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Standard Powerpack – modular build vertical HPS type



Description

The HPS Standard construction power packs are designed to utilise a standard range of modular components. This offers a power pack that can be easily specified and maintained.

Design

- Steel Tank 16, 30, 55, 75, 100 & 180 Litre
- Aluminium Gear pumps
- Pressures to 250 bar
- Flow rates to 100 litres/minute
- Suction filter 90 micron
- Return filter 25 micron
- Submerged Pump
- Cetop subplate options
- 1 phase to 3kW
- 3 phase to 30kW

Quality

- 100% functional testing
- Tanks with painted finish
- Motors IEC frame B5 IP55
- Supplied with C of C

Ordering Code

HPS - S - G4 - 6C - V - P - 3 - 16C - D - XXXX

Type

Motor type

S = 240V 1ph
T = 415V 3ph
H = 110V 1ph
N = None

Motor power

D = 0.55kW
E = 0.75kW
F = 1.1kW
G = 1.5kW
H = 2.2kW I
= 3.0kW J
= 4.0kW K
= 5.5kW L
= 7.5kW M
= 11kW N =
15kW O =
18.5kW P =
22kW Q =
30kW

Pump size

See page 4

Orientation

V = vertical

Interfluid build number

Accessories – optional

Oil Low Level switch = L
Thermostat = T
Air blast Cooler = A
Oil/Water Cooler = W
Hand Pump = P
Drain port boss ½”BSP = D
Heater = H
None = N

Type of Reservoir

16 Litre = 16C
30 Litre = 30C
55 Litre = 55C
75 Litre = 75C
100 Litre = 100C
180 Litre = 180C

Cetop plate

NG6 cetop03 (40lpm max) = 3
NG10 cetop05 (80lpm max) = 5
None = N

Manifold plate

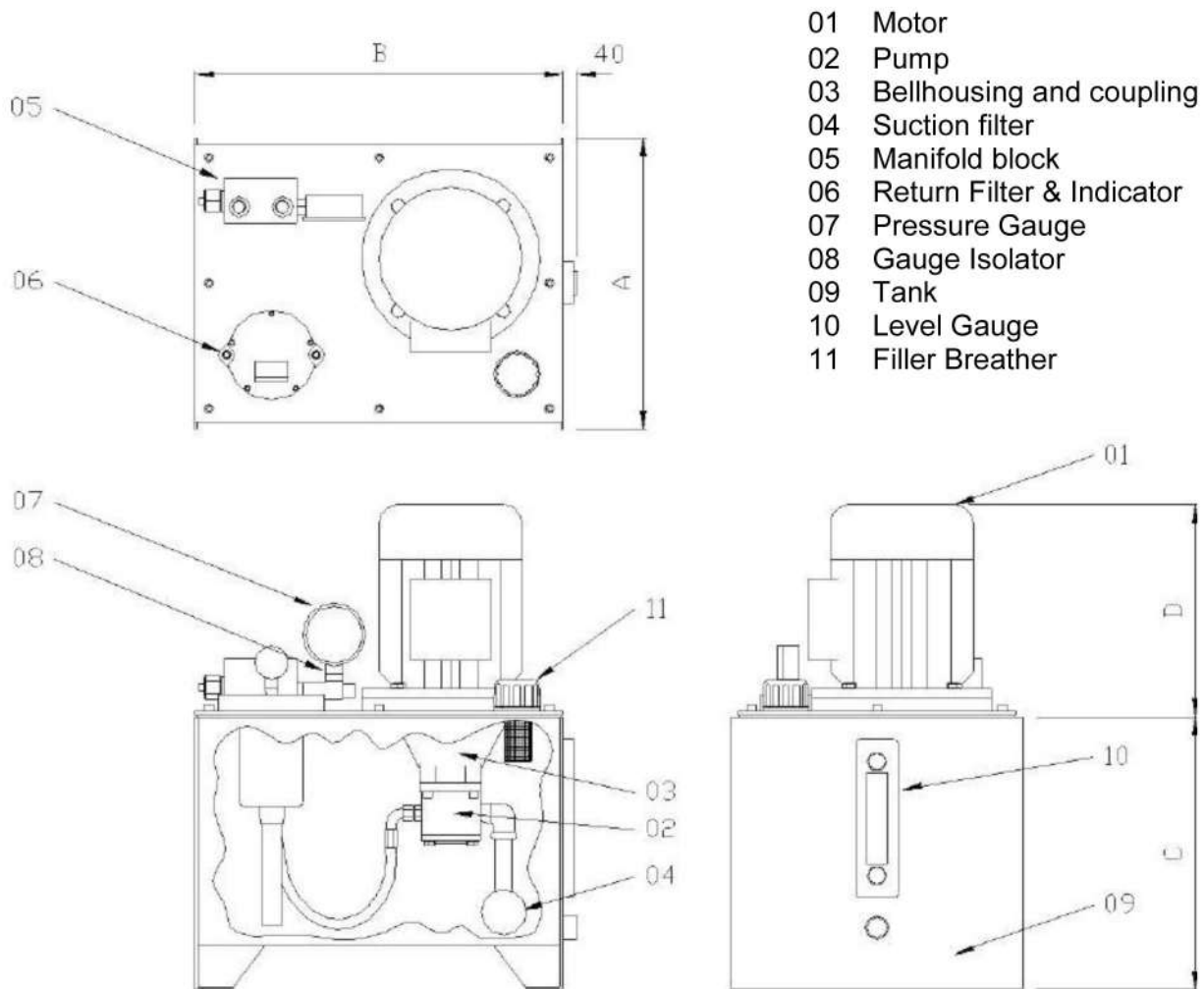
P-T BSP Ports with Relief Valve = P
Bespoke manifold system = X

