

techhose

QUALITY CONNECTIONS

Hydraulics

Pneumatics
& Vacuum

Industrial

Compressed Air
& Ring Main

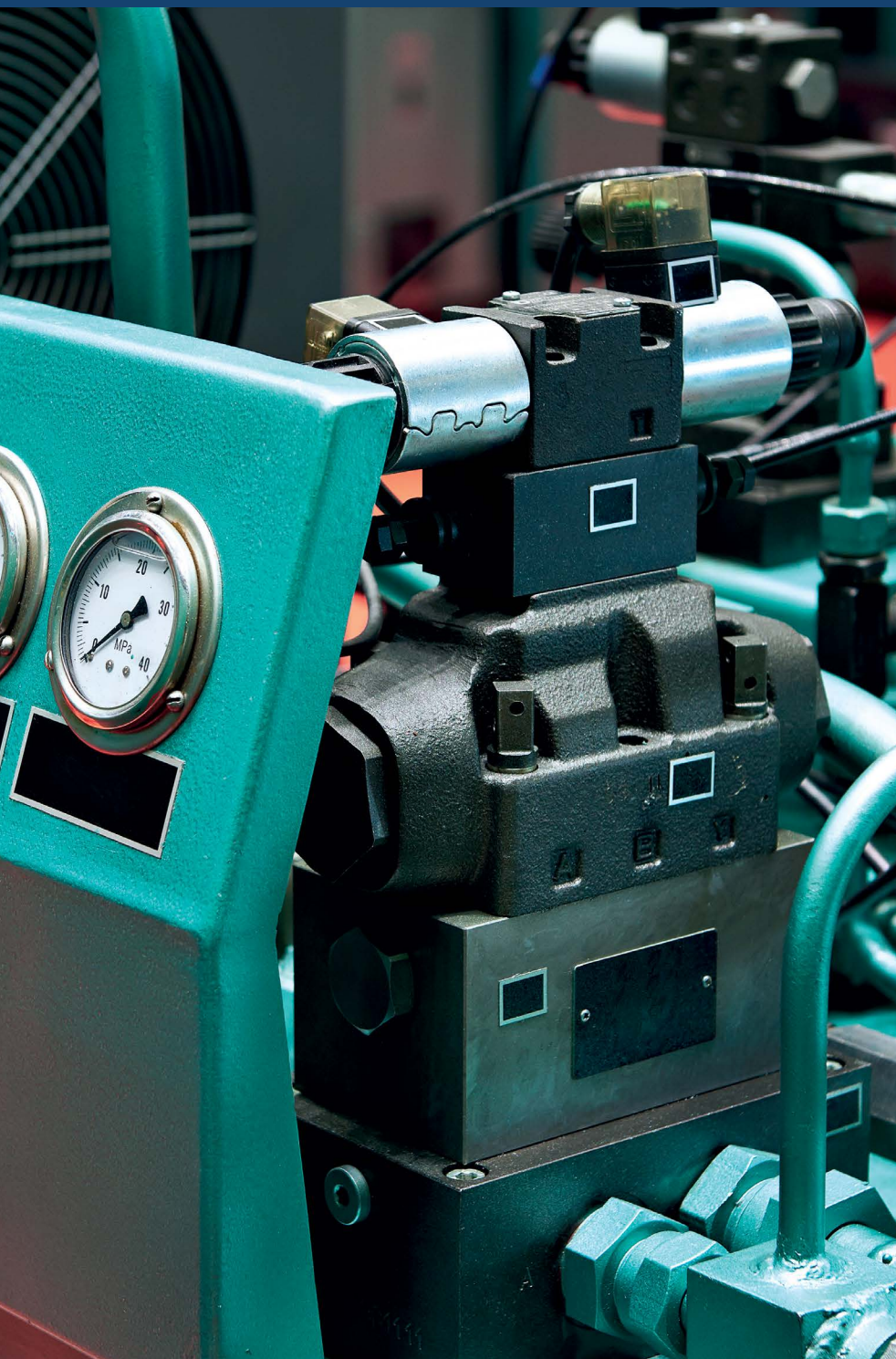
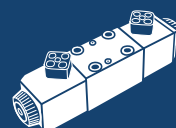
Process &
Instrumentation

Hydraulics

Valves & Pumps

SECTION 3

Valves & Pumps



- Hydraulic Piston Pumps
- Hydraulic Vane Pumps
- Solenoid Operated Directional Valves
- Hydraulic Hand Pumps
- Hydraulic Gear Pumps
- Hydraulic Ball Valves
- Hydraulic Control Valves
- Stainless Steel Hydraulic Ball Valves
- Actuation Hydraulic Valves
- Monoblock Hydraulic Valves
- Hydraulic Accumulators & Accessories
- Hydraulic Cooling Equipment
- Anti-vibration Mounts



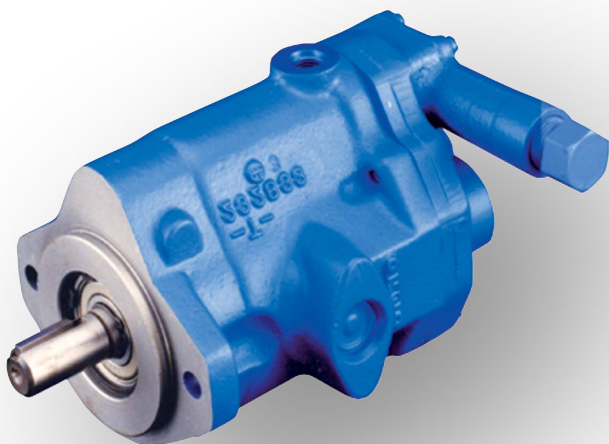
Amera Cetop 3 & 5 Manifold Blocks & Auxiliary Plates	862
Amera Cetop 3 & 5 System Stack Valves	861
Amera Directional Cetop 3 Valves	857-858
Amera Directional Cetop 5 Valves	859-860
Anti-vibration Levelling Feet & Buffers	890
Anti-vibration Mounts & Bobbins	889
Bowman Complete Water Cooler Spares	888
Bowman EC, FC & FG Series Complete Water Coolers	887
Eaton Vickers Cetop 3 System Stack Valves	849
Eaton Vickers Cetop 5 System Stack Valves	854
Eaton Vickers Directional Cetop 3 Valves	846-848
Eaton Vickers Directional Cetop 5 Valves	851-853
Eaton Vickers Piston Pumps	842
Eaton Vickers Replacement Coils & Accessories	855
Eaton Vickers Vane Pumps & Accessories	843-844
Hand Operated Pumps	864-865
Hydraulic Ball Valves	868-871

Hydraulic Diverter Valves & Gauge Isolation Valves	876
Hydraulic Gear Pumps	866
Hydraulic Gear Pump Accessories	867
Hydraulic Needle Valves	872
LHA Needle Valves & Check Valves	875
MHA Ball Valves & Needle Valves	874
Monoblock Valves	880-882
Parker Cetop 3 & 5 Valves and Accessories	863
Parker Olaer Compact Water/Oil Coolers	886
Parker Olaer Hydra-Cushions, Bladder Kits, Thermoswitches & Accessories	884
Parker Olaer Hydraulic Accumulators & Accessories	883
Parker Olaer Hydraulic Oil Coolers	885
Stainless Steel Hydraulic Ball Valves	873
Threaded Hydraulic Valves	877-879
Type P81 & P81RS Log Splitter Valves	882

V10 and PVQ Piston Pumps



EATON



Attributes that Go On and On: Reliable, Quiet, Compact, Long Life, Serviceable...

1. Vane Motors

The cartridge kit design makes for uptime and easy serviceability. Additionally, a low break out force smooths out the start-up speed allowing for vane motors to be more forgiving to system pressure spikes. Vane motors offer an efficient and economical means of applying variable speed, rotary hydraulic power and offer variable horsepower (constant torque). They can be stalled under load without damage when protected by a relief valve.

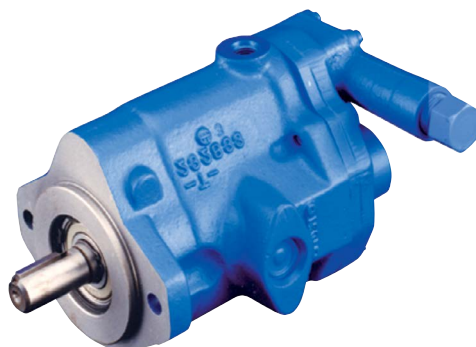
Applications: Plastic injection molding and conveyors.

2. VMQ Pumps

The Vickers VMQ is the world leader in pressure capacity and noise levels and is available in a complete range of singles, doubles, triples and thru-drives. The unique wafer plate design of the VMQ allows for the increase in viscosity and pressure rise during cold start-up-something that competitors do not have.

Applications: Winches, oil field and drilling equipment, earth moving and construction equipment, die casting, molding machines, press machines, trash compactors, balers and primary metals.





