speeds.

SPECIFICATION – MSE SERIES

Model		MSE02***	MSE05	MSE08	MSE11	MSE18
Displacement	cc/rev	332	625	1050	1404	2340
Max. Speed	rpm	200	180	130	135	110
Max. Torque*	Nm	2500	4760	7900	10740	17840
Press. Δbar**	bar	400	400	400	400	400
Power Output	kW	22	29	41	50	70

* Theoretical maximum torque at maximum pressure and largest displacement

** Depending on selected displacement

*** Single displacement only.

- Intermediate displacements are available – Contact Hyspecs



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PISTON MOTORS - RADIAL - POCLAIN



POCLAIN MS, MSE AND BRAKE PRICING MATRIX

MODEL	LIST <i>Standard Version*</i>	LIST ADDER <i>E Version</i>	LIST ADDER <i>2 Speed</i>	LIST ADDER <i>Brake</i>
MS02	\$4236.00	+ \$ 641.00	N/A	+ \$ 1044.00
MS05	\$ 6450.00	+ \$ 975.00	+ \$ 655.00	+ \$ 1876.00
MS08	\$ 8879.00	+ \$ 1335.00	+ \$ 888.00	+ \$ 2310.00
MS11	\$ 11200.00	+ \$ 2101.00	+ \$ 1335.00	+ \$ 2706.00
MS18	\$ 14819.00	+ \$ 2220.00	+ \$ 1580.00	+ \$ 2995.00
MS25	\$ 19757.00	N/A	+ \$ 2316.00	+ \$ 6330.00
MS35	\$ 23859.00	N/A	+ \$ 2415.00	+ \$ 6895.00
MS50	\$ 29194.00	N/A	+ \$ 2540.00	+ \$ 7738.00
MS83	\$ 51186.00	N/A	+ \$ 2643.00	+ \$ 8833.00
MS125	\$ 60780.00	N/A	+ \$ 2643.00	+ \$ 8833.00

* Single speed version.

** Prices are indicative and may vary with the specific options required.



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CONTENTS SECTION C – HYDROSTATICS**C1 Transmission – Light Duty**

C1 Model 7 Transmission *Eaton*
C1 Model 11 Transmission *Eaton*

C2 Transmission Pumps & Transaxles - Light Duty

C2 Model 11 Pump *Eaton*
C3 Model 851 Transaxle *Eaton*

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TRANSMISSIONS - LIGHT DUTY - EATON

- Consists of a variable displacement radial ball piston pump, a fixed displacement radial ball piston motor and a system of valves all contained in one housing.
- These transmissions give fast response and are capable of maintaining precise speed under varying load conditions.
- One lever controls direction and speed smoothly without gear change. This lever also provides braking. The output shaft speed decreases as the lever is moved toward neutral. With the lever in neutral, output stops.



LIGHT DUTY PUMP – MOTOR COMBO SERIES

Model		MODEL 7	MODEL 11
Max Displacement – Pump	cc/rev	7.6	19.0
Displacement – Motor	cc/rev	12.6	34.2
Max. Speed - Input	rpm	3600	3600
Max. Speed - Output	rpm	0 - 2150	0 - 1950
Max. Power – Input*	kW	3	15
Max. Torque – Output	Nm	25	31
Max. Operating Temperature	°C	82	82

* @ max continuous input speed

MODEL 7

MODEL	ROTATION INPUT	ROTATION OUTPUT	INPUT SHAFT	OUTPUT SHAFT	DUMP VALVE	LIST
700-001	CCW	CW	Parallel keyed	Parallel keyed	Yes	\$ 1852.00
700-003	CW	CCW	Parallel keyed	Parallel keyed	Yes	\$ 1852.00

MODEL 11

MODEL	ROTATION INPUT	INPUT SHAFT	OUTPUT SHAFT	LIST
1100-005	CCW	Keyed, bearing	Keyed	\$ 2621.00
1100-030	CCW	Keyed, bush	12T 20/40P	\$ 2712.00
1100-038	CW	Keyed, bush	Keyed	\$ 2553.00
1100-048	CCW	Keyed, bearing	12T 20/40P	\$ 3051.00

- Proper cooling is essential to both the performance and the life of these transmissions.
- The recommended max. oil temperature is 82°C. A Ø205 mm fan must be attached to the coupling at the input shaft to blow air across the finned cover, or use an external oil cooler.

FANS

106014-000	Light duty fan. CW - rotation	\$ 40.00
106015-000	Light duty fan. CCW - rotation	\$ 40.00

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TRANSMISSION PUMPS & TRANSAXLES - LIGHT DUTY - EATON



MODEL 11 PUMP

- Model 11 radial ball piston pump uses the same pumping element as the Model 11 hydrostatic transmission. Suitable for applications requiring variable flow in both directions up to 66.2 lpm.

SPECIFICATIONS

Model		MODEL 11 PUMP
Max Displacement – Pump	<i>cc/rev</i>	0 – 18.0
Max. Speed	<i>rpm</i>	3600
Max. Operating Pressure	<i>bar</i>	155
Norm. Charge Pump Flow*	<i>lpm</i>	15
Aux. Chg. Pump Pressure	<i>bar</i>	35 (55 bar optional)

* @ 3.4 bar and 3600 rpm

MODEL 11 PUMP

MODEL	ROTATION	INPUT SHAFT	OUTPUT FLOW	CHARGE PRESSURE <i>bar</i>	LIST
1120-012	CCW*	Keyed, bearing	Bottom port B	55	\$ 2411.00
1120-013	CW*	Keyed, bearing	Top port A	55	\$ 2295.00
1120-016	CW	Keyed, bearing	Top port A	55	\$ 2234.00
1120-017	CCW	Keyed, bearing	Top port A	55	\$ 2234.00

* Come with Acceleration valves

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TRANSMISSION PUMPS & TRANSAXLES - LIGHT DUTY - EATON



MODEL 851 TRANSAXLE.

- Hydrostatic Transaxles complete with integral ball piston pump and motors, and axle housing with planetary gears to provide drive package.
- Infinitely adjustable control with one lever to provide forward and reverse, quick response and positive dynamic braking in either forward or reverse.

SPECIFICATIONS

Model		MODEL 851
Max. Power - Input	<i>kW</i>	4.0
Max. Speed - Input	<i>rpm</i>	3900
Max. Speed – Output*	<i>rpm</i>	0 - 112
Max. Torque – Output**	<i>Nm</i>	439
Max. Case Pressure	<i>bar</i>	0.5
Max. Weight over Axle	<i>kg</i>	408
Max. Operating Temp	<i>°C</i>	82

- * @ 3600 rpm input
- ** with 23:1 final drive

- Options include 16 or 23:1 final drive ratio, CW or CCW rotation, single or dual path flow, various side and over port fittings, dump valve or no dump valve, and a range of axle widths.

MODEL 851 TRANSAXLE

MODEL	DESCRIPTION	LIST
851-097	750 mm Axle Width	\$ 3241.00

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CONTENTS SECTION D – CONTROL VALVES

D1 Manual Valves

D1	Q35M	Galtech
D1	Q25M	Galtech
D2	Q45M	Galtech
D3	Q75M	Galtech
D4	Q95M	Galtech
D5	LS Series	Brand
D5	SDCF Series	Brand
D6	DCF Series	Brand

D7 Cetop Solenoid Valves & Accessories

D7	Cetop Manifold Sub-Plates - How to Order	Hydraulic Specialties
D8	Cetop 3 Sub-Plates	Hydraulic Specialties
D8	Cetop 5 Sub-Plates	Hydraulic Specialties
D9	Cetop 3	Northman
D10	General Spool & Solenoid Configuration	Northman
D11	Cetop 3 Modules	Northman
D12	Cetop 5	Northman
D13	Cetop 5 Modules	Northman
D14	Cetop 3	Eaton/Vickers
D17	Cetop Spool & Solenoid Configuration	Eaton/Vickers
D18	Cetop 3 Modules	Eaton/Vickers
D19	Cetop 5	Eaton/Vickers
D21	Cetop 5 Modules	Eaton/Vickers
D22	Cetop 7	Eaton/Vickers
D23	Cetop 8	Eaton/Vickers

D24 Proportional Valves

D24	Cetop 3	Eaton/Vickers
D25	Cetop 3 Accessories	Eaton/Vickers
D26	DPC130	Walvoil

D32 Selector Valves

D32	3 Port Selectors	Gresen
D32	3 & 6 Port Selectors	Galtech
D33	Electric 3, 6 & 8 Port	LC Oleodinamica

D34 Flow Control Valves

D34	Electronic 3 Port P/C Flow Control	Brand
D34	3 Port P/C Flow Control	Brand
D34	2 Port P/C Flow Control	Snap-Tite
D35	Motorised 3 Port P/C Flow Control	Technord
D35	2 Port, High Pressure Needle Valve	Tognella
D35	2 Port, High Pressure, FRF, Needle Valve	Tognella
D36	2 Port, Brass Forged Needle Valve	Tognella
D36	2 Port, Brass Forged, FRF Needle Valve	Tognella
D36	2 Port, 90°, Brass Forged Needle Valve	Tognella
D36	2 Port, 90°, Brass Forged, FRF N/Valve	Tognella

D37 Gauge Isolators

D37	Needle Type	Tognella
D37	Push Button Type	Tognella

PTO

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CONTENTS SECTION D – CONTROL VALVES – Cont.

D37 Stainless Steel Valves

D37	2-Way Ball Valve	<i>Tognella</i>
D37	Needle Valve	<i>Tognella</i>
D37	2-Port PC Flow Control	<i>Tognella</i>

D38 Ball Valves

D38	Ball Valve – 2 Way	<i>Tognella</i>
D38	Ball Valve – 3 Way	<i>Tognella</i>

D38 Check Valves

D38	Check Valve – 0.35 Bar Spring	<i>Tognella</i>
D38	Check Valve – 4.5 Bar Spring	<i>Tognella</i>

D39 Reciprocating Valves

D39	Reciprocating Valve - Cetop 3	<i>LC Oleodinamica</i>
D39	Reciprocating Valve - Cetop 5	<i>LC Oleodinamica</i>

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MANUAL VALVES - GALTECH

Q35M/1

- One spool monoblock with adjusted spool timing to eliminate the need for a load drop check.
- All ports 3/8" BSP.



SPECIFICATIONS

MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESSURE <i>bar</i>	LIST
Q35M/1	1 Spool c/w Relief	50	350	\$ 272.00

Q25M/*

- Monoblock valves equipped with load drop check and adjustable relief valve.
- Max. back pressure = 25 bar standard. (180 bar on 1 & 2 bank valves on request)
- 3/8" BSP inlet & cylinder ports, 1/2" BSP tank port.
- Handle can be fitted either end.
- **CAUTION:** Remove load check if using any motor spools with over running loads.

SPECIFICATIONS

MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESSURE <i>bar</i>	LIST
Q25M/1	1 Spool c/w Relief	40	350	\$ 340.00
Q25M/2	2 Spool c/w Relief	40	350	\$ 536.00
Q25M/3	3 Spool c/w Relief	40	320	\$ 680.00
Q25M/4	4 Spool c/w Relief	40	300	\$ 838.00
Q25M/5	5 Spool c/w Relief	40	300	\$ 1040.00
Q25M/6	6 Spool c/w Relief	40	270	\$ 1291.00
Q25M/7	7 Spool c/w Relief	40	270	\$ 1485.00

CONFIGURATION OPTIONS

LIST ADDER

02566 F6D	Power beyond sleeve.	\$ 43.00
03600 A1-A2	Handle and bracket	\$ 96.00
03741 R1	1 position detent kit. Pull lever to detent.	\$ 50.00
03742 R2	1 position detent kit. Push lever to detent.	\$ 50.00
03743 R1K	3 position detent kit. Hydraulic release.	\$ 255.00
03743 R3	3 position detent kit.	\$ 45.00
03746 R6	2 position detent kit	\$ 45.00
03748 R8	4th Position float kit.	\$ 146.00
Z10071L1500	1.5m remote cable.	\$ 127.00
Z10071L2000	2.0m remote cable.	\$ 139.00
Z10071L3000	3.0m remote cable.	\$ 164.00
03637 A15-R	Dual axis lever to fit directly to valve.	\$ 479.00
03630 SL	Remote lever	\$ 164.00
03631 SL/A15-DU	Dual axis remote lever.	\$ 510.00
03715 M1-U2	Cable adapter kit.	\$ 83.00
03661 P1-N	Pneumatic actuator.	\$ 221.00
03785 H5	Hydraulic actuator.	\$ 185.00
02571 103/71	12VDC on/off solenoid kit.	\$ 592.00
02571 103/72	24VDC on/off solenoid kit.	\$ 592.00

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MANUAL VALVES - GALTECH

Q45M

- Monoblock valves equipped with load drop check and adjustable relief valve.
- Max. back pressure = 25 bar standard. (180 bar on 1 & 2 bank valves on request)
- 1/2" BSP inlet & cylinder ports, 1/2"BSP tank port.
- Handle can be fitted either end.
- **CAUTION:** Remove load check if using any motor spools with over running loads.



SPECIFICATIONS

MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESSURE <i>bar</i>	LIST
Q45M/1	1 Spool c/w Relief	60	350	\$ 372.00
Q45M/2	2 Spool c/w Relief	60	350	\$ 567.00
Q45M/3	3 Spool c/w Relief	60	320	\$ 712.00
Q45M/4	4 Spool c/w Relief	60	300	\$ 869.00
Q45M/5	5 Spool c/w Relief	60	300	\$ 1070.00
Q45M/6	6 Spool c/w Relief	60	300	\$ 1304.00
Q45M/7	7 Spool c/w Relief	60	300	\$ 1518.00

CONFIGURATION OPTIONS

LIST ADDER

02566 F6D	Power beyond sleeve.	\$ 43.00
03600 A1-A2	Handle and bracket	\$ 96.00
03741 R1	1 position detent kit. Pull lever to detent.	\$ 50.00
03742 R2	1 position detent kit. Push lever to detent.	\$ 50.00
03743 R1K	3 position detent kit. Hydraulic release.	\$ 255.00
03743 R3	3 position detent kit.	\$ 45.00
03746 R6	2 position detent kit	\$ 45.00
03748 R8	4th Position float kit.	\$ 146.00
Z10071L1500	1.5m remote cable.	\$ 127.00
Z10071L2000	2.0m remote cable.	\$ 139.00
Z10071L3000	3.0m remote cable.	\$ 164.00
03637 A15-R	Dual axis lever to fit directly to valve.	\$ 479.00
03630 SL	Remote lever	\$ 164.00
03631 SL/A15-DU	Dual axis remote lever.	\$ 510.00
03715 M1-U2	Cable adapter kit.	\$ 83.00
03661 P1-N	Pneumatic actuator.	\$ 221.00
03785 H5	Hydraulic actuator.	\$ 185.00
02571 103/71	12VDC on/off solenoid kit.	\$ 592.00
02571 103/72	24VDC on/off solenoid kit.	\$ 592.00

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MANUAL VALVES - GALTECH

Q75M

- Monoblock valves equipped with load drop check and adjustable relief valve.
- Max. back pressure = 25 bar standard. (180 bar on 1 & 2 bank valves on request)
- 1/2" BSP inlet & cylinder ports, 3/4" BSP tank port.
- Handle can be fitted either end.

- **CAUTION:** Remove load check if using any motor spools with over running loads.



SPECIFICATIONS

MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESSURE <i>bar</i>	LIST
Q75M/1	1 Spool c/w Relief	80	350	\$ 479.00
Q75M/2	2 Spool c/w Relief	80	330	\$ 730.00
Q75M/3	3 Spool c/w Relief	80	300	\$ 964.00
Q75M/4	4 Spool c/w Relief	80	270	\$ 1228.00
Q75M/5	5 Spool c/w Relief	80	270	\$ 1454.00
Q75M/6	6 Spool c/w Relief	80	270	\$ 1888.00

CONFIGURATION OPTIONS

LIST ADDER

05566 F6D	Power beyond sleeve.	\$ 43.00
08600 A1-A2	Handle and bracket	\$ 96.00
08741 R1	1 position detent kit. Pull lever to detent	\$ 70.00
08742 R2	1 position detent kit. Push lever to detent	\$ 70.00
08743 R1K	3 position detent kit. Hydraulic release.	\$295.00
08743 R3	3 position detent kit.	\$ 57.00
08748 R8	4th Position float kit.	\$ 146.00
Z10071L1500	1.5m remote cable.	\$ 127.00
Z10071L2000	2.0m remote cable.	\$ 139.00
Z10071L3000	3.0m remote cable.	\$ 164.00
08630 SL	Remote lever	\$ 187.00
08715 M1-U2	Cable adapter kit	\$ 101.00
08661 P1-N	Pneumatic actuator	\$ 246.00
08785 H5	Hydraulic actuator.	\$ 212.00
05571 103/31	12VDC on/off solenoid kit – (Available on Q75M/1 only)	\$ 783.00
05571 103/32	24VDC on/off solenoid kit – (Available on Q75M/1 only)	\$ 783.00

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MANUAL VALVES - GALTECH

Q95M

- Monoblock valve equipped with load drop check and adjustable relief valve.
- Max. back pressure = 25 bar standard.
- 3/4" BSP inlet & cylinder ports, 3/4"BSP tank port.
- Handle can be fitted either end.
- **CAUTION:** Remove load check if using any motor spools with over running loads.



SPECIFICATIONS

MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESSURE <i>bar</i>	LIST
Q95M/1	1 Spool c/w Relief	120	350	\$ 561.00
Q95M/2	2 Spool c/w Relief	120	350	\$ 806.00
Q95M/3	3 Spool c/w Relief	120	300	\$ 1065.00
Q95M/4	Not available			
Q95M/5	5 Spool c/w Relief	120	270	\$ 1550.00
Q95M/6	6 Spool c/w Relief	120	270	\$ 1920.00

CONFIGURATION OPTIONS

LIST ADDER

05566 F6D	Power beyond sleeve.	\$ 43.00
08600 A1-A2	Handle and bracket	\$ 96.00
08741 R1	1 position detent kit. Pull lever to detent	\$ 70.00
08742 R2	1 position detent kit. Push lever to detent	\$ 70.00
08743 R1K	3 position detent kit. Hydraulic release.	\$ 295.00
08743 R3	3 position detent kit.	\$ 57.00
08748 R8	4th Position float kit.	\$ 177.00
Z10071L1500	1.5m remote cable.	\$ 127.00
Z10071L2000	2.0m remote cable.	\$ 139.00
Z10071L3000	3.0m remote cable.	\$ 164.00
08630 SL	Remote lever	\$ 187.00
08715 M1-U2	Cable adapter kit	\$ 101.00
08661 P1-N	Pneumatic actuator	\$ 246.00
08785 H5	Hydraulic actuator.	\$ 212.00
05571 103/31	12VDC on/off solenoid kit – (Available on Q95M/1 only)	\$ 793.00
05571 103/32	24VDC on/off solenoid kit – (Available on Q95M/1 only)	\$ 793.00

Price List 2011



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MANUAL VALVES - BRAND

LS SERIES

- Primarily for log splitters with flows to 68 lpm and 207 bar.
- Designed to spring centre to neutral in one direction and pressure release the detent in the other direction when the cylinder completes its return stroke.
- Available in tandem and closed centre spools.
- LS120 Ports - Inlet and outlet are 1 1/16" UNO and 7/8" UNO work ports.



MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESS. <i>bar</i>	LIST
LS120T4JRSHA	Tandem centre valve, adjustable detent pressure	68	207	\$ 378.00
LS120C4JRSHA	Closed centre valve, adjustable detent pressure	68	207	\$ 420.00

SDCF SERIES

- Combines the features of a four way control valve, an adjustable full range pressure compensated by-pass flow control valve and a pilot operated pressure relief valve in one package.
- Fine positive metering is possible in both directions with one infinitely variable lever controlling both direction and the amount of flow.
- Amount of flow is proportional to the movement of the lever, and is constant regardless of pressure variations.
- The valves are 207 bar capable & available with 22 lpm, 45 lpm, & 68 lpm rated spools.
- Available with tandem metering, fine metering and open centre spools.
- Ports - Inlet and outlet are 1 1/16" UN O-Ring and work ports are 7/8" UN O-RING.
- Stainless steel spools are standard.



MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESS. <i>bar</i>	LIST
SDCF120TM184LF1	Single section c/w relief 68 lpm spool Ball friction detent	68	207	\$ 680.00

CONFIGURATION OPTIONS

Fine metering spool - M
Open centre spool - O
22 lpm spool - 6
45 lpm spool - 12
68 lpm spool - 18
Spring centred - S
3 Position ball detent - D

LIST ADDER

N/C
N/C
N/C
N/C
N/C
N/C
N/C

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MANUAL VALVES - BRAND



DCF SERIES

- Combines the features of a four way control valve, an adjustable full range pressure compensated by-pass flow control valve and a pilot operated pressure relief valve in one package.
- Fine positive metering is possible in both directions with one infinitely variable lever controlling both direction and the amount of flow. Amount of flow is proportional to the movement of the lever, and is constant regardless of pressure variations.
- The valves are 207 bar capable and available with 56 lpm, 114 lpm, & 170 lpm
- Available with tandem metering, fine metering and open or closed centre spools.
- Ports - Inlet and outlet are 1 5/16"-12 (SAE #16) and work ports are 1 3/16"-12 (SAE #14).
- Stainless Steel spools are standard.

MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESS. <i>bar</i>	LIST
DCF16TM454LF1	Single section c/w relief 170 lpm spool Ball friction detent	170	207	\$ 1106.00

CONFIGURATION OPTIONS

LIST ADDER

Fine metering spool - M	N/C
Open centre spool - O	N/C
56 lpm spool - 15	N/C
114 lpm spool - 30	N/C
170 lpm spool - 45	N/C
Spring centred - S	N/C
3 Position ball detent - D	N/C



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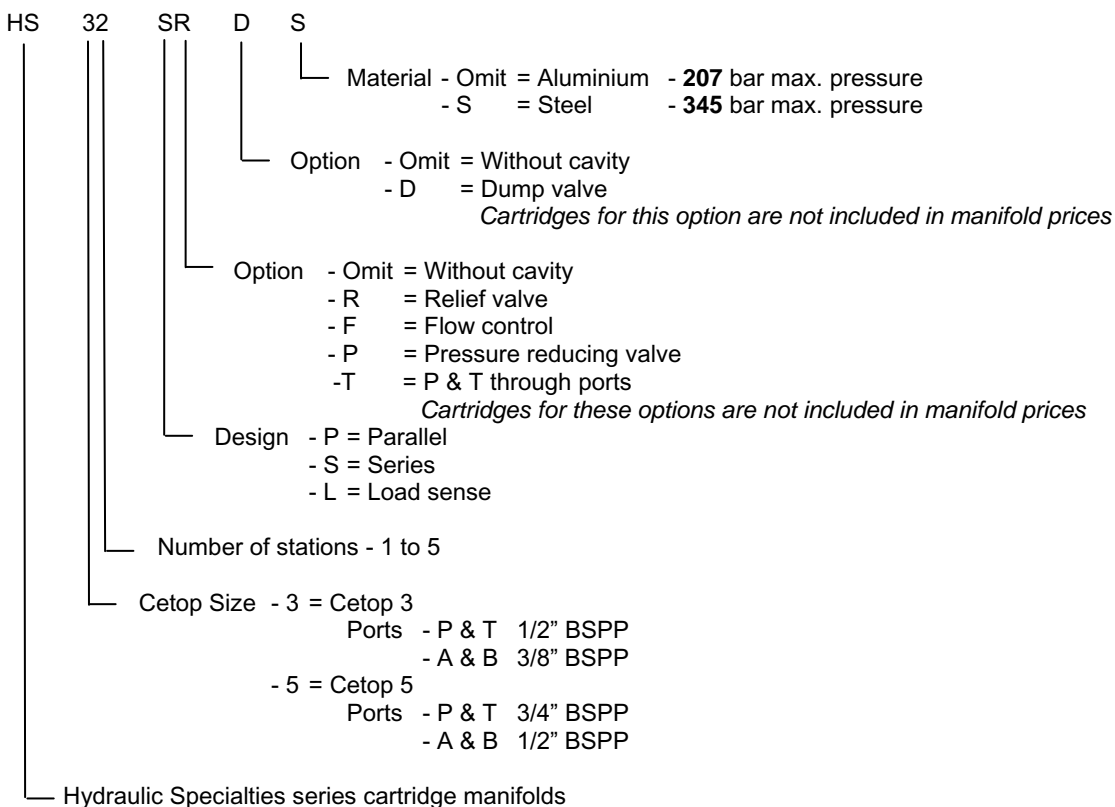
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SOLENOID VALVES & ACCESSORIES

CETOP MANIFOLD SUB-PLATES - HOW TO ORDER

- Cartridge valving offers the design engineers and customers an unlimited range of integral circuit design possibilities. With the extensive range of cartridges available, an entire valving system can be housed in one aluminium or steel block, saving on hose and fittings, installation time, and space. Having all of the valves in one block also eliminates possible leakage points, making this system attractive to industries that require total protection from leaks and hydraulic oil contamination.
- Cartridge blocks and valves can be custom designed for a specific application or ordered as an 'off the shelf' item for more common functions.
- Price and delivery for custom designed blocks are available on application.
- NOTE: The cartridge numbers listed in this price list have been abbreviated for simplicity of description. Please consult Hydraulic Specialties for the full cartridge code and cartridge options.
- Hydraulic Specialties has an extensive range of standard CETOP 3 and 5 sub-plates. These are designed to suit the majority of applications. Hydraulic Specialties offers series or parallel configuration for up to 5 stations. Sub-plates are machined for two pressure ranges: - up to 207 bar and 345 bar.



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SOLENOID VALVES & ACCESSORIES

CETOP 3 SUB-PLATES

BLOCK	DESCRIPTION	STATIONS	LIST
HS31PR	Cetop 3, single station, relief cavity, test point	1	\$ 218.00
HS32PR	Cetop 3, two station, parallel, relief cavity, test point	2	\$ 389.00
HS32SR	Cetop 3, two station, series, relief cavity, test point	2	\$ 389.00
HS32LR	Cetop 3, two station, parallel, relief cavity, test point, load sense	2	\$ 458.00
HS33PR	Cetop 3, three station, parallel, relief cavity, test point	3	\$ 481.00
HS33SR	Cetop 3, three station, series, relief cavity, test point	3	\$ 481.00
HS33LR	Cetop 3, three station, parallel, relief cavity, test point, load sense	3	\$ 641.00
HS34PR	Cetop 3, four station, parallel, relief cavity, test point	4	\$ 629.00
HS34SR	Cetop 3, four station, series, relief cavity, test point	4	\$ 629.00
HS34LR	Cetop 3, four station, parallel, relief cavity, test point, load sense	4	\$ 824.00
HS35PR	Cetop 3, five station, parallel, relief cavity, test point	5	\$ 756.00
HS35SR	Cetop 3, five station, series, relief cavity, test point	5	\$ 756.00
HS35LR	Cetop 3, five station, parallel, relief cavity, test point, load sense	5	\$ 1008.00
HS36PR	Cetop 3, six station, parallel, relief cavity, test point	6	\$ 972.00
HS36SR	Cetop 3, six station, series, relief cavity, test point	6	\$ 972.00
HS36LR	Cetop 3, six station, parallel, relief cavity, test point, load sense	6	\$ 1167.00
HS37PR	Cetop 3, seven station, parallel, relief cavity, test point	7	\$ 788.00
HS37LR	Cetop 3, seven station, parallel, relief cavity, test point, load sense	7	\$ 1088.00

* Other configurations are available on request - *consult Hydraulic Specialties*
 * Sub-plate prices do not include cartridge valving (relief, check, test points etc.)



CETOP 5 SUBPLATES

BLOCK	DESCRIPTION	STATIONS	LIST
HS51PR	Cetop 5, single station, relief cavity, test point	1	\$ 244.00
HS52PR	Cetop 5, two station, parallel, relief cavity, test point	2	\$ 664.00
HS52SR	Cetop 5, two station, series, relief cavity, test point	2	\$ 664.00
HS52LR	Cetop 5, two station, parallel, relief cavity, test point, load sense	2	\$ 893.00
HS53PR	Cetop 5, three station, parallel, relief cavity, test point	3	\$ 733.00
HS53SR	Cetop 5, three station, series, relief cavity, test point	3	\$ 733.00
HS53LR	Cetop 5, three station, parallel, relief cavity, test point, load sense	3	\$ 893.00
HS54PR	Cetop 5, four station, parallel, relief cavity, test point	4	\$ 870.00
HS54SR	Cetop 5, four station, series, relief cavity, test point	4	\$ 870.00
HS54LR	Cetop 5, four station, parallel, relief cavity, test point, load sense	4	\$ 1110.00
HS55PR	Cetop 5, five station, parallel, relief cavity, test point	5	\$ 895.00
HS55SR	Cetop 5, five station, series, relief cavity, test point	5	\$ 788.00
HS55LR	Cetop 5, five station, parallel, relief cavity, test point, load sense	5	\$ 976.00
HS56PR	Cetop 5, six station, parallel, relief cavity, test point	6	\$ 989.00
HS56LR	Cetop 5, six station, parallel, relief cavity, test point, load sense	6	\$ 1210.00

CONFIGURATION OPTIONS

		<u>LIST</u>
HS CT3 COVER	Cetop 3 blanking cover	\$ 69.00
HS CT5 COVER	Cetop 5 blanking cover	\$ 114.00
HS CT5/CT3	Cetop 5 to Cetop 3 adaptor	\$ 155.00
-	Additional dump valve cavity	\$ 73.00

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SOLENOID VALVES & ACCESSORIES - CETOP 3 - NORTHMAN

SWH-G02 SERIES FEATURES

- Oil immersed armatures, impact is cushioned, reduced noise, solenoid life increased.
- Wet armature solenoid eliminates push pin seal, therefore no seal wear or leakage, for longer valve life.
- Moulded coils for maximum insulating properties, which are impervious to dirt and moisture.
- Plug in solenoid for ease of maintenance.
- All spools and bodies are interchangeable.
- Indicating signal lights are standard.
- High pressure, high flow rating provides low pressure drop with max. performance.
- Balanced spool allows proper shifting force for max reliability and long life.

SPECIFICATIONS

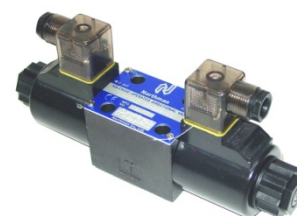
Max. tank pressure - 140 bar
 Max. freq. of operation - 300 cycles per minute.

MODEL ORDER CODE.

SWH - G02 - C2 - A240

Coil voltage - A110 - 110 VAC
 - A240 - 240 VAC
 - D12 - 12 VDC
 - D24 - 24 VDC

Spool type (see page D8)
 Interface 02 : NFPA D03 / ISO 4401-03 / CETOP 3/NG 06
 Subplate mounted
 High press, high flow solenoid valve



MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESS. <i>bar</i>	LIST
SWH-G02-B*.*.*	Single solenoid, 2 position	63	315	\$ 190.00
SWH-G02-C*B-***	Single solenoid, 2 position	63	315	\$ 190.00
SWH-G02-C*.*.*	Double solenoid, 3 position	63	315	\$ 260.00

* - Spool number
 *** - Solenoid voltage

MODEL	DESCRIPTION	LIST
HS31SS	Steel Sub-plate, 3/8" BSP, side ported	\$ 165.00

SPARE COMPONENTS

LIST

NWH-02-A110	110VAC/60Hz coil	\$ 77.00
NWH-02-A240	240VAC/60Hz coil	\$ 77.00
NWH-02-D12	12VDC coil	\$ 77.00
NWH-02-D24	24VDC coil	\$ 77.00
ISOL30	10-50V AC/DC DIN connector plug with LED	\$ 19.00
ISOL80	70-250V AC/DC DIN connector plug with LED	\$ 19.00
ISOL-30REC	DIN rectifier plug with LED – 12-240 VAC to 12-240 VDC	\$ 69.00

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SOLENOID VALVES & ACCESSORIES - NORTHMAN

SPOOL CONFIGURATIONS

To specify the correct valve for your application, select from the following chart or consult with your Hydraulic Specialties engineer.