Validity of all specifications and order codes must be confirmed with Interfluid sales department

Motor Selection

Motor power	Frame	Height “D”
D = 0.55kW	80a	250mm
E = 0.75kW	80b	250mm
F = 1.1kW	90S	264mm
G = 1.5kW	90L	288mm – maximum of 110V 1phase
H = 2.2kW	100La	322mm
I = 3.0kW	100Lb	322mm - maximum of 240V 1phase
J = 4.0kW	112M	353mm
K = 5.5kW	132S	380mm
L = 7.5kW	132Ma	421mm
M = 11kW	160M	496mm
N = 15kW	160L	496mm
O = 18.5kW	180M	539mm
P = 22kW	180L	539mm
Q = 30kW	200L	577mm

Power pack overview

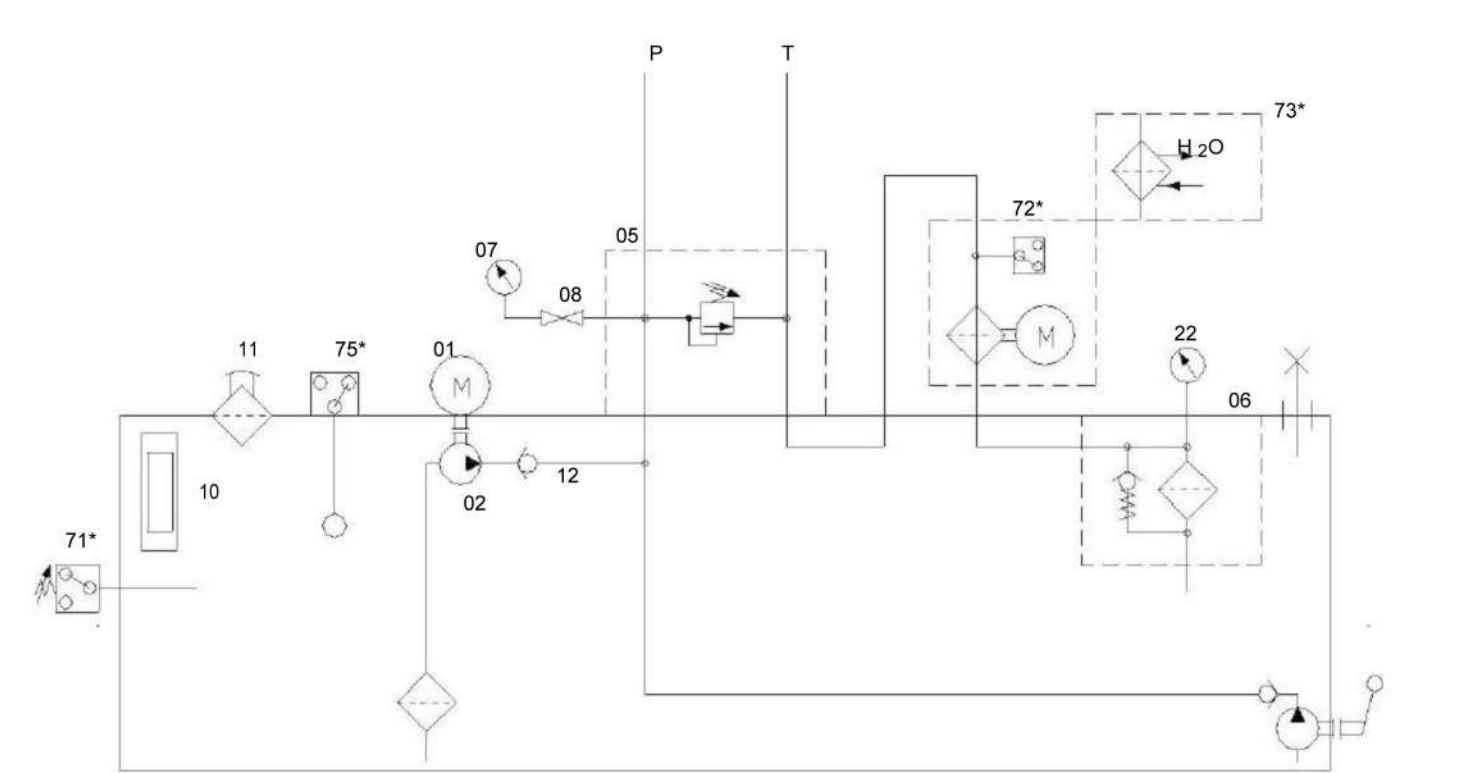


Tank	A	B	C	Pump size cc (litre per minute)	Motor size
16 litre	410 mm	325 mm	310 mm	from 1cc (1.45 lpm) to 9.8cc (14.2 lpm)	from 0.55kW to 1.5kW
30 litre	470 mm	375 mm	340 mm	from 3.15cc (4.5 lpm) To 14cc (20.3 lpm)	from 1.1kW to 4kW
55 litre	600 mm	470 mm	370 mm	from 6.3cc (9.1 lpm) to 22cc (31 lpm)	from 2.2kW to 7.5kW
75 litre	600 mm	470 mm	460 mm	from 12cc (17.4 lpm) to 32cc (46 lpm)	from 4kW to 7.5kW
100 litre	675 mm	520 mm	510 mm	from 12cc (17.4 lpm) to 36cc (52 lpm)	from 4kW to 22kW
180 litre	805 mm	620 mm	560 mm	From 20cc (29 lpm) To 60cc (87 lpm)	from 7.5kW to 30kW