Q Series Piston Pump

210 bar, SAE A Flange, Keyed Shaft

3017	Displacement cc/rev	Manufacturer's Code
02-341576	10.5	PVQ10 A2R SE1S 20 C21 12
Tech Sheet 10045		

140 bar, SAE A 2 Bolt Flange, Keyed Shaft

3017	Displacement cc/rev	Manufacturer's Code
02-341644	13.8	PVQ13 A2R SE1S 20 C14 12
Tech Sheet 10045		

210 bar, SAE B 2 Bolt Flange, Keyed Shaft

3017	Displacement cc/rev	Manufacturer's Code
02-341552	21.1	PVQ20 B2R SE1S 21 C21 12
Tech Sheet 10045		

140 bar, SAE B 2 Bolt Flange, Keyed Shaft

3017	Displacement cc/rev	Manufacturer's Code
02-341685	32.9	PVQ32 B2R SE1S 21 C14 12
Tech Sheet 10045		

210 bar, SAE B 2 Bolt Flange, Keyed Shaft

3017	Displacement cc/rev	Manufacturer's Code
02-341949	41.0	PVQ40AR01AB01AB10G2100000100100CDOA
Tech Sheet 10045		

Q Series Piston Pump Compensator

Standard Compensator

3017	To Suit
9900224-003	PVQ10, 13, 20, 32
02-348260	PVQ40
Tech Sheet 10045	

CM Low Pressure Compensator

3017	To Suit
9900224-002	PVQ10,13,20,32
02-348259	PVQ40
Tech Sheet 10045	

CG Hydraulic Remote Compensator

3017	To Suit
02-348243	PVQ10,13,20,32,40
Tech Sheet 10045	

C**V**B Load Sensing Compensator

3017	To Suit
02-466861	PVQ10,13,20,32
Tech Sheet 10045	

Q Series Piston Pump Stroke Adjustment Kit

Maximum Stop/Stroke Limiter

3017	To Suit
5986572-001	PVQ10,13
5986574-001	PVQ20,32
5986576-001	PVQ40
Tech Sheet 10045	

Q Series Piston Pump Seal Kits

Standard Buna Material

3017	To Suit
919191	PVQ10,13
919682	PVQ20,32
920227	PVQ40
Tech Sheet 10045	

Other options available, contact us with your requirements



V10 Series

SAE A 2 Bolt Mounting, Keyed Shaft, BSPP Ports

3017	Displacement cc/rev	Max Pressure Bar	Manufacturer's Code
708371-C	6.60	172	V10 1B2B 1C 20
708784-C	9.80	172	V10 1B3B 1C 20
708785-C	13.10	172	V10 1B4B 1C 20
708219-C	16.40	172	V10 1B5B 1C 20
708786-C	19.50	152	V10 1B6B 1C 20
708787-C	22.80	138	V10 1B7B 1C 20
Tech Sheet 10095			

V20 Series

SAE A 2 Bolt Mounting, Keyed Shaft, BSPP Ports

3017	Displacement cc/rev	Max Pressure Bar	Manufacturer's Code
707277-C	19.5	172	V20 1B6B 1C 11 EN1000
708397-C	22.80	172	V20 1B7B 1C 11 EN1000
706996-C	26.5	172	V20 1B8B 1C 11 EN1000
707278-C	29.7	172	V20 1B9B 1C 11 EN1000
706997-C	36.40	172	V20 1B11B 1C 11 EN1000
708398-C	39.0	152	V20 1B12B 1C 11 EN1000
706998-C	42.4	152	V20 1B13B 1C 11 EN1000
Tech Sheet 10095			

25V Series

SAE B 2 Bolt Mounting, Keyed Shaft, SAE Flanged Ports

3017	Displacement cc/rev	Max Pressure Bar	Manufacturer's Code
02-137109-CR	39	172	25V 12A 1C 22R
02-137110-CR	45	172	25V 14A 1C 22R
02-137113-CR	55	172	25V 17A 1C 22R
02-137117-CR	67	172	25V 21A 1C 22R
Tech Sheet 10097			

35V Series

SAE C 2 Bolt Mounting, Keyed Shaft, SAE Flanged Ports

3017	Displacement cc/rev	Max Pressure Bar	Manufacturer's Code
02-137124-CR	81	172	35V 25A 1C 22R
02-137126-CR	97	172	35V 30A 1C 22R
02-137129-CR	112	172	35V 35A 1C 22R
02-137132-CR	121	172	35V 38A 1C 22R
Tech Sheet 10097			

45V Series

SAE C 2 Bolt Mounting, Keyed Shaft, SAE Flanged Ports

3017	Displacement cc/rev	Max Pressure Bar	Manufacturer's Code
02-137140-CR	138	172	45V 42A 1C 22R
02-137144-CR	162	172	45V 50A 1C 22R
02-137146-CR	193	172	45V 60A 1C 22R
Tech Sheet 10097			

Replacement Parts



V10 Cartridge Kits

3017	Displacement cc/rev	To Suit
923471	3.3	V10 1G Cartridge Kit
923470	6.6	V10 2G Cartridge Kit
923496	9.8	V10 3G Cartridge Kit
923469	13.10	V10 4G Cartridge Kit
923468	16.40	V10 5G Cartridge Kit
923497	19.5	V10 6G Cartridge Kit
923498	22.80	V10 7G Cartridge Kit

V20 Cartridge Kits

3017	Displacement cc/rev	To Suit
02-137560	19.5	V20 6G Cartridge Kit
02-137561	22.80	V20 7G Cartridge Kit
02-137562	26.5	V20 8G Cartridge Kit
02-137563	29.7	V20 9G Cartridge Kit
02-137565	36.40	V20 11G Cartridge Kit
02-137566	39.0	V20 12G Cartridge Kit
02-137567	42.4	V20 13G Cartridge Kit

25V Cartridge Kits

3017	Displacement cc/rev	To Suit
02-102532	39	25V 12G Cartridge Kit
02-102533	45	25V 14G Cartridge Kit
02-102534	55	25V 17G Cartridge Kit
02-102535	67	25V 21G Cartridge Kit

35V Cartridge Kits

3017	Displacement cc/rev	To Suit
02-102552	81	35V 25G Cartridge Kit
02-102553	97	35V 30G Cartridge Kit
02-102554	112	35V 35G Cartridge Kit
02-102555	121	35V 38G Cartridge Kit

45V Cartridge Kits

3017	Displacement cc/rev	To Suit
02-102572	138	45V 42G Cartridge Kit
02-102574	162	45V 50G Cartridge Kit
02-102575	193	45V 60G Cartridge Kit



Shafts

3017	To Suit
238929	25V No. 11 Splined Shaft
242287	35V No. 11 Splined Shaft
242885	45V No. 11 Splined Shaft
392669	35V No. 86 HD Keyed Shaft
361760	45V No. 86 HD Keyed Shaft
393536	Key to suit 392669
239751	Key to suit 361760



Seal Kits

3017	To Suit
923548	V10 Standard Seal Kit
919772	V10 F3 Seal Kit
922733	V20 Standard Seal Kit
919805	V20 F3 Seal Kit
922850	25V Standard Seal Kit
919656	25V F3 Seal Kit
922851	35V Standard Seal Kit
919262	35V F3 Seal Kit
919850	45V Standard Seal Kit
919632	45V F3 Seal Kit

Other options available, contact us with your requirements



Solenoid Operated Directional Valve DG4V-3-60 Design

General Description

Solenoid operated directional control valves are for directing and stopping flow at any point in a hydraulic system.

- Efficient control of greater hydraulic powers without increasing solenoid power consumption.
- Installed cost and space savings from higher power/weight-and-size ratios.
- Installation flexibility resulting from choice of numerous combinations of solenoid connectors and locations.
- Viton seals as standard for multi-fluid capability. Nitrile seals available as a model code option.
- Higher sustained machine productivity and higher uptime because of proven fatigue life and endurance, tested over 20 million cycles.
- Solenoid coils can be changed quickly and easily without leakage from hydraulic system.
- Compact, cost effective system design when used with Eaton® SystemStak™ valves and subplates.

DG4V3-S/R- High Performance and Standard Performance Valves

- Minimum pressure drop 2.5 bar at 30 l/min
- Range of coil connectors including DIN, Deutsch, AMP and terminal box
- Range of coil voltages and power options
- Up to 80 l/min (21 USgpm) and up to 40 l/min (10.5 USgpm) respectively at 350 bar (5000 psi).
- Offers designers the opportunity to select the optimum value package for each application.
- International standard interface. The valve mounting face conforms to ISO 4401, size 03 and is compatible with related international standards.

CETOP 3 Single Solenoid Directional Control Valves

Max flow rates up to 80 L/min.

Mounting interface.

ISO 4401 Size 3.

ANSI/B93.7M Size 3.

CETOP RP6SH Size 3.

DIN 24340 (NG6).

° Temperature Limits:

Min -20°C (-4°F)

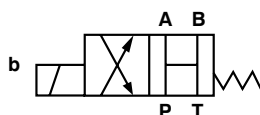
Max +70°C (+150°F)

° Working Temperature:

-20°C (-4°F) to +70°C (+150°F)

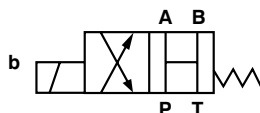
Maximum Working Pressure:

350 bar (5075 psi)



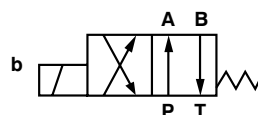
2 Position, All Ports Open, Spring Offset End to Centre

3019	Voltage	Manufacturer's Code
859160	24V DC	DG4V 3 0B M U H7 60
859195	110V AC	DG4V 3 0B M U A6 60
Tech Sheet 3111		



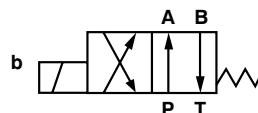
2 Position, All Ports Open, Spring Offset End to Centre, Water Resistant Override

3019	Voltage	Manufacturer's Code
869951	12V DC	DG4V 3 0B H M U G7 60
870804	24V DC	DG4V 3 0B H M U H7 60
Tech Sheet 3111		



2 Position, Spring Offset End to End

3019	Voltage	Manufacturer's Code
529762	24V DC	DG4V 3 2A M U H7 60
529763	110V AC	DG4V 3 2A M U A6 60
Tech Sheet 3111		



2 Position, Spring Offset End to End, Water Resistant Override

3019	Voltage	Manufacturer's Code
869959	12V DC	DG4V 3 2A H M U G7 60
870221	24V DC	DG4V 3 2A H M U H7 60
871358	110/120V 50/60Hz	DG4V 3 2A H M U B6 60
871505	220/240V 50/60Hz	DG4V 3 2A H M U D6 60
Tech Sheet 3111		

HYDRAULIC DIRECTIONAL CONTROL VALVES

EAT•N

Vickers

3



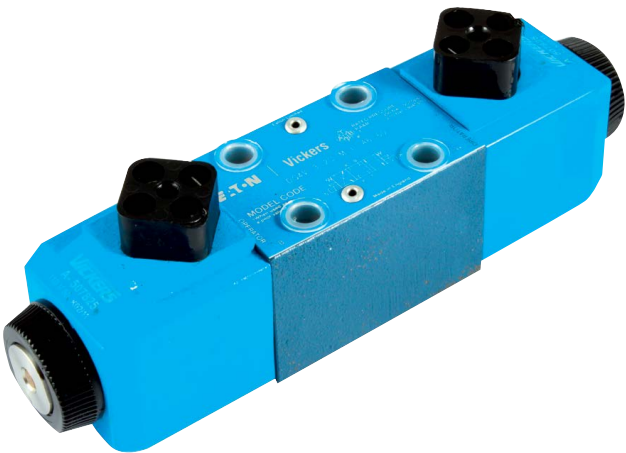
CETOP 3 Double Solenoid Directional Control Valves

Max flow rates up to 80 L/min.
Mounting interface.
ISO 4401 Size 3.
ANSI/B93.7M Size 3.
CETOP RP6SH Size 3.
DIN 24340 (NG6).