APPLICATION	TYPE	GRAPHIC SYMBOLS	APPLICATION	TYPE	GRAPHIC SYMBOLS
THREE POSITION SPRING CENTERED	C2		TWO POSITION WITHOUT SPRING WITHOUT CENTER	N2	
	C3			N3	
	C4		TWO POSITION DETENT	D2	
	C40			D3	
	C5		TWO POSITION SPRING OFFSET (SOLENOID b)	B2	
	C6			B3	
	C60			B20	
	C7		B2S		
	C8		B3S		
C9		B20S			
TWO POSITION SPRING OFFSET (SOLENOID b)	C2B		TWO POSITION SPRING OFFSET (SOLENOID a)	C2BS	
	C3B			C3BS	
	C4B			C4BS	
	C40B			C40BS	
	C5B			C5BS	
	C6B			C6BS	
	C60B			C60BS	
	C7B			C7BS	
	C8B			C8BS	
	C9B			C9BS	
	C5SB			C5S	
	C8SB			C8S	
	C9SB			C9S	

PORT INTERCONNECTION:

- With solenoid "a" energized P -> A B -> T
- With solenoid "b" energized P -> B A -> T
- But port interconnections are reversed for C5, C6, C60 type.



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SOLENOID VALVES & ACCESSORIES - CETOP 3 - NORTHMAN

CETOP 3 MODULES

SPECIFICATIONS

Max. pressure - 210 bar
 Max. flow capacity - 35 lpm



MRF-02 SERIES - RELIEF VALVE.

LIST

MRF-02P-K-3-20	Relief on P port to tank	\$ 195.00
MRF-02A-K-3-20	Relief on A port to tank	\$ 195.00
MRF-02B-K-3-20	Relief on B port to tank	\$ 195.00
MRF-02C-K-3-20	A & B port venting to tank	\$ 315.00
MRF-02D-K-3-20	A & B port cross over relief	\$ 315.00

MPR-02 SERIES - PRESSURE REDUCING VALVE.

MPR-02P-K-3-20	Pressure reducer on P port	\$ 195.00
MPR-02A-K-3-20	Pressure reducer on A port	\$ 195.00
MPR-02B-K-3-20	Pressure reducer on B port	\$ 195.00

MT-02 SERIES - THROTTLE & CHECK VALVE.

MT-02W-K-I-30	Throttle & check A & B port, meter in.	\$ 215.00
MT-02A-K-I-30	Throttle & check A port, meter in.	\$ 195.00
MT-02B-K-I-30	Throttle & check B port, meter in.	\$ 195.00
MT-02W-K-30	Throttle & check A & B port, meter out	\$ 215.00
MT-02A-K-30	Throttle & check A port, meter out	\$ 195.00
MT-02B-K-30	Throttle & check B port, meter out	\$ 195.00

MPC SERIES - PILOT CHECK VALVE.

MPC-02W-30	Pilot check A & B port	\$ 205.00
MPC-02A-30	Pilot check A port	\$ 180.00
MPC-02B-30	Pilot check B port	\$ 180.00

MBK SERIES-MOUNTING BOLT KIT.

MBK-02-1-1	Valve & one 40mm stack - M5 x 85mm	\$ 32.00
MBK-02-2-1	Valve & two 40mm stacks - M5 x 125mm	\$ 35.00
MBK-02-3-1	Valve & three 40mm stacks - M5 x 165mm	\$ 38.00
MBK-02-4-1	Valve & four 40mm stacks - M5 x 205mm	\$ 42.00

Price List 2011



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SOLENOID VALVES & ACCESSORIES - CETOP 5 - NORTHMAN

SWH-G03 SERIES FEATURES.

- Electrical connections are Hirschman DIN plug in connector. Indicating lights plugs are standard.
- Electrical connection points are aligned with the axial direction to be compatible with modular systems.
- For ease of installation and repair, the mounting screws are on the outside of the body.
- Ability to sustain high pressure - 315 bar, allows for large flow rates to 120 lpm.
- The design of the flow passages minimises pressure drop.
- The 4 way, 4 land construction design reduces the flow force and system surging pressure.
- Can sustain back pressure to 160 bar.

SPECIFICATIONS

Max. tank pressure - 160 bar
 Max. freq. of operation - 240 cycles per minute.

MODEL ORDER CODE.

SWH - G03 - C2 - A240

Coil voltage - A110 - 110 VAC
 - A240 - 240 VAC
 - D12 - 12 VDC
 - D24 - 24 VDC

Spool type (see page D8)
 Interface 03 : NFPA D05 / ISO 4401-05 / CETOP 5/NG 10
 Subplate mounted
 High press, high flow solenoid valve



MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESS. <i>bar</i>	LIST
SWH-G03-B*-***	Single solenoid, 2 position	120	315	\$ 350.00
SWH-G03-C*B-***	Single solenoid, 2 position	120	315	\$ 350.00
SWH-G03-C*-***	Double solenoid, 3 position	120	315	\$ 440.00

* - Spool number
 *** - Solenoid voltage

MODEL	DESCRIPTION	LIST
HS51SS	Steel Sub-plate, 1/2" BSP, side ported	\$ 175.00

SPARE COMPONENTS

		LIST
NWH-03-A110	110VAC/60HZ coil	\$ 99.00
NWH-03-A240	240VAC/60HZ coil	\$ 99.00
NWH-03-D12	12VDC coil	\$ 99.00
NWH-03-D24	24VDC coil	\$ 99.00
ISOL30	10-50V AC/DC DIN connector plug with LED	\$ 19.00
ISOL80	70-250V AC/DC DIN connector plug with LED	\$ 19.00
ISOL-30REC	DIN rectifier plug with LED – 12-240 VAC to 12-240 VDC	\$ 69.00

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SOLENOID VALVES & ACCESSORIES - CETOP 5 - NORTHMAN



CETOP 5 MODULES

SPECIFICATIONS

Max. pressure - 210 bar
 Max. flow capacity - 70 lpm

MRF-03 SERIES - RELIEF VALVE

LIST

MRF-03P-K-3-30	Relief on P port to tank	\$ 285.00
MRF-03A-K-3-30	Relief on A port to tank	\$ 285.00
MRF-03B-K-3-30	Relief on B port to tank	\$ 285.00
MRF-03C-K-3-30	A & B port venting to tank	\$ 590.00
MRF-03D-K-3-30	A & B port cross over relief	\$ 590.00

MPR-03 SERIES - PRESSURE REDUCING VALVE

MPR-03P-K-3-30	Pressure reducer on P port	\$ 295.00
MPR-03A-K-3-30	Pressure reducer on A port	\$ 295.00
MPR-03B-K-3-30	Pressure reducer on B port	\$ 295.00

MT-03 SERIES - THROTTLE & CHECK VALVE

MT-03W-K-I-30	Throttle & check A & B port, meter in.	\$ 295.00
MT-03A-K-I-30	Throttle & check A port, meter in.	\$ 275.00
MT-03B-K-I-30	Throttle & check B port, meter in.	\$ 275.00
MT-03W-K-30	Throttle & check A & B port, meter out	\$ 295.00
MT-03A-K-30	Throttle & check A port, meter out	\$ 275.00
MT-03B-K-30	Throttle & check B port, meter out	\$ 275.00

MPC SERIES - PILOT CHECK VALVE

MPC-03W-30	Pilot check A & B port	\$ 275.00
MPC-03A-30	Pilot check A port	\$ 255.00
MPC-03B-30	Pilot check B port	\$ 255.00

MBK SERIES-MOUNTING BOLT KIT

MBK-03-1-1	Valve & one 55mm stack - M6 x 95mm	\$ 42.00
MBK-03-2-1	Valve & two 55mm stacks - M6 x 150mm	\$ 46.00
MBK-03-3-1	Valve & three 55mm stacks - M6 x 205mm	\$ 50.00
MBK-03-4-1	Valve & four 55mm stacks - M6 x 260mm	\$ 54.00

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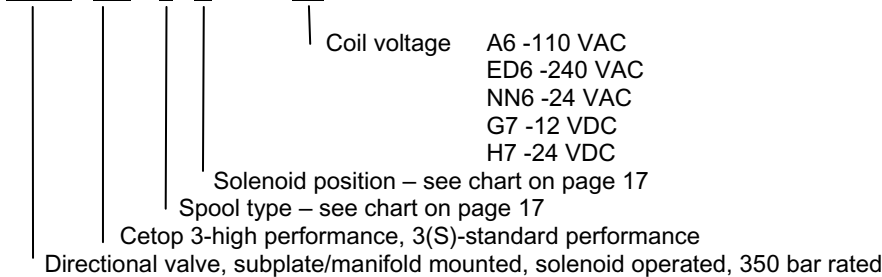
SOLENOID VALVES & ACCESSORIES - CETOP 3 – EATON/VICKERS

DG4V3 & DG4V3-S SERIES FEATURES

- Up to 80 l/min and up to 40 l/min respectively at 350 bar.
- International standard interface. The valve mounting face conforms to ISO 4401, size 03 and is compatible with related international standards.
- Moulded coils for maximum insulating properties, which are impervious to dirt and moisture.
- Plug in solenoid for ease of maintenance.

MODEL ORDER CODE.

DG4V - 3(S) - 6 - C - MU - G7 - 60



HIGH PERFORMANCE CETOP 3

MODEL	DESCRIPTION	MAX. FLOW See chart below <i>lpm</i>	MAX. PRESS. <i>bar</i>	LIST
DG4V-3-*A**-MU-***-60	Single solenoid, 2 position	60	350	\$ 378.00
DG4V-3-*B**-MU-***-60	Single solenoid, 2 position	80	350	\$ 378.00
DG4V-3-*C-MU-***-60	Double solenoid, 3 position	80	350	\$ 510.00
DG4V-3-*N-MU-H7-60	Double solenoid detent, 2 position	60	350	\$ 510.00

- * - Spool type
- ** - Solenoid position
- *** - Coil voltage

- List price does not include Hirschman (DIN) plugs and M5x30 bolt kit
- Maximum tank port pressure is 210 bar - *consult Hydraulic Specialties*

Max. Flow Rates @ 207 bar Dual Flow Path		
Spool & Position	VAC <i>lpm</i>	VDC <i>lpm</i>
0	60	60
2-C & 2-B	60	80
2-A & 2-N	60	60
6	22	32
8	30	42

SPARE COMPONENTS

		LIST
507847	12VDC coil	\$ 97.00
507848	24VDC coil	\$ 97.00
507825	110VAC/50HZ coil	\$ 97.00
507827	240VAC/50HZ coil	\$ 97.00
865835	24VAC/50HZ coil	\$ 97.00
HS31SS	Steel Sub-plate, 3/8" BSP, side ported	\$165.00

Price List 2011



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SOLENOID VALVES & ACCESSORIES - CETOP 3 – EATON/VICKERS



STANDARD PERFORMANCE CETOP 3

MODEL	DESCRIPTION	MAX. FLOW See chart below <i>lpm</i>	MAX. PRESS. <i>bar</i>	LIST
DG4V-3-S-*-A-MU-***-5-60	Single solenoid, 2 position	40	350	\$ 280.00
DG4V-3-S-*-C-MU-***-5-60	Double solenoid, 3 position	40	350	\$ 378.00

- * - Spool type
*** - Coil voltage

- List price does not include Hirschman (DIN) plugs and M5x30 bolt kit
- Maximum tank port pressure is 100 bar - *consult Hydraulic Specialties*
- A full range of high and low pressure sub-plates are available in single or multiple station, series or parallel, with relief and dump valve options. A selection of these can be found in the *Cartridge Valving* section.

Max. Flow Rates @ 207 bar Dual Flow Path		
Spool & Position	VAC <i>lpm</i>	VDC <i>Lpm</i>
0	40	40
2-C	35	40
2-A	25	40
6	15	10

SPARE COMPONENTS

LIST

507847	12VDC coil	\$ 97.00
507848	24VDC coil	\$ 97.00
02-101725	110VAC/50HZ coil	\$ 97.00
02-111261	240VAC/50HZ coil	\$ 97.00
02-111255	24VAC/50HZ coil	\$ 97.00
HS31SS	Steel Sub-plate, 3/8" BSP, side ported	\$ 165.00

SOFT SHIFTING CETOP 3

MODEL	DESCRIPTION	MAX. FLOW See chart below <i>lpm</i>	MAX. PRESS. <i>bar</i>	LIST
DG4V-3-*-B-207-MU-***-5-60	Single solenoid, 2 position	38	350	\$ 328.00
DG4V-3-S-2-A-207-MU-***-5-60	Single solenoid, 2 position	15	350	\$ 328.00
DG4V-3-S-*-C-207-MU-***-5-60	Double solenoid, 3 position	38	350	\$ 478.00

- * - Spool type
*** - Coil voltage

- List price does not include Hirschman (DIN) plugs and M5x30 bolt kit
- Maximum tank port pressure is 100 bar - *consult Hydraulic Specialties*
- Response times shown are for a type "2C" spool at a system pressure of 207 bar and a flow of 19 L/min. For different spools and times *contact Hydraulic Specialties*.

Max. Flow Rates @ 207 bar Dual Flow Path	
Spool & Position	Flow <i>lpm</i>
0	38
2-C	24
2-A	15
6	17
8	12

SPARE COMPONENTS AND ACCESSORIES (next page)

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SOLENOID VALVES & ACCESSORIES - CETOP 3 – EATON/VICKERS



SPARE COMPONENTS AND ACCESSORIES

LIST

02-123938	12VDC coil	\$ 97.00
02-123939	24VDC coil	\$ 97.00
02-140211	Orifice tool kit	\$ 227.00
635134	0.7mm orifice, one per core tube (Shifts in 625ms, returns in 550ms)	\$ 20.00
635135	0.8 mm orifice, one per core tube (Shifts in 400ms, returns in 375ms)	\$ 20.00
893320	0.9 mm orifice, one per core tube (Shifts in 250ms, returns in 250ms)	\$ 20.00

MANUALLY OPERATED CETOP 3

MODEL	PART NUMBER	SPOOL AND POSITION	MAX. PRESS. <i>bar</i>	LIST
DG17V3	02-135314	0-C Spring Centred – All ports open	350	\$ 490.00
DG17V3	02-127343	2-C Spring Centred – All ports closed	350	\$ 490.00
DG17V3	02-135316	6-C Spring Centred – P blocked, A & B to T	350	\$ 490.00
DG17V3	02-140909	8-C Spring Centred – P to T, A & B blocked	350	\$ 490.00

HYDRAULICALLY OPERATED CETOP 3

MODEL	PART NUMBER	SPOOL AND POSITION	MAX. PRESS. <i>bar</i>	LIST
DGV3V	02-154597	2-C Spring Centred – All ports closed	350	\$ 397.00

- 1/8" BSP pilot and external drain
- Maximum tank port pressure is 207 bar - *consult Hydraulic Specialties*

CETOP 3 SPARE COMPONENTS AND ACCESSORIES

LIST

616452	M5x30 bolt kit	\$ 2.30
710775	Standard DIN connector plug - Black	\$ 4.00
710776	Standard DIN connector plug - Grey	\$ 4.00
ISOL30	10-50V AC/DC DIN connector plug with LED	\$ 19.00
ISOL80	70-250V AC/DC DIN connector plug with LED	\$ 19.00
ISOL-30REC	DIN rectifier plug with LED – 12-240 VAC to 12-240 VDC	\$ 69.00
HS31SS	Steel Sub-plate, 3/8" BSP, side ported	\$ 165.00

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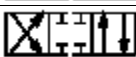


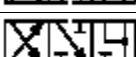


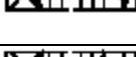
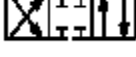
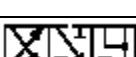



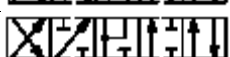


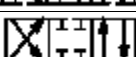
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SOLENOID VALVES & ACCESSORIES - EATON/VICKERS



CETOP SPOOL AND SOLENOID CONFIGURATIONS

To specify the correct valve for your application, select from the following chart or consult with your Hydraulic Specialties engineer.

SPOOL TYPE - CENTRE CONDITION	SOLENOID POSITION	CIRCUIT
0 - All ports open	A – Spring offset, end to end, P to A de-energised, P to B energised – single solenoid, 2 position	
2 - All ports blocked	A – Spring offset, end to end, P to A de-energised, P to B energised – single solenoid, 2 position	
0 - All ports open	AL – Spring offset, end to end, P to B de-energised, P to A energised – single solenoid, 2 position	
2 - All ports blocked	AL – Spring offset, end to end, P to B de-energised, P to A energised – single solenoid, 2 position	
0 - All ports open	B – Spring offset, centre to end. Centre position de-energised, P to B energised – single solenoid, 2 position	
2 - All ports blocked	B – Spring offset, centre to end. Centre position de-energised, P to B energised – single solenoid, 2 position	
6 - P blocked, A & B to T	B – Spring offset, centre to end. Centre position de-energised, P to B energised – single solenoid, 2 position	
8 - P to T, A & B blocked	B – Spring offset, centre to end. Centre position de-energised, P to B energised – single solenoid, 2 position	
0 - All ports open	BL – Spring offset, centre to end left hand. Centre position de-energised, P to A energised – single solenoid, 2 position	
2 - All ports blocked	BL – Spring offset, centre to end left hand. Centre position de-energised, P to A energised – single solenoid, 2 position	
6 - P blocked, A & B to T	BL – Spring offset, centre to end left hand. Centre position de-energised, P to A energised – single solenoid, 2 position	
8 - P to T, A & B blocked	BL – Spring offset, centre to end left hand. Centre position de-energised, P to A energised – single solenoid, 2 position	
0 - All ports open	C – Spring centred – double solenoid, 3 position	
2 - All ports blocked	C – Spring centred – double solenoid, 3 position	
6 - P blocked, A & B to T	C – Spring centred – double solenoid, 3 position	
7 - P to A & B, T blocked	C – Spring centred – double solenoid, 3 position	
8 - P to T, A & B blocked	C – Spring centred – double solenoid, 3 position	
33 - P blocked, A & B restricted to T	C – Spring centred – double solenoid, 3 position	
2 - All ports blocked	N – Detented – double solenoid, no springs, 2 position	

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SOLENOID VALVES & ACCESSORIES - CETOP 3 – EATON/VICKERS



CETOP 3 SYSTEMSTAK MODULES

SPECIFICATIONS

Max. pressure - 315 bar
 Max. flow capacity - 60 lpm

DGMC SERIES - RELIEF VALVE

		<u>LIST</u>
694419	Relief on P port to tank, 10-200 bar	\$ 349.00
869641	Relief on P port to tank, 50-315 bar	\$ 349.00
869627	A & B port cross over relief, 3-100 bar	\$ 568.00
871708	A & B port cross over relief, 50-315 bar	\$ 568.00
871702	A & B port venting to tank, 50-315 bar	\$ 568.00

DGMX2 - PRESSURE REDUCING/RELIEVING VALVE

870021	Pressure reducer on P port, 3-30 bar	\$ 414.00
870036	Pressure reducer on P port, 3.5-70 bar	\$ 414.00
870037	Pressure reducer on P port, 10-140 bar	\$ 414.00
870038	Pressure reducer on P port, 20-250 bar	\$ 414.00

DGMFN - THROTTLE & CHECK VALVE

870043	Throttle on P port, meter in.	\$ 243.00
694413	Throttle & check A & B port, meter in, fine control	\$ 243.00
694414	Throttle & check A & B port, meter in, standard control	\$ 245.00
694411	Throttle & check A & B port, meter out, fine control	\$ 243.00
694412	Throttle & check A & B port, meter out, standard control	\$ 243.00

DGMPC - PILOT CHECK VALVE

694400	Dual pilot check A & B port	\$ 284.00
870024	Pilot check in A port, pilot from B	\$ 243.00

MOUNTING BOLT KITS

464125	Valve & one 40mm stack - M5 x 70mm	\$ 10.00
466840	Valve & two 40mm stacks - M5 x 110mm	\$ 10.00
466844	Valve & three 40mm stacks - M5 x 150mm	\$ 90.00

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SOLENOID VALVES & ACCESSORIES - CETOP 5 – EATON/VICKERS



SOFT SHIFTING CETOP 5

- Use model code as for standard Cetop 5, but add J99 to end of model code. Requires one per valve, included in the list price.
- DC options only

MODEL

LIST

Single solenoid valves, please specify orifice size \$ 737.00
 Double solenoid valves, please specify orifice size \$ 825.00

SPARE COMPONENTS & ACCESSORIES

LIST

617470	12VDC coil	\$ 122.00
617471	24VDC coil	\$ 122.00
617475	110VAC/50HZ coil	\$ 122.00
617477	240VAC/50HZ coil	\$ 122.00
458502	24VAC/50HZ coil	\$ 122.00
710775	Standard DIN connector plug - Black	\$ 4.00
710776	Standard DIN connector plug - Grey	\$ 4.00
ISOL30	10-50V AC/DC DIN connector plug with LED	\$ 19.00
ISOL80	70-250V AC/DC DIN connector plug with LED	\$ 19.00
HS51SS	Steel Sub-plate, 1/2" BSP, side ported	\$ 175.00
937571	0.6mm orifice	\$ 29.00
937572	0.8 mm orifice	\$ 29.00
937573	1.0 mm orifice	\$ 29.00
937574	1.2 mm orifice	\$ 29.00
534569	M6x45 bolt kit	\$ 3.30

Price List 2011



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SOLENOID VALVES & ACCESSORIES - CETOP 5 – EATON/VICKERS



CETOP 5 SYSTEMSTAK MODULES

SPECIFICATIONS

Max. pressure - 315 bar
 Max. flow capacity - 120 lpm

DGMC SERIES - RELIEF VALVE

LIST

867315	Relief on P port to tank, 4-315 bar	\$ 650.00
867323	A & B port cross over relief, 4-315 bar	\$ 940.00
02-101918	A & B port venting to tank, 4-200 bar	\$ 1005.00

DGMX2 - PRESSURE REDUCING/RELIEVING VALVE

868864	Pressure reducer on P port, 8.5-315 bar	\$ 650.00
868656	Pressure reducer on A port, 8.5-315 bar	\$ 650.00

DGMFN - THROTTLE & CHECK VALVE

867335	Throttle & check A & B port, meter in, standard control	\$ 532.00
867332	Throttle & check A & B port, meter out, standard control	\$ 532.00

DGMPC - PILOT CHECK VALVE

867364	Dual pilot check A & B port	\$ 680.00
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DGMR – COUNTERBALANCE VALVE

02-145385	Throttle & check A & B port, meter in, standard control	\$ 768.00
02-145387	Throttle & check A & B port, meter out, standard control	\$ 1123.00

MOUNTING BOLT KITS

534576	Valve & one 50mm stack - M6 x 90mm	\$ 24.00
638878	Valve & two 50mm stacks - M6 x 140mm	\$ 50.00



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SOLENOID VALVES & ACCESSORIES - CETOP 7 – EATON/VICKERS

DG5V7 SERIES FEATURES

- Up to 300 lpm and 350 bar. Consult Hydraulic Specialties for recommended pressure and flow characteristics.
- International standard interface. The valve mounting face conforms to ISO 4401, size 07 and is compatible with related international standards.
- Moulded coils for maximum insulating properties, which are impervious to dirt and moisture.
- Plug in solenoid for ease of maintenance.
- Indicating signal lights are standard.
- Change of pilot and drain easy to accomplish by plugging or unplugging.
- Spool is designed to avoid creating jet path or turbulence under high pressure and large flow operation.

MODEL ORDER CODE.

DG5V - 7 - 6 - C - E - T - MU - G5 - 40

| Coil voltage A5-110 VAC
 ED5 -240 VAC
 G5 -12 VDC
 Hirschman plug H5 -24 VDC
 Internal drain (T) or leave blank for external drain
 External pilot (E) or leave blank for internal pilot
 Solenoid position – see chart on page 17
 Spool type – see chart on page 17 (type 8 spool must have external drain)
 Cetop 7
 Directional valve, subplate/manifold mounted, solenoid operated, 350 bar rated



CETOP 7

MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESS. <i>bar</i>	LIST
DG5V-7-2-A-MU-***-40	Single solenoid, 2 position	300	350	\$ 1644.00
DG5V-7-*-C-MU-***-40	Double solenoid, 3 position	300	350	\$ 1644.00

- * - Spool type
- ** - Solenoid position
- *** - Coil voltage

- List price does not include Hirschman (DIN) plugs and sub-plate bolt kit
- Maximum tank port pressure is 350 bar for external drain, and 100 bar for internal drain - *consult Hydraulic Specialties*
- A back pressure check valve for the internal pilot version is needed on the tank port - *consult Hydraulic Specialties*
- A full range of high and low pressure sub-plates are available in single or multiple station - *consult Hydraulic Specialties*

SPARE COMPONENTS & ACCESSORIES

LIST

M04-06-B-1	Sub-plate, 1/2" BSP, bottom ported	\$ 372.00
M04-06-SB-1	Sub-plate, 1/2" BSP, bottom & side ported	\$ 372.00
984617	Sub-plate, 3/4" BSP, rear ported	\$ 527.00
858918	Cetop 7 bolt kit	\$ 32.00
694411	Pilot choke kit	\$ 319.00
464125	70mm bolt kit for pilot choke	\$ 10.00
710775	Standard DIN connector plug - Black	\$ 4.00
710776	Standard DIN connector plug - Grey	\$ 4.00
ISOL30	10-50V AC/DC DIN connector plug with LED	\$ 19.00
ISOL80	70-250V AC/DC DIN connector plug with LED	\$ 19.00
ISOL-30REC	DIN rectifier plug with LED – 12-240 VAC to 12-240 VDC	\$ 69.00

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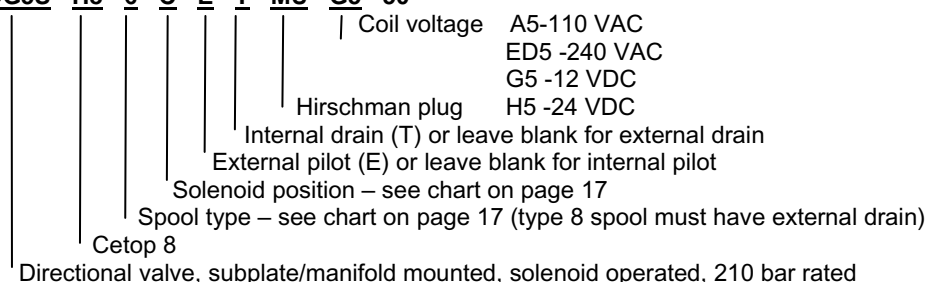
SOLENOID VALVES & ACCESSORIES - CETOP 8 – EATON/VICKERS

DG5S-H8 SERIES FEATURES

- Up to 530 lpm and 310 bar. Consult Hydraulic Specialties for recommended pressure and flow characteristics.
- International standard interface. The valve mounting face conforms to ISO 4401, size 08 and is compatible with related international standards.
- Moulded coils for maximum insulating properties, which are impervious to dirt and moisture.
- Plug in solenoid for ease of maintenance.
- Indicating signal lights are standard.
- Change of pilot and drain easy to accomplish by plugging or unplugging.
- Spool is designed to avoid creating jet path or turbulence under high pressure and large flow operation.

MODEL ORDER CODE.