Pump Selection

Pump No,	Displacement cc/rev	Flow at 1450rpm litres/minute	Max Pressure bar
1C	1	1.45	250
2C	1.25	1.8	250
3C	1.6	2.3	250
4C	2.0	2.9	250
5C	2.5	3.6	250
6C	3.15	4.5	250
7C	3.65	5.3	250
8C	4.2	6.1	250
9C	5.0	7.2	250
10C	6.1	8.8	200
11V	9.8	14.2	180
20C	6.3	9.1	250
21C	8.2	11.8	250
22C	10	14.5	250
23C	11.3	16.4	250
24C	12	17.4	250
25C	14	20.3	250
26C	15	21.7	250
27C	16	23.2	250
28C	19	27.5	200
29C	22	31	180
30C	20	29	250
31C	25	36	250
32C	28	40	250
33C	32	46	250
34C	36	56	250
35C	42	60	230
36C	46	66	230
37C	50	72	200
38C	55	79	200
39C	60	87	180

Hydraulic Circuit



* - OPTIONAL

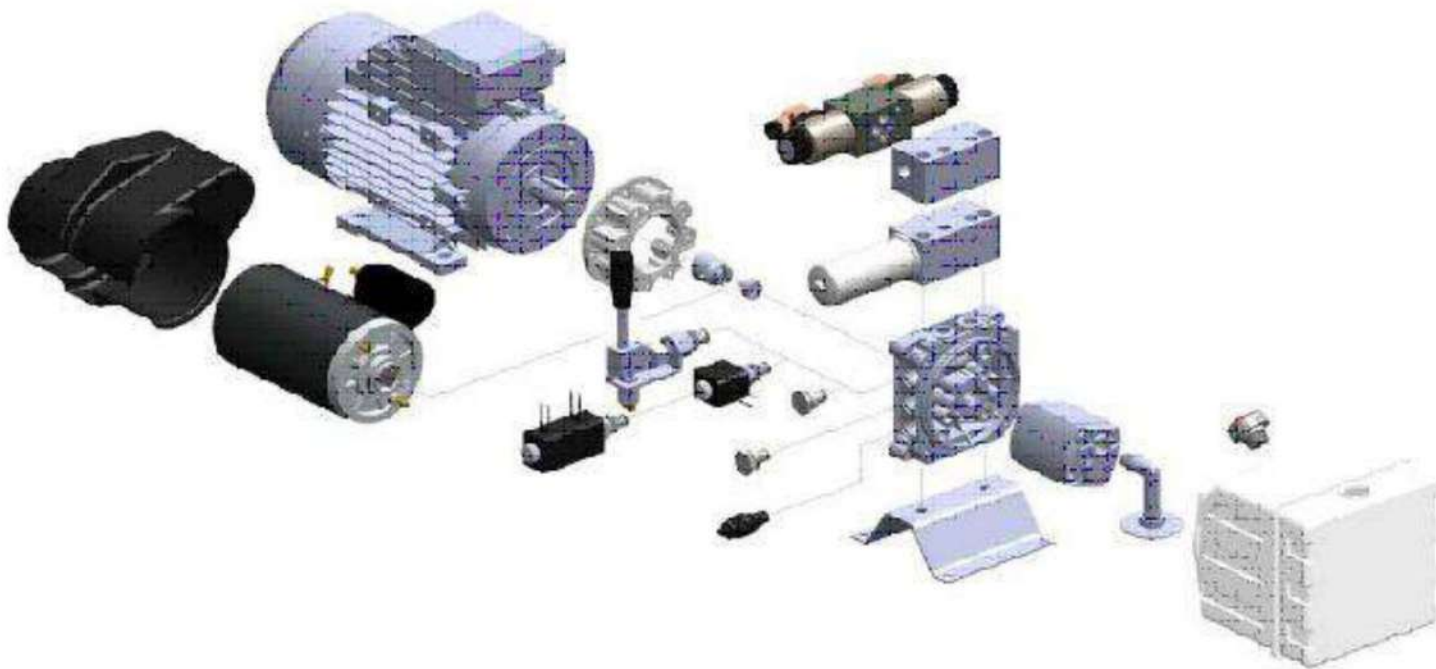
PUMP – MOTOR – TANK SELECTION

PUMP GROUP 1											PUMP GROUP 2											PUMP GROUP 3											bo/hr FLOW gpm	MOTOR (kw)	TANK SIZES AVAILABLE (LITRES)			
1	1.25	1.6	2.0	2.5	3.15	3.65	4.2	5	6.1	9.8	6.2	8	10	11	12	14	15	16	19	22	20	25	28	32	36	42	46	50	55	60								
1.5	1.8	2.3	2.9	3.6	4.6	5.3	6.1	7.3	8.8	14.5	9.1	11.9	14.5	16.4	17.4	20.3	21.8	23.2	27.6	31.9	20.9	36.3	40.6	46.4	52.5	60.9	66.7	72.5	79.8	87								
209	167	130	104	83	66	57	50	42	34	21																							0.55	16				
250	228	178	142	114	90	78	68	57	47	29	45	35	28	25	24	20	19	18	15	13													0.75	16				
		250	250	209	167	132	114	99	83	68	43	66	51	42	37	35	30	28	26	22	19												1.1	16	30			
			250	228	181	156	135	114	93	68	60	69	57	50	47	41	38	36	30	26													1.5	16	30			
				250	250	229	199	167	137	85	132	102	83	74	70	60	56	52	44	38	42	33	30	26	23	20	18	17	15	14			2.2	30	55			
						250	250	228	187	116	181	139	114	101	95	81	76	71	60	52	57	46	41	36	32	27	25	23	21	19			3	30	55			
								250	200	155	241	185	152	134	126	108	101	95	80	69	76	61	54	47	42	36	33	30	28	25			4	30	55	75	100	
									180		250	250	209	185	174	149	139	130	110	95	104	83	75	65	58	50	45	42	38	35			5.5	55	75	100		
													250	250	237	203	190	178	150	129	142	114	102	89	79	68	62	57	52	47			7.5	55	75	100	180	
															250	250	250	250	200	180	209	167	149	130	116	99	91	83	76	70			11			100	180	
																					250	228	203	178	158	135	124	114	103	95			15			100	180	
																						250	250		19	195	167	153	140	128	117			18.5			100	180
																								250	232	199	181	167	152	139			22			100	180	
																									250	230	230	200	200	180			30				180	

Eg. Group1 pump with 3.15cc/rev gives flow rate of 4.6lpm, Max Pressure of 181bar, Motor 1.5kW, 30 Litre Tank

Design notes:-

In general the tank volume should be a minimum 3 times the flow rate. Eg – 30lpm flow = 100 Litre Tank