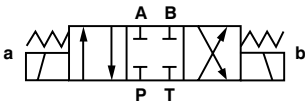
° **Temperature Limits:**
Min -20°C (-4°F)
Max +70°C (+150°F)

° **Working Temperature:**
-20°C (-4°F) to +70°C (+150°F)

° **Maximum Working Pressure:**
350 bar (5075 psi)



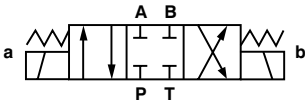
Valves & Pumps



3 Position, All Ports Closed, Spring Centred

3019	Voltage	Manufacturer's Code
529761	110V AC	DG4V 3 2C M U A6 60

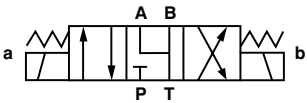
Tech Sheet 3111



3 Position, All Ports Closed, Spring Centred, Water Resistant Override

3019	Voltage	Manufacturer's Code
859172	220/240V	DG4V 3 2C H M U D6 60
870177	24V DC	DG4V 3 2C H M U H7 60
870378	12V DC	DG4V 3 2C H M U G7 60

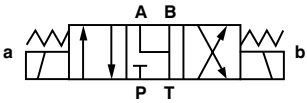
Tech Sheet 3111



3 Position, A, B & T Connected, Spring Centred

3019	Voltage	Manufacturer's Code
565465	24V DC	DG4V 3 6C M U H7 60
859177	110V AC	DG4V 3 6C M U A6 60

Tech Sheet 3111



3 Position, A, B & T Connected, Spring Centred, Water Resistant Override

3019	Voltage	Manufacturer's Code
869952	12V DC	DG4V 3 6C H M U G7 60
869953	24V DC	DG4V 3 6C H M U H7 60
02-146111	110/120V 50/60Hz	DG4V 3 6C H M U B6 60

Tech Sheet 3111

Other voltages are available. Please contact our Business Development Team for more details.

HYDRAULICS

HYDRAULIC DIRECTIONAL CONTROL VALVES

EAT•N

Vickers

CETOP 3 Double Solenoid Directional Control Valves

Max flow rates up to 80 L/min.

Mounting interface.

ISO 4401 Size 3.

ANSI/B93.7M Size 3.

CETOP RP6SH Size 3.

DIN 24340 (NG6).

° Temperature Limits:

Min -20°C (-4°F)

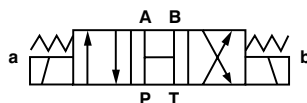
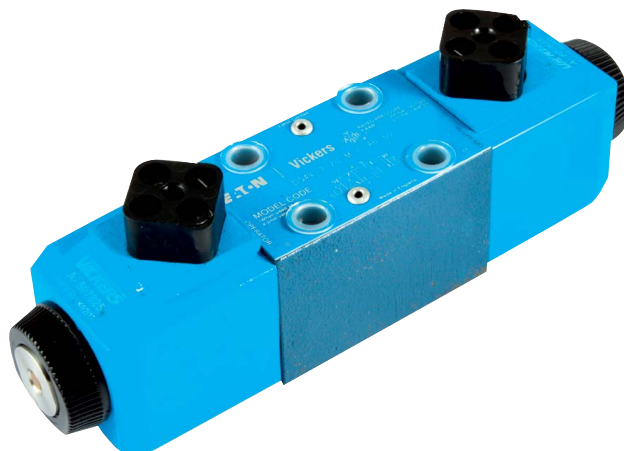
Max +70°C (+150°F)

° Working Temperature:

-20°C (-4°F) to +70°C (+150°F)

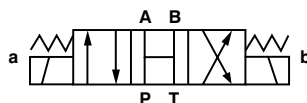
Maximum Working Pressure:

350 bar (5075 psi)



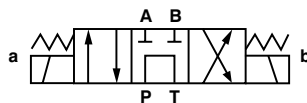
3 Position, All Ports Open, Spring Centred

3019	Voltage	Manufacturer's Code
859197	110V AC	DG4V 3 0C M U A6 60
Tech Sheet 3111		



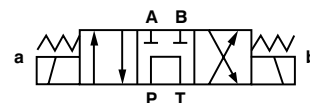
3 Position, All Ports Open, Spring Centred, Water Resistant Override

3019	Voltage	Manufacturer's Code
869960	24V DC	DG4V 3 0C H M U H7 60
870518	12V DC	DG4V 3 0C H M U G7 60
Tech Sheet 3111		



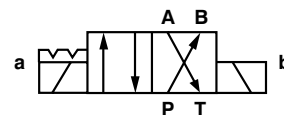
P & T Connected, A & B Blocked, Spring Centred

3019	Voltage	Manufacturer's Code
02-144961	110V AC	DG4V 3 8C VM U A6 61
02-145162	24V DC	DG4V 3 8C VM U H7 61
Tech Sheet 3111		



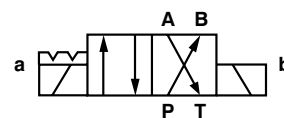
P & T Connected, A & B Blocked, Spring Centred, Water Resistant Override

3019	Voltage	Manufacturer's Code
02-353298	110/120V 50/60Hz	DG4V 3 8C H VM U B6 61
Tech Sheet 3111		



2 Position, Detented

3019	Voltage	Manufacturer's Code
529764	24V DC	DG4V 3 2N M U H7 60
529765	110V AC	DG4V 3 2N M U A6 60
Tech Sheet 3111		

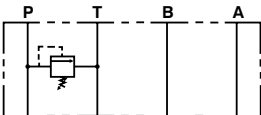


2 Position, Detented, Water Resistant Override

3019	Voltage	Manufacturer's Code
02-139074	24V DC	DG4V 3 2N H M U H7 60
Tech Sheet 3111		

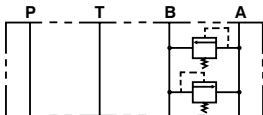
Other voltages are available. Please contact our Business Development Team for more details.

CETOP 3 Modules



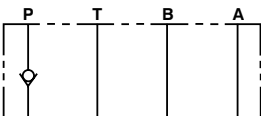
Single Line Relief Valves

3019	Pressure Range Bar	Manufacturer's Code
694419	10-200	DGMC 3 PT CW 41
869641	50-315	DGMC 3 PT GW 41
Tech Sheet 3111		



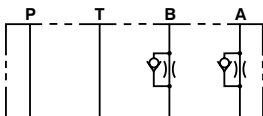
Dual Line Relief Valve

3019	Pressure Range Bar	Manufacturer's Code
869628	10-200	DGMC2 3 AB CW BA CW 41
Tech Sheet 3111		



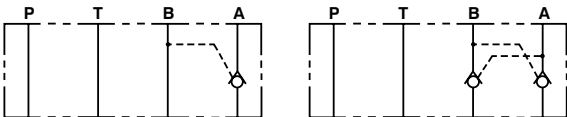
Direct Operated Check Valve

3019	Manufacturer's Code
694415	DGMD 3 Y PK 41
Tech Sheet 3111	



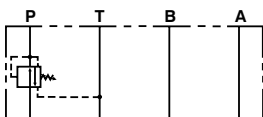
Flow Restrictors

3019	Description	Manufacturer's Code
694414	A & B Meter In	DGMFN 3 X A2W B2W 41
694412	A & B Meter Out	DGMFN 3 Y A2W B2W 41
870043	P Line	DGMFN 3 Z P2W 41
Tech Sheet 3111		



Pilot Operated Check Valves

3019	Description	Manufacturer's Code
870024	Single	DGMPC 3 ABK 41
694400	Double	DGMPC 3 ABK BAK 41
Tech Sheet 3111		

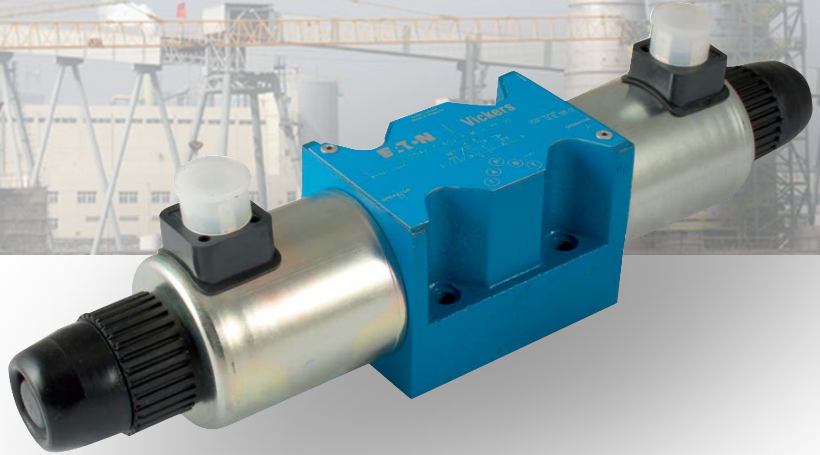


Pressure Reducing Valves

3019	Pressure Range Bar	Manufacturer's Code
870036	3.5-70	DGMX2 3 PP BW B 40
870038	20-250	DGMX2 3 PP FW B 40
Tech Sheet 3111		



Cetop 5 Valves



Solenoid Operated Directional Valve DG4V-5-20 Design

General Description

A range of four-port solenoid operated directional control valves with four-land spool design to facilitate provision of smooth, variable valve response speeds.