DG5S - H8 - 6 - C - E - T - MU - G5 - 50



CETOP 8

MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESS. <i>bar</i>	LIST
DG5S-H8-2-A-MU-***-50	Single solenoid, 2 position	530	310	\$ 1458.00
DG5S-H8-*-C-MU-***-50	Double solenoid, 3 position	530	310	\$ 2259.00

- * - Spool type
- ** - Solenoid position
- *** - Coil voltage

- List price does not include Hirschman (DIN) plugs and sub-plate bolt kit
- Maximum tank port pressure is 310 bar for external drain, and 210 bar for internal drain - *consult Hydraulic Specialties*
- A back pressure check valve for the internal pilot version is needed on the tank port - *consult Hydraulic Specialties*
- A full range of high and low pressure sub-plates are available in single or multiple station - *consult Hydraulic Specialties*

SPARE COMPONENTS & ACCESSORIES

LIST

788246	Sub-plate, 1 1/4" BSP, rear ported	\$ 976.00
791551	Cetop 8 bolt kit	\$ 34.00
694411	Pilot choke kit	\$ 319.00
464125	70mm bolt kit for pilot choke	\$ 29.00
710775	Standard DIN connector plug - Black	\$ 10.00
710776	Standard DIN connector plug - Grey	\$ 10.00
ISOL30	10-50V AC/DC DIN connector plug with LED	\$ 19.00
ISOL80	70-250V AC/DC DIN connector plug with LED	\$ 19.00
ISOL-30REC	DIN rectifier plug with LED – 12-240 VAC to 12-240 VDC	\$ 69.00

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PROPORTIONAL VALVES - EATON/VICKERS CETOP

PROPORTIONAL CETOP VALVES



DIRECTIONAL VALVE – KDG4V3-S

- Maximum pressure on P, A & B ports is 350 bar and 210 bar on T port

PART NUMBER	SPOOL & POSITION	METERING	MAX. FLOW	VOLTAGE	LIST
			<i>lpm</i>	<i>VDC</i>	
02-135150	33-C	Meter in only	8	24	\$ 657.00
02-140085	33-C	Meter in only	22	24	\$ 657.00
02-135162	2-C	Meter in/Meter out	8	24	\$ 657.00
02-149542	2-C	Meter in/Meter out	19	24	\$ 657.00

- Valves are available with feedback, on board electronics. Also available in Cetop 5 - *consult Hydraulic Specialties*

RELIEF VALVES – KCG3

PART NUMBER	DESCRIPTION	PRESSURE RANGE	MAX. FLOW	VOLTAGE	LIST
		<i>bar</i>	<i>lpm</i>	<i>VDC</i>	
02-145957	Single solenoid, B end	4-160	5	24	\$ 1019.00
02-145955	Single solenoid, B end	5-250	5	12	\$ 1019.00
02-145959	Single solenoid, B end	6-350	5	24	\$ 1019.00
02-146068	Single solenoid, A end	6-350	5	24	\$ 1019.00

- Use bolt kit 255699, M5x50mm
- Size 6 (200 lpm) and size 8 (400 lpm) proportional relief valves are also available - *consult Hydraulic Specialties*
- Size 6 (200 lpm) and size 8 (300 lpm) proportional pressure reducers are also available - *consult Hydraulic Specialties*

THROTTLE VALVE – KTG4V3-S

- Maximum pressure on P, A & B ports is 350 bar and 210 bar on T port

PART NUMBER	SPOOL & POSITION	METERING	MAX. FLOW	VOLTAGE	LIST
			<i>lpm</i>	<i>VDC</i>	
02-148871	2-B	Meter in/Meter out	8	24	\$ 642.00
02-155321	2-B	Meter in/Meter out	15	24	\$ 642.00

- Valves are available with feedback, on board electronics. Also available in Cetop 5 - *consult Hydraulic Specialties*



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PROPORTIONAL VALVES - EATON/VICKERS CETOP

PROPORTIONAL VALVE ACCESSORIES



AMPLIFIER PLUGS

PART NUMBER	FUNCTION	VALVES USED WITH	RAMP TIMES	MAX. OUTPUT CURRENT A	COMMAND SIGNAL	POWER SUPPLY VDC	LIST
02-326009	Soft Shift	CMX, EPV, KCG, KDG, KTG, KXCG, ERV, EPRV	50ms – 5s	1.6	24 VDC	24	\$ 414.00
02-326010	Proportional		50ms – 5s	1.6	0-10 V	24	\$ 485.00
02-326012	Proportional		50ms – 5s	1.6	4-20 mA	24	\$ 485.00
02-326013	Proportional		50ms – 5s	3.0	0-10 V	12	\$ 485.00

MOBILE SOFT SHIFT AMPLIFIER

PART NUMBER	FUNCTION	VALVES USED WITH	RAMP TIMES	MAX. OUTPUT CURRENT A	COMMAND SIGNAL	POWER SUPPLY VDC	LIST
02-104848	Soft Shift Dual Coils	CMX, EPV, KCG, KDG, KTG, KXCG, ERV, EPRV	50ms – 5s	0.8	24 VDC	24	\$ 1114.00

AMPLIFIER CARDS

PART NUMBER	FUNCTION	VALVES USED WITH	RAMP TIMES	MAX. OUTPUT CURRENT A	COMMAND SIGNAL	POWER SUPPLY VDC	LIST
02-326020	Proportional	KCG	20ms – 2s	1.8	0-10 V or 0-20mA	24	\$ 2760.00
02-326001	Proportional	KTG4V3(S) / KDG4V3(S)	50ms – 5s	1.6	-10 to 10 V or -20 to 20mA	24	\$ 1615.00
02-326024	Proportional	KFD/TG4V-5	50ms – 5s	1.6	-10 to 10 V or -20 to 20mA	24	\$ 2760.00

SPARE COMPONENTS & ACCESSORIES

LIST

E01222	Hirschman plug base	\$ 21.00
02-104808	Card holder	\$ 309.00

- Note that other amplifiers are available on request – *Contact Hydraulic Specialties*

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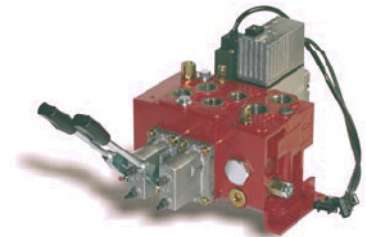
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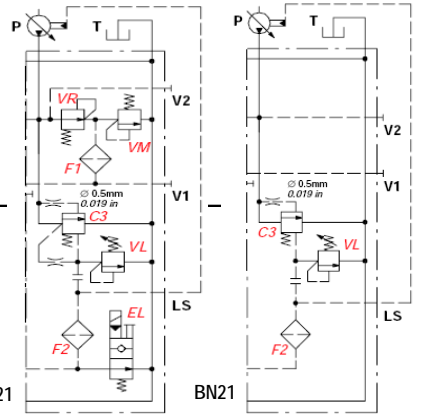
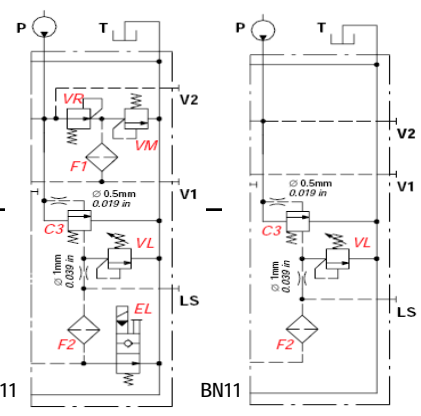
PROPORTIONAL LOAD SENSING VALVES - WALVOIL

- Nominal flow rating 150 l/min. Max operating pressure 315 bar (4600PSI). Max back pressure on T 25bar (360PSI). Max pressure on drain L 2.5bar (36PSI). Fluid temperature -20 to 80 deg C. Ambient temperature - 20 to 60 deg C.
- These stackable valves are used for systems with constant displacement pumps (open centre version) or variable displacement pumps (closed centre version).
- Load independent flow control.
- Internal pilot oil supply built into inlet cover.
- Options for electrical LS unloading valves.
- Interchangeable spools.
- A wide variety of service ports valves.
- Available manual, hydraulic and electro—hydraulic proportional spool control kits.
- Available with compensated or non compensated working sections.
- Safety and diagnostics available on the 8ZR proportional electro—hydraulic control spool kit closed loop system, with electronic onboard.



SELECT INLET

INLET TYPE		code	part number	notes
open centre fixed displacement pumps	with press reducing VR	BR11	5FIA630301	use for electro-hydraulic working sections
	without press reducing	BN11	5FIA630303	use for manual & hydraulic remote working sections
closed centre variable displacement pumps	with press reducing VR	BR21	5FIA630300	use for electro-hydraulic working sections
	without press reducing	BN21	5FIA630302	use for manual & hydraulic remote working sections
closed centre with LS dampening	with press reducing	BRS21	5FIA630360	use where load oscillations can occur



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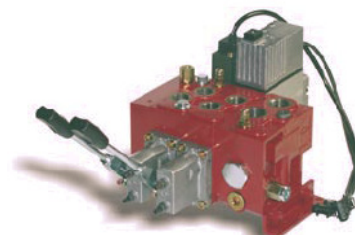
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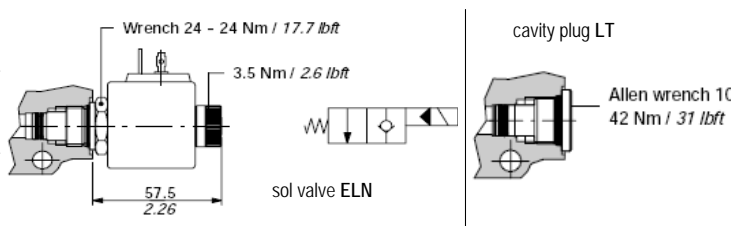
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PROPORTIONAL LOAD SENSING VALVES - WALVOIL

INLET OPTIONS



INLET OPTIONS		code	part number	notes
inlet relief BR & BN inlets	40-180 bar	S	XCAR126215	used in open & closed center inlet
	180-350 bar	S	XCAR126213	used in open & closed center inlet
	cavity plug	ST	5KIT126210	used in closed centre inlet only
LS unload BR inlet only	solenoid valve 12VDC	ELN	5CAR426310	
	solenoid valve 24VDC	ELN	5CAR426315	
	cavity plug	LT	XTAP222340	

CODE	PART NUMBER	DESCRIPTION	LIST
BR11	5FIA630301	Use for electro-hydraulic working sections	\$ 673.00
BN11	5FIA630303	Use for manual & hydraulic remote working sections	\$ 484.00
BR21	5FIA630300	Use for electro-hydraulic working sections	\$ 673.00
BN21	5FIA630302	Use for manual & hydraulic remote working sections	\$ 484.00
BRS21	5FIA630360	Use where load oscillations can occur	\$ 876.00
S	XCAR126215	Relief 40-180 bar, used in open & closed centre inlet	\$ 77.00
S	XCAR126213	Relief 180-350 bar, used in open & closed centre inlet	\$ 77.00
ST	5KIT126210	Cavity plug, used in closed centre inlet only	\$ 47.00
ELN	5CAR426310	Load sense unloading solenoid valve 12VDC	\$ 335.00
ELN	5CAR426315	Load sense unloading solenoid valve 24VDC	\$ 335.00
LT	XTAP222340	Cavity plug	\$ 24.80

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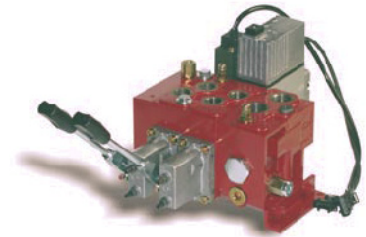
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PROPORTIONAL LOAD SENSING VALVES - WALVOIL

SELECT WORKING SECTION



WORKING SECTION TYPE		code	part number	notes
working section body	compensated with port relief cavities U1 & U2	C20	5EL6301320	<p>1/4"BSPP - can be used for p.switch or test point</p>
	compensated with PR and LS cavities U1,U2,S1 & S2	C22	5EL6301322	
	non-compensated with port relief cavities U1 & U2	D10	5EL6302320	

W/S OPTIONS		code	part number	notes
port relief + anti-cavitation	50 bar	U050	5KIT330050	port relief + anti-cav U Wrench 13 24 Nm / 17.7 lbft cavity plug UT Wrench 13 - 24 Nm / 17.7 lbft
	100 bar	U100	5KIT330100	
	150 bar	U150	5KIT330150	
	200 bar	U200	5KIT330200	
	250 bar	U250	5KIT330250	
	300 bar	U300	5KIT330300	
	cavity plug	UT	XTAP522441	
LS reliefs	40-180 bar	S	XCAR126215	For C22 section only. 2 per working section required.
	180-350 bar	S	XCAR126213	
spool control	spring return	8	5V08130000	<p>1 Stroke end screw for position A (P=A): allen wrench 3 Fixing nut: wrench 10 - 9.8 Nm / 7.2 lbft</p> <p>2 Stroke end screw for position B (P=B): allen wrench 3 Fixing nut: wrench 10 - 9.8 Nm / 7.2 lbft</p>
	proportional 12V solenoid	8EZ3	5V08130780	
	proportional 24V solenoid	8EZ3	5V08130781	
	proportional E/H + OBE	8ZR3	5V08130900	
	hydraulic proportional	8IM	5V08130800	
friction detent	7FT	5V07130000	min 20N, max 150N, standard 100N (adjustable)	
lever box	lever box with stroke limiters	L	5LEV130712	1 per working section required
	handle M8x170MM	HDL	170011117	

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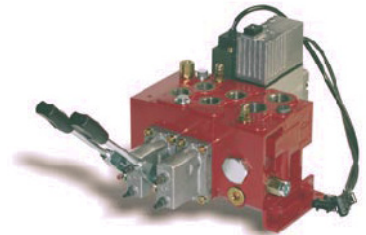
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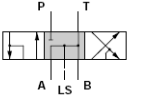
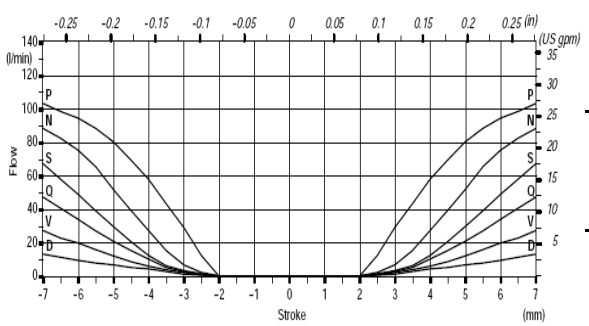
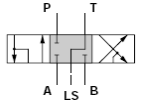
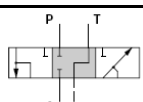
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PROPORTIONAL LOAD SENSING VALVES - WALVOIL

SELECT WORKING SECTION (continued)



W/S OPTIONS		code	part number	notes	
spool options	double acting motor 25l/min	2V	3CU4024025		
	double acting motor 60l/min	2S	3CU4024060		
	double acting motor 100l/min	2P	3CU4024100		
	double acting cylinder 25l/min	1V	3CU4010025		
	double acting cylinder 60l/min	1S	3CU4010060		
	double acting cylinder 100l/min	1P	3CU4010100		
single acting on A, B plugged 100l/min	3P	3CU4031080			

CODE	PART NUMBER	DESCRIPTION	LIST
C20	5EL6301320	Compensated with port relief cavities U1 & U2	\$ 706.00
C22	5EL6301322	Compensated with PR and LS cavities U1,U2,S1 & S2	\$ 936.00
D10	5EL6302320	Non-compensated with port relief cavities U1 & U2	\$ 590.00
U050	5KIT330050	50 bar port relief + anti-cavitation	\$ 96.00
U100	5KIT330100	100 bar port relief + anti-cavitation	\$ 104.00
U150	5KIT330150	150 bar port relief + anti-cavitation	\$ 96.00
U200	5KIT330200	200 bar port relief + anti-cavitation	\$ 104.00
U250	5KIT330250	250 bar port relief + anti-cavitation	\$ 104.00
U300	5KIT330300	300 bar port relief + anti-cavitation	\$ 96.00
UT	XTAP522441	Cavity plug	\$ 36.00
S	XCAR126215	40-180 bar load sense relief	\$ 77.00
S	XCAR126213	180-350 bar load sense relief	\$ 77.00
8	5V08130000	Spool control - spring return	\$ 51.00
8EZ3	5V08130780	Spool control - proportional 12V solenoid	\$ 865.00
8EZ3	5V08130781	Spool control - proportional 24V solenoid	\$ 865.00
8ZR3	5V08130900	Spool control - proportional E/H + OBE	\$ 1679.00
8IM	5V08130800	Spool control - hydraulic proportional	\$ 179.00
7FT	5V07130000	Spool control - friction detent	\$ 306.00
L	5LEV130712	Lever box with stroke limiters	\$ 170.00
HDL	170011117	Handle M8x170MM	\$ 7.00
2V	3CU4024025	Spool - double acting motor 25l/min	\$ 120.00
2S	3CU4024060	Spool - double acting motor 60l/min	\$ 120.00
2P	3CU4024100	Spool - double acting motor 100l/min	\$ 120.00
1V	3CU4010025	Spool - double acting cylinder 25l/min	\$ 115.00
1S	3CU4010060	Spool - double acting cylinder 60l/min	\$ 115.00
1P	3CU4010100	Spool - double acting cylinder 100l/min	\$ 115.00
3P	3CU4031080	Spool - single acting on A, B plugged 100l/min	\$ 115.00

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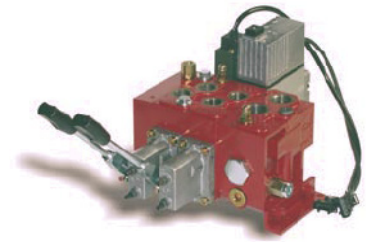
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PROPORTIONAL LOAD SENSING VALVES - WALVOIL

SELECT OUTLET



OUTLET TYPE TYPE		code	part number	notes
OUTLET	without ports	RF	3FIA731000	On RD cover P, T = 3/4" BSPP, LS = 1/4" BSPP.
	with P,T and LS ports	RD	3FIA731320	
DRAIN OPTIONS		code	part number	notes
DRAIN	plug for manual control (7FT/8)	1	XTAP517460	
	plug for hydraulic prop (8IM) control	2	XTAP217160	
	sleeve for electro-hydraulic control (8EZ3/8ZR3)	3	XCAR119611	
TIE ROD KITS		no of sections	part number	notes
TIE RODS	DPC130/1	1	5TIR108185	
	DPC130/2	2	5TIR108232	
	DPC130/3	3	5TIR108281	
	DPC130/4	4	5TIR108328	
	DPC130/5	5	5TIR108376	
	DPC130/6	6	5TIR108425	
	DPC130/7	7	5TIR108472	
	DPC130/8	8	5TIR108520	

CODE	PART NUMBER	DESCRIPTION	LIST
RF	3FIA731000	Outlet without ports	\$ 113.00
RD	3FIA731320	Outlet with P,T and LS ports	\$ 165.00
1	XTAP517460	Drain plug for manual control (7FT/8)	\$ 34.00
2	XTAP217160	Drain plug for hydraulic prop (8IM) control	\$ 25.00
3	XCAR119611	Drain sleeve for electro-hydraulic control (8EZ3/8ZR3)	\$ 53.00

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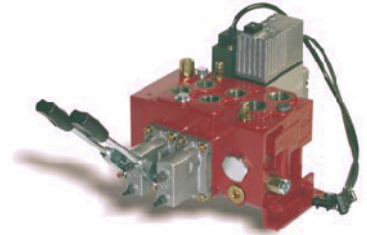
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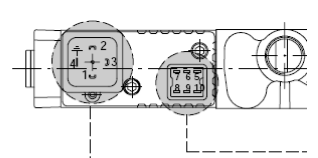
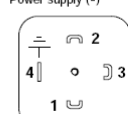
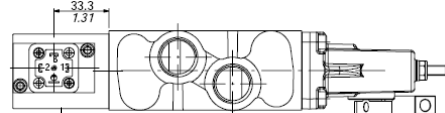
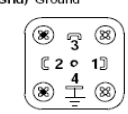
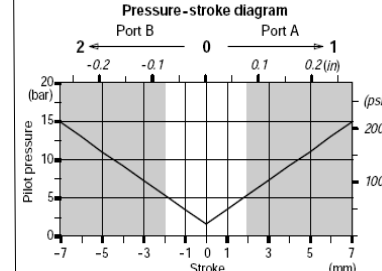
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PROPORTIONAL LOAD SENSING VALVES - WALVOIL

SELECT OUTLET (continued)



CODE	PART NUMBER	DESCRIPTION	LIST
1	5TIR108185	Tie Rods, DPC130/1 – one section	\$ 64.00
2	5TIR108232	Tie Rods, DPC130/2 – two sections	\$ 68.00
3	5TIR108281	Tie Rods, DPC130/3 – three sections	\$ 77.00
4	5TIR108328	Tie Rods, DPC130/4 – four sections	\$ 78.00
5	5TIR108376	Tie Rods, DPC130/5 – five sections	\$ 84.00
6	5TIR108425	Tie Rods, DPC130/6 – six sections	\$ 88.00
7	5TIR108472	Tie Rods, DPC130/7 – seven sections	\$ 95.00
8	5TIR108520	Tie Rods, DPC130/8 – eight sections	\$ 108.00

SPOOL CONTROL INFORMATION		
<p>PROPORTIONAL WITH OBE - 8ZR3</p>  <p>Main connector</p> <ol style="list-style-type: none"> Power supply (+) Set point Alarm output Power supply (-)  <p>Connection ISO4400 (needs connector type C03, see page 93)</p> <p>4 pin hirshmann connector plug Part #: 2X1001030</p>	<p>PROPORTIONAL COIL - 8EZ3</p>  <p>Connector</p> <ol style="list-style-type: none"> Power supply (-) Port B Port A (Gnd) Ground  <p>Connection ISO4400 (needs connector type C02, see page 93)</p> <p>4 pin hirshmann connector plug Part #: 2X1001030</p>	<p>HYDRAULIC REMOTE - 8IM</p> <p>Pressure-stroke diagram</p>  <p>2 ← Port B 0 Port A → 1</p> <p>Stroke (mm)</p> <p>Pilot pressure (bar) / (psi)</p> <p>□ Spool overlap area ■ Metering area</p>



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SELECTOR VALVES - GRESEN



3 PORT CAST IRON, PUSH – PULL - (open on change over).

MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESSURE <i>bar</i>	LIST
S-50	3 Port, 1/2" NPT	56	140	\$ 182.00

SELECTOR VALVES - GALTECH



3 & 6 PORT, ROTARY LEVER ACTION - (open on change over).

MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESSURE <i>bar</i>	LIST
D3V-3/8"	3 Port, 3/8" BSP	50	300	\$ 133.00
D3V-1/2"	3 Port, 1/2" BSP	80	250	\$ 146.00
D3V-3/4"	3 Port, 3/4" BSP	120	220	\$ 171.00
D3V-1"	3 Port, 1" BSP	180	220	\$ 265.00
D6V-3/8"	6 Port, 3/8" BSP	50	315	\$ 272.00
D6V-1/2"	6 Port, 1/2" BSP	80	280	\$ 334.00



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SELECTOR VALVES - LC OLEODINAMICA



ELECTRICAL, 12 OR 24VDC - (open on change over)

MODEL	DESCRIPTION	MAX. FLOW <i>lpm</i>	MAX. PRESS <i>bar</i>	LIST
L7053113NIOB010	3 Port, 3/8" BSP, 12VDC	50	250	\$ 391.00
L7053113NIOC010	3 Port, 3/8" BSP, 24VDC	50	250	\$ 391.00
L7054113NIOB010	3 Port, 1/2" BSP, 12VDC	60	250	\$ 492.00
L7054113NIOC010	3 Port, 1/2" BSP, 24VDC	60	250	\$ 492.00
L7065143NIOB010	3 Port, 3/4" BSP, 12VDC	140	250	\$ 686.00
L7065143NIOC010	3 Port, 3/4" BSP, 24VDC	140	250	\$ 686.00
L7213116BIOB010	6 Port, 3/8" BSP, 12VDC	50	250	\$ 444.00
L7213116BIOC010	6 Port, 3/8" BSP, 24VDC	50	250	\$ 444.00
L7213116BIOD010	6 Port, 3/8" BSP, 48VDC	50	250	\$ 444.00
L7214116BIOB010	6 Port, 1/2" BSP, 12VDC	60	250	\$ 517.00
L7214116BIOC010	6 Port, 1/2" BSP, 24VDC	60	250	\$ 517.00
L7214116BIOD010	6 Port, 1/2" BSP, 48 VDC	60	250	\$ 517.00
L7534146BIOB010	6 Port, 1/2" BSP, 12VDC	120	250	\$ 624.00
L7534146BIOC010	6 Port, 1/2" BSP, 24VDC	120	250	\$ 624.00
L7535146BIOB010	6 Port, 3/4" BSP, 12VDC	140	250	\$ 737.00
L7535146BIOC010	6 Port, 3/4" BSP, 24VDC	140	250	\$ 737.00
L7556106B1OB010	6 Port, 1" BSP, 12VDC	180	250	\$ 2059.00
L7556106B1OC010	6 Port, 1" BSP, 24VDC	180	250	\$ 2059.00
L7604048AIOB010	8 Port, 1/2" BSP, 12VDC	60	250	\$ 1203.00
L7604048AIOC010	8 Port, 1/2" BSP, 24VDC	60	250	\$ 1203.00

- All selectors listed are standard with internal drains. External drain kits are available. If external drain kits are fitted, maximum pressure ratings increase - *PLEASE CONSULT HYDRAULIC SPECIALTIES*
- Maximum flow rates may change dependant on pressure - *PLEASE CONSULT HYDRAULIC SPECIALTIES*

CONFIGURATION OPTIONS

LIST

271-1019	External drain kit 1/4" – for VS 81, 82, 151, 152	\$ 45.00
271-1025	External drain kit 1/4" – for VS 92, 311, 312	\$ 45.00
K-06792	External drain kit 1/4" – for VS 105, 305	\$ 96.00

SPARE COMPONENTS

LIST

271-0520	Coil - 12VDC for VS81/82/151/152 valve	\$ 64.00
271-0521	Coil - 24VDC for VS81/82/151/152 valve	\$ 64.00
271-0522	Coil - 48VDC for VS81/82/151/152 valve	\$ 64.00
281-0004	Coil - 12VDC for VS305 valve	\$ 133.00
281-0005	Coil - 24VDC for VS305 valve	\$ 133.00
281-0617	Coil - 12VDC for VS92/311/312 valve	\$ 101.00
281-0618	Coil - 24VDC for VS92/311/312 valve	\$ 101.00

Price List 2011



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FLOW CONTROLS - BRAND



ELECTRONIC 3 PORT FLOW CONTROL

- Solenoid adjustable pressure compensating variable 3 port flow controls with optional relief valve. Both regulated and bypass ports are pressure compensated. Cast iron construction. No relief option.

MODEL	DESCRIPTION	VOLTAGE VDC	REG FLOW lpm	MAX. PRESS. bar	LIST
EFC12-25-12	1 1/16" UNO	12	0 - 95	207	\$ 1427.00
EFC12-30-12	1 1/16" UNO	12	0 - 114	207	\$ 1427.00



MANUAL 3 PORT PRIORITY FLOW CONTROLS

- Pressure compensating variable 3 port flow controls with optional relief valve. Both regulated and bypass ports are pressure compensated. Rotary lever adjustment. Cast iron construction.

MODEL	DESCRIPTION	REG FLOW lpm	MAX. PRESSURE bar	LIST
FC51-8SS	3/4" UNO	0 - 30	207	\$ 333.00
FC51-10SS	7/8" UNO	0 - 60	207	\$ 333.00
FC51-12SS	1 1/16" UNO	0 - 114	207	\$ 333.00
FCR51-8SS	3/4" UNO c/w Relief	0 - 30	207	\$ 397.00
FCR51-10SS	7/8" UNO c/w Relief	0 - 60	207	\$ 397.00
FCR51-12SS	1 1/16" UNO c/w Relief	0 - 114	207	\$ 397.00

FLOW CONTROLS - SNAP-TITE



- Adjustable pressure compensated flow control valves allow for versatility where flow cannot be predetermined or where continual flow adjustment is required.
- Valves are virtually unaffected by varying system pressure and maintain a tolerance of + or - 15% below 5.6 lpm and + or - 10% above 5.6 lpm.
- Free reverse flow check. Minimum regulating pressure of 10 bar is required.

MODEL	DESCRIPTION	REG FLOW lpm	MAX. PRESSURE bar	LIST
FRIA05-4S	1/4" SAE	2.8 - 19	345	\$ 234.00
FRIA10-6S	3/8" SAE	3.8 - 38	345	\$ 303.00
FRIA15-8S	1/2" SAE	5.6 - 57	345	\$ 334.00
FRIA30-12S	3/4" SAE	11.4 - 114	345	\$ 485.00
FRIA30-16S	1" SAE	11.4 - 114	345	\$ 524.00

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FLOW CONTROLS - TECHNORD

MOTORISED 3 PORT FLOW CONTROL

- Motor driven pressure compensated priority type flow regulator
- 7.5 second cycle time from fully open to fully closed



MODEL	DESCRIPTION	VOLTAGE <i>VDC</i>	REG FLOW <i>lpm</i>	MAX. PRESS. <i>bar</i>	LIST
15.2202.010	3/4" BSP	12	0 - 95	250	\$ 1139.00
15.2202.011	3/4" BSP	24	0 - 95	250	\$ 1139.00

FLOW CONTROLS - TOGNELLA



2 PORT IN LINE, HIGH PRESSURE NEEDLE VALVE

MODEL	DESCRIPTION	FLOW RATE <i>lpm</i>	MAX. PRESSURE <i>bar</i>	LIST
FT257/2-14-MP	1/4" BSP	15	400	\$ 101.00
FT257/2-38-MP	3/8" BSP	30	400	\$ 113.00
FT257/2-12-MP	1/2" BSP	50	400	\$ 171.00
FT257/2-34-MP	3/4" BSP	80	400	\$ 221.00
FT257/2-100-MP	1" BSP	150	400	\$ 461.00

2 PORT IN LINE, HIGH PRESSURE , FREE REVERSE FLOW NEEDLE VALVE



MODEL	DESCRIPTION	FLOW RATE <i>lpm</i>	MAX. PRESSURE <i>bar</i>	LIST
FT257/5-14	1/4" BSP	15	400	\$ 122.00
FT257/5-38	3/8" BSP	30	400	\$ 140.00
FT257/5-12	1/2" BSP	50	400	\$ 189.00
FT257/5-34	3/4" BSP	80	400	\$ 234.00
FT257/5-100	1" BSP	150	400	\$ 473.00



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2 PORT IN LINE, BRASS FORGED, NEEDLE VALVE



MODEL	DESCRIPTION	FLOW RATE <i>lpm</i>	MAX. PRESSURE <i>bar</i>	LIST
FT1251/2-01-14	1/4" BSP	15	210	\$ 50.00
FT1251/2-01-38	3/8" BSP	30	210	\$ 62.00
FT1251/2-01-12	1/2" BSP	50	210	\$ 92.00

2 PORT, IN LINE, BRASS FORGED, FREE REVERSE FLOW, NEEDLE VALVE



MODEL	DESCRIPTION	FLOW RATE <i>lpm</i>	MAX. PRESSURE <i>bar</i>	LIST
FT1251/5-01-14	1/4" BSP	15	210	\$ 86.00
FT1251/5-01-38	3/8" BSP	30	210	\$ 100.00
FT1251/5-01-12	1/2" BSP	50	210	\$ 138.00

2 PORT, 90°, BRASS FORGED, NEEDLE VALVE



MODEL	DESCRIPTION	FLOW RATE <i>lpm</i>	MAX. PRESSURE <i>bar</i>	LIST
FT1252/2-01-38	3/8" BSP	30	210	\$ 94.00
FT1252/2-01-12	1/2" BSP	50	210	\$ 101.00

2 PORT, 90°, BRASS FORGED, FREE REVERSE FLOW, NEEDLE VALVE



MODEL	DESCRIPTION	FLOW RATE <i>lpm</i>	MAX. PRESSURE <i>bar</i>	LIST
FT1254/5-01-38	3/8" BSP	30	210	\$ 113.00
FT1254/5-01-12	1/2" BSP	50	210	\$ 146.00

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GAUGE ISOLATORS - TOGNETTA



GAUGE ISOLATOR, NEEDLE VALVE

MODEL	DESCRIPTION	MAX. PRESSURE <i>bar</i>	LIST
FT290-01-14	1/4" BSP	400	\$ 64.00



GAUGE ISOLATOR, PUSH BUTTON

MODEL	DESCRIPTION	MAX. PRESSURE <i>bar</i>	LIST
FT292	1/4" BSP	400	\$ 133.00

STAINLESS STEEL VALVES – TOGNETTA



2 WAY BALL VALVES

MODEL	DESCRIPTION	MAX. PRESS. <i>bar</i>	LIST
FT2221/1-3000-38	SS 3/8" BSP	500	\$ 223.00
FT2221/1-3000-12	SS 1/2" BSP	500	\$ 264.00

NEEDLE VALVE



MODEL	DESCRIPTION	FLOW RATE <i>lpm</i>	MAX. PRESS. <i>bar</i>	LIST
FT2251/2-01-38	SS 3/8" BSP	30	210	\$ 252.00
FT2251/2-01-12	SS 1/2" BSP	50	210	\$ 361.00

2-PORT PC FLOW CONTROL



MODEL	DESCRIPTION	FLOW RATE <i>lpm</i>	MAX. PRESS. <i>bar</i>	LIST
FT2270/2-38	SS 3/8" BSP	25	210	\$ 893.00
FT2270/2-12	SS 1/2" BSP	50	210	\$ 1190.00

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BALL VALVES - TOGNETTA



2 WAY BALL VALVES

MODEL	DESCRIPTION	MAX. PRESSURE <i>bar</i>	LIST
FT221/1-14	1/4" BSP	500	\$ 57.00
FT221/1-38	3/8" BSP	500	\$ 57.00
FT221/1-12	1/2" BSP	500	\$ 73.00
FT221/1-34	3/4" BSP	315	\$ 140.00
FT221/1-100	1" BSP	315	\$ 144.00
FT221/1-114	1 1/4" BSP	315	\$ 152.00



3 WAY BALL VALVES

MODEL	DESCRIPTION	MAX. PRESSURE <i>bar</i>	LIST
FT221/3-14	1/4" BSP	315	\$ 124.00
FT221/3-38	3/8" BSP	315	\$ 125.00
FT221/3-12	1/2" BSP	315	\$ 128.00
FT221/3-34	3/4" BSP	250	\$ 196.00
FT221/3-100	1" BSP	250	\$ 270.00
FT221/3-114	1 1/4" BSP	250	\$ 360.00

CHECK VALVES - TOGNETTA



IN LINE CHECK VALVES - 0.35 BAR SPRING

MODEL	DESCRIPTION	MAX. PRESSURE <i>bar</i>	LIST
FT260/6-18	1/8" BSP	350	\$ 44.00
FT260/6-14	1/4" BSP	350	\$ 39.00
FT260/6-38	3/8" BSP	350	\$ 45.00
FT260/6-12	1/2" BSP	350	\$ 51.00
FT260/6-34	3/4" BSP	350	\$ 69.00
FT260/6-100	1" BSP	350	\$ 101.00
FT257/6-114	1 1/4" BSP	320	\$ 236.00

IN LINE CHECK VALVES - 4.5 / 4.0 BAR SPRING

MODEL	DESCRIPTION	MAX. PRESSURE <i>bar</i>	LIST
FT260/6-12-4.5	1/2" BSP	350	\$ 51.00
FT260/6-34-4.5	3/4" BSP	350	\$ 69.00
FT260/6-100-4.5	1" BSP	350	\$ 101.00
FT257/6-114-4.0	1 1/4" BSP	320	\$ 258.00
FT257/6-112-4.0	1 1/2" BSP	320	\$ 515.00

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RECIPROCATING VALVE – LC OLEODINAMICA

- Mounts onto a standard Cetop 3 interface
- This is a double acting valve which automatically changes over the oil flow direction. The motion is completely automatic and normally takes place when the cylinder reaches its end of stroke.