HPM Mini Pack

HPM Mini Packs modular design offers a flexible basis for a wide range of mobile and industrial hydraulic systems. Available for AC or DC power from 0.18 to 5.5 kW in single and double-acting formats with flows up to 30 litres/minute and pressures of 250 bar.

Typical Mini Pack applications include:

- ☐ Waste Compactor/Balers
- ☐ Tipping Trucks and Trailers
- ☐ Lifts (Direct and Scissor)
- ☐ Road Blockers and Bollards
- ☐ Industrial machines

Interfluid have a proven record of performance.

- ☐ 100% testing
- ☐ Wide application knowledge
- ☐ Large stock holding
- ☐ Fast deliveries
- ☐ Product support
- ☐ Ability to tailor designs
- ☐ Global customer base
- ☐ 3D modelling facilities

HPM Mini Pack

HPM Mini Aggregate bieten einen modularen Aufbau, eine flexible Basis und eine breite Palette von mobilen und industriellen Hydrauliksystemen. Verfügbar für AC-oder DC-von 0,18 bis 5,5kW in Einzel-und doppelt wirkende mit Systems Strömungen bis 30l/min und Drücken von 250bar.

Typische Anwendungen sind

- ☐ Müllpresse/Pressen
- ☐ Kippenhanger
- ☐ Scherenhubbische
- ☐ Sicherheits Poller
- ☐ industrielle Maschinen

Interfluid haben eine nachgewiesene reputation.

- ☐ Erfahrung in vielen Anwendungen bereiche
- ☐ Kurze Lieferzeiten
- ☐ Großes Teilelager
- ☐ Kundenservice
- ☐ Kundenspezifische Produkte
- ☐ 3D Produkt design

HPM Mini Pack

HPM Mini Packs diseño modular ofrece una base flexible para una amplia gama de sistemas hidráulicos industriales y móviles. Disponibles para la energía AC o DC desde 0,18 hasta 5,5 kW en formato simple y doble, con caudales de hasta 30 litros / minuto y presiones de 250 bar.

Las aplicaciones típicas incluyen paquete de Mini:

Compactador de residuos / Empacadoras
Camiones y remolques de vuelco
Ascensores (directa y de tijera)
Bloqueo de carreteras y bolardos
máquinas industriales

Interfluid tienen un historial comprobado de desempeño.

100% de las pruebas
Conocimiento de las aplicaciones de ancho
Amplio stock celebración
entregas rápidas
de soporte de producto
Capacidad de adaptar los diseños
Base global de clientes
Las instalaciones de modelado en 3D



HPM Mini power pack range

DC Motor Range

AC Motor

Motor connection flanges and drive couplings

"W" Gear Pumps

"G" Gear Pumps

Group 0 Gear pumps and adaptors

Orientation

Central Manifold - Types and Circuits

Electric Solenoid Cartridge Valve

Manual Lever Cartridge Valve

Flow Control Insert

Plastic Reservoirs

Steel Reservoirs (Cylindrical)

Steel Reservoir (Rectangular)