The range includes:

- AC and DC wet-armature solenoid options with ISO 4400 (DIN 43650) electrical connections and manual overrides.
- Variable speed changeover potential in all DC models; see "Response Times" section.
- Many spool types; in spring-offset, spring centred and detented arrangements.
- Compact, cost effective system design when used with Eaton® SystemStak™ valves and subplates.

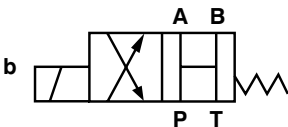
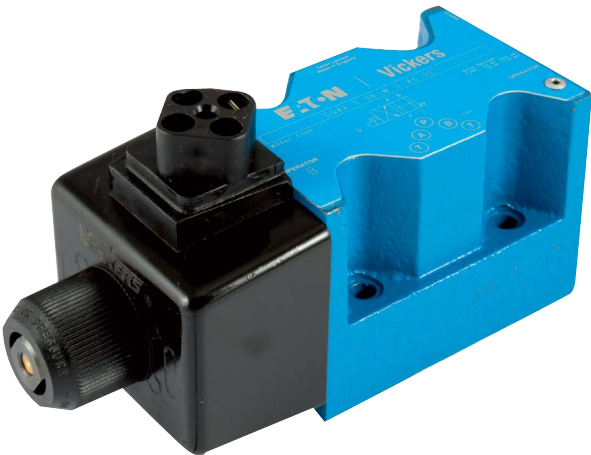
HYDRAULIC DIRECTIONAL CONTROL VALVES



CETOP 5 Single Solenoid Directional Control Valves

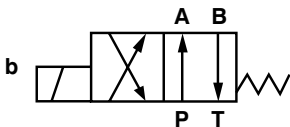
Max flow rates up to 120 L/min.
Mounting interface.
ISO 4401 Size 5.
NFPA D02
DIN 24340 (NG10).

- ° **Temperature Limits:**
Min -20°C (-4°F)
Max +70°C (+150°F)
- ° **Working Temperature:**
-20°C (-4°F) to +70°C (+150°F)
- ⌚ **Maximum Working Pressure:**
350 bar (5075 psi)



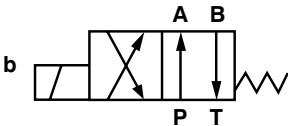
2 Position, All Ports Open, Spring Offset End to Centre

3019	Voltage	Manufacturer's Code
459215	110V AC	DG4V 5 0B M U A6 20
Tech Sheet 3112		



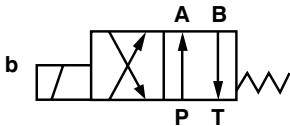
2 Position, Spring Offset End to End, Water Resistant Override

3019	Voltage	Manufacturer's Code
529678	24V DC	DG4V 5 2AJ H M U H6 20
Tech Sheet 3112		



2 Position, Spring Offset End to End, Notched Spool

3019	Voltage	Manufacturer's Code
616768	24V DC	DG4V 5 2AJ M U H6 20
Tech Sheet 3112		

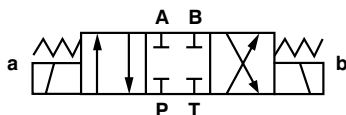
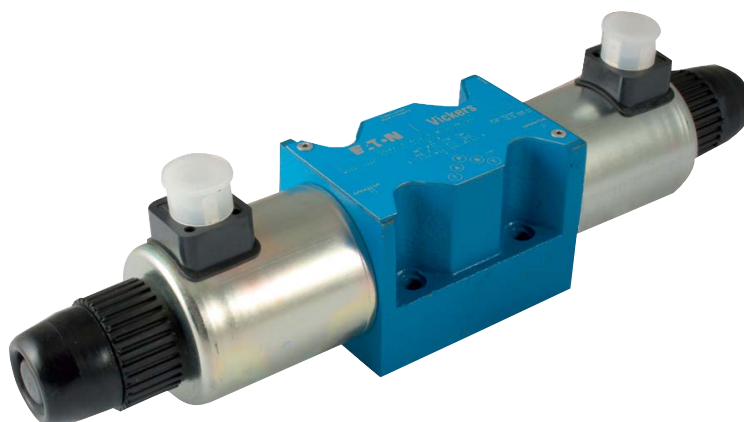


2 Position, Spring Offset End to End

3019	Voltage	Manufacturer's Code
616769	110V AC	DG4V 5 2A M U A6 20
Tech Sheet 3112		

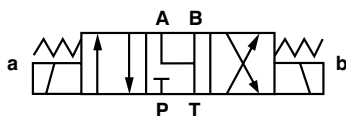
Other voltages are available. Please contact our Business Development Team for more details.

CETOP 5 Double Solenoid Directional Control Valves



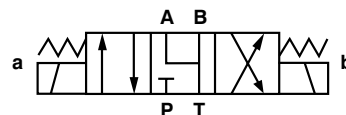
All Ports Closed, Spring Centred

3019	Voltage	Manufacturer's Code
616776	24V DC	DG4V 5 2CJ M U H6 20
616777	110V AC	DG4V 5 2C M U A6 20
Tech Sheet 3112		



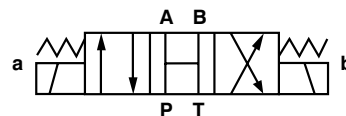
A & B to T, P Blocked, Spring Centred

3019	Voltage	Manufacturer's Code
616780	24V DC	DG4V 5 6CJ M U H6 20
616781	110V AC	DG4V 5 6C M U A6 20
Tech Sheet 3112		



A & B to T, P Blocked, Spring Centred, Water Resistant Override

3019	Voltage	Manufacturer's Code
529677	24V DC	DG4V 5 6CJ H M U H6 20
Tech Sheet 3112		



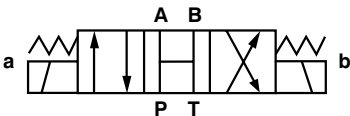
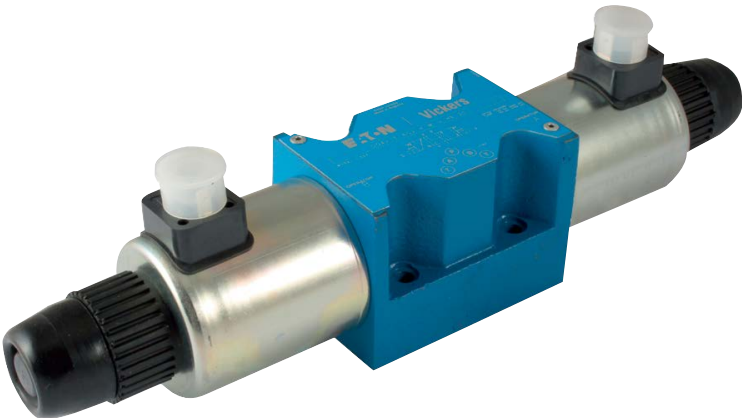
All Ports Open, Spring Centred

3019	Voltage	Manufacturer's Code
616788	24V DC	DG4V 5 0CJ M U H6 20
616789	110V DC	DG4V 5 0C M U A6 20
Tech Sheet 3112		

HYDRAULIC DIRECTIONAL CONTROL VALVES

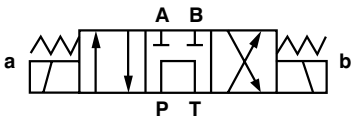


CETOP 5 Double Solenoid Directional Control Valves



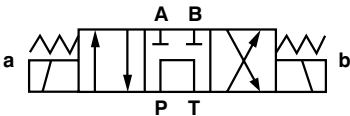
All Ports Open, Spring Centred, Water Resistant Override

3019	Voltage	Manufacturer's Code
02-146793	24V DC	DG4V 5 0CJ H M U H6 20
Tech Sheet 3112		



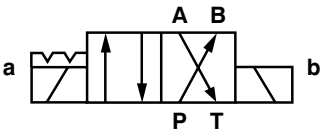
P & T Connected, A & B Blocked, Spring Centred, Water Resistant Override

3019	Voltage	Manufacturer's Code
859108	24V DC	DG4V 5 8CJ H VM U H6 20
Tech Sheet 3112		



P & T Connected, A & B Blocked, Spring Centred

3019	Voltage	Manufacturer's Code
616784	24V DC	DG4V 5 8CJ VM U H6 20
616785	110V AC	DG4V 5 8CJ VM U A6 20
Tech Sheet 3112		

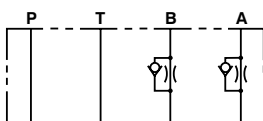


2 Position, Detented

3019	Voltage	Manufacturer's Code
616772	24V DC	DG4V 5 2NJ M U H6 20
616773	110V AC	DG4V 5 2N M U A6 20
Tech Sheet 3112		

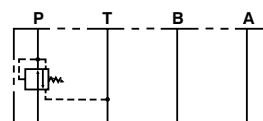
Other voltages are available. Please contact our Business Development Team for more details.