MODEL	DESCRIPTION	FLOW RATE <i>lpm</i>	PRESSURE RANGE <i>bar</i>	LIST
LC1-IA6/2F	Auto reciprocating Cetop 3 valve	3 - 35	10 - 310	\$ 818.00
LC2-IA10/2F	Auto reciprocating Cetop 5 valve	10 - 80	10 - 310	\$ 1070.00

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CONTENTS SECTION E – CARTRIDGE VALVING

- Due to the large size and specialist nature of cartridge valving, this section has been moved to the Hyspecs Cartridge Catalogue.
- Contact HYSPECS for a copy or download it from our website here:
www.hyspecs.co.nz/downloads.



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CONTENTS SECTION F – AC DC POWER UNITS**F1 AC DC Power Units**

F1	DC Pump/Motor units	<i>Haldex</i>
F2	DC Power Units - Standard HE2000	<i>Haldex</i>
F2	HE 2000 Components	<i>Haldex</i>
F5	AC DC Modular Micro Power Units	<i>OMT</i>
F6	12 VDC Power Unit	<i>EOS</i>
F7	12/24 VDC Power Unit	<i>Hyspecs</i>

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DC PUMP/MOTOR UNITS - HALDEX BARNES

- Modular units 12 or 24 VDC. Series wound, close coupled to the pump with an Oldham coupling to eliminate misalignment.
- Weather resistant solenoid starter switch. Cast iron GC Series gear pump.



DC MOTORS

MODEL	VOLTAGE	ROTATION	TERMINAL	DUTY	LIST
1300027	12	CCW	Single	Standard	\$ 448.00
1300912	24	CCW	Single	Standard	\$ 594.00
1300618	12	CCW	Double	Medium	\$ 542.00
1300619	24	CCW	Double	Medium	\$ 584.00
1303551	24	CCW	Double	Heavy Duty	\$ 1370.00
2200321	24	CW	Double	Continuous	\$ 2831.00

- All motors are series wound and are not reversible.

MOTOR START SWITCHES

MODEL	VOLTAGE	DESCRIPTION	LIST
1300939	12	3 Pole	\$ 78.00
1300940	24	3 Pole	\$ 84.00
1300942	24	4 pole – Heavy Duty	\$ 222.00

MOTOR END HEAD

MODEL	DESCRIPTION	LIST
2210040	External pump to DC motor adaptor	\$ 395.00

GC PUMPS-TANG SHAFT

MODEL	DISPLACEMENT <i>cc/rev</i>	PRESSURE <i>bar</i>	SUCTION PORT <i>UN O-Ring</i>	PRESSURE PORT <i>UN O-Ring</i>	LIST
1300380	2.1	240	3/4" – 16	9/16" – 18	\$ 521.00
1300381	3.2	240	3/4" – 16	9/16" – 18	\$ 521.00

- Includes integral relief
- CW Rotation
- Also available with optional solenoid release valve.

GC PUMPS-TANG SHAFT TO SUIT 24VDC CONTINUOUS MOTOR (2200321) – CCW ROTATION

MODEL	DISPLACEMENT <i>cc/rev</i>	PRESSURE <i>bar</i>	SUCTION PORT <i>UN O-Ring</i>	PRESSURE PORT <i>UN O-Ring</i>	LIST
1320032	2.1	240	3/4" – 16	9/16" – 18	\$ 613.00
1321729	3.2	240	3/4" – 16	9/16" – 18	\$ 629.00
1320760	4.2	240	3/4" – 16	3/4" – 18	\$ 658.00

- Includes integral relief

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DC POWER UNITS - HALDEX BARNES - HE2000

- Build up a power pack by selecting individual components, 1 through 11 below:



1. HE2000 COMPONENTS

MODEL	DESCRIPTION	LIST
1300852	HE2000 Standard adaptor interface	\$ 204.00
1300191	HE2000 Port plug kit	\$ 22.00
1300192	HE2000 Manual valve kit	\$ 413.00
SV08-20-12 VDC	12 VDC Solenoid release kit	\$ 149.00
SV08-20-24 VDC	24 VDC Solenoid release kit	\$ 149.00
1300744	Cetop 3 adaptor kit	\$ 538.00
1300853	HE2000 Cartridge valve / Cetop 3 adaptor kit	\$ 234.00
1300854	HE2000 Cetop 3 manifold (requires 1300853)	\$ 268.00
1300866	HE2000 Manifold adaptor kit	\$ 446.00
1303481	HE2000/IEC 80 Interface kit	\$ 210.00
1303482	HE2000/IEC 90 Interface kit	\$ 238.00

2. PUMP KITS – GC SERIES – CW ROTATION

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. PRESSURE <i>bar</i>	LIST
1300174	1.06	276	\$ 278.00
1300176	1.59	276	\$ 278.00
1300171	2.11	276	\$ 278.00
1300625	2.64	276	\$ 278.00
1300169	3.18	276	\$ 278.00
1300172	4.24	276	\$ 296.00
1300931	5.30	207	\$ 296.00
1300932	6.36	172	\$ 418.00
1300019	Seal Kit		\$ 39.00

3. PUMP KITS – W SERIES – CW ROTATION

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. PRESSURE <i>bar</i>	LIST
1303435	0.8	255	\$ 382.00
1303436	1.2	255	\$ 382.00
1303437	1.6	255	\$ 382.00
1303438	2.0	255	\$ 382.00
1303439	2.6	255	\$ 384.00
1303440	3.2	255	\$ 384.00
1303441	3.8	230	\$ 384.00
1303442	4.3	210	\$ 410.00
1303443	4.8	187	\$ 430.00
1303444	5.7	160	\$ 446.00

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DC POWER UNITS - HALDEX BARNES.

HE2000 COMPONENTS



4. RELIEF VALVE KITS

MODEL	PRESSURE RANGE <i>Bar</i>	LIST
1300984	34 - 172	\$ 24.00
1300985	173 - 276	\$ 26.00

5. FLOW REGULATOR KITS

MODEL	FLOW SETTING <i>lpm</i>	LIST
1303448	4	\$ 24.00
1303450	8	\$ 26.00
1303451	11	\$ 26.00
1303452	15	\$ 26.00

6. DC MOTOR

MODEL	VOLTAGE	TERMINAL	DUTY	LIST
1300027	12	Single	Standard	\$ 448.00
1300912	24	Single	Standard	\$ 594.00
1300618	12	Double	Medium	\$ 542.00
1300619	24	Double	Medium	\$ 584.00
1303551	24	Double	Heavy	\$ 1370.00

7. MOTOR START SWITCH

MODEL	DESCRIPTION	LIST
1300939	12 VDC / 3 pole – Internal negative ground case	\$ 78.00
1300940	24 VDC / 3 pole – Internal negative ground case	\$ 84.00
1300942	24 VDC / 4 pole – Non-grounded – Heavy Duty	\$ 222.00

8. DC MOTOR ACCESSORIES

MODEL	DESCRIPTION	LIST
1300335	Extended shaft adaptor drive	\$ 336.00
1300620	Ground strap for double terminal motor	\$ 24.00

- AC Power units available by replacing the DC motor – *Consult HYDRAULIC SPECIALTIES*

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DC POWER UNITS - HALDEX BARNES.

HE2000 COMPONENTS



9. RESERVOIR KITS

MODEL	RESERVOIR VOLUME <i>litres</i>	MATERIAL	SHAPE	LIST
1300898	1.2	Steel	Round	\$ 62.00
1300899	1.9	Steel	Round	\$ 68.00
1300900	2.9	Steel	Round	\$ 90.00
1300903	1.6	Plastic	Round	\$ 36.00
1300904	3.8	Steel	Round	\$ 126.00
1300905	5.7	Steel	Round	\$ 132.00
1300906	7.6	Steel	Round	\$ 174.00
1300907	11.4	Steel	Round	\$ 250.00
1300908	9.5	Steel	Rectangular	\$ 244.00
1300909	15.2	Steel	Rectangular	\$ 306.00

10. RESERVOIR TUBE KITS

MODEL	RESERVOIR SIZE	ORIENTATION	PUMP SERIES	LIST
1300868	1.2, 1.9, 3.8	Horizontal	GC & W	\$ 56.00
1300874	2.9, 5.7, 7.6, 9.5, 11.4, 15.2	Horizontal	GC & W	\$ 56.00
1300876	1.2	Vertical	GC	\$ 54.00
1300878	2.9	Vertical	GC	\$ 54.00
1300891	3.8	Vertical	GC	\$ 54.00
1300892	5.7	Vertical	GC	\$ 54.00
1300893	7.6	Vertical	GC	\$ 54.00
1300894	11.4	Vertical	GC	\$ 54.00
1300957	3.8	Vertical	W	\$ 45.00
1300958	5.7	Vertical	W	\$ 56.00
1300959	7.6	Vertical	W	\$ 56.00
1300960	11.4	Vertical	W	\$ 56.00
1300963	1.2, 1.6	Horizontal	GC & W	\$ 56.00
1300977	1.6	Vertical	GC	\$ 75.00
1300978	1.6	Vertical	W	\$ 62.00

11. ACCESSORIES

MODEL	DESCRIPTION	LIST
1300651	Remote raise & lower cord set.	\$ 214.00
2380260	Remote raise & lower cord set.	\$ 378.00

- AC Power units available by replacing the DC motor – *Consult HYDRAULIC SPECIALTIES*

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E-mail: hyspecs@hyspecs.co.nz

AC/DC POWER UNITS - OMT

- Modular Micro AC/DC power unit.
- Allows easy assembly of a small size power unit when using standard Galtech group 1 gear pumps.
- Suits size 80/90 AC electric motors or DC 12/24 Volt up to 3kW.



Step 1. Use the following standard adaptors

MODEL	DESCRIPTION	LIST
P200	Foot flange	\$ 60.00
BC20-V3-U1P	OMT bell housing with integral check and relief valve (70-315 bar)	\$ 265.00

Step 2. Choose your porting adaptor

MODEL	DESCRIPTION	LIST
M	OMT manifold P & T ports - BC20	\$ 80.00
PM06-F	OMT manifold Cetop 3 - BC20 (select a Cetop 3 to suit)	\$ 145.00

Step 3. Choose your group 1 Galtech gear pump

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX. PRESSURE <i>bar</i>	MAX. SPEED <i>rpm</i>	LIST
1SP-A-0.9-D-10NN*	0.89	240	6000	\$ 397.00
1SP-A-1.2-D-10NN*	1.18	240	6000	\$ 397.00
1SP-A-1.6-D-10NN*	1.6	240	6000	\$ 397.00
1SP-A-2.0-D-10NN*	2.0	220	5500	\$ 397.00
1SP-A-2.5-D-10NN*	2.5	220	5000	\$ 410.00
1SP-A-3.2-D-10NN*	3.2	210	4500	\$ 410.00
1SP-A-3.7-D-10NN*	3.7	210	4000	\$ 410.00
1SP-A-4.2-D-10NN*	4.2	190	3500	\$ 410.00
1SP-A-5.0-D-10NN*	5.0	180	3000	\$ 422.00
1SP-A-6.3-D-10NN*	6.3	170	2700	\$ 422.00
1SP-A-7.8-D-10NN*	7.76	170	2500	\$ 428.00

Step 4. Choose your electric motor and adaptor

MODEL	DESCRIPTION	LIST
FBC20	Flange adaptor for DC motor to BC20	\$ 85.00
-	No adaptor required for AC motor	-
Use either size 80/90 AC electric motors or DC 12/24 Volt up to 3kW (with tang drive).		



AC/DC POWER UNITS – OMT



Step 5. Select a coupling to suit

MODEL	DESCRIPTION	LIST
ND1 BC5	To suit DC electric motor (tang) to group 1 pump	\$ 60.00
ND 5	To suit size 80 frame AC electric motor to group 1 pump	\$ 39.00
ND 70A	To suit size 90 frame AC electric motor to group 1 pump	\$ 39.00

Step 6. Select a tank to suit

MODEL	DESCRIPTION	LIST
SC4-224	OMT oil tank 4 litres	\$ 175.00
SC7-224	OMT oil tank 7 litres	\$ 200.00
SC10-224	OMT oil tank 10 litres	\$ 225.00

Step 7. Use the following standard filtration

MODEL	DESCRIPTION	LIST
SF46A-12-GR90	OMT suction strainer 1/2" BSPP	\$ 22.00
F-01	OMT return filter	\$ 40.00

12 VDC POWER UNIT - EOS

- 12 VDC fully integrated pump, electric motor, tank and valving to suit a single acting application.
- Weather resistant solenoid starter switch.
- Integral hand-pump for power failure backup.
- Solenoid dump valve with manual backup.



MODEL	DESCRIPTION	LIST
PPC-0.8 12DC/S	Mini Power Pack, 0.8 cc/rev, 1 litre tank	\$ 950.00
M461S008	12 VDC motor 800w	\$ 587.00

Price List 2011



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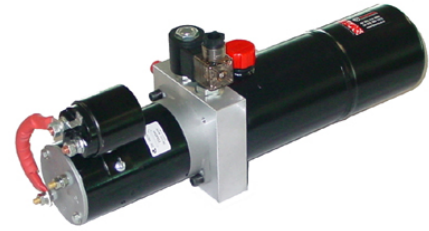
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12/24 VDC POWER UNIT – HYDRAULIC SPECIALTIES

- Small low cost, standard build DC power unit.
- Suitable for lifting platforms / mechanisms.
- 12/24 VDC
- 800W electric DC motor
- 1.5 L oil tank
- 0.75cc gear pump
- Power up with solenoid dump and adjustable flow back to tank
- Relief Valve adjustable up to 160 bar (210 bar option on request)
- Industrial common 08-2 cavities



MODEL	DESCRIPTION	LIST
TDDL-02-105X105	Mini power pack 12 or 24 VDC, 800w, 1.5l tank & 0.75cc pump	\$ 605.00
TD4045	Electric motor 24 VDC, 800w	\$ 156.00
TD4046	Electric motor 12 VDC, 800w	\$ 156.00
TD4045-S	Starter switch 24 VDC	\$ 54.00
TD4046-S	Starter switch 12 VDC	\$ 54.00

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CONTENTS SECTION G – POWER STEERING**G1 Power Steering Units**

G1	3, 4, 6 & 10 Series	<i>Eaton / Char-Lynn</i>
G2	6, 10 & 12 Series	<i>Eaton / Char-Lynn</i>
G3	Q Amp, 25 Series	<i>Eaton / Char-Lynn</i>
G3	Seal Kits	<i>Eaton / Char-Lynn</i>

G4 Torque Generators

G4	217 Series	<i>Eaton / Char-Lynn</i>
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G4 Load Sensing Priority Flow Dividers

G4	Priority Flow Divider	<i>Eaton / Char-Lynn</i>
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G5 Power Steering Pumps

G5	VTM 42 – Vane Pump	<i>Eaton / Vickers</i>
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POWER STEERING UNITS - EATON / CHAR-LYNN



- A fully fluid linked steering control unit consisting of a manually operated directional control servo valve and with a feedback meter element in a single body. It is used principally for fluid linked power steering systems, but can be used for some servo-type applications where visual positioning is required.
- Eaton's new Series 10 steering units are a blend of all the capabilities of the previous Standard and Metric Steering units with some new, exciting features. The Series 10 is capable of 275 bar [4000 psi] continuous pressure rating.

SPECIFICATIONS

Series		3	4	6	10	12	230 Q-Amp
Flow	<i>lpm</i>	7.5 - 15	15	15 - 30	7.6 - 76	30 - 60	15 - 38
Pressure Δ bar	<i>bar</i>	172	125	172	275	172	172
Back Press. Δ bar	<i>bar</i>	21	10	21	21	21	21
Input Torque	<i>Nm</i>	2.8 - 4.0	2.8 - 4.0	2.8 - 4.0	1.1 - 2.8	2.8 - 4.0	2.8 - 4.0
Max Temperature	$^{\circ}$ C	93	93	93	93	93	93

SERIES 4 - OPEN CENTRE, NON LOAD REACTION, NO COLUMN, 9/16" UN PORTS, POWER-BEYOND PORT.

MODEL	DISPLACEMENT <i>cc/rev</i>	LIST
241-5026	58	\$ 1029.00
241-5027	75	\$ 1041.00
241-5028	95	\$ 1159.00
241-5029	120	\$ 1171.00

SERIES 10 - OPEN CENTRE, NON LOAD REACTION, NO COLUMN, 9/16" UN PORTS.

MODEL	3-SERIES EQUIVALENT	DISPLACEMENT <i>cc/rev</i>	LIST
200-0067	211-1004	75	\$ 1211.00
200-0072	211-1002	95	\$ 1211.00
200-0128	211-1003	120	\$ 1248.00
200-0188	211-1157	145	\$ 1248.00

SERIES 10 - OPEN CENTRE, NON LOAD REACTION, NO COLUMN, 3/4" UN PORTS.

MODEL	6-SERIES EQUIVALENT	DISPLACEMENT <i>cc/rev</i>	LIST
200-0061	211-1007	75	\$ 1211.00
200-0010	211-1008	95	\$ 1211.00
200-0011	211-1009	120	\$ 1211.00
200-0111	211-1137	145	\$ 1236.00
200-0012	211-1010	160	\$ 1242.00
200-0060	211-1011	185	\$ 1284.00
200-0013	211-1012	230	\$ 1315.00
200-0190	211-1158	295	\$ 1353.00

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POWER STEERING UNITS - EATON / CHAR-LYNN

(CONT.)SERIES 10 - OPEN CENTRE, NON LOAD REACTION, NO COLUMN, 3/4"UN PORTS.

MODEL	12-SERIES EQUIVALENT	DISPLACEMENT <i>cc/rev</i>	LIST
200-0231	211-1167	295	\$ 1475.00
200-0229	211-1177	370	\$ 1585.00
200-0039	211-1178	460	\$ 1658.00
200-0340	211-1160	590	\$ 1749.00
200-0233	211-1179	740	\$ 2050.00

SERIES 10 - CLOSED CENTRE, NON LOAD REACTION, NO COLUMN, 3/4"UN PORTS.

MODEL	6-SERIES EQUIVALENT	DISPLACEMENT <i>cc/rev</i>	LIST
200-0252	212-1001	75	\$ 1147.00
-	212-1002	95	\$ 1211.00
-	212-1003	120	\$ 1211.00
-	212-1069	145	\$ 1189.00
-	212-1004	160	\$ 1201.00
200-0343	212-1005	185	\$ 1248.00
-	212-1006	230	\$ 1307.00
-	212-1070	295	\$ 1343.00
200-0288	212-1008	370	\$ 1485.00

MODEL	12-SERIES EQUIVALENT	DISPLACEMENT <i>cc/rev</i>	LIST
200-0288	212-1014	370	\$ 1544.00
200-0289	212-1015	460	\$ 1585.00
200-0292	212-1071	590	\$ 1686.00
200-0290	212-1017	740	\$ 1946.00

SERIES 10 - LOAD SENSING, NON LOAD REACTION, NO COLUMN, 3/4" UN PORTS.

MODEL	6-SERIES EQUIVALENT	DISPLACEMENT <i>cc/rev</i>	LIST
200-0141	213-4001	75	\$ 1292.00
200-0142	213-4002	95	\$ 1328.00
200-0147	213-4045	120	\$ 1438.00
200-0145	213-4042	145	\$ 1358.00
200-0148	213-4046	160	\$ 1438.00
200-0146	213-4043	185	\$ 1462.00
200-0009	213-4047	230	\$ 1480.00
200-0195	213-4044	295	\$ 1548.00

MODEL	12-SERIES EQUIVALENT	DISPLACEMENT <i>cc/rev</i>	LIST
200-0017	213-1089	293	\$ 1449.00
200-0018	213-4051	370	\$ 1658.00
200-0133	213-4048	460	\$ 1738.00
200-0138	213-4049	590	\$ 1658.00
200-0134	213-4050	740	\$ 2295.00

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POWER STEERING UNITS - EATON / CHAR-LYNN



Q - AMP POWER STEERING UNITS

- The displacement of the steering control units vary with the input rpm of the steering wheel. When steering at a slow rpm the effective displacement is the same as the meter displacement but as the input rpm increases the effective displacement shifts to 1.6-2 times depending on the type of steering control unit. There are several valve options.

SERIES 230 - DYNAMIC LOAD SENSING, NO LOAD REACTION, NO COLUMN, 3/4" UN PORTS.

MODEL	DISPLACEMENT cc/rev	LIST
263-3131	120	\$ 1691.00
263-4035	230	\$ 1691.00

** Please consult Hyspecs about other displacements (from 75cc - 295cc/rev)

POWER STEERING UNIT ACCESSORIES

LIST ADDER

204-1001	2.23" keyed & tapered column	\$ 171.00
204-1002	2.23" serrated column	\$ 171.00
204-1003	5.82" keyed & tapered column	\$ 200.00
204-1004	5.82" serrated column	\$ 200.00
204-1036	7.76" serrated column	\$ 200.00
204-1073	10.76" serrated column	\$ 214.00
204-1034	11.76" serrated column	\$ 214.00
204-1031	15.74" serrated column	\$ 207.00
204-1015	17.78" serrated column	\$ 232.00
204-1051	25.28" serrated column	\$ 253.00
204-1005	30.00" keyed & tapered column	\$ 275.00
204-1006	30.00" serrated column	\$ 275.00
208-1013	Horn button kit	P.O.A.
209-1005	Steering wheel cap	\$ 47.00
21084-000	Steering column nut	\$ 22.00
14381-000	Steering column Hex nut (Taper Shaft)	\$ 42.00
209-1007	17" flat steering wheel (includes 209-1005)	\$ 227.00
S-20014	14" 4 spoke steering wheel	\$ 145.00

POWER STEERING UNIT SEAL KITS

MODEL	DESCRIPTION	LIST
5140-000	201 Series - Old	\$ 47.00
64466-000	211 / 212 Series - 001, 002	\$ 52.00

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TORQUE GENERATORS - EATON / CHAR-LYNN



- High torque rotary power with low manual input. The combination of control valve and power elements in a single unit provides an economical power steering unit for many vehicles.
- Control valving is open centre and the power stream fluid circulates through the unit back to the reservoir at very low pressure when the system is not being used.
- Manual input on a steering wheel connected directly to the input shaft deflects the internal porting to direct flow from the power source to the Gerotor section producing the powered output.

Displacement	<i>cc/rev</i>	76	95	160
Flow*	<i>lpm</i>	62	79	124
Torque	<i>Nm</i>	14.7	23.2	35.9
Pressure	<i>bar</i>	70	70	70
Shaft		7/8" Keyed	7/8" Keyed	7/8" Keyed

* @ 70 bar pressure

- Needle Bearing Power End Option - Standard

MODEL	DISPLACEMENT <i>cc/rev</i>	LIST
217-1055	76	\$ 1365.00
217-1056	95	\$ 1389.00
217-1057	160	\$ 1438.00
217-1051	76	\$ 1365.00
217-1028	95	\$ 1389.00
217-1052	160	\$ 1438.00

TORQUE GENERATOR UNIT SEAL KITS

LIST

21122-000	207 Series seal kit	\$ 77.00
64500-000	217/227 Series seal kit	\$ 105.00

LOAD SENSING PRIORITY FLOW DIVIDERS - EATON / CHAR-LYNN



- A load sensing flow divider enabling more efficient use of flow in a power steering system.

MODEL	FLOW <i>lpm</i>	PRESSURE <i>bar</i>	LIST
606-1314-003-QA	60	275 / 241 CF port	\$ 643.00
606-1295-003-QA	150	262 / 172 CF port	\$ 602.00

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POWER STEERING PUMPS - EATON / VICKERS



VTM 42 – POWER STEERING VANE PUMP

- Balanced vane pump eliminates pressure-induced bearing loads to provide longer life and reduced maintenance.
- Integral valving – Flow control and relief eliminate the need for separate valving. Integral tank.

MODEL	DISPLACEMENT <i>cc/rev</i>	MAX SPEED @ 6.9 BAR	MAX SPEED @ 103 BAR	MAX SPEED @ 138 BAR	LIST
		<i>rpm</i>	<i>rpm</i>	<i>rpm</i>	
VTM 42	3.3	7000	5000	4250	\$ 1534.00
VTM 42	6.6	7000	4200	3800	\$ 1534.00
VTM 42	13	7000	2800	2800	\$ 1534.00
VTM 42	16.5	6000	2600	2300	\$ 1534.00
VTM 42	19.5	5000	2500	2000	\$ 1534.00

CONFIGURATION OPTIONS

LIST ADDER

Relief setting (bar)

35, 48, 69, 86, 103, 120, 138

N/C

Priority flow @1500rpm (l/min)

5.7, 7.6, 9.5, 11.4, 13.2, 15.1, 17.0, 18.9, 20.8, 22.7, 24.6, 26.5, 28.4

N/C

VTM 42-F11 Reservoir Kit - 923840

\$ 364.00



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CONTENTS SECTION H – FILTRATION**H1 Filtration - Return**

H1	OMTF Series – Tank Top, LP	OMT
H1	AFR Series – Tank Top, LP	OMT
H2	OMTI Series – In-Line spin on, LP	OMT
H2	OMTI Series – Indicators	OMT
H3	BF Series – In-Line, LP	Zinga
H3	ZAF Series – In-Line, LP	Zinga
H4	SF Series – In-Line, LP	Zinga
H4	HE Series – In-Line, MP	Zinga

H5 Filtration - Pressure

H5	HPM Series – In-Line, HP	OMT
H5	HPM Series – Indicators	OMT

H6 Filtration - Suction

H6	SF Series - Suction	OMT
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H6 Filtration Accessories

H6	TRM Series – Tank Breathers	OMT
H6	TR Series - Filler Breathers	OMT

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FILTRATION - RETURN

- Lightweight filters to set in tank top with a detachable lid to remove the element.
- Oil return port in side.
- Operating pressure @ 3 bar, by-pass set @ 1.7 bar.



RETURN, TANK MOUNTED - LOW PRESSURE – OMT

OMTF SERIES – TANK MOUNTED – RETURN PORT IN SIDE AT TOP

OMT MODEL	DONALDSON EQUIV	DESCRIPTION	PORT BSPP	MICRON Nominal	RATED FLOW lpm	LIST
OMTF091C10NA	FIO 30/1	Ø 66 mm hole	1/2"	10	40	\$ 80.00
OMTF111C10NA1	FIO 60/1	Ø 86 mm hole	3/4"	10	80	\$ 90.00
OMTF112C10NA2	FIO 100/1	Ø 86 mm hole	1"	10	100	\$ 100.00
OMTF171C10NA1	FIO 180/1	Ø 129 mm hole	1 1/4"	10	200	\$ 180.00
OMTF221C10NA1	FIO 250/1	Ø 173 mm hole	1 1/2"	10	276	\$ 265.00
OMTF223C10NA2	FIO 500/1	Ø 173 mm hole	2"	10	319	\$ 285.00

AFR SERIES – TANK MOUNTED – RETURN PORT IN SIDE AT BOTTOM



OMT MODEL	DONALDSON EQUIV	DESCRIPTION	PORT BSPP	MICRON Nominal	RATED FLOW lpm	LIST
AFR30C10NR	FIR 30/1	Ø 80 mm hole	1/2"	10	16	\$ 130.00
AFR60C10NR	FIR 60/1	Ø 106 mm hole	3/4"	10	49	\$ 185.00
AFR100C10NR	FIR 100/1	Ø 106 mm hole	1"	10	85	\$ 200.00
AFR180C10NR	FIR 180/1	Ø 147 mm hole	1 1/4"	10	150	\$ 315.00

ELEMENTS

OMT MODEL	DONALDSON EQUIV	MICRON Nominal	RATED FLOW lpm	LIST
CR091C10R	CR 30/1	10	40	\$ 20.00
CR091F10R	CR 30/02	10 absolute	27	\$ 45.00
CR111C10R	CR 60/1	10	80	\$ 30.00
CR111F10R	CR 60/02	10 absolute	39	\$ 50.00
CR112C10R	CR 100/1	10	100	\$ 35.00
CR112F10R	CR 100/02	10 absolute	55	\$ 65.00
CR171C10R	CR 180/1	10	200	\$ 50.00
CR171F10R	CR 180/02	10 absolute	157	\$ 120.00
CR221C10R	CR 250/1	10	276	\$ 60.00
CR221F10R	CR 250/02	10 absolute	178	\$ 168.00
CR223C10R	CR 500/1	10	319	\$ 75.00
CR223F10R	CR 500/02	10 absolute	250	\$ 195.00

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FILTRATION - RETURN

RETURN, IN LINE FILTERS - LOW PRESSURE – OMT

- Spin on replacement element, by pass set @ 1.7 bar
- Operating pressure - 10 bar.



OMTI SERIES – IN-LINE, LOW PRESSURE - SPIN ON ELEMENT

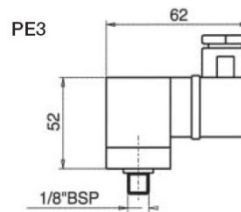
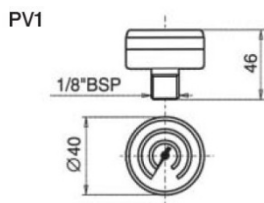
OMT MODEL	DONALDSON EQUIV	DESCRIPTION	PORT BSSPP	MICRON Nominal	RATED FLOW lpm	LIST
OMTI05ANR	FRCA 60/1	Single Element	3/4"	10	60	\$ 80.00
OMTI10ANR	FRCA 160/1	Single Element	1 1/4"	10	150	\$ 135.00
OMTI20ANR-I	FRCA 380/1	Dual Element	1 1/2"	10	300	\$ 230.00

ELEMENTS

OMT MODEL	DONALDSON EQUIV	MICRON Nominal	RATED FLOW lpm	LIST
CS05AN	CA 60/1	10	60	\$ 36.00
CS05GN	CA 60/02	10 absolute	50	\$ 85.00
CS10AN	CA 160/1	10	150	\$ 60.00
CS10GN	CA 160/02	10 absolute	100	\$ 160.00

OMTI SERIES – INDICATORS

OMT MODEL	DESCRIPTION	LIST
PV1	Gauge with pressure range from 0 to 12 bar	\$ 30.00
DV130	Differential visual indicator calibrated at 1.3 bar ± 10% (to be mounted only on T20"-I" head)	\$ 150.00
PE3	Membrane pressure switch with pressure setting 1.3 bar ± 10%	\$ 300.00



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FILTRATION - RETURN

RETURN, IN LINE FILTERS - LOW PRESSURE - ZINGA



NOTE: Filter head priced separate from element

Spin on replacement elements. Field convertible for suction applications.