Stacking plates for Cetop03 Directional Control Valves

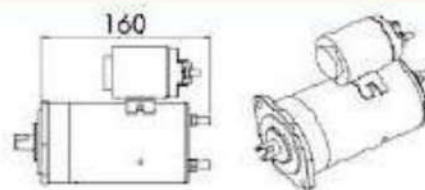
Stacking plates

Customer specific build number

DC MOTORS

DC Motors — 0.5kW and 0.8kW IP44

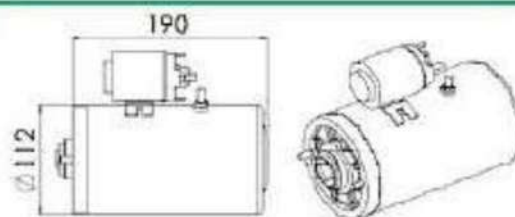
HP4143 12V 0.5kW	105
HP145 12V 0.8kW	108
HP4144 24V 0.5kW	205
HP4146 24V 0.8kW	208



for performance data see page 14

DC Motors — 1.8kW and 2kW with start switch and thermal protection IP54

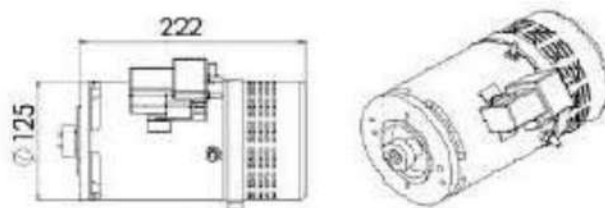
HP4421-12V 1.8kW	120
HP4421-24V 2kW	220



for performance data see page 15

DC Motors — 3kW Fan Cooled with heavy duty start switch IP24

EC3/2.4/35.15 + SW80	23F
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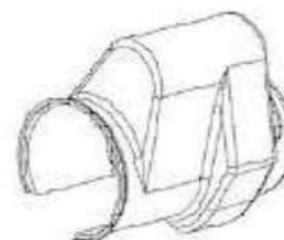


for performance data see page 16

DC MOTOR ACCESSORIES

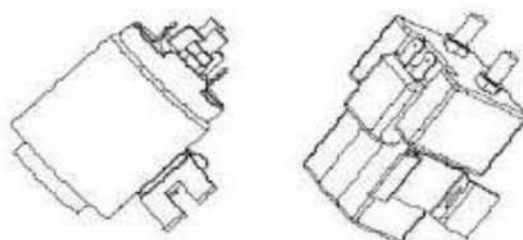
DC Motors — Protection Cover

UP9 Clip-on Motor cover (1.8 and 2kW Motors only)



DC Motors — Start Switch

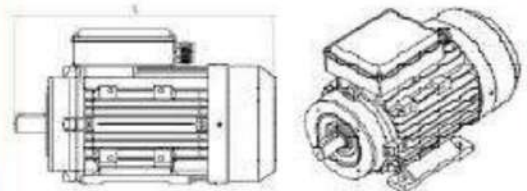
HP4454-12 12V 200Amp Start switch
HP4454-24 24V 150 Amp Start switch
SW80 24V 250 Amp Heavy Duty Start Switch



MOTOR TYPE

AC Motors — 1 phase 240V 50Hz B34 IEC

0.37kW 2pole 71 frame	L = 180	
0.55kW 2pole 71 frame	180	SD2
0.75kW 2pole 80 frame	250	SE2
1.1kW 2pole 80 frame		
1.5kW 2pole 80 frame *	250	SF2
2.2kW 2pole 90 frame	250	SG2
3.0kW 2pole 100 frame	285	SH2
0.37kW 4pole 71 frame	315	SI2
0.55kW 4pole 80 frame	180	SC4
0.75kW 4pole 80 frame	180	SD4
1.1kW 4pole 90 frame	250	SE4
1.5kW 4pole 90 frame	285	SF4
2.2kW 4pole 100 frame	285	SG4
3.0kW 4pole 100 frame	285	SH4
	285	SI4



Permanent capacitor motors are preferred with a 0.5-0.9 FLT starting torque.

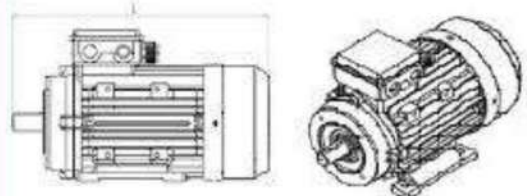
Capacitor start/run motors have a high starting torque.

All motors are aluminium body with a multi-mount feet. Insulation Class F, IP55 protection.

IP65 options available

AC Motors — 3 phase 380/415V 50Hz B34 IEC

0.37kW 2pole 71 frame	L=211	TC2
0.55kW 2pole 71 frame *	225	TD2
0.75kW 2pole 80 frame *	250	TE2
1.1kW 2pole 80 frame	250	TF2
1.5kW 2pole 80 frame *	250	TG2
2.2kW 2pole 90 frame	317	TH2
3kW 2pole 100 frame	309	TI2
4kW 2pole 100 frame *	327	TJ2
5.5kW 2pole 112 frame	335	TK2
0.37kW 4pole 71 frame	180	TC4
0.55kW 4pole 71 frame *	225	TD4
0.75kW 4pole 80 frame	250	TE4
1.1kW 4pole 80 frame	250	TF4
1.5kW 4pole 90 frame	287	TG4
2.2kW 4pole 90 frame *	317	TH4
3.0kW 4pole 100 frame	285	TI4
4.0kW 4pole 100 frame *	285	TJ4
5.5kW 4pole 112 frame		



Dual European voltages, up to 3kW 230/400 above 400/690V. Dual 50/60Hz rated.

S1 Continuous Duty S1. Thermistors PTC.