CETOP 5 Modules



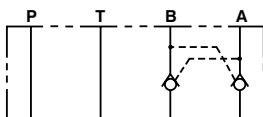
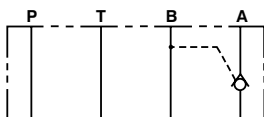
Flow Restrictors

3019	Description	Manufacturer's Code
867332	Meter Out	DGMFN 5 Y A2W B2W 30
867335	Meter In	DGMFN 5 X A2W B2W 30
Tech Sheet 3112		



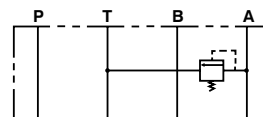
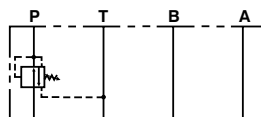
Pressure Reducing Valves

3019	Pressure Range Bar	Manufacturer's Code
868314	8.5-100	DGMX2 5 PP BW B 30
880553	8.5-200	DGMX2 5 PP FW B 30
879046	8.5-315	DGMX2 5 PP GH B 30
Tech Sheet 3112		



Pilot Operated Check Valve, 1 bar Cracking Pressure

3019	Description	Manufacturer's Code
867339	Single A Port	DGMPC 5 ABK 30
867340	Single B Port	DGMPC 5 BAK 30
867364	Double A & B Port	DGMPC 5 ABK BAK 30
Tech Sheet 3112		



Single Line Relief Valves

3019	Pressure Range Bar	Manufacturer's Code
868651	4-100	DGMC 5 AT BW B 30
879342	4-200	DGMC 5 PT FW B 30
868300	4-315	DGMC 5 PT GW B 30
Tech Sheet 3112		

CETOP VALVE COILS



CETOP 3 Coils, 60 Design



DC Coils

3019	Voltage
507847	12V
507848	24V
507855	12V 18W
507852	24V 18W
865882	48V
865637	98V
865884	110V
865638	196V

AC Coils

3019	Voltage
507825	110V 50Hz
507826	220V 50Hz
507833	110V 50Hz / 120V 60Hz
507834	220V 50Hz / 240V 60Hz

CETOP 5 Coils, 20 Design



DC Coils

3019	Voltage
617470	12V
617471	24V
457942	48V
457977	98V
457911	110V
698523	196V

AC Coils

3019	Voltage
617475	110V 50Hz
617476	220V 50Hz
617477	240V 50Hz
617499	115V 60Hz
617500	230V 60Hz

ELECTRICAL CONNECTORS

EN175301-803, DIN43650

PG11

0347	Voltage	Description
GDM2011-G	250V AC/DC	No LED, Grey
GDML2011-GB1-B	250V AC/DC	Bridge-type Rectifier No LED
GDML2011LED-24-B	24V AC/DC	LED No Protection
GDML2011LED-120B	120V AC/DC	LED No Protection
GDML2011LED-230B	230V AC/DC	LED No Protection
GDML2011LED-24HH	24V DC	LED With Diode Protection
GDML2011LED-48HH	48V DC	LED With Diode Protection

Tech Sheet 10132



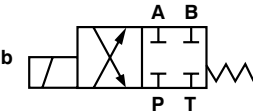


CETOP 3, Single Solenoid

Max Flow Rate: 80 L/min
 Viscosity 2.8-100 mm²/s
 ISO 4401 Size 3
 DIN 24340 Size 6
 IP65

Working Temperature:
 -20°C to +70°C

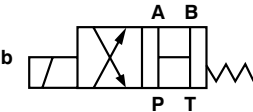
Maximum Working Pressure:
 350 bar



2 Position, All Ports Closed, Spring Offset to Centre

0451	Model	Voltage
1010-1047	ADC 3 2EY/RX14/AC110N9K	110V AC
1010-1046	ADC 3 2EY/RX14/DC24N9K	24V DC

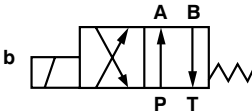
Tech Sheet 10682



2 Position, All Ports Open, Spring Offset to Centre

0451	Model	Voltage
1010-1000	ADC 3 2HY/RX14/AC110N9K	110V AC
1010-1001	ADC 3 2HY/RX14/DC24N9K	24V DC
1010-1059	ADC 3 2HY/RX14/DC12N9K	12V DC

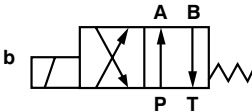
Tech Sheet 10682



2 Position, Spring Offset, Open Transient

0451	Model	Voltage
1010-1045	ADC 3 2CY/RX14/AC110N9K	110V AC
1010-1044	ADC 3 2CY/RX14/DC24N9K	24V DC

Tech Sheet 10682



2 Position, Spring Offset End to End

0451	Model	Voltage
1010-1002	ADC 3 2DY/RX14/AC110N9K	110V AC
1010-1003	ADC 3 2DY/RX14/DC24N9K	24V DC
1010-1058	ADC 3 2DY/RX14/DC12N9K	12V DC

Tech Sheet 10682



You might also need
CETOP 3 Manifold
 see page **862**



CETOP 3, Double Solenoid

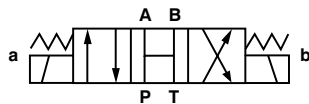
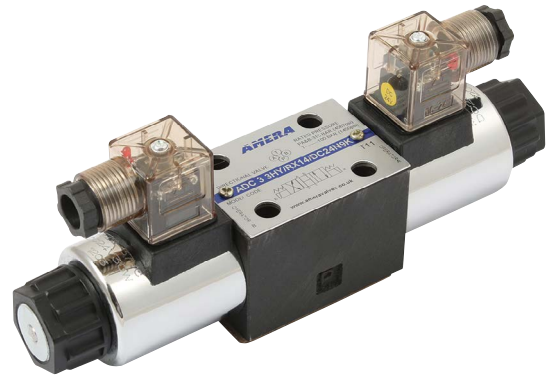
Max Flow Rate: 80 L/minViscosity 2.8-100 mm²/s

ISO 4401 Size 3

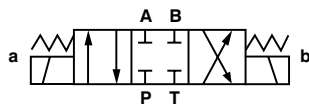
DIN 24340 Size 6

IP65

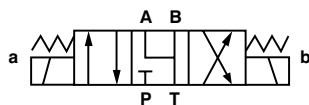
 **Working Temperature:**
-20°C to +70°C

 **Maximum Working Pressure:**
350 bar
**3 Position, All Ports Open, Spring Centred**

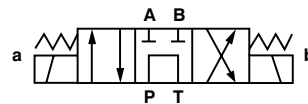
0451	Model	Voltage
1010-1004	ADC 3 3HY/RX14/AC110N9K	110V AC
1010-1006	ADC 3 3HY/RX14/DC24N9K	24V DC
1010-1005	ADC 3 3HY/RX14/DC12N9K	12V DC
Tech Sheet 10682		

**3 Position, All Ports Closed, Spring Centred**

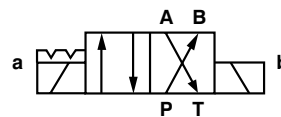
0451	Model	Voltage
1010-1007	ADC 3 3EY/RX14/AC110N9K	110V AC
1010-1008	ADC 3 3EY/RX14/DC24N9K	24V DC
1010-1060	ADC 3 3EY/RX14/DC12N9K	12V DC
Tech Sheet 10682		

**3 Position, A, B & T Connected, Spring Centred**

0451	Model	Voltage
1010-1009	ADC 3 3JY/RX14/AC110N9K	110V AC
1010-1010	ADC 3 3JY/RX14/DC24N9K	24V DC
1010-1062	ADC 3 3JY/RX14/DC12N9K	12V DC
Tech Sheet 10682		

**3 Position, P & T Connected A & B Blocked, Spring Centred**

0451	Model	Voltage
1010-1011	ADC 3 3GY/RX14/AC110N9K	110V AC
1010-1012	ADC 3 3GY/RX14/DC24N9K	24V DC
1010-1061	ADC 3 3GY/RX14/DC12N9K	12V DC
Tech Sheet 10682		

**2 Position, Detent**

0451	Model	Voltage
1010-1013	ADC 3 2DD/RX14/AC110N9K	110V AC
1010-1014	ADC 3 2DD/RX14/DC24N9K	24V DC
Tech Sheet 10682		

CETOP DIRECTIONAL CONTROL VALVES



3



Valves & Pumps



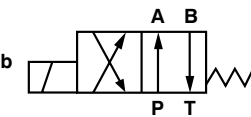
HYDRAULICS

CETOP 5, Single Solenoid

Max Flow Rate: 120 L/min
Viscosity 2.8-100 mm²/s
ISO 4401 Size 5
DIN 24340 Size 10
IP65

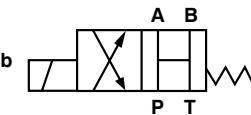
Working Temperature:
-20°C to +70°C

Maximum Working Pressure:
315 bar



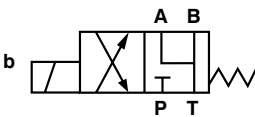
2 Position, Spring Offset End to End

0451	Model	Voltage
1010-1015	ADC 5 2DY/RX14/AC110N9K	110V AC
1010-1016	ADC 5 2DY/RX14/DC24N9K	24V DC
1010-1063	ADC 5 2DY/RX14/DC12N9K	12V DC
Tech Sheet 10683		