BF SERIES – IN-LINE, LOW PRESSURE - SPIN ON ELEMENT

FILTER HEAD	PORT <i>UN O-RING</i>	PRESSURE <i>bar</i>	RATED FLOW <i>lpm</i>	LIST
BF-06-0	9/16"	14	26	\$ 52.00

ELEMENT	MICRON <i>Nominal</i>	RATED FLOW <i>lpm</i>	BY-PASS SETTING <i>bar</i>	LIST
BE-10-18	10	25	1.2	\$ 28.00

STANDARD COMBINATION

LIST

BF-06-0 + BE-10-18 Filter head + element

\$ 80.00

ZAF SERIES – IN-LINE, LOW PRESSURE - SPIN ON ELEMENT

FILTER HEAD	DONALDSON NUMBER	PORT	PRESSURE <i>bar</i>	RATED FLOW <i>lpm</i>	BY-PASS SETTING <i>Bar</i>	LIST
ZAF-07-25-0	P561134	3/4" NPT	17	95	1.7	\$ 46.00
ZAF-11-25-0	P561141	1 1/16" UNO	17	95	1.7	\$ 64.00

ELEMENT	DONALDSON NUMBER	DESCRIPTION	MICRON <i>Nominal</i>	RATED FLOW <i>lpm @ 0.7 bar</i>	LIST
AE-10	P551551	Standard	10	57	\$ 31.00
AE-10L	P550255	Long	10	84	\$ 52.00
AE-10AZ	P551554	Water Absorb	10	19	\$ 52.00
AE-100	P550274	Mesh	100	95	\$ 92.00

STANDARD COMBINATION

LIST

ZAF-07-25-0 + AE-10 Filter head + element

\$ 77.00

Price List 2011



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FILTRATION - RETURN

RETURN, IN LINE FILTERS - LOW PRESSURE - ZINGA

NOTE: Filter head priced separate from element



SF SERIES – IN-LINE, LOW PRESSURE - SPIN ON ELEMENT

FILTER HEAD	DONALDSON NUMBER	PORT	PRESSURE <i>bar</i>	RATED FLOW <i>lpm</i>	BY-PASS SETTING <i>bar</i>	LIST
SF-120-25-0	P563492	1 1/4" NPT	14	190	1.7	\$ 97.00
SF-160-25-0	P563493	1 5/8" UNO	14	265	1.7	\$ 92.00

ELEMENT	DONALDSON NUMBER	DESCRIPTION	MICRON <i>Nominal</i>	RATED FLOW <i>lpm @ 0.7 bar</i>	LIST
SE-3	P550386	Standard	3	121	\$ 69.00
SE-10	P550388	Standard	10	190	\$ 57.00
LE-10	P550251	Long	10	227	\$ 83.00
LE-10AZ	P561183	Water Absorb	10	170	\$ 125.00

STANDARD COMBINATION

LIST

SF-120-25-0 + SE-10 Filter head + element \$ 154.00

CONFIGURATION OPTIONS

LIST

EA-1 Element **Adapter** to convert 5" UCC, LHA, Parker filter heads to accept Zinga filter elements - SE or LE. \$ 57.00

RETURN / IN LINE FILTERS - MEDIUM PRESSURE - ZINGA

HE SERIES – IN-LINE, MEDIUM PRESSURE - SPIN ON ELEMENT

- Max. static pressure - 41 bar Suitable for hydrostatic transmissions.

FILTER HEAD	PORT	PRESSURE <i>bar</i>	RATED FLOW <i>lpm</i>	BY-PASS SETTING <i>bar</i>	LIST
HF-11-25-0	<i>UN O-RING</i> 1 1/16"	27	151	1.7	\$ 76.00

ELEMENT	DESCRIPTION	MICRON <i>Nominal</i>	RATED FLOW <i>lpm @ 0.7 bar</i>	LIST
HE-10	Standard	10	132	\$ 55.00
HE-10L	Long	10	151	\$ 64.00

STANDARD COMBINATION

LIST

HF-11-25-0 + HE-10 Filter head + element \$ 131.00

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FILTRATION – PRESSURE

HIGH PRESSURE – IN LINE – OMT



HPM SERIES – IN-LINE, HIGH PRESSURE - CARTRIDGE ELEMENT

- Steel filters with operating pressures to 420 bar. By-pass set @ 6 bar.

OMT MODEL	DONALDSON EQUIV	PORT	PRESS. bar	MICRON Absolute	RATED FLOW lpm	LIST
HPM281F10XNR	AP 361.02	1/2" BSPP	420	10	35	\$ 425.00
HPM421F10XNR	AP 362.02	3/4" BSPP	420	10	80	\$ 605.00
HPM422F10XNR1	AP 363.02	1" BSPP	420	10	135	\$ 695.00
HPM622F03XNR12	AP 364.02	1 1/4" SAE	420	3	206	\$ 1250.00

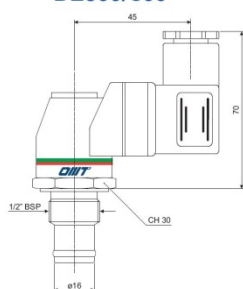
ELEMENTS

OMT MODEL	DONALDSON EQUIV	TO SUIT	MICRON Absolute	RATED FLOW lpm	LIST
CHP281F06XN	HP 451.52	HPM281F10XNR	6	20	\$ 90.00
CHP281F10XN	HP 451.52	HPM281F10XNR	10	35	\$ 80.00
CHP421F06XN	HP 452.52	HPM421F10XNR	6	65	\$ 127.00
CHP421F10XN	HP 452.52	HPM421F10XNR	10	80	\$ 108.00
CHP422F06XN	HP 453.52	HPM422F10XNR	6	113	\$ 170.00
CHP422F10XN	HP 453.52	HPM422F10XNR	10	135	\$ 147.00
CHP622F03XN	HP 454.52	HPM622F03XNR12	3	206	\$ 415.00
PALL EQUIV					
CHP625F06XN	HC9600FKN4H	-	6	-	\$ 186.00
CHP625F10XN	HC9600FKS4H	-	10	-	\$ 156.00
CHP626F06XN	HC9600FKN8H	-	6	-	\$ 295.00
CHP626F10XN	HC9600FKS8H	-	10	-	\$ 250.00

HPM SERIES – INDICATORS

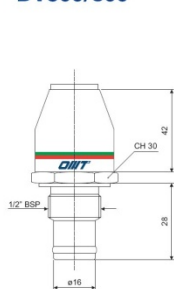
OMT MODEL	DESCRIPTION	LIST
DV500	Visual differential indicator 5 bar	\$ 150.00
DE500	Electric visual differential indicator/switch 5 bar	\$ 190.00

DE500/800



INDICATORE VISIVO-ELETTICO
ELECTRICAL VISUAL INDICATOR

DV500/800



INDICATORE VISIVO
VISUAL INDICATOR

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FILTRATION – SUCTION

SUCTION FILTERS – OMT

SF SERIES

- Cast aluminium body with reinforced wire mesh - 90 micron absolute. Recommended flow rates are for CLEAN filters.
- Select a filter with a flow greater than max. operating flow.



OMT MODEL	DONALDSON EQUIV	PORT BSPP	DIMENSIONS mm	RATED FLOW lpm	LIST
SF64A-12-GR90	FIOA 35	1/2"	Ø 64 x 109 deep	22	\$ 30.00
SF64A-34-GR90	FIOA 50	3/4"	Ø 64 x 139 deep	56	\$ 30.00
SF86A-100-GR90	FIOA 85	1"	Ø 86 x 139 deep	100	\$ 45.00
SF86B-114-GR90	FIOA 130	1 1/4"	Ø 86 x 139 deep	140	\$ 50.00
SF150A-112-GR90	FIOA 175	1 1/2"	Ø 150 x 151 deep	200	\$ 95.00
SF150A-200-GR90	FIOA 230	2"	Ø 150 x 200 deep	340	\$ 95.00
SF150B-200-GR90	FIOA 360	2"	Ø 150 x 212 deep	400	\$ 105.00

FILTRATION – ACCESSORIES

TANK BREATHERS – OMT

- Chrome plated steel breather with galvanised male thread and 10 micron filter element.



OMT MODEL	DONALDSON EQUIV	PORT BSPP	DIMENSIONS mm	LIST
TRM-1-14S1	-	1/4"	Ø 47 x 37.5 high	\$ 20.00
TRM-1-38S1	FS-6	3/8"	Ø 47 x 37.5 high	\$ 25.00
TRM-2-12S1	FS-7	1/2"	Ø 75 x 46 high	\$ 30.00
TRM-2-34S1	-	3/4"	Ø 75 x 46 high	\$ 40.00
TRM-2-100S1	FS-8	1"	Ø 75 x 46 high	\$ 45.00

FILLER BREATHERS – OMT

- 10 micron air filter. Predrilled flanges and gasket supplied.



OMT MODEL	DONALDSON EQUIV	TYPE	CAP DIAMETER mm	OVERALL LENGTH mm	LIST
TR-1S1	TCO 300	No basket	47	101	\$ 30.00
TR-2S1E	TCO 500	Extractable Basket	75	149	\$ 40.00
TRV3-035S1	TCO 500V	0.35 bar press relief extractable basket	75	197	\$ 75.00
TRC-3S1	-	Lockable with extractable basket	75	204	\$ 70.00

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CONTENTS SECTION I – FLUID ACCESSORIES

I1	Oil Coolers	
11	Air-Oil Coolers	<i>Emmegi</i>
12	Water-Oil Coolers	<i>Emmegi</i>
I3	Accumulators	
13	Bladder Accumulators	<i>EPE</i>
14	Diaphragm Accumulators	<i>EPE</i>
I5	Hydraulic Remote Controllers	
15	PRSVF Foot Series	<i>David Brown</i>
15	PRSVS/M Modular Series	<i>David Brown</i>
15	HPV Dual Axis Series	<i>David Brown</i>
I6	Indicators / Gauges / Switches / Fittings	
16	Filter Gauges	<i>OMT</i>
17	Sight Level Gauges	<i>OMT</i>
17	Electric Level Gauges	<i>OMT</i>
17	Pressure Switches – PS Series	<i>Northman</i>
18	Pressure / Temperature Sensors	<i>IFM</i>
18	Pressure Gauges	<i>Wika / Hyspecs</i>
19	Test Points & Hoses	<i>Stauff</i>
19	SAE Flanges	<i>OMT</i>
19	SAE Suction Flanges	<i>ASA</i>
I10	Rotary Flow Dividers	
110	2 Section RFDs	<i>Haldex</i>
110	P23 Series RFDs	<i>Delta</i>

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OIL COOLERS - AIR – EMMEGI



- For cooling hydraulic and other fluids on continuous and heavy duty mobile applications.
- Features:
 - Fluid to be cooled: - Compatible with aluminium.
 - Max. oil viscosity: - 10 – 100 cST.
 - Working pressure: - Up to 26 bar.
 - Air flow: - Suction.
 - Low pressure drops.
- Material: - Main cooler body; aluminium - Fan; steel or hard plastic - Fan protection; steel or hard plastic. Included in kit 50°C - 60°C thermostat and mounting hardware.
- Consult *Hydraulic Specialties* for IP ratings when intending to use in dusty or wet environments.

MODEL	DESCRIPTION	LIST
MG-AIR-2010KBV-12V	12 VDC, 0.08kW, 4200 rpm, noise level – 75 dBa, 35 lpm	\$ 1476.00
MG-AIR-2010KBV-24V	24 VDC, 0.08kW, 4300 rpm, noise level - 75 dBa, 35 lpm	\$ 1476.00
MG-AIR-2015KBV-12V	12 VDC, 0.09kW, 3100 rpm, noise level – 72 dBa, 80 lpm	\$ 1544.00
MG-AIR-2015KBV-24V	24 VDC, 0.10kW, 3000 rpm, noise level - 73 dBa, 80 lpm	\$ 1557.00
MG-AIR-2015KBV-230	230 VAC - single phase, 0.067kW, 2760 rpm, 80 lpm	\$ 1916.00
MG-AIR-2015KBV-400	230/400 VAC - 3 phase, 0.068kW, 2600 rpm, 80 lpm	\$ 1905.00
MG-AIR-2015KBV-56	To suit Gr.2 hydraulic motor (not included), 2500 rpm, 80 lpm	\$ 2071.00
MG-AIR-2020KBV-12V	12 VDC, 0.12kW, 3100 rpm, noise level - 67 dBa, 100 lpm	\$ 1716.00
MG-AIR-2020KBV-24V	24 VDC, 0.12kW, 3000 rpm, noise level - 67 dBa, 100 lpm	\$ 1734.00
MG-AIR-2020KBV-230	230 VAC - single phase, 0.055kW, 2650 rpm, 100 lpm	\$ 1986.00
MG-AIR-2020KBV-400	230/400 VAC - 3 phase, 0.045kW, 2850 rpm, 100 lpm	\$ 1968.00
MG-AIR-2020KBV-56	To suit Gr.2 hydraulic motor (not included), 2500 rpm, 100 lpm	\$ 2386.00
MG-AIR-2024KBV-12V	12 VDC, 0.12kW, 3000 rpm, noise level - 67 dBa, 130 lpm	\$ 2272.00
MG-AIR-2024KBV-24V	24 VDC, 0.12kW, 3000 rpm, noise level - 67 dBa, 130 lpm	\$ 2283.00
MG-AIR-2024KBV-230	230 VAC - single phase, 0.135kW, 2500 rpm, 130 lpm	\$ 2603.00
MG-AIR-2024KBV-400	230/400 VAC - 3 phase, 0.120kW, 2670 rpm, 130 lpm	\$ 2592.00
MG-AIR-2024KBV-56	To suit Gr.2 hydraulic motor (not included), 2500 rpm, 130 lpm	\$ 2912.00
MG-AIR-2040KBV-12V	12 VDC, 0.12kW, 2500 rpm, noise level - 73 dBa, 140 lpm	\$ 3593.00
MG-AIR-2040KBV-24V	24 VDC, 0.12kW, 2500 rpm, noise level - 73 dBa, 140 lpm	\$ 3964.00
MG-AIR-2040KBV-230	230 VAC - single phase, 0.320kW, 1260 rpm, 140 lpm	\$ 4376.00
MG-AIR-2040KBV-400	230/400 VAC - 3 phase, 0.290kW, 1245 rpm, 140 lpm	\$ 4359.00
MG-AIR-2040KBV-56	To suit Gr.2 hydraulic motor (not included), 2500 rpm, 140 lpm	\$ 4376.00

SPARE COMPONENTS

LIST

2M6000000	Cooler body only, 2015K bypass, 80 lpm	\$ 1099.00
2M6100000	Cooler body only, 2020K bypass, 100 lpm	\$ 1351.00
2M6200000	Cooler body only, 2024K bypass, 130 lpm	\$ 1757.00
2M6400000	Cooler body only, 2040K bypass, 140 lpm	\$ 2740.00
TM 44/A1	Fixed Thermostat 40 -28 °C	\$ 212.00
TM 45/A1	Fixed Thermostat 50 -38 °C	\$ 212.00
TM 46/A1	Fixed Thermostat 60 -48 °C	\$ 212.00
0345140	12 VDC Suction Fan/Motor, 2015/2020	\$ 636.00
0345150	12 VDC Blowing Fan/Motor, 2015/2020	\$ 636.00
0345160	24 VDC Suction Fan/Motor, 2015/2020	\$ 636.00
0345180	12 VDC Suction Fan/Motor, 2024	\$ 636.00
0345200	24 VDC Suction Fan/Motor, 2024	\$ 636.00
0345260	12 VDC Suction Fan/Motor, 2040	\$ 824.00
0345280	24 VDC Suction Fan/Motor, 2040	\$ 824.00
0345290	24 VDC Blowing Fan/Motor, 2040	\$ 824.00

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OIL COOLERS - WATER - EMMEGI

- For dissipating thermal energy in installations with hydraulic oil and other compatible fluids.
- The maximum working pressure permissible on the circuit is 12 bar. Heat dissipation is in 1, 2 or 4 passes.
- Note: Corrosive water requires the Salt Water version to be used with a fitted sacrificial anode.



MODEL	DESCRIPTION	LIST
MG-54-255-1-SW	Sea water, 1 way circuit, 50 lpm, Ø 54 mm, 1" BSP water inlet, 3/8" BSP oil inlet, 255mm oil port centres	\$ 727.00
MG-81-310-1-SW	Sea water, 1 way circuit, 120 lpm, Ø 80 mm, 1 1/2" BSP water inlet, 1 1/2" BSP oil inlet, 310mm oil port centres	\$ 1425.00
MG-81-560-1-SW	Sea water, 1 way circuit, 150 lpm, Ø 80 mm, 1 1/2" BSP water inlet, 1 1/2" BSP oil inlet, 560mm oil port centres	\$ 1871.00
MG-81-715-1-SW	Sea water, 1 way circuit, 180 lpm, Ø 80 mm, 1 1/4" BSP water inlet, 1 1/2" BSP oil inlet, 715mm oil port centres	\$ 1939.00
MG-131-285-1-SW	Sea water, 1 way circuit, 140 lpm, Ø 130 mm, 1 1/4" BSP water inlet, 1 1/2" BSP oil inlet, 285mm oil port centres	\$ 2724.00
MG-131-521-1-SW	Sea water, 1 way circuit, 280 lpm, Ø 130 mm, 1 1/4" BSP water inlet, 2" BSP oil inlet, 521mm oil port centres	\$ 3353.00
MG-131-831-2-SW	Sea water, 1 way circuit, 400 lpm, Ø 130 mm, 1 1/4" BSP water inlet, 2" BSP oil inlet, 831mm oil port centres	\$ 3959.00

- Other models and heat dissipation curves available on request.



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ACCUMULATORS - EPE

- Certified to AS1210 pressure vessel requirements.
- Accumulators offer solutions to fluid control problems.
- *Auxiliary power source/energy conservation* - Reduces the need for large pumping capacity by supplementing the output of the pump beyond its capacity during peak periods.
- *Leakage compensators* - Reduces the need for frequent pump operation by compensating for internal or external leakage when the system is pressurised but not in operation for prolonged periods.
- *Thermal expansion compensators* - Prevents damage to circuit components and piping in a closed loop system when temperature variations cause expansion or contraction to the fluid volume by taking up any change in volume.
- *Emergency power source* - Makes the hydraulic system failsafe in the event of pump or electric motor failure by actuating or retracting a cylinder to a safe position hereby preventing damage or injury.
- *Fluid make-up device* - In a closed loop system, it is necessary to provide a source of fluid to make-up the difference in fluid volume between the rod end and the blind end of a cylinder.
- *Hydraulic shock absorber* - By absorbing the shock in a system preventing pipe line failure, loosened fittings, and damaged components.
- *Holding device* - Saves power, reduces pump wear, prevents oil overheating by maintaining high pressure in a cylinder for long periods of time allowing the pump to be unloaded or shut down.

BLADDER ACCUMULATORS



<u>MODEL</u>	<u>DESCRIPTION</u>	<u>MEAN FLOW</u> <i>lpm</i>	<u>MAX. PRESS</u> <i>bar</i>	<u>LIST</u>
AS0.2P330CG0	0.2 Litre, 1/2" BSPP	70	330	\$ 407.00
AS0.7P360CG0	0.7 Litre, 3/4" BSPP	150	360	\$ 584.00
AS1P360CG2	1.0 Litre, 3/4" BSPP	150	360	\$ 795.00
AS1.5P360CG2	1.5 Litre, 3/4" BSPP	150	360	\$ 1019.00
AS3P360CG2	3.0 Litre, 1 1/4" BSPP	300	360	\$ 1614.00
AS5P360CG2	5.0 Litre, 1 1/4" BSPP	300	360	\$ 2077.00
AS10P360CG2	10.0 Litre, 2" BSPP	500	360	\$ 2511.00
AS15P330CG2	15.0 Litre, 2" BSPP	500	330	\$ 2724.00
AS20P330CG2	20.0 Litre, 2" BSPP	500	330	\$ 3610.00
AS35P350CG2	35.0 Litre, 2" BSPP	500	330	\$ 3000.00

SPARE COMPONENTS

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>LIST</u>
S0.2P1	0.2 Litre Bladder Kit	\$ 293.00
S0.7P1	0.7 Litre Bladder Kit	\$ 361.00
S1P1	1.0 Litre Bladder Kit	\$ 452.00
S1.5P1	1.5 Litre Bladder Kit	\$ 475.00
S3P1	3.0 Litre Bladder Kit	\$ 498.00
S5P1	5.0 Litre Bladder Kit	\$ 445.00
S10P1	10.0 Litre Bladder Kit	\$ 565.00
S15P1	15.0 Litre Bladder Kit	\$ 681.00
S20P1	20.0 Litre Bladder Kit	\$ 910.00
B20FB315GRP	Manual accumulator unloading / safety valve 3/4"	\$ 1379.00
HS9551AS + SV08-21	Solenoid ventable manifold assembly for above valve (coil not included)	\$ 302.00
10157	Clamp for AS1- 3.0 litre bladder accumulators	\$ 159.00
10250	Clamp for AS5 litre bladder accumulator	\$ 150.00
10410	Clamp for AS10-55 litre bladder accumulators	\$ 161.00

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ACCUMULATORS - EPE



DIAPHRAGM ACCUMULATORS

MODEL	DESCRIPTION	MAX. PRESS <i>bar</i>	LIST
AMM0.35P210CM0	0.35 Litre, M18x1.5	210	\$ 172.00
AMM0.35P210CG0	0.35 Litre, 1/2" BSPP	210	\$ 218.00
AM0.5P210CM0	0.50 Litre, M18x1.5	210	\$ 252.00
AM0.5P210CG0	0.50 Litre, 1/2" BSPP	210	\$ 286.00
AM0.75P210CM0	0.75 Litre, M18x1.5	210	\$ 293.00
AM0.75P210CG0	0.75 Litre, 1/2" BSPP	210	\$ 321.00
AM1.5P210CM8	1.50 Litre, M18x1.5	210	\$ 567.00
AM1.5P210CG2	1.50 Litre, 3/4" BSPP	210	\$ 652.00
AM2.5P210CM8	2.50 Litre, M18x1.5	210	\$ 870.00
AM2.5P210CG2	2.50 Litre, 3/4" BSPP	210	\$ 904.00

SPARE COMPONENTS

MODEL	DESCRIPTION	LIST
10096/P	0.35 Litre Diaphragm Kit	\$ 100.00
10097/P	0.50 Litre Diaphragm Kit	\$ 109.00
10098/P	0.75 Litre Diaphragm Kit	\$ 132.00
10198/P	1.50 Litre Diaphragm Kit	\$ 345.00
10199/P	2.50 Litre Diaphragm Kit	\$ 440.00
10296/P	4.00 Litre Diaphragm Kit	\$ 527.00
PC250G	Accumulator charge kit, includes charging valve, pressure gauge and gas hose, 5/8" UNF	\$ 795.00
PC250S1	Charge kit, includes charging valve, pressure gauge and gas hose, 5/8" UNF-W21.7x14	\$ 795.00
PCM250/60G	Accumulator charge kit, includes charging valve, pressure gauge and gas hose, M28 x 1.5	\$ 858.00

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E-mail: hyspecs@hyspecs.co.nz

HYDRAULIC REMOTE CONTROLLERS – DAVID BROWN

- David Brown remote hydraulic controllers allow users to remotely control pilot operated valves and pilot operated pump servos.
- Working on pressure reducing principles, David Brown hydraulic remote controllers can be configured to a pressure control range to suit the majority of applications. Pressure range settings are field convertible. *Consult Hydraulic Specialties* for the range of control springs available and metering curve information.
- Remote controllers can be configured with ancillary electrical control options to combine a machine's control interface into a single compact package



PRSPV - SINGLE AND DUAL PROPORTIONAL HYDRAULIC CONTROLLERS - FOOT OPERATED

MODEL	DESCRIPTION	CONTROL PRESS bar	FLOW lpm	MAX. PRESS bar	LIST
PRSPV01S015G1	Rocker pedal	5.8 to 22	5 to 20	50	\$ 722.00
PRSPV01V015SG1	V shaped pedal	5.8 to 22	5 to 20	50	\$ 722.00
PRSPV03S015G1	Single pedal	5.8 to 22	5 to 20	50	\$ 458.00



PRSVS - SINGLE AXIS PROPORTIONAL HYDRAULIC CONTROLLER – LEVER OPERATED

MODEL	DESCRIPTION	CONTROL PRESS bar	FLOW lpm	MAX. PRESS bar	LIST
PRSVS01L015F0	Single, Plain handle	5.8 to 22	5 to 20	50	\$ 567.00

PR SVM - MODULAR SINGLE AXIS PROPORTIONAL HYDRAULIC CONTROLLER – LEVER OPERATED

MODEL	DESCRIPTION	CONTROL PRESS bar	FLOW lpm	MAX. PRESS bar	LIST
PR SVM01L015F0	Single, Plain handle	5.8 to 22	5 to 20	50	\$ 509.00
PR SVM06L015F0	Single, Friction detent, Plain handle	5.8 to 22	5 to 20	50	\$ 1208.00
PR SVM01L015F0-2	Dual, Plain handle	5.8 to 22	5 to 20	50	\$ 961.00
PR SVM01L015F0-3	Triple, Plain handle	5.8 to 22	5 to 20	50	\$ 1533.00



HPV - DUAL AXIS PROPORTIONAL HYDRAULIC CONTROLLER – SINGLE LEVER OPERATED

MODEL	DESCRIPTION	CONTROL PRESS bar	FLOW lpm	MAX. PRESS bar	LIST
HPV1C01A015R0	Plain handle, Bottom ports	5.8 to 22	5 to 20	50	\$ 904.00

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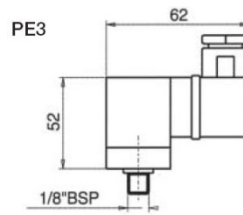
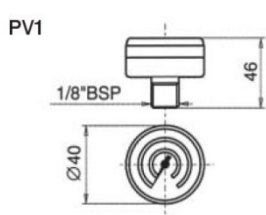
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INDICATORS / GAUGES / SWITCHES / FITTINGS

FILTER GAUGES - OMT

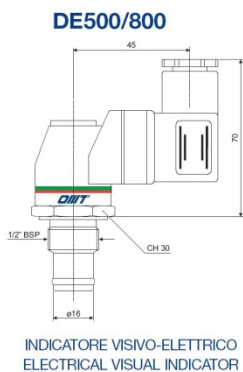
OMTI SERIES – INDICATORS

OMT MODEL	DESCRIPTION	LIST
PV1	Gauge with pressure range from 0 to 12 bar	\$ 30.00
DV130	Differential visual indicator calibrated at 1.3 bar ± 10% (to be mounted only on T20"-I" head)	\$ 150.00
PE3	Membrane pressure switch with pressure setting 1.3 bar ± 10%	\$ 300.00



HPM SERIES – INDICATORS

OMT MODEL	DESCRIPTION	LIST
DV500	Visual differential indicator 5 bar	\$ 150.00
DE500	Electric visual differential indicator/switch 5 bar	\$ 190.00



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INDICATORS / GAUGES / SWITCHES / FITTINGS

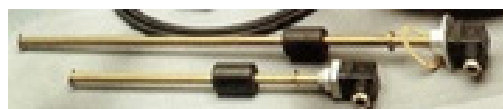
SIGHT LEVEL/TEMP GAUGES - OMT



OMT MODEL	DONALDSON EQUIV	DESCRIPTION	LIST
LT1TP-M10	LVO 76/10	76 mm bolt centres, level and temperature	\$ 30.00
LT2TP-M12	LVOT 127/10	127 mm bolt centres, level and temperature	\$ 40.00

ELECTRIC LEVEL GAUGES - OMT

- Mounted vertically this device gives an electric signal when the minimum and/or maximum oil level is reached inside the oil tank.



MODEL	SPECIFICATION	DESCRIPTION	LIST
LM1F-250	-10 to +80 °C, 60 W max switching power, 220 V max, normally open switch	Electric level gauge, 250 mm	\$ 184.00
LM1F-350		Electric level gauge, 350 mm	\$ 189.00
LM1F-500		Electric level gauge, 500 mm	\$ 207.00
LV2E		Visual & electric level gauge, 127mm	\$ 184.00
LV3E		Visual & electric level gauge, 254mm	\$ 218.00

PRESSURE SWITCHES – NORTHMAN

- Repetition accuracy: - Within 1% of max. pressure.
 Differential press. (ΔP): - Within 5% of max. pressure.
 Temperature range: - 50°C to +80°C
 Mounting: - Any position.
 Porting: - 1/4" BSP female.



MODEL	WORKING PRESS. RANGE <i>bar</i>	PORT <i>BSP</i>	LIST
PS-70-20	10 to 70	1/4"	\$ 384.00
PS-150-20	30 to 150	1/4"	\$ 384.00
PS-230-20	50 to 230	1/4"	\$ 384.00
PS-420-20	90 to 420	1/4"	\$ 384.00

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INDICATORS / GAUGES / SWITCHES / FITTINGS

PRESSURE / TEMPERATURE SENSORS – IFM

- Manufactured in Germany these sensors all feature G1/4"BSPP male threads with seal. Electrical connection is the M12 industrial standard. For customers who are not using their own M12 wiring loom we stock a 90 degree wireable socket.