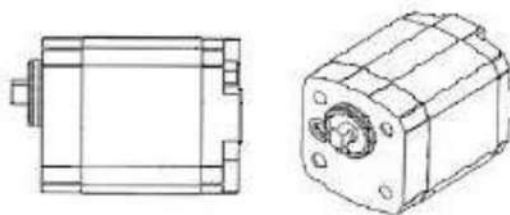
All motors are aluminium body with a multi-mount feet. Insulation Class F, IP55 protection.

IP65 and Explosion proof options available

HYDRAULIC PUMPS

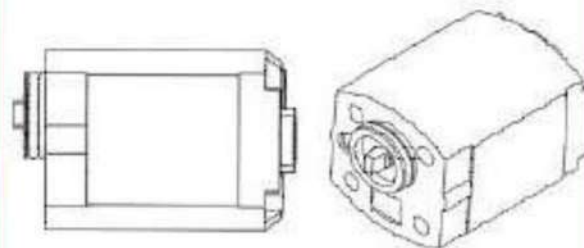
Gear Pump group 0

Size cm ³	PMax	Type
0.25	180	02C
0.50	180	05C
0.75	250	07C



Gear Pump group 1

Size cm ³	P _(nom)	Type	P _(nom)	Type	P _(peak)	Type
0.7	210	07W				
1.0	210	10W	250	10C	300	11G
1.3	210	13W	250	12C		13G
1.6	210	16W	250	16C	300	16G
2.0	210	20W	250	21C	300	21G
2.5	210	25W	250	25C	300	25G
3.3	210	33W	250	36C	280	32G
4.2	210	42W	250	42C		
4.8	210	48W	250	50C		
5.8	180	58W	210	58C		
7.8			180	78C		
8.8			150	88C		
9.8			230	98V		

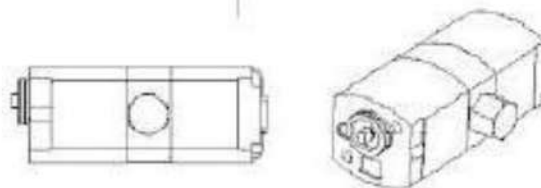
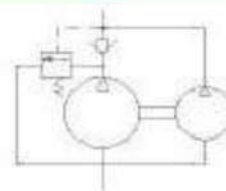


Group 1 pumps are available in three types, "W" is the standard option. Type C give higher pressures and larger displacements. Type "G" is a cast iron flanged pump for extended life in extreme applications.

Tandem Gear Pump group 1—Hi-Lo Pump

Size cm ³	Type
0.7cc+4.2cc with built-in unloading valve	4207W

W pumps have a built-in valve to unload the rear pump at low pressure, the high pressure front pump is set by the power pack relief valve.



HYDRAULIC PUMP ACCESORIES

Pump Accessories

Buffer Valve



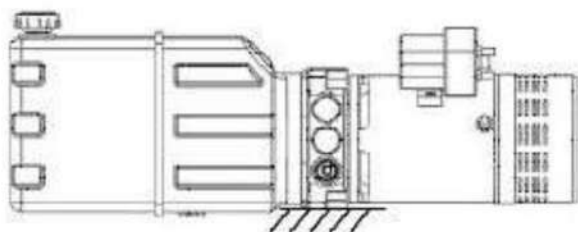
By-pass valve enables the pump to start off-load when using a Permanent capacitor motor. 3/8" BSP