2 Position, All Ports Open, Spring Offset to Centre

0451	Model	Voltage
1010-1069	ADC 5 2HY/RX14/DC24N9K	24V DC
1010-1064	ADC 5 2HY/RX14/DC12N9K	12V DC
Tech Sheet 10683		



2 Position, A, B & T Connected, Spring Return

0451	Model	Voltage
1010-1071	ADC 5 2JY/RX14/DC12N9K	12V DC
1010-1072	ADC 5 2JY/RX14/DC24N9K	12V DC
Tech Sheet 10683		

Replacement Coils



CETOP 3

0451	Voltage
1010-1036	110V AC
1010-1037	220V AC
1010-1038	12V DC
1010-1039	24V DC
Tech Sheet 10683	



CETOP 5

0451	Voltage
1010-1040	110V AC
1010-1041	220V AC
1010-1042	12V DC
1010-1043	24V DC
Tech Sheet 10683	

CETOP 5, Double Solenoid

Max Flow Rate: 120 L/min

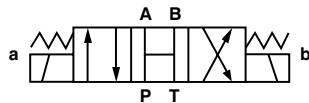
Viscosity 2.8-100 mm²/s

ISO 4401 Size 5

DIN 24340 Size 10

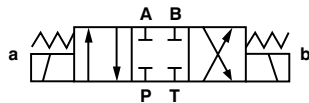
IP65

 **Working Temperature:**
-20°C to +70°C

 **Maximum Working Pressure:**
315 bar


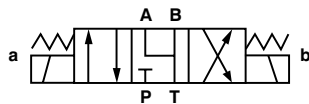
3 Position, All Ports Open, Spring Centred

0451	Model	Voltage
1010-1070	ADC 5 3HY/RX14/DC24N9K	24V DC
1010-1067	ADC 5 3HY/RX14/DC12N9K	12V DC
Tech Sheet 10683		



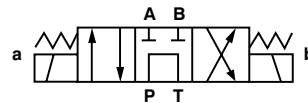
3 Position, All Ports Closed, Spring Centred

0451	Model	Voltage
1010-1017	ADC 5 3EY/RX14/AC110N9K	110V AC
1010-1018	ADC 5 3EY/RX14/DC24N9K	24V DC
1010-1065	ADC 5 3EY/RX14/DC12N9K	12V DC
Tech Sheet 10683		



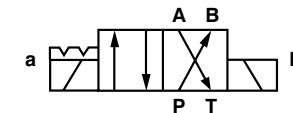
3 Position, A, B & T Connected, Spring Centred

0451	Model	Voltage
1010-1019	ADC 5 3JY/RX14/AC110N9K	110V AC
1010-1020	ADC 5 3JY/RX14/DC24N9K	24V DC
1010-1068	ADC 5 3JY/RX14/DC12N9K	12V DC
Tech Sheet 10683		



3 Position, P & T Connected A & B Blocked, Spring Centred

0451	Model	Voltage
1010-1056	ADC 5 3GY/RX14/AC110N9K	110V AC
1010-1021	ADC 5 3GY/RX14/DC24N9K	24V DC
1010-1066	ADC 5 3GY/RX14/DC12N9K	12V DC
Tech Sheet 10683		



2 Position, Detented

0451	Model	Voltage
1010-1055	ADC 5 2DD/RX14/AC110N9K	110V AC
1010-1054	ADC 5 2DD/RX14/DC24N9K	24V DC
Tech Sheet 10683		

CETOP DIRECTIONAL CONTROL VALVES

AMERA

3

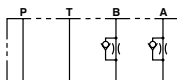


° Working Temperature:
-20°C to +70°C

Maximum Working Pressure:
350 bar

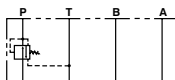
Max Flow Rate: 80 L/min
Viscosity 2.8-100 mm²/s
ISO 4401 Size 3
DIN 24340 Size 6

CETOP 3 Sandwich Valves



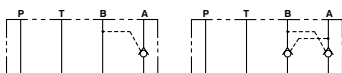
Flow Restrictor

0451	Model	Type
1010-1022	AFR 3 X2/RX14/2Q	A & B Meter In
1010-1023	AFR 3 Y2/RX14/2Q	A & B Meter Out
1010-1053	AFR 3 Z P2/RX14/2Q	P Line
Tech Sheet 10682		



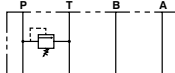
Pressure Reducing

0451	Model	Pressure Range Bar
1010-1026	ARD 3 PP 2/RX14/75	3.5 - 75
1010-1027	ARD 3 PP 2/RX14/150	10 - 150
1010-1028	ARD 3 PP 2/RX14/210	20 - 210
Tech Sheet 10682		



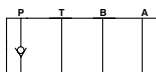
Pilot Operated Check

0451	Model	Type
1010-1024	APOC 3 A1/RX14/N	Single
1010-1025	APOC 3 AB1/RX14/	Double
Tech Sheet 10682		



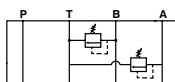
Single Line Pressure Relief

0451	Model	Pressure Range Bar
1010-1050	ASPR 3 PT1/RX14/100	3 - 100
1010-1029	ASPR 3 PT1/RX14/200	10 - 200
1010-1030	ASPR 3 PT1/RX14/315	50 - 315
Tech Sheet 10682		



Direct Operated Check

0451	Model	Cracking Pressure Bar
1010-1052	ADOC 3 PA/RX14/	0.5
Tech Sheet 10682		



Dual Line Pressure Relief

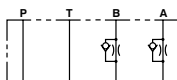
0451	Model	Pressure Range Bar
1010-1051	ADPR 3 AT1 BT1/RX14/200	10 - 200
Tech Sheet 10682		

° Working Temperature:
-20°C to +70°C

Maximum Working Pressure:
315 bar

Max Flow Rate: 80 L/min
Viscosity 2.8-100 mm²/s
ISO 4401 Size 5
DIN 24340 Size 10

CETOP 5 Sandwich Valves



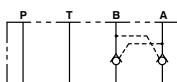
Flow Restrictor

0451	Model	Type
1010-1031	AFR 5 Y2/RX14/2Q	A & B Meter Out
1010-1057	AFR 5 X2/RX14/2Q	A & B Meter In
Tech Sheet 10683		



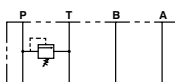
Pressure Reducing

0451	Model	Pressure Range Bar
1010-1033	ARD 5 PP 2/RX14/200	8.5 - 200
1010-1034	ARD 5 PP 2/RX14/315	8.5 - 315
Tech Sheet 10683		



Pilot Operated Check

0451	Model	Type
1010-1032	APOC 5 AB1/RX14	Double
Tech Sheet 10683		



Single Line Pressure Relief

0451	Model	Pressure Range Bar
1010-1035	ASPR 5 PT1/RX14/315	8.5 - 315
Tech Sheet 10683		

Valves & Pumps



HYDRAULICS

CETOP MANIFOLD & AUXILIARY PLATES

CETOP 3, Steel Manifold

Maximum Working Pressure:
345 bar



Ports: P & T 1/2", A & B 3/8" BSPP

0345	No of Stations
CM3-1G	1
CM3-2G	2
CM3-3G	3
CM3-4G	4
CM3-5G	5
CM3-6G	6

Tech Sheet 10041

CETOP 3, Steel Manifold With Pressure Relief Valve

Maximum Working Pressure:
345 bar



Ports: P & T 1/2", A & B 3/8" BSPP, 60-250 bar

0345	No of Stations
CM3-1G-ADJ	1
CM3-2G-ADJ	2
CM3-3G-ADJ	3
CM3-4G-ADJ	4
CM3-5G-ADJ	5
CM3-6G-ADJ	6

Tech Sheet 10041

CETOP 3, Aluminium Manifold

Maximum Working Pressure:
207 bar



Ports: P & T 1/2", A & B 3/8" BSPP

0345	No of Stations
CM3-1G/ALU	1
CM3-2G/ALU	2
CM3-3G/ALU	3
CM3-4G/ALU	4
CM3-5G/ALU	5
CM3-6G/ALU	6

Tech Sheet 10041

CETOP 5, Steel Manifold

Maximum Working Pressure:
345 bar



Ports: P 3/4" & T 1", A & B 1/2" BSPP

0345	No of Stations
CM5-1G	1
CM5-2G	2
CM5-3G	3
CM5-4G	4
CM5-5G	5
CM5-6G	6

Tech Sheet 10130

CETOP 5, Steel Manifold With Pressure Relief Valve

Maximum Working Pressure:
345 bar



Ports: P 3/4" & T 1", A & B 1/2" BSPP, 60-250 bar

0345	No of Stations
CM5-1G-ADJ	1
CM5-2G-ADJ	2
CM5-3G-ADJ	3
CM5-4G-ADJ	4
CM5-5G-ADJ	5
CM5-6G-ADJ	6

Tech Sheet 10130

CETOP 3, Side Entry Subplate

Maximum Working Pressure:
345 bar



BSPP

0345	Thread
CSP-03	3/8"

Tech Sheet 10041

CETOP 5, Side Entry Subplate

BSPP

0345	Thread
CSP-05	1/2"

Tech Sheet 10130

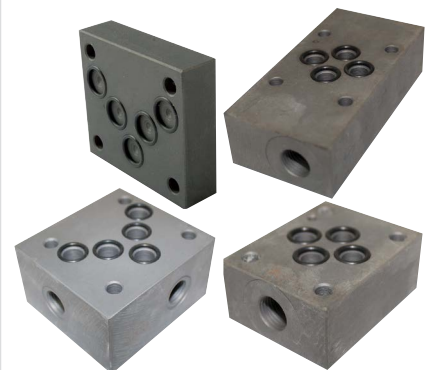
Auxiliary Plates



CETOP 3

0345	Type
CBP-03	Blanking Plate
CCOP-PA-03	Cross Over Plate P-A
CCOP-PB-03	Cross Over Plate P-B
CTP-AB-03	Tapping Plate A & B
CTP-PT-03	Tapping Plate P & T

Tech Sheet 10041



CETOP 5

0345	Type
CBP-05	Blanking Plate
CCOP-PA-05	Cross Over Plate P-A
CCOP-PB-05	Cross Over Plate P-B
CTP-AB-05	Tapping Plate A & B
CTP-PT-05	Tapping Plate P & T