MODEL	DESCRIPTION	LIST
PK6521	Pressure switch, 13-250 bar, normally open or closed switch	\$ 445.00
PK6520	Pressure switch, 20-400 bar, normally open or closed switch	\$ 445.00
PT3551	Pressure Transducer, 0-250 bar, 4...20mA analogue output	\$ 331.00
PT3550	Pressure Transducer, 0-400 bar, 4...20mA analogue output	\$ 331.00
TK6130	Temperature switch 16-140 degrees Celsius, normally open or closed	\$ 328.00
E11509	M12 Wireable socket 90 degrees	\$ 73.00
E30094	Protective cover	\$ 50.00

**PRESSURE GAUGES – Ø 63MM STAINLESS STEEL, BRASS INTERNALS
WIKA / HYSPECS**



MODEL	PORT LOCATION	MAX. PRESS. <i>bar</i>	NETT
WG7090	Bottom entry	10	\$ 40.00
IW21238	Bottom entry	40	\$ 40.00
WG7140	Rear entry	40	\$ 40.00
WG7160	Bottom entry	100	\$ 35.00
WG7165	Rear entry	100	\$ 40.00
IW20979	Rear entry	207	\$ 40.00
IW20723	Bottom entry	250	\$ 40.00
IW20722	Rear entry	250	\$ 40.00
IW21076	Bottom entry	400	\$ 40.00
IW21171	Rear entry	400	\$ 40.00
WG7250	Bottom entry	700	\$ 50.00
WG7255	Rear entry	700	\$ 50.00

CONFIGURATION OPTIONS

LIST ADDER

WG6999	Panel ring for rear panel mount	\$ 8.00
SPG63-BRACKET	Bracket - 63mm gauge panel mount	\$ 9.00

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INDICATORS / GAUGES / SWITCHES / FITTINGS

TEST POINTS AND HOSES – STAUFF



MODEL	DESCRIPTION	PRESSURE <i>bar</i>	LIST
SMS20M1/4-600A	Stauff test hose 600 mm	620	\$ 41.00
SMS20M1/4-1000A	Stauff test hose 1000 mm	620	\$ 46.00
SMS20M1/4-1500A	Stauff test hose 1500 mm	620	\$ 52.00
SMS20M1/4-2000A	Stauff test hose 2000 mm	620	\$ 58.00
SMK20G1/4PC	Stauff 1/4" BSPP Test Point	620	\$ 31.00
SMK20G3/8PC	Stauff 3/8" BSPP Test Point	620	\$ 31.00
SMK207/16UNFPE	Stauff 7/16"-20 Test Point	620	\$ 31.00
SMK209/16UNFPE	Stauff 9/16"-20 Test Point	620	\$ 31.00
SMA20G1/4P-OR	1/4" BSP Gauge to hose adaptor	620	\$ 28.00

SAE FLANGES – OMT



MODEL	DESCRIPTION	WORKING PRESSURE <i>bar</i>	LIST
F100G034-M	Code 61 – 3/4" BSPP	207	\$ 52.00
F102G100-M	Code 61 – 1" BSPP	207	\$ 55.00
F104G114-M	Code 61 – 1 1/4" BSPP	207	\$ 65.00
F106G112-M	Code 61 – 1 1/2" BSPP	207	\$ 83.00
F108G200-M	Code 61 – 2" BSPP	207	\$ 97.00

SAE SUCTION FLANGES – ASA

The suction unit (pump side) is screwed to the adaptor flange, which is welded to the tank.



MODEL	DESCRIPTION	LIST
SDKSS040	Rubber compensator 1 1/2"	\$ 521.00
SDKSS050	Rubber compensator 2"	\$ 595.00
SDKSS063	Rubber compensator 2 1/2"	\$ 641.00
SDKSS080	Rubber compensator 3"	\$ 704.00
SDA00050W	Suction butterfly valve 2"	\$ 779.00
SDA00063W	Suction butterfly valve 2 1/2"	\$ 836.00
SDA00080W	Suction butterfly valve 3"	\$ 979.00
SDAET063	Weld adaptor flange 2" and 2 1/2"	\$ 212.00
SDAET080	Weld adaptor flange 3"	\$ 270.00
EAFSM	Mechanical limit switch	\$ 189.00
EAFSI	Inductive limit switch	\$ 246.00
SDAERASTBE	Locking pin	\$ 86.00

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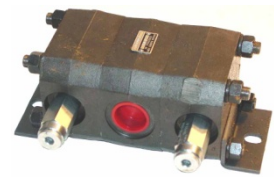
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ROTARY FLOW DIVIDERS

- Rotary flow dividers provide many useful functions from a single pump source.
- Synchronised operation of multiple cylinders or fluid motors.
- Proportional division of pump output among several circuits.
- Intensified flow pressure when pressure higher than pump capacity is needed.
- In a rotary flow divider, horsepower-in is equal to horsepower-out with very small efficiency losses. Consequently it does not generate heat. The rotary gear flow divider consists of 2 or more gear sections connected by a common shaft. Using a common inlet port, each section has its own outlet port. Because the gear sections are connected by a common shaft, the rotation speed is the same for each gear and the flow division is exactly proportional to the displacement of each of the sections.
- Pressure intensification is a phenomenon that is inherent in all flow divider circuits. Whenever the pressure requirement in a section is greater than another section, the pressure differential between the sections will appear in the higher pressure section as an additive to the inlet pressure. For this reason a system relief valve should be used on the inlet side.
- The gears are unrestricted in the direction they turn, therefore flow dividers can be used to combine the separate flows into a single flow which is equal to the sum of the various inputs.



2 SECTION - ROTARY FLOW DIVIDERS - HALDEX

MODEL	DISP. <i>cc/rev</i>	REC. MIN. FLOW <i>lpm</i>	REC. MAX. FLOW <i>lpm</i>	MAX. PRESS. <i>bar</i>	CONT ΔP BETWEEN SECTIONS <i>bar</i>	LIST
1300322	5.70	11.4	22.7	207	190	\$ 2202.00
1300315	9.52	18.9	37.8	207	138	\$ 2202.00
1300352	13.32	26.5	52.9	207	83	\$ 2329.00

N.B. - Models are stocked as 2 equal sections and include relief valve set at 52 bar differential.
 - Recommended flow rates are per section of the flow divider.



ROTARY FLOW DIVIDERS - DELTA

- Equal flow, multi-section flow dividers.

MODEL	NUMBER SECTIONS	DISP. / SECTION <i>cc/rev</i>	MAX. FLOW INPUT <i>lpm</i>	MAX. PRESS. <i>bar</i>	LIST
P23-60	3	11.70	119	103	\$ 2815.00
P23-58	5	11.70	199	103	\$ 3975.00
P23-56	7	11.70	280	103	\$ 5938.00

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CONTENTS SECTION J – DRIVE ACCESSORIES**J1 Planetary Drives**

J1	Comer PG Series Introduction	<i>Comer</i>
J2	PG 100 Series	<i>Comer</i>
J3	PG 160 Series	<i>Comer</i>
J4	PG 250 Series	<i>Comer</i>
J5	PG 500 Series	<i>Comer</i>
J6	PG 700 Series	<i>Comer</i>
J7	PG 1000 Series	<i>Comer</i>
J8	PG 1600 Series	<i>Comer</i>
J9	PG 1800 Series	<i>Comer</i>
J10	PG 2500 Series	<i>Comer</i>
J11	Fairfield Shaft Type Series	<i>Fairfield</i>

J12 P.T.O Gear Boxes

J12	ML Series	<i>Hydr-App</i>
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J13 Electromagnetic Clutches

J13	IE Series	<i>Hydr-App</i>
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J13 Over-hung Load Adaptors

J13	SU Series	<i>Hydr-App</i>
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J14 Failsafe Brakes

J14	FBH Series	<i>Fairfield</i>
J14	Failsafe Type	<i>Ausco</i>
J14	Failsafe Type	<i>MICO</i>

J15 Spline Billets & Shafts

J15	Hubs	<i>Hub City</i>
J15	Shafts	<i>Hub City</i>
J15	Reducing Bushes	<i>Hub City</i>

J16 Flexible Couplings / Bell Housings / Damping

J16	ND Aluminium Series	<i>OMT</i>
J16	POL Steel Series	<i>OMT</i>
J17	Bell Housings	<i>OMT</i>
J18	Bell Housings/Couplings for Petrol Engines	<i>OMT</i>
J18	Damping Rings for Power Packs	<i>OMT</i>
J19	Damping Rods for Foot Flange Motors	<i>OMT</i>
J19	Foot Flanges	<i>OMT</i>

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PLANETARY DRIVES – COMER INDUSTRIES PG SERIES INTRODUCTION

- Compact modular gearbox, fully reversible, final drive system built specifically for high torque, low speed Geroter / Geroler motors. Piston and gear motors with SAE mountings can be used for applications needing high speed and low torque.
- Available in shaft, spindle, shrink disc and wheel outputs.
- Models shown are stocked items. Different mount, shaft and ratio options are available on request. Please contact Hydraulic Specialties.

TECHNICAL DEFINITIONS

REDUCTION RATIO i

The ratio resulting from input speed n^1 and output speed of the gearbox n^2 .

$$i = \frac{n^1}{n^2}$$



CONTINUOUS INPUT SPEED n^1 cont. (rpm)

Maximum continuous speed permitted.

DESIGN LIFE $n^2 \times h$ (rpm x hours)

The product of the output speed from the gearbox n^2 measured in rpm multiplied by the working life measured in hours h . From this product an indication of the theoretical number of cycles performed by the gearbox in relation to the expected life of the gearbox can be obtained.

SERVICE FACTOR fs

The coefficient used to calculate the correct selection of gearbox in relation to the severity of application and working conditions to be undertaken.

DURATION FACTOR fh

The coefficient used to calculate the correct selection of gearbox in relation to the design life.

ACTUAL TORQUE Me (Nm)

The average torque absorbed by the gearbox output shaft. A histogram is provided in the catalogue to assist you in calculating the average torque when several torque loads are present.

CONTINUOUS TORQUE Mc (Nm) ISO6336

The value of the output torque that can be transmitted continuously by the gearbox calculated according to ISO DP 6336. For each reduction size and ratio the diagrams indicate the transmitted value in relation to the requested life time $n^2 \times h$. Values stated in the diagrams are valid for a Service Factor (fs) of 1.

MAXIMUM OR PEAK TORQUE $Mmax$ (Nm)

The maximum output torque that can be transmitted by the gearbox without causing damage or permanent deformation to the internal components and structure. This value should not be exceeded and must be considered as the maximum instant output torque due to working or start up peaks. It cannot be considered as the continuous working torque.

THERMAL RATING Pt (kW)

The value of maximum power that the gearbox can transmit continuously with normal splash lubrication, a maximum oil temperature of 90°C, horizontal mounted position, and an ambient temperature of 20°C. For values of higher continuous power or when a cooler operating temperature is desired it is necessary to cool the lubricating oil and circulate it through the gearbox. A cooler and circulating pump can be supplied upon request.

PERMITTED TEMPERATURE (°C)

Standard gearboxes are suitable for operation in temperatures between -20°C and +90°C. For temperatures outside the aforementioned range it is necessary to fit special seals which can be supplied upon request.

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PLANETARY DRIVES – COMER INDUSTRIES



PG 100 Series

MODEL	RATIO RANGE	MAX. CONT. INPUT SPEED <i>RPM</i>	MAX. CONT. OUPUT TORQUE* <i>Nm</i>	THERMAL RATING <i>kW</i>
PG 101	3.55:1 – 8.67:1	2800	1110	12
PG 102	12.6:1 – 45.5:1	2800	1110	8
PG 103	58.5:1 – 394.8:1	2800	1110	5
PG 104	337.3:1 – 3422.1:1	2800	1110	1.5

* Max continuous output torque may go up or down dependant on ratios used and service life required.

HOW TO ORDER PLEASE CONTACT HYDRAULIC SPECIALTIES FOR PRICING

PG10	1 STAGES	2 OUTPUT	RATIO	3 INPUT	4 MOUNT	5 BRAKE	6 BEVEL
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To get the model code add 1 + 2 + 3 + 4 + 5 + 6
e.g. PG101PC3.55SAEA-2B13TH (no brake or bevel)

1. STAGES

STAGES	CODE
1 STAGE	1
2 STAGES	2
3 STAGES	3
4 STAGES	4

2. OUTPUT ADDER

OUTPUT	CODE
Male keyed	PC
Male splined	PS
Foot mount	CPC
Fem. shrink disc	FS
Male keyed	MC
Male splined	MS

3. INPUT ADDER*

	CODE
* When ordering input please specify the female shaft type needed. e.g. SAEC14T Splined and worm box input options available – contact Hydraulic Specialties	SAEA-2B
	SAEA-4B
	SAEB
	SAEC
	D71
	D80
	D90
	D100
	D132
	D160
	D180
	EL28
	EL42
EML42	
EM65	

4. MOUNT ADDER

MOUNT	CODE
Horizontal	H
Vertical - Shaft down	V1
Vertical - Shaft up	V2

5. BRAKE ADDER

MODEL	CODE
Light series	RA
Heavy series	RB

6. BEVEL INPUT ADDER (Type PGA)

CODE & DESCRIPTION
4745.003.000, 2.93:1, male input
4745.002.000, 2.93:1, flange input
4713.500.000, 3.5:1, flange input
4713.501.000, 5.44:1, flange input

ACCESSORIES * For torque arm & shrink disc pricing please contact Hydraulic Specialties.

1703.179.042	Splined Rod KB 100 - 160
1710.100.076	Splined Bushing BS 100 - 160 M-P
1710.102.025	Side Connection Flange FL 100 - 160 M-P
5701.034.000	Stop Bottom Plate FF 100 - 160 M-P

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PLANETARY DRIVES – COMER INDUSTRIES



PG 160 Series

MODEL	RATIO RANGE	MAX. CONT. INPUT SPEED <i>RPM</i>	MAX. CONT. OUTPUT TORQUE* <i>Nm</i>	THERMAL RATING <i>kW</i>
PG 161	3.55:1 – 6.75:1	2800	1700	12
PG 162	12.6:1 – 58.5:1	2800	1700	8
PG 163	54.1:1 – 394.8:1	2800	1700	5
PG 164	337.3:1 – 3422.1:1	2800	1700	1.5

* Max continuous output torque may go up or down dependant on ratios used and service life required.

HOW TO ORDER

PLEASE CONTACT HYDRAULIC SPECIALTIES FOR PRICING

PG16	1 STAGES	2 OUTPUT	RATIO	3 INPUT	4 MOUNT	5 BRAKE	6 BEVEL
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To get the model code add 1 + 2 + 3 + 4 + 5 + 6

e.g. PG161PC3.55SAEA-2B13TH (no brake or bevel)

1. STAGES

STAGES	CODE
1 STAGE	1
2 STAGES	2
3 STAGES	3
4 STAGES	4

2. OUTPUT ADDER

OUTPUT	CODE
Male keyed	PC
Male splined	PS
Foot mount	CPC
Fem. shrink disc	FS
Male keyed	MC
Male splined	MS

3. INPUT ADDER*

	CODE
	SAEA-2B
	SAEA-4B
	SAEB
	SAEC
	D71
	D80
	D90
	D100
	D132
	D160
	D180
	EL28
	EL42
	EML42
	EM65

* When ordering input please specify the female shaft type needed.
e.g. SAEC14T

Splined and worm box input options available – contact Hydraulic Specialties

4. MOUNT ADDER

MOUNT	CODE
Horizontal	H
Vertical - Shaft down	V1
Vertical - Shaft up	V2

5. BRAKE ADDER

MODEL	CODE
Light series	RA
Heavy series	RB

6. BEVEL INPUT ADDER (Type PGA)

CODE & DESCRIPTION
4745.003.000, 2.93:1, male input
4745.002.000, 2.93:1, flange input
4713.500.000, 3.5:1, flange input
4713.501.000, 5.44:1, flange input

ACCESSORIES

* For torque arm & shrink disc pricing please contact Hydraulic Specialties.

1703.179.042	Splined Rod KB 100 - 160
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1710.102.025	Side Connection Flange FL 100 - 160 M-P
5701.034.000	Stop Bottom Plate FF 100 - 160 M-P

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PLANETARY DRIVES – COMER INDUSTRIES

PG 250 Series



MODEL	RATIO RANGE	MAX. CONT. INPUT SPEED RPM	MAX. CONT. OUPUT TORQUE* Nm	THERMAL RATING kW
PG 251	3.77:1 – 7.25:1	2800	3520	20
PG 252	13.4:1 – 62.8:1	2800	3520	12
PG 253	52.1:1 – 424.1:1	2800	3520	8
PG 254	351.9:1 – 2369.2:1:1	2800	3520	4

* Max continuous output torque may go up or down dependant on ratios used and service life required.

HOW TO ORDER PLEASE CONTACT HYDRAULIC SPECIALTIES FOR PRICING

PG25	1 STAGES	2 OUTPUT	RATIO	3 INPUT	4 MOUNT	5 BRAKE	6 BEVEL
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To get the model code add 1 +2 + 3 + 4 + 5 + 6
e.g. PG251PC3.77SAEA-2B13TH (no brake or bevel)

1. STAGES

STAGES	CODE
1 STAGE	1
2 STAGES	2
3 STAGES	3
4 STAGES	4

2. OUTPUT ADDER

OUTPUT	CODE
Male keyed	PC
Male splined	PS
Foot mount	CPC
Fem. shrink disc	FS
Male keyed	MC
Male splined	MS

3. INPUT ADDER*

	CODE
* When ordering input please specify the female shaft type needed. e.g. SAEC14T Splined and worm box input options available – contact Hydraulic Specialties	SAEA-2B
	SAEA-4B
	SAEB
	SAEC
	D71
	D80
	D90
	D100
	D132
	D160
	D180
	EL28
	EL42
EML42	
EM65	

4. MOUNT ADDER

MOUNT	CODE
Horizontal	H
Vertical - Shaft down	V1
Vertical - Shaft up	V2

5. BRAKE ADDER

MODEL	CODE
Light series	RA
Heavy series	RB

6. BEVEL INPUT ADDER (Type PGA)

CODE & DESCRIPTION
4745.003.000, 2.93:1, male input
4745.002.000, 2.93:1, flange input
4713.500.000, 3.5:1, flange input
4713.501.000, 5.44:1, flange input

ACCESSORIES

* For torque arm & shrink disc pricing please contact Hydraulic Specialties.

1703.181.042	Splined Rod KB 250 - 500
1712.101.076	Splined Bushing BS 250 - 500 M
1714.101.076	Splined Bushing BS 250 - 500 P
1712.103.025	Side Connection Flange FL 250 - 500 M
1714.103.098	Side Connection Flange FL 250 - 500 P
5701.015.000	Stop Bottom Plate FF 250 - 500 M-P

Price List 2011



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PLANETARY DRIVES – COMER INDUSTRIES



PG 500 Series

MODEL	RATIO RANGE	MAX. CONT. INPUT SPEED <i>RPM</i>	MAX. CONT. OUTPUT TORQUE* <i>Nm</i>	THERMAL RATING <i>kW</i>
PG 501	3.77:1 – 7.25:1	2800	5110	20
PG 502	13.4:1 – 48.9:1	2800	5110	15
PG 503	52.1:1 – 330.3:1	2800	5110	10
PG 504	351.9:1 – 1845.2:1	2800	5110	6

* Max continuous output torque may go up or down dependant on ratios used and service life required.

HOW TO ORDER

PLEASE CONTACT HYDRAULIC SPECIALTIES FOR PRICING

PG50	1 STAGES	2 OUTPUT	RATIO	3 INPUT	4 MOUNT	5 BRAKE	6 BEVEL
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To get the model code add 1 + 2 + 3 + 4 + 5 + 6
e.g. PG501PC3.77SAEA-2B13TV1 (no brake or bevel)

1. STAGES

STAGES	CODE
1 STAGE	1
2 STAGES	2
3 STAGES	3
4 STAGES	4

2. OUTPUT ADDER

OUTPUT	CODE
Male keyed	PC
Male splined	PS
Foot mount	CPC
Fem. shrink disc	FS
Male keyed	MC
Male splined	MS

3. INPUT ADDER*

	CODE
* When ordering input please specify the female shaft type needed. e.g. SAEC14T Splined and worm box input options available – contact Hydraulic Specialties	SAEA-2B
	SAEA-4B
	SAEB
	SAEC
	D71
	D80
	D90
	D100
	D132
	D160
	D180
	EL28
	EL42
EML42	
EM65	

4. MOUNT ADDER

MOUNT	CODE
Horizontal	H
Vertical - Shaft down	V1
Vertical - Shaft up	V2

5. BRAKE ADDER

MODEL	CODE
Light series	RA
Heavy series	RB

6. BEVEL INPUT ADDER (Type PGA)

CODE & DESCRIPTION
4745.003.000, 2.93:1, male input
4745.002.000, 2.93:1, flange input
4713.500.000, 3.5:1, flange input
4713.501.000, 5.44:1, flange input

ACCESSORIES

* For torque arm & shrink disc pricing please contact Hydraulic Specialties.

1703.181.042	Splined Rod KB 250 - 500
1712.101.076	Splined Bushing BS 250 - 500 M
1714.101.076	Splined Bushing BS 250 - 500 P
1712.103.025	Side Connection Flange FL 250 - 500 M
1714.103.098	Side Connection Flange FL 250 - 500 P
5701.015.000	Stop Bottom Plate FF 250 - 500 M-P

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PLANETARY DRIVES – COMER INDUSTRIES



PG 700 Series

MODEL	RATIO RANGE	MAX. CONT. INPUT SPEED RPM	MAX. CONT. OUTPUT TORQUE* Nm	THERMAL RATING kW
PG 701	3.66:1 – 7.00:1	2800	7020	30
PG 702	13.8:1 – 50.7:1	2800	7020	18
PG 703	53.7:1 – 342.5:1	2800	7020	14
PG 704	301.1:1 – 2968.8:1	2800	7020	8

* Max continuous output torque may go up or down dependant on ratios used and service life required.

HOW TO ORDER PLEASE CONTACT HYDRAULIC SPECIALTIES FOR PRICING

PG70	1 STAGES	2 OUTPUT	RATIO	3 INPUT	4 MOUNT	5 BRAKE	6 BEVEL
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To get the model code add 1 + 2 + 3 + 4 + 5 + 6
e.g. PG701PC3.66SAEA-2B13TH (no brake or bevel)

1. STAGES

STAGES	CODE
1 STAGE	1
2 STAGES	2
3 STAGES	3
4 STAGES	4

2. OUTPUT ADDER

OUTPUT	CODE
Male keyed	PC
Male splined	PS
Foot mount	CPC
Fem. shrink disc	FS
Male keyed	MC
Male splined	MS

3. INPUT ADDER*

	CODE
* When ordering input please specify the female shaft type needed. e.g. SAEC14T Splined and worm box input options available – contact Hydraulic Specialties	SAEA-2B
	SAEA-4B
	SAEB
	SAEC
	D71
	D80
	D90
	D100
	D132
	D160
	D180
	EL28
	EL42
EML42	
EM65	

4. MOUNT ADDER

MOUNT	CODE
Horizontal	H
Vertical - Shaft down	V1
Vertical - Shaft up	V2

5. BRAKE ADDER

MODEL	CODE
Light series	RA
Heavy series	RB

6. BEVEL INPUT ADDER (Type PGA)

CODE & DESCRIPTION
4745.003.000, 2.93:1, male input
4745.002.000, 2.93:1, flange input
4713.500.000, 3.5:1, flange input
4713.501.000, 5.44:1, flange input

ACCESSORIES * For torque arm & shrink disc pricing please contact Hydraulic Specialties.

1703.405.042	Splined Rod KB 700
1715.102.076	Splined Bushing BS 700
1715.108.098	Side Connection Flange FL 700
5701.012.000	Stop Bottom Plate FF 700

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PLANETARY DRIVES – COMER INDUSTRIES

PG 1000 Series



MODEL	RATIO RANGE	MAX. CONT. INPUT SPEED <i>RPM</i>	MAX. CONT. OUTPUT TORQUE* <i>Nm</i>	THERMAL RATING <i>kW</i>
PG 1001	3.55:1 – 8.66:1	2000	12210	40
PG 1002	13.4:1 – 48.9:1	2800	12210	23
PG 1003	57.5:1 – 330.3:1	2800	12210	15
PG 1004	351.9:1 – 2229.7:1	2800	12210	11

* Max continuous output torque may go up or down dependant on ratios used and service life required.

HOW TO ORDER

PLEASE CONTACT HYDRAULIC SPECIALTIES FOR PRICING

PG100	1 STAGES	2 OUTPUT	RATIO	3 INPUT	4 MOUNT	5 BRAKE	6 BEVEL
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To get the model code add 1 + 2 + 3 + 4 + 5 + 6
e.g. PG1001MC3.55SAEA-2B13TH (no brake or bevel)

1. STAGES

STAGES	CODE
1 STAGE	1
2 STAGES	2
3 STAGES	3
4 STAGES	4

2. OUTPUT ADDER

OUTPUT	CODE
Male keyed	PC
Male splined	PS
Foot mount	CPC
Fem. shrink disc	FS
Male keyed	MC
Male splined	MS

3. INPUT ADDER*

	CODE
* When ordering input please specify the female shaft type needed. e.g. SAEC14T Splined and worm box input options available – contact Hydraulic Specialties	SAEA-2B
	SAEA-4B
	SAEB
	SAEC
	D71
	D80
	D90
	D100
	D132
	D160
	D180
	EL28
	EL42
	EML42
EM65	

4. MOUNT ADDER

MOUNT	CODE
Horizontal	H
Vertical - Shaft down	V1
Vertical - Shaft up	V2

5. BRAKE ADDER

MODEL	CODE
Light series	RA
Heavy series	RB

6. BEVEL INPUT ADDER (Type PGA)

CODE & DESCRIPTION
4745.003.000, 2.93:1, male input
4745.002.000, 2.93:1, flange input
4713.500.000, 3.5:1, flange input
4713.501.000, 5.44:1, flange input

ACCESSORIES * For torque arm & shrink disc pricing please contact Hydraulic Specialties.

1703.406.042	Splined Rod KB 1000
1716.103.076	Splined Bushing BS 1000
1716.105.098	Side Connection Flange FL 1000
5701.030.000	Stop Bottom Plate FF 1000

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PLANETARY DRIVES – COMER INDUSTRIES



PG 1600 Series

MODEL	RATIO RANGE	MAX. CONT. INPUT SPEED RPM	MAX. CONT. OUTPUT TORQUE* Nm	THERMAL RATING kW
PG 1601	3.55:1 – 6.75:1	2000	18020	40
PG 1602	13.4:1 – 48.9:1	2800	18020	23
PG 1603	57.5:1 – 330.3:1	2800	18020	15
PG 1604	351.9:1 – 2229.7:1	2800	18020	11

* Max continuous output torque may go up or down dependant on ratios used and service life required.

HOW TO ORDER PLEASE CONTACT HYDRAULIC SPECIALTIES FOR PRICING

PG160	1 STAGES	2 OUTPUT	RATIO	3 INPUT	4 MOUNT	5 BRAKE	6 BEVEL
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To get the model code add 1 + 2 + 3 + 4 + 5 + 6
e.g. PG1601FS3.55SAEA-2B13TH (no brake or bevel)

1. STAGES

STAGES	CODE
1 STAGE	1
2 STAGES	2
3 STAGES	3
4 STAGES	4

2. OUTPUT ADDER

OUTPUT	CODE
Male keyed	PC
Male splined	PS
Foot mount	CPC
Fem. shrink disc	FS
Male keyed	MC
Male splined	MS

3. INPUT ADDER*

	CODE
* When ordering input please specify the female shaft type needed. e.g. SAEC14T Splined and worm box input options available – contact Hydraulic Specialties	SAEA-2B
	SAEA-4B
	SAEB
	SAEC
	D71
	D80
	D90
	D100
	D132
	D160
	D180
	EL28
	EL42
	EML42
	EM65

4. MOUNT ADDER

MOUNT	CODE
Horizontal	H
Vertical - Shaft down	V1
Vertical - Shaft up	V2

5. BRAKE ADDER

MODEL	CODE
Light series	RA
Heavy series	RB

6. BEVEL INPUT ADDER (Type PGA)

CODE & DESCRIPTION
4745.003.000, 2.93:1, male input
4745.002.000, 2.93:1, flange input
4713.500.000, 3.5:1, flange input
4713.501.000, 5.44:1, flange input

ACCESSORIES * For torque arm & shrink disc pricing please contact Hydraulic Specialties.

1703.406.042	Splined Rod KB 1600
1716.103.076	Splined Bushing BS 1600 M
1718.112.041	Splined Bushing BS 1600 P
1716.105.098	Side Connection Flange FL 1600 M
1718.104.098	Side Connection Flange FL 1600 P
5701.030.000	Stop Bottom Plate FF 1600

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PLANETARY DRIVES – COMER INDUSTRIES



PG 1800 Series

MODEL	RATIO RANGE	MAX. CONT. INPUT SPEED <i>RPM</i>	MAX. CONT. OUTPUT TORQUE* <i>Nm</i>	THERMAL RATING <i>kW</i>
PG 1802	13.0:1 – 30.0:1	2800	18020	25
PG 1803	53.8:1 – 180.2:1	2800	18020	17
PG 1804	348.6:1 – 1216.4:1	2800	18020	13

* Max continuous output torque may go up or down dependant on ratios used and service life required.

HOW TO ORDER

PLEASE CONTACT HYDRAULIC SPECIALTIES FOR PRICING

PG180	1 STAGES	2 OUTPUT	RATIO	3 INPUT	4 MOUNT	5 BRAKE	6 BEVEL
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To get the model code add 1 + 2 + 3 + 4 + 5 + 6
e.g. PG1802MC13.0SAEA-2B13TH (no brake or bevel)

1. STAGES

STAGES	CODE
2 STAGES	2
3 STAGES	3
4 STAGES	4

2. OUTPUT ADDER

OUTPUT	CODE
Male keyed	PC
Male splined	PS
Foot mount	CPC
Fem. shrink disc	FS
Male keyed	MC
Male splined	MS

3. INPUT ADDER*

	CODE
* When ordering input please specify the female shaft type needed. e.g. SAEC14T Splined and worm box input options available – contact Hydraulic Specialties	SAEA-2B
	SAEA-4B
	SAEB
	SAEC
	D71
	D80
	D90
	D100
	D132
	D160
	D180
	EL28
	EL42
	EML42
EM65	

4. MOUNT ADDER

MOUNT	CODE
Horizontal	H
Vertical - Shaft down	V1
Vertical - Shaft up	V2

5. BRAKE ADDER

MODEL	CODE
Light series	RA
Heavy series	RB

6. BEVEL INPUT ADDER (Type PGA)

CODE & DESCRIPTION
4745.003.000, 2.93:1, male input
4745.002.000, 2.93:1, flange input
4713.500.000, 3.5:1, flange input
4713.501.000, 5.44:1, flange input

ACCESSORIES

* For torque arm & shrink disc pricing please contact Hydraulic Specialties.

1703.406.042	Splined Rod KB 1800
1716.103.076	Splined Bushing BS 1800 M
1718.112.041	Splined Bushing BS 1800 P
1716.105.098	Side Connection Flange FL 1800 M
1718.104.098	Side Connection Flange FL 1800 P
5701.030.000	Stop Bottom Plate FF 1800

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PLANETARY DRIVES – COMER INDUSTRIES



PG 2500 Series

MODEL	RATIO RANGE	MAX. CONT. INPUT SPEED RPM	MAX. CONT. OUPUT TORQUE* Nm	THERMAL RATING kW
PG 2501	4.00:1 – 6.25:1	1500	30760	50
PG 2502	14.6:1 – 43.7:1	2800	30760	30
PG 2503	55.4:1 – 317.1:1	2800	30760	20
PG 2504	338.7:1 – 1773.9:1	2800	30760	15

* Max continuous output torque may go up or down dependant on ratios used and service life required.

HOW TO ORDER PLEASE CONTACT HYDRAULIC SPECIALTIES FOR PRICING

PG250	1 STAGES	2 OUTPUT	RATIO	3 INPUT	4 MOUNT	5 BRAKE	6 BEVEL
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To get the model code add 1 + 2 + 3 + 4 + 5 + 6
e.g. PG2501MC4.00SAEA-2B13TH (no brake or bevel)

1. STAGES

STAGES	CODE
1 STAGE	1
2 STAGES	2
3 STAGES	3
4 STAGES	4

2. OUTPUT ADDER

OUTPUT	CODE
Male keyed	PC
Male splined	PS
Foot mount	CPC
Fem. shrink disc	FS
Male keyed	MC
Male splined	MS

3. INPUT ADDER*

	CODE
* When ordering input please specify the female shaft type needed.	SAEA-2B
	SAEA-4B
	SAEB
	SAEC
e.g. SAEC14T	D71
	D80
** Only on PG2502 and up	D90
	D100
	D132
<i>Splined and worm box input options available – contact Hydraulic Specialties</i>	D160
	D180
	EL28
	EL42
	EML42
	EM65**

4. MOUNT ADDER

MOUNT	CODE
Horizontal	H
Vertical - Shaft down	V1
Vertical - Shaft up	V2

5. BRAKE ADDER

MODEL	CODE
Light series	RA
Heavy series	RB

6. BEVEL INPUT ADDER (Type PGA)

CODE & DESCRIPTION
4745.003.000, 2.93:1, male input
4745.002.000, 2.93:1, flange input
4713.500.000, 3.5:1, flange input
4713.501.000, 5.44:1, flange input

ACCESSORIES * For torque arm & shrink disc pricing please contact Hydraulic Specialties.