MOUNTING

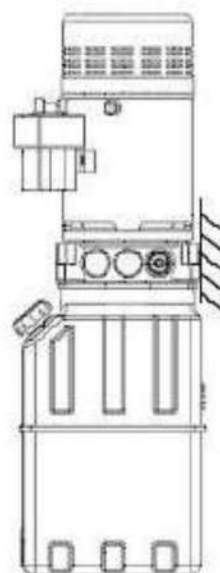
Orientation

Position	Type
Horizontal	H
Vertical	V
Bulkhead	B
Underneath	U

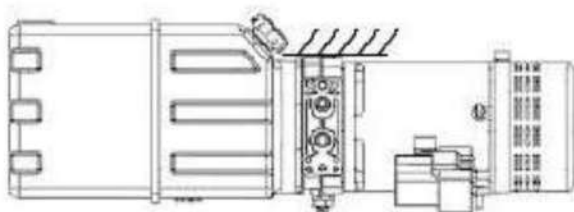
Horizontal



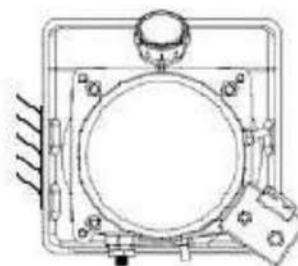
Vertical



Underneath



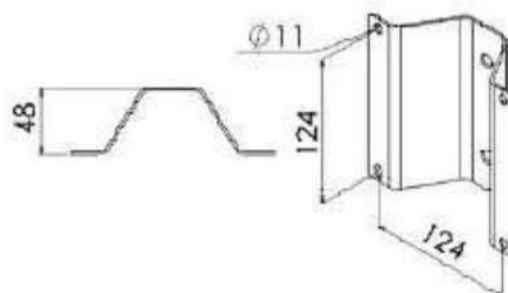
Bulkhead



ACCESSORIES

Mounting Bracket

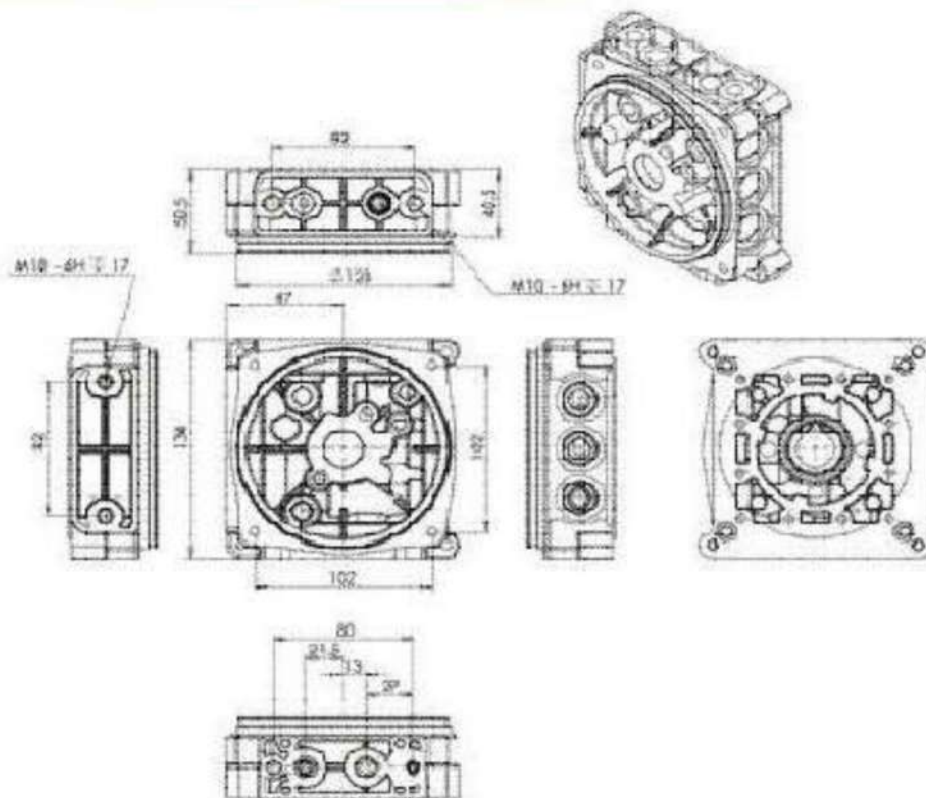
HP150015 Mounting Bracket



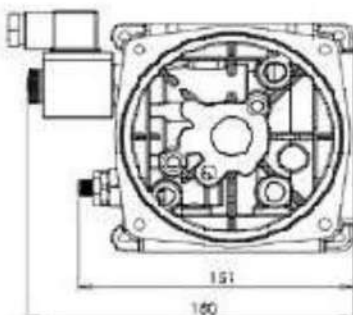
CENTRAL MANIFOLD

Orientation

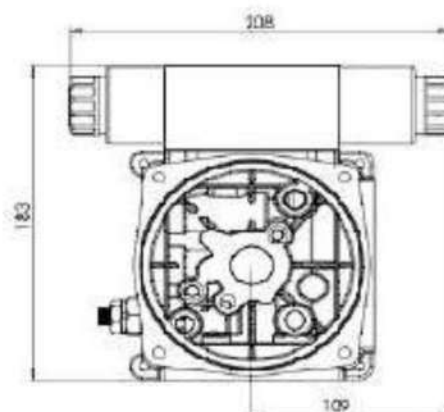
Manifold	Type
1/4" BSP with Group1 Pump	S
1/4" BSP with Group0 Pump	P
3/8" BSP with Group1 Pump	R
1/4" BSP Double Acting for Cartridge Valve	D



Single Acting Solenoid Valve

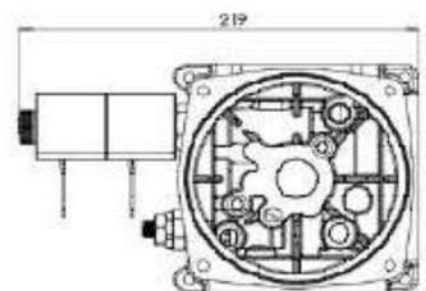


Double Acting with NG6 Valve



Double Acting with Solenoid

Cartridge Valve



Single Acting Cartridge Valve

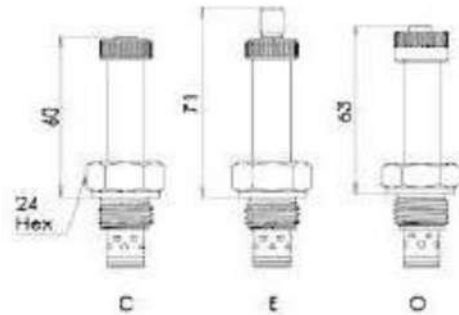
Solenoid Operated

Description

Normally Closed Poppet
Normally Closed Poppet with Emergency Override
Normally Open Poppet—use 22Watt coils only

Type

C
E
O

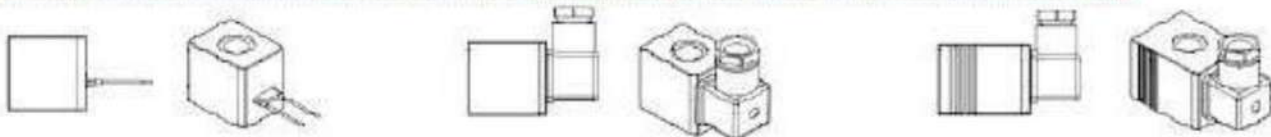


Solenoid Coils

Description

Voltages

18W with Flying leads	12VDC, 24VDC
18Watt with DIN connector	12VDC, 24VDC, 24VAC, 110VAC, 240VAC
22Watt with DIN connector	12VDC, 24VDC, 24VAC, 110VAC, 240VAC