Tech Sheet 10130



Parker Cetop 3 & 5 Valves



Cetop 3 - 4 port 3 & 2 Position Solenoid Directional Control Valve - 24-110v

0484	Coil Voltage	Ctr Spool	Description
D1VW001CNJW	24vdc	All Blocked	4 port 3 Pos



Cetop 5 - 4 Port 3 & 2 Pos Solenoid Directional Control Valve - 24-110 v

0484	Coil Voltage	Ctr Spool	Description
D3W008CNJW	24vdc	PT Con	4 port 3 Pos



Cetop 3 Modular Flow Control Valve

0484	Metering
FM2DDSV	A & B



Cetop 5 Modular Flow Control Valve

0484	Metering
FM3DDSV	A & B



Cetop 3 Modular Pilot Operated Check Valve, 1 Bar Cracking Pressure

0484	Cracking Pressure Bar
CPOM2DDV	1.0



Cetop 5 Modular Pilot Operated Check Valve, 1 Bar Cracking Pressure

0484	Cracking Pressure Bar
CPOM3DDV	1.0

3

HYDRAULIC HAND PUMPS



Pumps

Specification:

- Cast iron body
- White zinc-plated support lever
- Lever connection OD: 27mm
- White zinc-plated external parts

 **Maximum Working Pressure:**
350 bar



Double Acting Pump with Release Knob, Side Mount

0462	Displacement cm ³	Thread	Max Pressure Bar	Model	To Suit
HHP-01	20	1/2"	350	Wall Mount	Single Acting Cylinder
Tech Sheet 60145					

Specification:

- Cast iron body
- Piston treated with Niploy
- White zinc-plated support lever
- Lever connection OD: 27mm
- White zinc-plated external parts

 **Maximum Working Pressure:**
280 bar



Double Acting Pump with Release Knob, Bottom Mount

0462	Displacement cm ³	Thread	Max Pressure Bar	Model	To Suit
HHP-02	50	1/2"	280	Wall Mount	Single Acting Cylinder
Tech Sheet 60146					

Double acting hand pump for
single acting cylinder.

Specification:

- Cast iron body
- Piston treated with Niploy
- White zinc-plated support lever
- Lever connection OD: 27mm
- White zinc-plated external parts
- Oil tank mounting kit included
- Pressure relief valve (standard setting):
100 bar

 **Maximum Working Pressure:**
350 bar



Double Acting Pump with Release Knob & Pressure Relief Valve

0462	Displacement cm ³	Thread	Max Pressure Bar	Model	To Suit
HHP-03	25	3/8"	350	Tank Mount	Single Acting Cylinder
Tech Sheet 60147					

Double acting hand pump for double acting cylinder.

Specification:

- Cast iron body
- Piston treated with Niploy
- White zinc-plated support lever
- Lever connection OD: 27mm
- White zinc-plated external parts

 **Maximum Working Pressure:**
350 bar



Double Acting Pump with 4/3 Diverter Valve & Pressure Relief Valve

0462	Displacement cm ³	Thread	Max Pressure Bar	Model	To Suit
HHP-04	25	3/8"	350	Tank Mount	Double Acting Cylinder
Tech Sheet 60148					



HYDRAULIC HAND PUMPS

Pumps

Double acting pump for double acting cylinder.

Specification:

- Cast iron body
- Piston treated with Niploy
- White zinc-plated support lever
- Lever connection OD: 27mm
- White zinc-plated external parts
- Oil tank mounting kit included
- Hydraulic brake to operate under 50 bar
- Pressure relief valve (standard setting): 100 bar

 **Maximum Working Pressure:**
350 bar



Double Acting Pump with 4/3 Diverter Valve, PRV & Dual PO Check Valve

0462	Displacement cm ³	Thread	Max Pressure Bar	Model	To Suit
HHP-05	25	3/8"	350	Tank Mount	Double Acting Cylinder
Tech Sheet 60149					

Single acting pump for single acting cylinder.

Specification:

- White zinc-plated steel body
- Piston treated with Niploy
- White zinc-plated external parts
- Release lever

 **Maximum Working Pressure:**
220 bar



Single Acting Foot Pump with 1.5 Litre Reservoir

0462	Displacement cm ³	Thread	Max Pressure Bar	To Suit
HFP-01	15	1/4"	220	Single Acting Cylinder
Tech Sheet 60150				

Accessories

Specification:

- Black hand grip
- White zinc-plated steel lever



Operating Lever

0462	To Suit	Length mm
HHP-OL	HHP Series	900
Tech Sheet 60152		

Closed centre option available.



3 Way Flow Diverter Valves

0462	Thread	Description	Max Pressure Bar	LPM
HHPDV-06	3/8"	Open Centre	350	60
HHPDV-08	1/2"	Open Centre	350	90
HHPDV-12	3/4"	Open Centre	350	120
Tech Sheet 60153				

Normally open, two position with mechanical control for tipping trucks.

Specification:

- Cast iron body
- Piston treated with Niploy
- White zinc plated external parts

 **Maximum Working Pressure:**
250 bar



End Stroke Valves

0462	Thread	LPM
HESV-06	3/8"	60
HESV-08	1/2"	80

Steel Tanks

Specification:

- Suction pipe included
- Breather Cap 1/4" BSPP
- Release Cap 1/4" BSPP
- Standard colour black



Steel Oil Tanks for Hand Pumps

0462	Volume Litres	Thread
HHPT-01	1	1/4"
HHPT-02	2	1/4"
HHPT-03	3	1/4"
HHPT-05	5	1/4"
HHPT-07	7	1/4"
Tech Sheet 60151		



3

HYDRAULIC GEAR PUMPS



Group 1, Aluminium Gear Pumps



Clockwise Rotation, 1.8 Taper Shaft, BSPP Ported

0345	Displacement cc/rev	Max Pressure Bar	Inlet Thread	Outlet Thread
AGP1-C-1.0	1.00	250	3/8"	3/8"
AGP1-C-1.25	1.25	250	3/8"	3/8"
AGP1-C-1.6	1.60	250	3/8"	3/8"
AGP1-C-2.0	2.00	250	3/8"	3/8"
AGP1-C-2.5	2.50	250	3/8"	3/8"
AGP1-C-3.15	3.15	250	1/2"	3/8"
AGP1-C-3.65	3.65	250	1/2"	3/8"
AGP1-C-4.2	4.20	250	1/2"	3/8"
AGP1-C-5.0	5.00	250	1/2"	3/8"
AGP1-C-6.1	6.10	200	1/2"	3/8"
AGP1-C-7.4	7.40	180	1/2"	3/8"
AGP1-C-8.5	8.50	150	1/2"	3/8"
AGP1-C-9.8	9.80	120	1/2"	3/8"

Tech Sheet 10048

Group 2, Aluminium Gear Pumps



Clockwise Rotation, 1.8 Taper Shaft, BSPP Ported

0345	Displacement cc/rev	Max Pressure Bar	Inlet Thread	Outlet Thread
AGP2-C-4.5	4.5	250	1/2"	1/2"
AGP2-C-6.3	6.30	250	1/2"	1/2"
AGP2-C-8.2	8.20	250	1/2"	1/2"
AGP2-C-10	10	250	3/4"	1/2"
AGP2-C-11	11	250	3/4"	1/2"
AGP2-C-12	12	250	3/4"	1/2"
AGP2-C-14	14	250	3/4"	1/2"
AGP2-C-15	15	250	3/4"	1/2"
AGP2-C-16	16	250	3/4"	1/2"
AGP2-C-19	19	200	3/4"	1/2"
AGP2-C-22	22	180	3/4"	1/2"
AGP2-C-25	25	160	3/4"	1/2"

Tech Sheet 10049



Customers who bought from this page also purchased
Spill Mats see pages **970-974**



Accessories



Bell Housings

0347	Frame Size	Group
BH80/90-1	80/90	1
BH80/90-2	80/90	2
BH100/112-1	100/112	1
BH100/112-2	100/112	2
BH132-2	132	2
BH132-3	132	3
BH160/180-2	160/180	2
BH160/180-3	160/180	3
Tech Sheet 10089		



Coupling Motor Half

0347	Frame Size
MC-80-45	80
MC-80-55	80
MC-90-45	90
MC-90-55	90
MC-100/112-55	100
MC-132-74	132
MC-160-104	160
MC-180-104	180
Tech Sheet 10127	



Coupling Pump Half

0347	Group
PC-1-45	1
PC-1-55	1
PC-2-45	2
PC-2-55	2
PC-2-74	2
PC-2-104	2
PC-3-74	3
PC-3-104	3
Tech Sheet 10127	



Coupling Spider

0347	To Suit mm
S-45	45
S-55	55
S-74	74
S-104	104
Tech Sheet 10127	



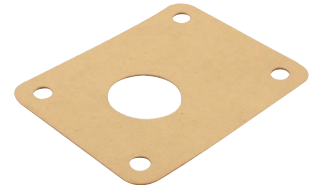
Electric Motor Foot Mounting

0347	Frame Size
EFM-100/112	100/112
EFM-132	132
EFM-160	160
Tech Sheet 10090	



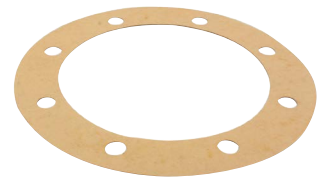
Gear Pump Elbows, BSPP

0347	Group	Thread
GPE1-12	1	1/2"
GPE1-38	1	3/8"
GPE2-12	2	1/2"
GPE2-34	2	3/4"
Tech Sheet 10129		



Gear Pump Mounting Gasket

0347	Group
PG-1	1
PG-2	2
PG-3	3



Motor Mounting Gasket

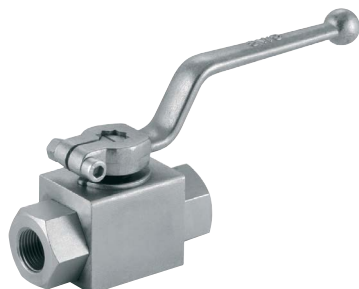
0347	Frame Size
MG-80/90	80/90
MG-100/112	100/112
MG-132	132
MG-160	160