1703.407.042	Splined Rod KB 2500
1718.112.041	Splined Bushing BS 2500
1718.104.098	Side Connection Flange FL 2500
5701.042.000	Stop Bottom Plate FF 2500

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PLANETARY DRIVES - FAIRFIELD

- Compact infinitely variable, fully reversible, final drive system built specifically for high torque, low speed Geroter / Geroler motors. Piston and gear motors with SAE mountings can be used for applications needing high speed and low torque.
- Available in either shaft, spindle or wheel outputs.



SHAFT TYPE

MODEL	REDUCT. RATIO	MOUNT	INPUT SHAFT	OUTPUT SHAFT	MAX. INPUT SPEED <i>rpm</i>	OUTPUT TORQUE. <i>Nm</i>	CONT. POWER <i>kW</i>	LIST
S07A26604	4.105:1	Mod SAE 'A' 2/4 bolt	1" 6B Spline	1 1/2" Parallel	3000	845	7.5	\$ 2496.00
S1C566S4	4.17:1	Mod SAE 'A' 2/4 bolt	1" 6B Spline	2" Parallel	5000	1690	15	\$ 3660.00
S1C533S4	4.17:1	Mod SAE 'B' 2 bolt	7/8" 13T Spline	2" Parallel	5000	1690	15	\$ 3660.00
S1E1466S4	4.17:1	Mod SAE 'C' 2 bolt	1" 6B Spline	Spindle output	5000	1690	15	\$ 3700.00
S2A42621	20.86:1	Mod SAE 'A' 2/4 bolt	1" 6B Spline	3" Parallel	4000	2817	56	\$ 7130.00

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P.T.O. GEAR BOXES - HYDR-APP

- P.T.O. gearboxes provide the connection for a hydraulic pump to a low speed tractor power take off. The standard P.T.O. speed, 540 rpm, is increased by the gearbox to the optimal speed conditions for the pump. Different input speeds are accepted but the output speed should not exceed 3000 rpm.
- Minimum and maximum temperatures should not exceed -20°C and +80°C.
- Torque data listed is for continuous duty and can be increased by 25% intermittently.
- The oil level must be maintained to the proper level and should be changed after the first 35/50 hours use and thereafter at least every 12 months.



MODEL	RATIO	DESCRIPTION	OUTPUT TORQ. <i>Nm</i>	LIST
ML32-1-1/2.5	2.5:1	Group 2, 1 3/8" 6T spline input - male	58	\$ 498.00
ML32-1-1/3.5	3.5:1	Group 2, 1 3/8" 6T spline input - male	58	\$ 498.00
ML32-2-1/2.5	2.5:1	Group 2, 1 3/8" 6T spline input - female	58	\$ 498.00
ML32-2-1/3.5	3.5:1	Group 2, 1 3/8" 6T spline input - female	58	\$ 498.00
ML52-1-1/3	3:1	Group 2/3, 1 3/8" 6T spline input – male	130	\$ 624.00
ML52-1-1/3.4	3.4:1	Group 2/3, 1 3/8" 6T spline input – male	130	\$ 624.00
ML52-2-1/2	2:1	Group 2/3, 1 3/8" 6T spline input - female	130	\$ 624.00
ML52-2-1/2.6	2.6:1	Group 2/3, 1 3/8" 6T spline input - female	130	\$ 624.00
ML52-2-1/3.4	3.4:1	Group 2/3, 1 3/8" 6T spline input - female	130	\$ 624.00
ML52/B-8-1/3.4	3.4:1	Group 2/3 1 3/8" 6T spline input - female 1 3/8" 6T spline output - male	130	\$ 944.00

- **NOTE:** Spline sleeves listed below are required in addition to gearbox and pump combination.

CONFIGURATION OPTIONS

LIST

BF2	ML32 Spline sleeve - Group 2, 1 in 8 taper ID to 25 x 22 DIN	\$ 29.00
BF3/2	ML52 Spline sleeve - Group 2, 1 in 8 taper ID to 35 x 31 DIN	\$ 46.00
BF3	ML52 Spline sleeve - Group 3, 1 in 8 taper ID to 35 x 31 DIN	\$ 46.00

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ELECTROMAGNETIC CLUTCHES - HYDR-APP



MODEL	VOLTAGE VDC	DESCRIPTION	OUTPUT TORQUE Nm	LIST
IE10-2/3-12	12	Group 2/3 pump mount	100	\$ 1104.00
IE10-2/3-24	24	Group 2/3 pump mount	100	\$ 1104.00
IE13-2/3-12	12	Group 2/3 pump mount	130	\$ 1739.00
IE13-2/3-24	24	Group 2/3 pump mount	130	\$ 1739.00

- **NOTE:** Spline sleeves listed below are required in addition to clutch and pump combination.

CONFIGURATION OPTIONS

LIST

BF3/2	IE10 Spline sleeve - Group 2, 1 in 8 taper ID to 35 x 31 DIN	\$ 46.00
BF3	IE10 Spline sleeve - Group 3, 1 in 8 taper ID to 35 x 31 DIN	\$ 46.00

OVER-HUNG LOAD ADAPTERS - HYDR-APP

- These are suited to drive hydraulic pumps by belts, gears, chains and other transmissions in which heavy radial loads take place. They are directly flanged to the pump and connected by a splined coupling.
- Life time is 3500 hours at 1500 rpm.



MODEL	DESCRIPTION	LIST
SU/1-C	Group 1 pump, 18 mm parallel output shaft.	\$ 275.00
SU/1-D	Group 1 pump, 1:8 taper shaft	\$ 275.00
SU/2-C	Group 2 pump, 18 mm parallel output shaft.	\$ 309.00
SU/2-D	Group 2 pump, 1:8 taper shaft	\$ 309.00
SU/3-C	Group 3 pump, 24 mm parallel output shaft.	\$ 475.00
SU/3-D	Group 3 pump, 1:8 taper shaft	\$ 475.00

- **NOTE:** Spline sleeves listed below are required in addition to adaptor and pump combination.

CONFIGURATION OPTIONS

LIST

BF2/1-1	SU/1 Spline sleeve - Group 1, 1 in 8 taper ID to 25 x 22 DIN	\$ 23.00
BF2Z15	SU/2 Spline sleeve - Group 2, 1 in 8 taper ID to 35 x 31 DIN	\$ 35.00
BF3	SU/3 Spline sleeve - Group 3, 1 in 8 taper ID to 35 x 31 DIN	\$ 46.00

Price List 2011



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FAILSAFE BRAKES - FAIRFIELD

- The failsafe brake is spring loaded to apply the brake, and hydraulic pressure is required to release or 'hold off' the brake. Normal operation is to have the brake pressurised in the released position with the vehicle system running.
- Any function which reduces the hydraulic system pressure below the release pressure of the brake, will initiate the brake application.



MODEL	TORQUE <i>Nm</i>	MAX RELEASE PRESSURE <i>bar</i>	INT. SPLINE MOTOR END	EXT. SPLINE REDUCTION END	LIST
FBH0663336D	407	207	SAE 'A', 1" 6B	SAE 'B', 7/8" 13T	\$ 1516.00
FBH0333336D	407	207	SAE 'B', 7/8" 13T	SAE 'B', 7/8" 13T	\$ 1471.00
FBH04444100D	1129	207	SAE 'C', 1 1/4" 14T	SAE 'C', 1 1/4" 14T	\$ 2272.00

FAILSAFE BRAKES - AUSCO



MODEL	TORQUE <i>Nm</i>	MIN/MAX RELEASE PRESS. <i>bar</i>	INT. SPLINE MOTOR END	EXT. SPLINE REDUCTION END	LIST
75125	429	14 / 17	SAE 'A', 1" 6B	SAE 'B', 7/8" 13T	\$ 2531.00
75260	294	10 / 12	SAE 'B', 7/8" 13T	SAE 'B', 7/8" 13T	\$ 2429.00
37325	1017	13 / 16	SAE 'A', 1" 6B	SAE 'C', 1 1/4" 14T	\$ 3469.00
76264	373	8 / 10	SAE 'C', 1 1/4" 14T	SAE 'C', 1 1/4" 14T	\$ 3544.00

- Numerous model variations, torque and mount options available on indent. *PLEASE CONSULT HYDRAULIC SPECIALTIES.*

FAILSAFE BRAKES - MICO



MODEL	TORQUE <i>Nm</i>	MIN/MAX RELEASE PRESS. <i>bar</i>	INT. SPLINE MOTOR END	OUTPUT SHAFT	LIST
13-587-006	904	14.5 / 21.4	2k bearing less	Wheel mount 1 1/2" taper	\$ 2436.00
13-587-094	2260	34 / 46	4k bearing less	Wheel mount 1 1/2" taper	\$ 2901.00
13-587-100	2937	34 / 46	4k bearing less	Wheel mount 1 1/2" taper	\$ 2901.00

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SPLINE BILLETS & SHAFTS - HUB-CITY

- Splined hubs are machined true on O.D. to spline axis for pressing or welding into drive components.
- Supplied in soft condition, they may be induction hardened or carburised. Manufactured from K1146 or K1050 material.

HUBS



MODEL	DESCRIPTION	HUB O.D <i>mm</i>	HUB LENGTH <i>mm</i>	LIST
03-32-00031	6B x 1"	50.8	44.5	\$ 208.00
03-32-00032	9T x 5/8"	31.8	31.8	\$ 124.00
03-32-00033	13T x 7/8"	38.1	38.1	\$ 152.00
03-32-00034	14T 1 1/4"	57.2	50.8	\$ 253.00
03-32-00035	21T x 1 3/8"	57.2	54.0	\$ 253.00
03-32-00037	16T x 2 1/8"	89.0	75.4	\$ 405.00
03-32-00071	11T x 3/4"	38.1	38.1	\$ 145.00
03-32-00072	15T x 1"	44.5	44.5	\$ 182.00
03-32-00073	23T x 1 1/2"	57.2	54.0	\$ 244.00
03-32-00074	13T x 1 3/4"	76.2	57.2	\$ 328.00
03-32-00075	27T x 1 3/4"	76.2	57.2	\$ 328.00
03-32-00085	18T x 25mm	44.5	44.5	\$ 314.00
03-32-00093	17T x 1 1/2"	57.2	69.9	\$ 244.00

SHAFTS



MODEL	DESCRIPTION	SHAFT LENGTH <i>mm</i>	LIST
03-32-00023	9T x 5/8"	152	\$ 178.00
03-32-00024	13T x 7/8"	152	\$ 213.00
03-32-00025	14T 1 1/4"	254	\$ 248.00
03-32-00044	15T x 1"	203	\$ 237.00
03-32-00390	6B x 1"	254	\$ 156.00

REDUCING BUSHES



MODEL	DESCRIPTION	LIST
02-23-02149-330	1 1/4" x 14T to 5/8" x 9T	\$ 310.00
02-23-02148-330	1 1/4" x 14T to 7/8" x 13T	\$ 127.00

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FLEXIBLE COUPLINGS / BELL HOUSINGS / DAMPING

- Cast alloy with flexible rubber insert, pre-bored to suit 1:8 taper or SAE shafts and UNEL electric motors.



ND ALUMINIUM SERIES - OMT

MODEL/PARTS REQUIRED	PUMP SHAFT	MOTOR SHAFT <i>mm</i>	FRAME SIZE	RUBBER Ø <i>mm</i>	LIST
ND 2	Grp. 1 Taper	14	71	42	\$ 39.00
ND 5	Grp. 1 Taper	19	80	62	\$ 39.00
ND 8	Grp. 1 Taper	24	90	62	\$ 52.00
ND 11	Grp. 1 Taper	28	100 - 112	62	\$ 57.00
ND 7	Grp. 2 Taper	19	80	62	\$ 52.00
ND 10	Grp. 2 Taper	24	90	62	\$ 52.00
ND 13	Grp. 2 Taper	28	100 - 112	62	\$ 57.00
ND 14	Grp. 2 Taper	28	100 - 112	82	\$ 89.00
ND 16	Grp. 2 Taper	38	132	82	\$ 108.00
ND 43A	Grp. 2 Taper	42	160	103	\$ 166.00
ND 17	Grp. 3 Taper	38	132	82	\$ 108.00
ND 43C	Grp. 3 Taper	42	160	103	\$ 166.00
ND 44C	Grp. 3 Taper	48	180	103	\$ 189.00
ND 40	Grp. 3 Taper	55	200	103	\$ 200.00
ND65B + R-62 + ND65HC22	3/4" Parallel	24	90	62	\$ 79.00
ND65C + R-62 + ND65HC22	3/4" Parallel	28	100 - 112	62	\$ 80.00
ND65B + R-62 + ND65H9C99	7/8" Parallel	24	90	62	\$ 99.00
ND86A + R-82 + ND86HC27	7/8" Parallel	28	100 - 112	82	\$ 108.00
ND86B + R-82 + ND86HC27	7/8" Parallel	38	132	82	\$ 124.00
ND108B + R-103 + ND108H2C98	1 1/4" Parallel	42	180	103	\$ 219.00
ND108C + R-103 + ND108HC98	1 1/4" Parallel	48	180	103	\$ 221.00

POL STEEL SERIES - OMT

- Steel couplings with polyamide sleeve, pre-bored or blank coupling halves. Designed to establish a connection between an electric motor and hydraulic pump. Mix and match to get the desired assembly.



OMT3 – 112.8Nm@3000rpm (35.4kW)	LIST
SLEEVE	
POL-3	\$ 21.00
MOTOR HALF	
OMT3060C – blank	\$ 39.00
OMT3060C36 – 28mm, 100/112 frame	\$ 57.00
PUMP HALF	
OMT3060C22 – SAE A 3/4"	\$ 64.00
OMT3060SE07 – SAE A 9T	\$ 103.00
OMT3060C – blank	\$ 39.00

OMT4 – 186.4Nm@3000 rpm (58.5kW)	LIST
SLEEVE	
POL-4	\$ 23.00
MOTOR HALF	
OMT4080C – blank (or pump half)	\$ 64.00
OMT4080C47 – 38mm, 132 frame	\$ 86.00
PUMP HALF	
OMT4080C22 – SAE A 3/4"	\$ 96.00
OMT4080C27 – SAE B 7/8"	\$ 96.00
OMT4080SE10 – SAE B 13T	\$ 150.00
OMT4080SE11 – SAE B 15T	\$ 150.00

(continued on next page)

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FLEXIBLE COUPLINGS / BELL HOUSINGS / DAMPING

POL STEEL SERIES – OMT (continued)



OMT5 – 269.8Nm@3000rpm (84.5kW)	LIST
SLEEVE	
POL-5	\$ 33.00
MOTOR HALF	
OMT5080C – blank (or pump)	\$ 80.00
OMT5110C51 – 42mm, 160 frame	\$ 138.00
OMT5110C54 – 48mm, 180 frame	\$ 138.00
PUMP HALF	
OMT5060C28 – SAE B 7/8" Parallel	\$ 121.00
OMT5060C40 – SAE C 1 1/4" - short	\$ 121.00
OMT5060SE04 – SAE C 14T - short	\$ 127.00
OMT5060SE10 – SAE B 13T - short	\$ 127.00
OMT5060SE11 – SAE B 15T - short	\$ 127.00
OMT5080C40 – SAE C 1 1/4" - long	\$ 127.00
OMT5080SE04 – SAE C 14T - long	\$ 150.00
OMT5080SE06 – SAE CC 17T	\$ 150.00
OMT5080SE10 – SAE B 13T	\$ 150.00

OMT6 – 412.4Nm@3000 rpm (130kW)	LIST
SLEEVE	
POL-6	\$ 80.00
MOTOR HALF	
OMT6110C – blank	\$ 184.00
OMT6110C56 – 55mm, 200 frame	\$ 229.00
OMT6110C58 – 65mm, 250 frame	\$ 229.00
PUMP HALF	
OMT6110C39 – SAE C 1 1/4"	\$ 229.00
OMT6080SE06 – SAE CC 17T	\$ 229.00
OMT6110C – blank	\$ 184.00

BELL HOUSINGS – OMT

- Cast alloy, pre-tapped to suit pumps with European style 4 bolt or SAE mounts.



MODEL	MOTOR FLANGE <i>mm</i>	FRAME SIZE	PUMP	LIST
LS161	160	71	Grp. 1 Euro	\$ 44.00
LS201	200	80 - 90	Grp. 1 Euro	\$ 46.00
LS203	200	80 - 90	Grp. 2 Euro	\$ 51.00
LS250	250	100 - 112	Grp. 1 Euro	\$ 67.00
LS252	250	100 - 112	Grp. 2 Euro	\$ 67.00
LS300	300	132	Grp. 2 Euro	\$ 114.00
LS302	300	132	Grp. 3 Euro	\$ 114.00
LS350	300	160	Grp. 2 Euro	\$ 223.00
LS352	350	160 - 180	Grp. 3 Euro	\$ 223.00
LSE401	400	200	Grp. 3 Euro	\$ 385.00
TH1-825A	200	80 - 90	SAE 'A'	\$ 76.00
B20Q1A101A	200	80 - 90	SAE 'B'	\$ 114.00
TH2-825A	250	100 - 112	SAE 'A'	\$ 121.00
TH2-101A	250	100 - 112	SAE 'B'	\$ 121.00
TH2-127A	250	100 - 112	SAE 'C'	\$ 121.00
TH3-825A	300	132	SAE 'A'	\$ 165.00
TH3-101A	300	132	SAE 'B'	\$ 165.00
TH3-127A	300	132	SAE 'C'	\$ 165.00
TH4-825A	350	160 - 180	SAE 'A'	\$ 223.00
TH4-101A	350	160 - 180	SAE 'B'	\$ 223.00
TH4-127A	350	160 - 180	SAE 'C'	\$ 264.00

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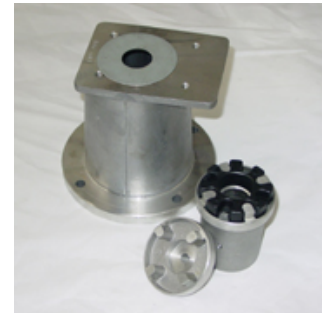
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FLEXIBLE COUPLINGS / BELL HOUSINGS / DAMPING

COUPLINGS & BELL HOUSINGS FOR PETROL ENGINES – OMT

- Bell-housings and cast alloy coupling with flexible rubber insert, pre-bored to suit 1:8 taper or SAE pump shafts and appropriate petrol engine output shaft.



BELL HOUSING	COUPLING	TO SUIT ENGINE	TO SUIT PUMP	LIST (Bell housing + coupling)
LMH151	ND 510	5.5 HP Honda	Grp.1, Taper, Euro	\$ 121.00
LMH151	ND 511	5.5 HP Honda	Grp.1, 12mm, Euro	\$ 121.00
LMH401	ND 610	8-13 HP Honda	Grp.1, Taper, Euro	\$ 167.00
LMH403	ND 613	8-13 HP Honda	Grp.2, Taper, Euro	\$ 173.00
LB152-825A	ND 710	7-18 HP Kohler	SAE A, 3/4" parallel	\$ 143.00
LB152-U1P	ND 600	7-18 HP Kohler	Grp.1, Taper, Euro	\$ 145.00
LB152-2	ND 603	7-18 HP Kohler	Grp.2, Taper, Euro	\$ 145.00

DAMPING RINGS FOR POWER PACKS – OMT

- Consist of two metal rings moulded into vulcanized rubber. Interposed between the bell housing and the tank cover, they diminish the noise created by the power transmission by approx. 3 - 5 dB. The rubber is mineral oil resistant with a maximum working temperature of 80°C.



MODEL	DIAMETER <i>mm</i>	TO SUIT ELECTRIC MOTOR FRAME SIZE	LIST
A-200	200	80 - 90	\$ 178.00
A-250	250	100 - 112	\$ 294.00
A-300	300	132	\$ 351.00
A-350	350	160 - 180	\$ 495.00

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FLEXIBLE COUPLINGS / BELL HOUSINGS / DAMPING

DAMPING RODS FOR FOOT FLANGE MOTORS – OMT

- Consist of two metal bars moulded into vulcanized rubber. Interposed between the OMT foot flange and oil tank cover or between the motor and ground where vibrations are higher, they diminish the noise created by the power transmission by approx. 3 - 5 dB. The rubber is mineral oil resistant with a maximum working temperature of 80°C.



MODEL	DIMENSIONS (LxWxH) mm	TO SUIT ELECTRIC MOTOR FRAME SIZE	LIST
BMA-132S-F	288x53x45	132S	\$ 170.00
BMA-132M-F	288x53x45	132M	\$ 170.00
BMA-160M-F	343x73x60	160M	\$ 234.00
BMA-160L-F	419x73x60	160L	\$ 265.00
BMA-180M-F	419x73x60	180M	\$ 265.00
BMA-180L-F	446 x73x60	180L	\$ 285.00

FOOT FLANGES – OMT

- Manufactured of high resistance aluminium alloy, these foot flanges are used to support OMT bell housings.



MODEL	PCD mm	TO SUIT ELECTRIC MOTOR FRAME SIZE	LIST
P160	130	71	\$ 45.00
P200	165	80/90	\$ 60.00
P250	215	100/112	\$ 95.00



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CONTENTS SECTION K – OIL RESERVOIRS

K1 Oil Reservoirs

K1 CP Aluminium Series
K1 HT Steel Series

OMT
Hyspecs



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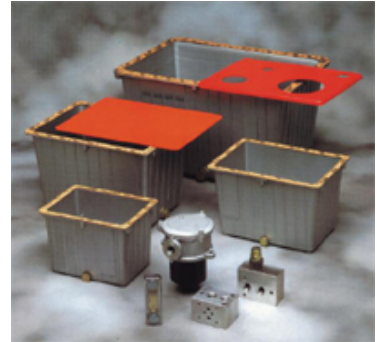
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OIL RESERVOIRS

OMT - ALUMINIUM OIL TANKS

- Die cast aluminium
- Complete with lid and gasket
- The lid is left blank to allow the designer to cut appropriate holes for the electric motor, filters, filler/breather and any other bulk head accessories that may be required.
- Nominal capacity corresponds to ¾ of total capacity
- Drain plug



MODEL	VOLUME <i>litres - Nom</i>	OVERALL DIMENSIONS				NETT
		<i>Length - mm</i>	<i>Width - mm</i>	<i>Height - mm</i>	<i>Lid - mm</i>	
CP16GC	16	368	290	243	5	\$ 241.00
CP25MGC	25	490	340	285	5	\$ 338.00
CP55GC	55	595	450	345	6	\$ 761.00
CP75GC	75	595	450	465	6	\$ 927.00
SE475 G	Inspection Cover (Aluminium), Ø 475mm, 6x hole centres Ø449mm, 15.5mm thick					\$ 190.00

HYDRAULIC SPECIALTIES - STEEL OIL TANKS

- Material: mild steel plate
- All external welds TIG/MIG welded, continuous, no slag and checked by liquid penetration
- Outward top flange with Nylock nuts and bolts
- Sloped bottom floor for easy draining via removable steel plug
- Baffles available on request (extra cost)
- Sealon adhesive tape that customer installs to provide dust proof and waterproof lid seal
- Pre-drilled bolt down holes
- Tank and lid grey primer etched inside and out
- Nominal volume = 75% of maximum volume



MODEL	VOLUME <i>litres - Nom</i>	OVERALL DIMENSIONS				NETT
		<i>Length - mm</i>	<i>Width - mm</i>	<i>Height - mm</i>	<i>Lid - mm</i>	
HT100	100	780	450	500	6	\$ 950.00
HT150	150	880	500	550	8	\$ 1020.00
HT200	200	980	500	650	8	\$ 1120.00

NOTE: The normal discount structure does not apply with above oil reservoirs

CONFIGURATION OPTIONS

- Reservoirs configurations can be customised to suit specific requirements. Reservoirs can be used as a part of a Hydraulic Specialties Power Pack or can be supplied top coated with the lid configured as required. Because the options are numerous please contact a Hydraulic Specialties Sales Engineer to discuss any requirement.

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CONTENTS SECTION L – ELECTRIC MOTORS**L1 Three Phase Induction Motors**

L1 YX3 Series

Hengshui**HYDRAULIC SPECIALTIES LTD.**

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THREE PHASE INDUCTION MOTORS - HENGSHUI



- Complete YX3 Series ranges from 0.12 kW to 315 kW. Sizes other than listed are *available on request*.
- Hengshui motors are designed and produced to ISO 9001 standards
- The YX3 series is designed for 400 VAC, 50 Hz operation and are rated to IP54 / IP55.
- YX3 series motors meet all requirements under the high efficiency standard (MEPS) AS/NZS 1359.5:2004

MODEL	POWER OUTPUT kW	MOUNT	SPEED RPM	FRAME SIZE	LIST
YX3-132S-4-B35	5.50	Foot / Flange	1440	132S	\$ 1070.00
YX3-132M-4-B35	7.50	Foot / Flange	1440	132M	\$ 1210.00
YX3-160M-4-B35	11.00	Foot / Flange	1460	160M	\$ 1890.00
YX3-160L-4-B35	15.00	Foot / Flange	1460	160L	\$ 2184.00
YX3-180M-4-B35	18.50	Foot / Flange	1470	180M	\$ 2558.00
YX3-180L-4-B35	22.00	Foot / Flange	1470	180L	\$ 2970.00
YX3-200L-4-B35	30.00	Foot / Flange	1470	200L	\$ 3608.00
YX3-225S-4-B35	37.00	Foot / Flange	1475	225S	\$ 4439.00
YX3-225M-4-B35	45.00	Foot / Flange	1475	225M	\$ 4967.00
YX3-250M-4-B35	55.00	Foot / Flange	1480	250M	\$ 6155.00

- 2,6,8, and 10 Pole Motor options *available on request*
- Variable Voltage, Variable Frequency 3 Phase Asynchronous motors *available on indent*
- Rare Earth Permanent Magnets 3 Phase Synchronous motors *available on indent*
- Electromagnetic Clutch Speed Controlled Asynchronous motors *available on indent*
- Change-Pole Multi Speed 3-Phase Induction motors *available on indent*
- Electromagnet Braked 3-Phase Induction motors *available on indent*
- Flameproof (GB3836.1 & .2) motors *available on indent*
- Dustproof 3-Phase Induction motors *available on indent*

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M4	HS9502 - Tilt Control Valves	<i>Hyspecs</i>
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M14	SAFEX™ Valve	<i>Hyspecs</i>

M15 Excavator Valving Accessories

M15	Multi Function Ergonomic Handles	<i>David Brown</i>
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**HYDRAULIC SPECIALTIES LTD.**

P.O. Box 204157, Highbrook, Auckland
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EXCAVATOR VALVING - HYSPECS

INTRODUCTION

- Custom designed cartridge valve manifolds, designed specifically to control excavator attachments.
- Features:
 - Compact design allows valving to be positioned in confined spaces where others do not fit.
 - Manifold design minimises oil leakage paths
 - Reliable low current draw solenoids provide millions of cycle lifetime
 - Hardened spools and cages for longer life
 - All work ports are located on single block face
 - Can be operated continuously in temperatures up to 100°C without challenging the coils insulation.
 - Integral pressure reducing/relieving valves guard against pressure spikes and thermal shock.
 - Low pressure drops
- Material:
 - Aluminium or steel for pressures up to 210 bar and 345 bar respectively.
 - All blocks are either anodised or 'blackfasted' to protect your investment.

MODEL ORDER CODE

HS950* **P4** * * * ** **D** *

Signifies specific model see table below

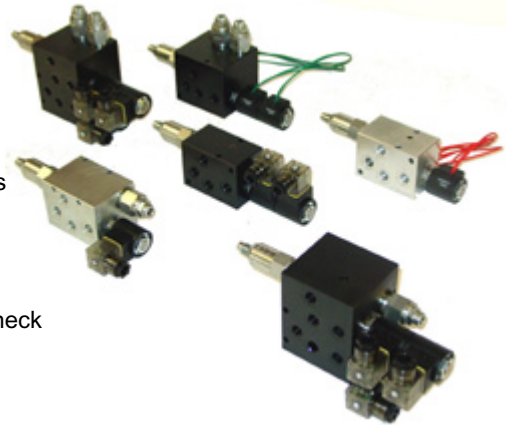
1/4" BSPP ports

Number of cartridges in block, where B = 2
C = 3, D = 4 etc

S = Steel block, blank = aluminium
P = Pressure reducer, K = Pilot operated check

12 or 24 VDC

L = coil with flying leads
G = coil with DIN plug



CODE	MAIN PURPOSE	VALVES INCLUDED
HS9501P4BP**D*	Piloting of main spool	Pressure reducer, 3 position solenoid valve
HS9501P4BPS**D*	Quickhitch	Pressure reducer, 2 position solenoid valve
HS9502P4CPS**D*	Tilt bucket (S/A or equal area ram/s)	Pressure reducer, 3 position solenoid valve, 4-port cross line relief valve
HS9503P4BK**D*	S/A Quickhitch	2 position solenoid valve, pilot operated check valve
HS9504P4EPS**D*	Tilt bucket (S/A or equal area ram/s) & Thumb	Pressure reducer, 3 position solenoid valve, 4-port cross line relief valve, Cetop 3, 5-port cross line relief valve
HS9505P4DPS**D*	Tilt bucket (D/A ram/s)	Pressure reducer, 3 position solenoid valve, 5-port cross line relief valve
HS9506P4EPRS**D*	Load sense Tilt bucket (D/A ram/s)	Pressure reducer, Load sensing 3 position solenoid valve, 5-port cross line relief valve
HS9507P4FPS**D*	Tilt (S/A or equal area ram/s), Quickhitch & Thumb	Pressure reducer, 2 & 3 position solenoid valves, 4-port cross line relief valve, Cetop 3, 5-port cross line relief valve
HS9508P4FPS**D*	Quickhitch & Tilt bucket (D/A ram/s)	Pressure reducer, 2 & 3 position solenoid valves, 5-port cross line relief valve
HS9509P4FPS**D*	Quickhitch & Tilt bucket (S/A or equal area ram/s)	Pressure reducer, 2 & 3 position solenoid valves, 4-port cross line relief valve
HS9510P4A**D*	Low pressure Quickhitch	2 position solenoid valve with all ports on one face

(Continued on next page)

Price List 2011



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EXCAVATOR VALVING - HYSPECS

HS9512CPRS**D*	Thumb control (single DA cylinder)	Pressure reducer, Cetop3 3 position solenoid valve, 5-port cross line relief valve
HS9513HPRFS**D*	Two inlets Quickhitch & thumb (single D/A ram)	Checks, Pressure reducer, 2 & 3 position solenoid valves (cetop3 for thumb), speed control & 5-port cross line relief valve on the thumb

PILOT VALVES (HS9501)



- Pilot valves are used to provide pilot pressure to the auxiliary spool on an excavator. Auxiliary spools are often used to attach rotating grapples. This valve gives the operator finger tip control of that new attachment. A pressure reducer/reliever provides the user with a means of setting up the desired flow with proportional auxiliary spools.