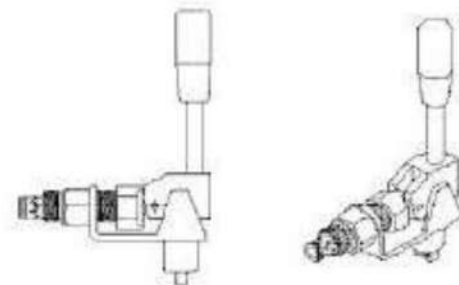
Lever Operated

Description

Normally Closed with Microswitch

Type

L



Flow Control Insert

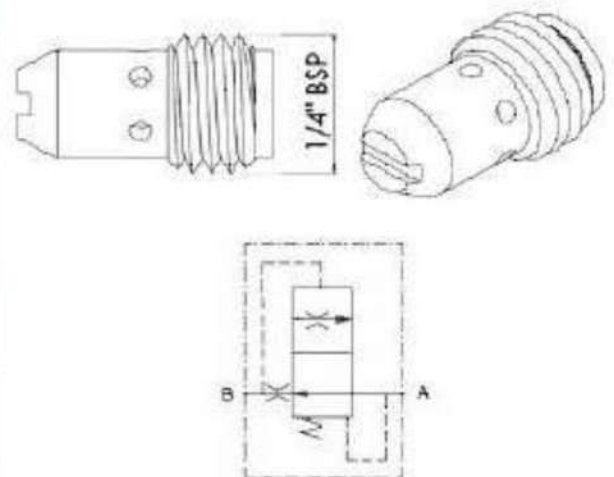
Pressure Compensated Fixed Flow Insert

Description

Type

VSCF01— 1 l/min
VSCF02— 2 l/min
VSCF03— 3 l/min
VSCF04— 4 l/min
VSCF05— 5 l/min
VSCF06— 6 l/min
VSCF07— 7 l/min
VSCF08— 8 l/min
VSCF09— 9 l/min
VSCF010— 10 l/min

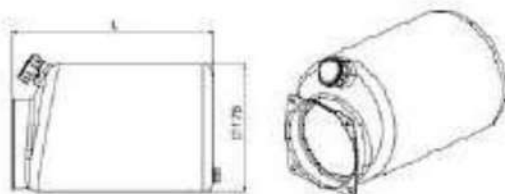
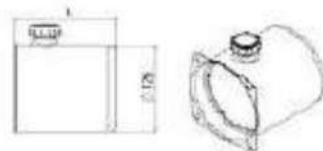
1
2
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10



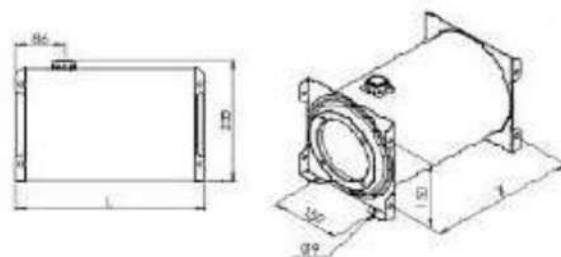
Steel Oil Tank

Cylindrical

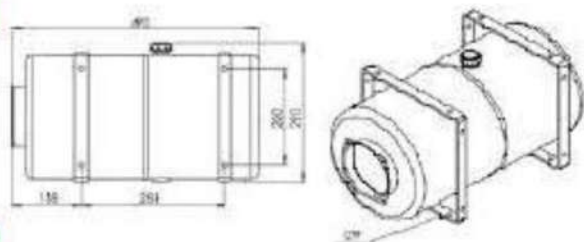
Description	Length	Type
1 Litre Steel	139	01S
2 Litre Steel	218	02S
4 Litre Steel	235	04S
5 Litre Steel	270	05S
8 Litre Steel	380	08S



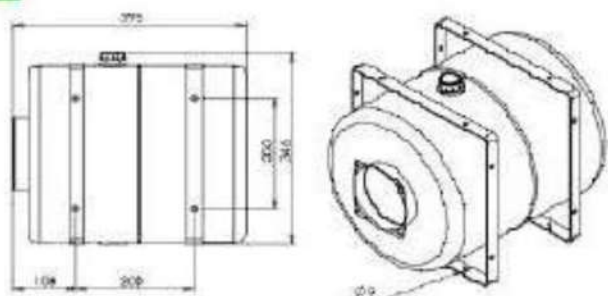
10 Litre Steel	X=322	340	10S
15 Litre Steel	X=472	490	15S



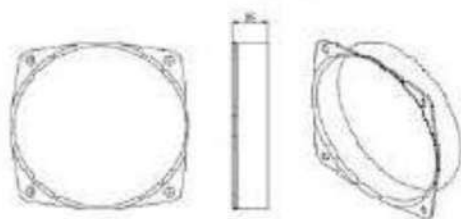
23 Litre Steel			23S
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30 Litre Steel			30S
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Weld Collar			NWC
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Accessories