MODEL	DESCRIPTION	MAX. PRESS. IN <i>bar</i>	VOLTAGE <i>DC</i>	LIST
HS9501P4BP**DL	Pilot valve, aluminium, flying leads	207	12 or 24	\$ 693.00
HS9501P4BP**DG	Pilot valve, aluminium, DIN plug with LED	207	12 or 24	\$ 777.00

** Denotes coil voltage

- Valve includes manifold block, 1 x 4-way 3-position solenoid cartridge valve and coils and 1 x pressure reducer/reliever.
- 4 ports, A, B, P and T, 1/4" BSPP
- Valve dimensions, 248mm x 63mm x 51mm (L x W x H)
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS

LIST

HS9501P4BP	Pilot manifold, aluminium	\$ 228.00
HS9501P4BPS	Pilot manifold, steel	\$ 304.00
PR10-32A-0-N-04	Pressure reducer/reliever (5.5 – 27.6 bar)	\$ 152.00
SV08-47D-0-N-0	4-way, 3-position solenoid valve (P blocked, A & B to T in neutral)	\$ 221.00
6306012	12 VDC coil, 8 size, DIN plug	\$ 69.00
6306024	24 VDC coil, 8 size, DIN plug	\$ 69.00
6302012	12 VDC coil, 8 size, flying leads	\$ 46.00
6302024	24 VDC coil, 8 size, flying leads	\$ 46.00
ISOL-30	DIN plug to suit DC coils	\$ 19.00

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EXCAVATOR VALVING - HYSPECS



QUICK HITCH VALVES – DOUBLE ACTING (HS9501)

- Quick hitch valves are used to clamp, hold and release excavator attachments via a quick hitch cylinder at the end of the excavator boom.

MODEL	DESCRIPTION	MAX. PRESS. IN <i>bar</i>	VOLTAGE <i>DC</i>	LIST
HS9501P4BPS**DL	Quick hitch valve, steel, flying leads	345	12 or 24	\$ 770.00
HS9501P4BPS**DG	Quick hitch valve, steel, DIN plug with LED	345	12 or 24	\$ 854.00

** Denotes coil voltage

- Valve includes steel manifold block, 1 x 4-way 2-position solenoid valve and coil and a pressure reducer/reliever.
- 4 ports, A, B, P and T, 1/4" BSPP
- Valve dimensions, 208mm x 63mm x 51mm (L x W x H)
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS

LIST

HS9501P4BPS	Quick hitch manifold, steel	\$ 304.00
PR50-36A-0-P-50	Pressure reducer/reliever	\$ 221.00
SV08-40-0-N-0	4-way, 2-position solenoid valve	\$ 153.00
6306012	12 VDC coil, 8 size, DIN plug	\$ 69.00
6306024	24 VDC coil, 8 size, DIN plug	\$ 69.00
6302012	12 VDC coil, 8 size, flying leads	\$ 46.00
6302024	24 VDC coil, 8 size, flying leads	\$ 46.00
ISOL-30	DIN plug to suit DC coils	\$ 19.00

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EXCAVATOR VALVING - HYSPECS



TILT CONTROL VALVES (HS9502)

- Designed to control a Tilt Bucket with single acting or equal area ram/s.

MODEL	DESCRIPTION	MAX. PRESS. IN bar	VOLTAGE DC	LIST
HS9502P4CPS**DL	Tilt valve, steel, flying leads, in-built 4-port x-line protection	345	12 or 24	\$ 1095.00
HS9502P4CPS**DG	Tilt valve, steel, DIN plug with LED, in-built 4-port x-line protection	345	12 or 24	\$ 1179.00

** Denotes coil voltage

- Valve includes steel manifold block, 1 x 4-way 3-position solenoid cartridge valve and coils, 1 x bi-directional relief valve and 1 x pressure reducer/reliever.
- 4 ports, A, B, P and T, 1/4" BSPP
- Valve dimensions, 248mm x 63mm x 51mm (L x W x H)
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS

LIST

HS9502P4CPS	Tilt manifold, steel	\$ 332.00
RVBD-08-N-S-0-50	Bi-directional relief valve	\$ 229.00
PR50-36A-0-P-50	Pressure reducer/reliever	\$ 221.00
SV08-47C-0-N-0	4-way, 3-position solenoid valve (All ports blocked in neutral)	\$ 221.00
6306012	12 VDC coil, 8 size, DIN plug	\$ 69.00
6306024	24 VDC coil, 8 size, DIN plug	\$ 69.00
6302012	12 VDC coil, 8 size, flying leads	\$ 46.00
6302024	24 VDC coil, 8 size, flying leads	\$ 46.00
ISOL-30	DIN plug to suit DC coils	\$ 19.00

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EXCAVATOR VALVING - HYSPECS



QUICK HITCH VALVES - SINGLE ACTING (HS9503)

- Single acting quick hitch valves are used to clamp, hold and release excavator attachments via a single acting quick hitch cylinder at the end of the excavator boom.

MODEL	DESCRIPTION	MAX. PRESS. IN <i>bar</i>	VOLTAGE <i>DC</i>	LIST
HS9503P4BK**DL	S/A Quick hitch valve, aluminium, flying leads	207	12 or 24	\$ 604.00
HS9503P4BK**DG	S/A Quick hitch valve, aluminium , DIN plug with LED	207	12 or 24	\$ 646.00

** Denotes coil voltage

- Valve includes steel manifold block, 1 x 3-way 2-position solenoid valve and coil and a pilot operated check valve.
- 3 ports, A, P and T, 1/4" BSPP
- Valve dimensions, 85mm x 37mm x 124mm (L x W x H)

SPARE COMPONENTS

LIST

HS9503P4BK	Quick hitch manifold, aluminium	\$ 304.00
SV08-40-0-N-0	3-way, 2-position solenoid valve	\$ 153.00
PC08-30-0-N-0	Pilot operated check valve	\$ 101.00
6306012	12 VDC coil, 8 size, DIN plug	\$ 69.00
6306024	24 VDC coil, 8 size, DIN plug	\$ 69.00
6302012	12 VDC coil, 8 size, flying leads	\$ 46.00
6302024	24 VDC coil, 8 size, flying leads	\$ 46.00
ISOL-30	DIN plug to suit DC coils	\$ 19.00

Price List 2011



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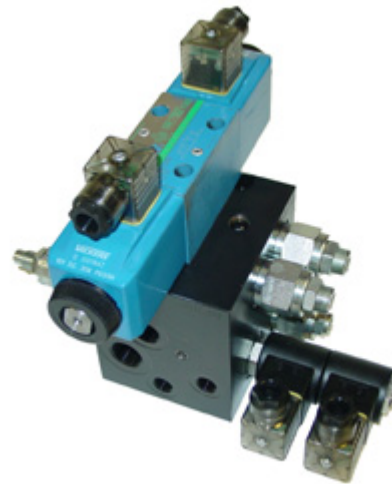
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EXCAVATOR VALVING - HYSPECS



TILT & THUMB VALVES (HS9504)

- Designed to control a Tilt Bucket with single acting or equal area ram/s and Thumb.

MODEL	DESCRIPTION	MAX. PRESS. IN <i>bar</i>	VOLTAGE <i>DC</i>	LIST
HS9504P4EPS**DL	Tilt & thumb valve, steel, flying leads, in-built 4-port and 5-port x-line protection	345	12 or 24	\$ 2573.00
HS9504P4EPS**DG	Tilt & thumb valve, steel, DIN plug with LED, in-built 4-port and 5-port x-line protection	345	12 or 24	\$ 2657.00

** Denotes coil voltage

- Valve includes steel manifold block, 1 x 4-way 3-position solenoid cartridge valve and coils, 1 x Cetop 3 valve, 1 x bi-directional relief valve, 2 x relief valves with anti-cav, and 1 x pressure reducer/reliever.
- 1 x P (3/8" BSPP) & T(1/2" BSPP), 1 x A & B (1/4" BSPP) and 1 x A & B (3/8" BSPP)
- Valve dimensions, 250mm x 220mm x 180mm (L x W x H)
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS

LIST

HS9504P4EPS	Tilt and thumb manifold, steel	\$ 1042.00
RVBD-08-N-S-0-50	Bi-directional relief valve	\$ 229.00
RVPP-10-N-S-0-50	Relief valve with anticav protection	\$ 195.00
PR50-36A-0-P-50	Pressure reducer/reliever	\$ 221.00
SV08-47C-0-N-0	4-way, 3-position solenoid valve (All ports blocked in neutral)	\$ 221.00
02-109025	Cetop 3 valve, 4-way, 3-position solenoid valve (All ports blocked in neutral)	\$ 378.00
6306012	12 VDC coil, 8 size, DIN plug	\$ 69.00
6306024	24 VDC coil, 8 size, DIN plug	\$ 69.00
6302012	12 VDC coil, 8 size, flying leads	\$ 46.00
6302024	24 VDC coil, 8 size, flying leads	\$ 46.00
ISOL-30	DIN plug to suit DC coils	\$ 19.00

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EXCAVATOR VALVING - HYSPECS



TILT ONLY WITH 5-PORT RELIEF (HS9505)

- Designed to control a Thumb attachment with a double acting cylinder.

MODEL	DESCRIPTION	MAX. PRESS. IN <i>bar</i>	VOLTAGE <i>DC</i>	LIST
HS9505P4DPS**DL	Tilt valve, steel, flying leads, in-built 5-port x-line protection	345	12 or 24	\$ 1491.00
HS9505P4DPS**DG	Tilt valve, steel, DIN plug with LED, in-built 5-port x-line protection	345	12 or 24	\$ 1575.00

** Denotes coil voltage

- Valve includes steel manifold block, 1 x 4-way 3-position solenoid cartridge valve and coils, 2 x relief valves with anticav, and 1 x pressure reducer/reliever.
- 4 ports, A, B, P and T, 1/4" BSPP
- Valve dimensions, 248mm x 75mm x 117mm (L x W x H)
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS

LIST

HS9505P4DPS	Tilt with 5-port relief manifold, steel	\$ 567.00
RVPP-10-N-S-0-50	Relief valve with anticav protection	\$ 195.00
PR50-36A-0-P-50	Pressure reducer/reliever	\$ 221.00
SV08-47C-0-N-0	4-way, 3-position solenoid valve (All ports blocked in neutral)	\$ 221.00
6306012	12 VDC coil, 8 size, DIN plug	\$ 69.00
6306024	24 VDC coil, 8 size, DIN plug	\$ 69.00
6302012	12 VDC coil, 8 size, flying leads	\$ 46.00
6302024	24 VDC coil, 8 size, flying leads	\$ 46.00
ISOL-30	DIN plug to suit DC coils	\$ 19.00

Price List 2011



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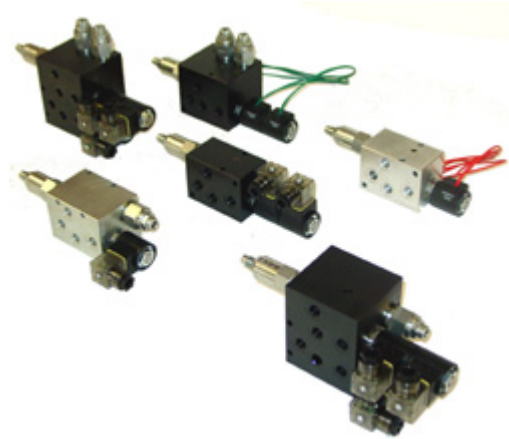
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EXCAVATOR VALVING - HYSPECS



QUICKHITCH, TILT & THUMB VALVES (HS9507)

- Designed to control a Quickhitch, Tilt Bucket with single acting or equal area ram/s and a Thumb.

MODEL	DESCRIPTION	MAX. PRESS. IN <i>bar</i>	VOLTAGE <i>DC</i>	LIST
HS9507P4FPS**DL	Quickhitch, tilt & thumb valve, steel, flying leads, in-built 4-port and 5-port x-line protection	345	12 or 24	\$ 2850.00
HS9507P4FPS**DG	Quickhitch, tilt & thumb valve, steel, DIN plug with LED, in-built 4-port and 5-port x-line protection	345	12 or 24	\$ 2976.00

** Denotes coil voltage

- Valve includes steel manifold block, 1 x 4-way 3-position solenoid cartridge valve and coils, 1 x Cetop 3 valve, 1 x 4-way 2-position solenoid cartridge valve and coil, 1 x bi-directional relief valve, 2 x relief valves with anti-cav, and 1 x pressure reducer/reliever.
- 1 x P & T, 3 x A & B
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS

		<u>LIST</u>
HS9507P4FPS	Quickhitch, tilt and thumb manifold, steel	\$ 1120.00
RVBD-08-N-S-0-50	Bi-directional relief valve	\$ 229.00
RVPP-10-N-S-0-50	Relief valve with anticav protection	\$ 195.00
PR50-36A-0-P-50	Pressure reducer/reliever	\$ 221.00
SV08-40-0-N-0	4-way, 2-position solenoid valve	\$ 153.00
SV08-47C-0-N-0	4-way, 3-position solenoid valve (All ports blocked in neutral)	\$ 221.00
02-109025	Cetop 3 valve, 4-way, 3-position solenoid valve (All ports blocked in neutral)	\$ 378.00
6306012	12 VDC coil, 8 size, DIN plug	\$ 69.00
6306024	24 VDC coil, 8 size, DIN plug	\$ 69.00
6302012	12 VDC coil, 8 size, flying leads	\$ 46.00
6302024	24 VDC coil, 8 size, flying leads	\$ 46.00
ISOL-30	DIN plug to suit DC coils	\$ 19.00

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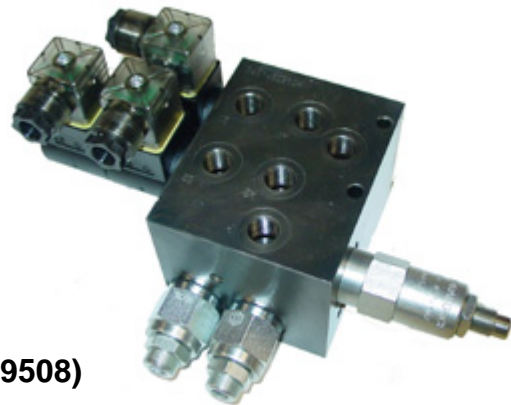
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EXCAVATOR VALVING - HYSPECS



QUICKHITCH & TILT WITH 5-PORT RELIEF (HS9508)

- Designed to control a Quickhitch and Tilt Bucket with a double acting ram/s.

MODEL	DESCRIPTION	MAX. PRESS. IN <i>bar</i>	VOLTAGE <i>DC</i>	LIST
HS9508P4EPS**DL	Quickhitch and tilt valve, steel, flying leads, in-built 5-port x-line protection	345	12 or 24	\$ 1890.00
HS9508P4EPS**DG	Quickhitch and tilt valve, steel, DIN plug with LED, in-built 5-port x-line protection	345	12 or 24	\$ 2016.00

** Denotes coil voltage

- Valve includes steel manifold block, 1 x 4-way 3-position solenoid cartridge valve and coils, 1 x 4-way 2-position solenoid cartridge valve and coil, 2 x relief valves with anti-cav, and 1 x pressure reducer/reliever.
- 1 x P & T, 2 x A & B, 1/4" BSPP
- Valve dimensions, 248mm x 100mm x 137mm (L x W x H)
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS

LIST

HS9508P4EPS	Quickhitch and tilt with 5-port relief manifold, steel	\$ 767.00
RVPP-10-N-S-0-50	Relief valve with anticav protection	\$ 195.00
PR50-36A-0-P-50	Pressure reducer/reliever	\$ 221.00
SV08-40-0-N-0	4-way, 2-position solenoid valve	\$ 153.00
SV08-47C-0-N-0	4-way, 3-position solenoid valve (All ports blocked in neutral)	\$ 221.00
6306012	12 VDC coil, 8 size, DIN plug	\$ 69.00
6306024	24 VDC coil, 8 size, DIN plug	\$ 69.00
6302012	12 VDC coil, 8 size, flying leads	\$ 46.00
6302024	24 VDC coil, 8 size, flying leads	\$ 46.00
ISOL-30	DIN plug to suit DC coils	\$ 19.00

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EXCAVATOR VALVING - HYSPECS



QUICKHITCH & TILT (HS9509)

- Designed to control a Quickhitch and Tilt Bucket with twin single acting or equal area ram/s.

MODEL	DESCRIPTION	MAX. PRESS. IN <i>bar</i>	VOLTAGE <i>DC</i>	LIST
HS9509P4DPS**DL	Quickhitch and tilt valve, steel, flying leads, in-built 4-port x-line protection	345	12 or 24	\$ 1620.00
HS9509P4DPS**DG	Quickhitch and tilt valve, steel, DIN plug with LED, in-built 4-port x-line protection	345	12 or 24	\$ 1746.00

** Denotes coil voltage

- Valve includes steel manifold block, 1 x 4-way 3-position solenoid cartridge valve and coils, 1 x 4-way 2-position solenoid cartridge valve and coil, 1 x bi-directional relief valve and 1 x pressure reducer/reliever.
- 1 x P & T, 2 x A & B, 1/4" BSPP
- Valve dimensions, 248mm x 100mm x 105mm (L x W x H)
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS

LIST

HS9509P4DPS	Quickhitch and tilt with 5-port relief manifold, steel	\$ 658.00
RVBD-08-N-S-0-50	Bi-directional relief valve	\$ 229.00
PR50-36A-0-P-50	Pressure reducer/reliever	\$ 221.00
SV08-40-0-N-0	4-way, 2-position solenoid valve	\$ 153.00
SV08-47C-0-N-0	4-way, 3-position solenoid valve (All ports blocked in neutral)	\$ 221.00
6306012	12 VDC coil, 8 size, DIN plug	\$ 69.00
6306024	24 VDC coil, 8 size, DIN plug	\$ 69.00
6302012	12 VDC coil, 8 size, flying leads	\$ 46.00
6302024	24 VDC coil, 8 size, flying leads	\$ 46.00
ISOL-30	DIN plug to suit DC coils	\$ 19.00

Price List 2011



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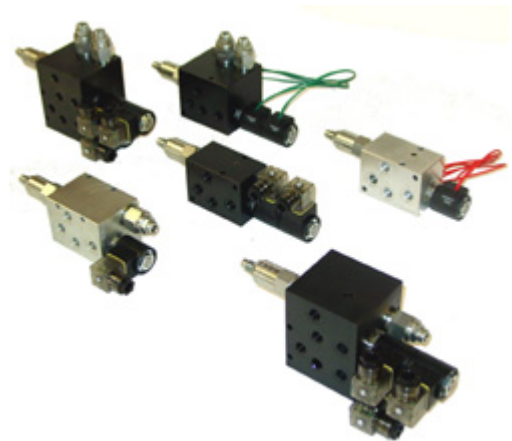
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EXCAVATOR VALVING - HYSPECS



LOW PRESSURE QUICKHITCH (HS9510)

- Designed to control a low pressure Quickhitch, all ports on one face.

MODEL	DESCRIPTION	MAX. PRESS. IN <i>bar</i>	VOLTAGE <i>DC</i>	LIST
HS9510P4AS**DL	Quickhitch, 2 position solenoid valve with all ports on one face, flying leads	207	12 or 24	\$ 420.00
HS9510P4AS**DG	Quickhitch, 2 position solenoid valve with all ports on one face, DIN plug with LED	207	12 or 24	\$ 462.00

** Denotes coil voltage

- Valve includes steel manifold block, 1 x 4-way 2-position solenoid cartridge valve and coil
- 1 x P & T, 1 x A & B

SPARE COMPONENTS

LIST

HS9510P4AS	Quickhitch steel manifold	\$ 221.00
SV08-40-0-N-0	4-way, 2-position solenoid valve	\$ 153.00
6306012	12 VDC coil, 8 size, DIN plug	\$ 69.00
6306024	24 VDC coil, 8 size, DIN plug	\$ 69.00
6302012	12 VDC coil, 8 size, flying leads	\$ 46.00
6302024	24 VDC coil, 8 size, flying leads	\$ 46.00
ISOL-30	DIN plug to suit DC coils	\$ 19.00

Price List 2011



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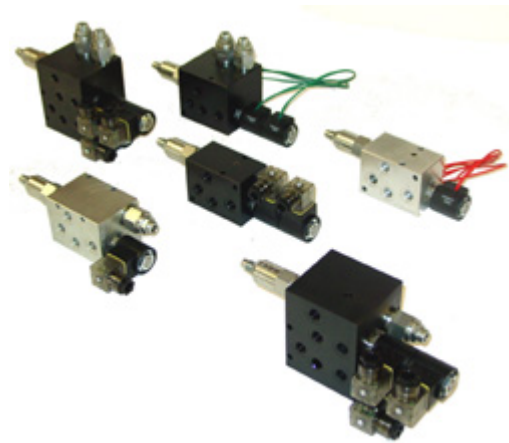
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EXCAVATOR VALVING - HYSPECS



THUMB CONTROL (HS9512)

- Designed to control a thumb via a D/A cylinder.

MODEL	DESCRIPTION	MAX. PRESS. IN <i>bar</i>	VOLTAGE <i>DC</i>	LIST
HS9512CPRS**	Thumb control of a single D/A cylinder, steel manifold, 5-port x-line protection	345	12 or 24	\$1756.00

** Denotes coil voltage

- Valve includes steel manifold block, 1 x Cetop 3 valve, 2 x relief valves with anti-cav and 1 x pressure reducer/reliever.
- 1 x P & T, 1 x A & B
- Electro-proportional directional valve option is available – *Consult Hyspecs*

SPARE COMPONENTS

LIST

HS9512CPRS	Thumb manifold, steel	\$ 767.00
RVPP-10-N-S-0-50	Relief valve with anticav protection	\$ 195.00
PR50-36A-0-P-50	Pressure reducer/reliever	\$ 221.00
02-109025	Cetop 3 valve, 4-way, 3-position solenoid valve (All ports blocked in neutral)	\$ 378.00

Price List 2011



HYDRAULIC SPECIALTIES LTD.

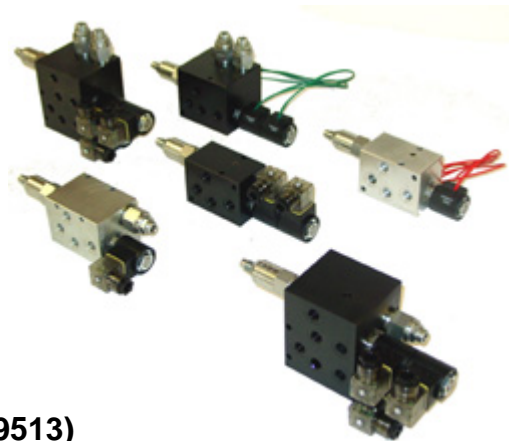
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EXCAVATOR VALVING - HYSPECS



TWO INLETS, QUICKHITCH & THUMB VALVE (HS9513)

- Designed to control a Quickhitch and Thumb (single D/A ram).

MODEL	DESCRIPTION	MAX. PRESS. IN <i>bar</i>	VOLTAGE <i>DC</i>	LIST
HS9513HPRFS**DL	Two inlets, Quickhitch & thumb valve, checks, pressure reducer, 2 & 3 position solenoid valves (cetop3 for thumb), speed control & 5-port cross line relief valve on the thumb, steel, flying leads	345	12 or 24	\$ 2785.00
HS9513HPRFS**DG	Two inlets, Quickhitch & thumb valve, checks, pressure reducer, 2 & 3 position solenoid valves (cetop3 for thumb), speed control & 5-port cross line relief valve on the thumb, steel, DIN plug with LED	345	12 or 24	\$ 2827.00

** Denotes coil voltage

- Valve includes steel manifold block, 1 x Cetop 3 valve, 1 x 4-way 2-position solenoid cartridge valve and coil, 2 x relief valves with anti-cav, 2 x check valves, 1 x flow control and 1 x pressure reducer/reliever.
- 2 x P, 1 x T, 2 x A & B
- Electro-proportional directional cartridge option is available – *Consult Hyspecs*

SPARE COMPONENTS

LIST

HS9513HPRFS	Quickhitch, tilt and thumb manifold, steel	\$ 1201.00
RVPP-10-N-S-0-50	Relief valve with anticav protection	\$ 195.00
PR50-36A-0-P-50	Pressure reducer/reliever	\$ 221.00
SV08-40-0-N-0	4-way, 2-position solenoid valve	\$ 153.00
FR10-39E	Flow control	\$ 212.00
CV50-20	High pressure check valve	\$ 92.00
02-109025	Cetop 3 valve, 4-way, 3-position solenoid valve (All ports blocked in neutral)	\$ 378.00
6306012	12 VDC coil, 8 size, DIN plug	\$ 69.00
6306024	24 VDC coil, 8 size, DIN plug	\$ 69.00
6302012	12 VDC coil, 8 size, flying leads	\$ 46.00
6302024	24 VDC coil, 8 size, flying leads	\$ 46.00
ISOL-30	DIN plug to suit DC coils	\$ 19.00

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EXCAVATOR VALVING – HYSPECS



SAFEX™ VALVE

SAFEX™ valves are designed to be mounted directly to the boom and/or the stick (arm) cylinders of hydraulic excavators. With the correct installation and adjustment these valves prevent uncontrolled lowering of the boom/stick cylinders in the event of a hose burst, thereby becoming part of the load holding and lowering system designed to comply with **AS 1418.8 / ISO 8643**.

MODEL	DESCRIPTION	MAX. PRESS. IN <i>bar</i>	MAX. FLOW <i>lpm</i>	LIST
A/HS4541P6CRS	Hyspecs SAFEX™ valve assembly 3/8" BSPP	350	30	\$ 785.00
A/HS4542P8CRS	Hyspecs SAFEX™ valve assembly 1/2" BSPP	350	90	\$ 845.00
A/HS4840ACRS	Hyspecs SAFEX™ valve assembly 1/2" SAE	350	90	\$ 998.00
A/HS4543P12CRS	Hyspecs SAFEX™ valve assembly 3/4" BSPP	400	180	\$ 908.00
A/HS4841BCRS	Hyspecs SAFEX™ valve assembly 3/4" SAE low flow	350	90	\$ 1249.00
A/HS4842BCRS	Hyspecs SAFEX™ valve assembly 3/4" SAE high flow	400	180	\$ 1295.00
A/HS4843CCRS	Hyspecs SAFEX™ valve assembly 1" SAE	400	180	\$ 1459.00
A/HS4844DDRS	Hyspecs SAFEX™ valve assembly 1 ¼" SAE Dual CPBD	400	360	\$ 1898.00
A/HS4845BDRS	Hyspecs SAFEX™ valve assembly 3/4" SAE Dual CPBD	400	360	\$ 1765.00
A/HS4846CDRS	Hyspecs SAFEX™ valve assembly 1" SAE Dual CPBD	400	360	\$ 1869.00

Features and Benefits

- Designed to meet the Australian Safety Regulations for Excavators and complies with ISO 8643.
- Compact design with dual code SAE 61 and 62 ports.
- Relief valve with screen is included for cylinder protection (full flow).
- Duplicated valve (V), pilot (PIL) ports allow the valves to be fitted to either side. End pilot (PIL) and drain (DR) ports make it easy to connect.
- E/TP port on the valves can be used for initial bleed off, a test point to set the relief, manual lowering, and equalizing two boom cylinders.
- Assembled from locally sourced components for ease of service including top quality standard cartridges which can be purchased in any major city around the world.
- Manufactured by HYSPECS and HYTECH.
- Steel manifolds electro-plated zinc (Nickel plating is an option).
- Tamper proof capable.

IMPORTANT: It is the owner's responsibility to ensure that these valves are installed and set correctly in order to comply with the safety standards. Incorrect installation and/or adjustment could result in severe injury, disability or death!

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EXCAVATOR VALVING ACCESSORIES- DAVID BROWN



MULTI FUNCTION ERGONOMIC HANDLES

- Quickhitch, tilt and thumb valves require switching gear to allow the operator control. David Brown remote handles provide this control, with their various switching and handle options.
- M10 x 1.5 mounting adaptor.

MODEL	DESCRIPTION	SUGGESTED USE	RATING	LIST
G9466012321	David Brown handle, type A	Tilt	3A at 30VDC	\$ 69.00
G9466012331	David Brown handle, type x, push button on/off	Quick hitch	3A at 30VDC	\$ 150.00
G9466012351	David Brown handle, type y, 3-position rocker, spring centre	Tilt & thumb	3A at 30VDC	\$ 215.00
MFEERXXRXX-X1R1S	David Brown MFE handle, 3-position rocker, spring centre and 2 push buttons on/off, 15° tilt	Quick hitch tilt & thumb	6A at 250 VAC	\$ 365.00
MFEERXXXXX-X1R1S	David Brown MFE handle, 3-position rocker, spring centre and 1 push button on/off, 15° tilt	Quick hitch tilt & thumb	6A at 250 VAC	\$ 328.00
MFEXXXXXXX-X0R1	David Brown MFE handle, no buttons	Quick hitch tilt & thumb	6A at 250 VAC	\$ 158.00

- Quenching diodes must be used on rocker switches for DC operation.



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CONTENTS SECTION N – ELECTRONIC CONTROLS**N1 Radio Remote Controls**

N1 Kar-Tech Radio Remote Controls

Kar-Tech**HYDRAULIC SPECIALTIES LTD.**

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ELECTRONIC CONTROLS

KAR-TECH RADIO REMOTE CONTROLS

- Specifically designed and manufactured for the wireless control of hydraulic equipment
- On-off or proportional operation
- Solid state 5 amp protected outputs (resistive load)
- Kar-Tech Radio Controls include: • 50 channel Frequency Hopping Spread Spectrum (FHSS) • Digital Phase Lock Loop (DPLL) • Full two way communications allows for rugged radio performance in high noise areas. • Adjustable radio transmitter power output levels for reliable operation and long battery life. • Customizable to your application • On-board User Assist Diagnostics, both at transmitter and receiver • Controller Area Network (CAN) wire communications available as an option
- **Handy Series:** • Rugged hand-held ergonomically styled enclosure • Easy to use membrane switches with tactile feedback • Available for any on/off applications • Operates on any ordinary 9V battery • Fits in hand comfortably
- **Mini Series:** • Rugged plastic “Mini” style enclosure • Transmitter and receiver are small, convenient and easy to use • Transmitter includes membrane switches with tactile feedback • Available for any on/off applications • Operates on 2 ordinary AAA batteries



MODEL	DESCRIPTION	LIST
3A0805A	Mini radio transmitter - 4 output	\$ 722.00
3A0803A	Mini programmable radio receiver - 4 output	\$ 664.00
3A0802A	Mini radio transmitter - 9 output	\$ 722.00
3A0804A	Mini programmable radio receiver - 9 output	\$1287.00
3A0808A	Handy LG mini radio transmitter - 9 output – uses Mini receiver	\$ 956.00
210182A	Universal valve driver 8 in/out	\$ 2288.00
210222A	Micro valve driver	\$ 486.00
003-010-0901	Antenna 916 MHz quarter wv.	\$ 97.00
062-010-0142	Vinyl pouch handy transmitter	\$ 86.00
062-010-0145	Vinyl pouch mini transmitter	\$ 75.00

- *N.B. Models other than listed are available on request – please contact Hyspecs or visit our website for more information.*



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