Hydraulic Ball Valves

° Working Temperature:
-20°C to +120°C

- Carbon steel body
- Zinc-plated C6F
- Steel ball
- Excellent sealing properties
- High pressure
- Full flow



2 Way, BSPP, NBR Seals

0177	Thread	DN Size	Length mm	Max Pressure Bar
KHB-G1/4	1/4"	6	69	500
KHB-G3/8	3/8"	10	72	500
KHB-G1/2	1/2"	13	83	500
KHB-G3/4	3/4"	20	95	315
KHB-G1	1"	25	113	315
KHB-G11/4	1.1/4"	25	110	315
KHB-G11/2	1.1/2"	25	130	315

Tech Sheet 10171



2 Way, Side Hole Fixing, BSPP, Nitrile Seals

0177	Thread	DN Size	Length mm	Max Pressure Bar
KHBSM-G1/4	1/4"	6	69	500
KHBSM-G3/8	3/8"	10	72	500
KHBSM-G1/2	1/2"	13	83	500
KHBSM-G3/4	3/4"	20	95	315
KHBSM-G1	1"	25	113	315
KHBSM-G11/4	1.1/4"	25	110	315
KHBSM-G11/2	1.1/2"	25	130	315

Tech Sheet 10171



2 Way, Top Mountable for Actuation, BSPP, Nitrile Seals

0177	Thread	DN Size	Length mm	Max Pressure Bar
KHBTM-G1/4	1/4"	6	69	500
KHBTM-G3/8	3/8"	10	72	500
KHBTM-G1/2	1/2"	13	83	500
KHBTM-G3/4	3/4"	20	95	315
KHBTM-G1	1"	25	113	315
KHBTM-G11/4	1.1/4"	25	110	315
KHBTM-G11/2	1.1/2"	25	130	315

Tech Sheet 10171

HYDRAULIC BALL VALVES



Hydraulic Ball Valves

° Working Temperature:
-20°C to +120°C



2 Way, 3000lb, Flanged

0177	ND	DN Size	Length mm	Max Pressure Bar
KHBF3-1/2	1/2"	13	151	210
KHBF3-3/4	3/4"	20	162	210
KHBF3-1	1"	25	178	210
KHBF3-1.1/4	1.1/4"	32	191	210
KHBF3-1.1/2	1.1/2"	40	231	210
KHBF3-2	2"	50	232	210

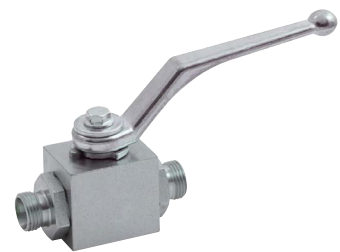
Tech Sheet 10044



2 Way, 6000lb, Flanged

0177	ND	DN Size	Length mm	Max Pressure Bar
KHBF6-1/2	1/2"	13	151	420
KHBF6-3/4	3/4"	20	174	420
KHBF6-1	1"	25	198	420
KHBF6-1.1/4	1.1/4"	32	223	420
KHBF6-1.1/2	1.1/2"	40	281	420
KHBF6-2	2"	50	316	420

Tech Sheet 10044



2 Way, Light-duty, DIN 2353

0177	Thread	DN Size	Description	Length mm	Max Pressure Bar
KHB-8L	M14 x 1.5	6	8L	69	500
KHB-10L	M16 x 1.5	10	10L	77	500
KHB-12L	M18 x 1.5	10	12L	77	500
KHB-15L	M22 x 1.5	13	15L	83	500
KHB-22L	M30 x 2	20	22L	101	315
KHB-28L	M36 x 2	25	28L	108	315

Tech Sheet 10171



2 Way, Heavy-duty, DIN 2353

0177	Thread	DN Size	Description	Length mm	Max Pressure Bar
KHB-10S	M18 x 1.5	6	10S	73	500
KHB-12S	M20 x 1.5	8	12S	77	500
KHB-16S	M24 x 1.5	13	16S	87	500
KHB-20S	M30 x 2	13	20S	91	500
KHB-25S	M36 x 2	20	25S	111	315
KHB-30S	M42 x 2	25	30S	120	315

Tech Sheet 10171



For **Bonded Seals**
see Section 2 pages **832-836**



Lockable Hydraulic Ball Valves

° Working Temperature:
-20°C to +120°C

Lock not included



2 Way, BSPP

0177	Thread	DN Size	Length mm	Max Pressure Bar
KHB-G1/4-LK	1/4"	6	69	500
KHB-G3/8-LK	3/8"	10	72	500
KHB-G1/2-LK	1/2"	13	83	500
KHB-G3/4-LK	3/4"	20	95	315
KHB-G1-LK	1"	25	113	315
KHB-G11/4-LK	1.1/4"	25	110	315
KHB-G11/2-LK	1.1/2"	25	130	315

Tech Sheet 10171



2 Way, Side Hole Fixing, BSPP

0177	Thread	DN Size	Length mm	Max Pressure Bar
KHBSM-G1/4-LK	1/4"	6	69	500
KHBSM-G3/8-LK	3/8"	10	72	500
KHBSM-G1/2-LK	1/2"	13	83	500
KHBSM-G3/4-LK	3/4"	20	95	315
KHBSM-G1-LK	1"	25	113	315
KHBSM-G11/4-LK	1.1/4"	25	110	315
KHBSM-G11/2-LK	1.1/2"	25	130	315

Tech Sheet 10171



2 Way, Light-duty, DIN 2353

0177	Thread	DN Size	Description	Length mm	Max Pressure Bar
KHB-8L-LK	M14 x 1.5	6	8L	69	500
KHB-10L-LK	M16 x 1.5	8	10L	77	500
KHB-12L-LK	M18 x 1.5	13	12L	77	500
KHB-15L-LK	M22 x 1.5	13	15L	83	500
KHB-22L-LK	M30 x 2	20	22L	101	315
KHB-28L-LK	M36 x 2	25	28L	108	315

Tech Sheet 10171



2 Way, Heavy-duty, DIN 2353

0177	Thread	DN Size	Description	Length mm	Max Pressure Bar
KHB-10S-LK	M18 x 1.5	8	10S	73	500
KHB-12S-LK	M20 x 1.5	13	12S	77	500
KHB-16S-LK	M24 x 1.5	13	16S	87	500
KHB-20S-LK	M30 x 2	20	20S	91	500
KHB-25S-LK	M36 x 2	25	25S	111	315
KHB-30S-LK	M42 x 2	25	30S	120	315

Tech Sheet 10171



2 Way, 3000lb, Flanged

0177	ND	DN Size	Length mm	Max Pressure Bar
KHBF3-1/2-LK	1/2"	13	151	210
KHBF3-3/4-LK	3/4"	20	162	210
KHBF3-1-LK	1"	25	178	210
KHBF3-1.1/4-LK	1.1/4"	32	191	210
KHBF3-1.1/2-LK	1.1/2"	40	231	210
KHBF3-2-LK	2"	50	232	210

Tech Sheet 10171



2 Way, 6000lb, Flanged

0177	ND	DN Size	Length mm	Max Pressure Bar
KHBF6-1/2-LK	1/2"	13	151	420
KHBF6-3/4-LK	3/4"	20	174	420
KHBF6-1-LK	1"	25	198	420
KHBF6-1.1/4-LK	1.1/4"	32	223	420
KHBF6-1.1/2-LK	1.1/2"	40	281	420
KHBF6-2-LK	2"	50	316	420

Tech Sheet 10171

HYDRAULIC BALL VALVES



3



Valves & Pumps



HYDRAULICS

Hydraulic Ball Valves

Working Temperature:
-20°C to +120°C

- Carbon steel body
- Excellent sealing properties
- Zinc-plated C6F
- High pressure
- Steel ball
- Full flow



3 Way, L-Ported, BSPP, Nitrile Seals

0177	Thread	Length mm	Max Pressure Bar
KHB3K-G1/4	1/4"	69	500
KHB3K-G3/8	3/8"	72	500
KHB3K-G1/2	1/2"	83	500
KHB3K-G3/4	3/4"	95	315
KHB3K-G1	1"	113	315
KHB3K-G11/4	1.1/4"	110	315
KHB3K-G11/2	1.1/2"	130	315

Tech Sheet 2129

Working Temperature:
-20°C to +120°C

- Carbon steel body
- Excellent sealing properties
- Zinc-plated C6F
- High pressure
- Steel ball
- Full flow



3 Way, T-Ported, BSPP, Nitrile Seals

0177	Thread	Length mm	Max Pressure Bar
KHB3T-G1/4	1/4"	69	500
KHB3T-G3/8	3/8"	72	500
KHB3T-G1/2	1/2"	83	500
KHB3T-G3/4	3/4"	95	315
KHB3T-G1	1"	113	315
KHB3T-G11/4	1.1/4"	110	315
KHB3T-G11/2	1.1/2"	130	315

Tech Sheet 2129

Spare Handles



KHB Series Cranked Handles

0177	To Suit
KHBHANDLE-14-12	1/4" to 1/2"
KHBHANDLE-34-1	3/4" to 1"
KHBHANDLE-114-2	1.1/4" to 2"

Tech Sheet 2129

Lockable Hydraulic Ball Valves



3 Way, L-Ported, BSPP, Nitrile Seals

0177	Thread	DN Size	Length mm	Max Pressure Bar
KHB3K-G1/4-LK	1/4"	6	69	500
KHB3K-G3/8-LK	3/8"	10	72	500
KHB3K-G1/2-LK	1/2"	13	83	500
KHB3K-G3/4-LK	3/4"	20	95	315
KHB3K-G1-LK	1"	25	113	315
KHB3K-G11/4-LK	1.1/4"	25	110	315
KHB3K-G11/2-LK	1.1/2"	25	130	315

Tech Sheet 2129



3 Way, T-Ported, BSPP, Nitrile Seals

0177	Thread	DN Size	Length mm	Max Pressure Bar
KHB3T-G1/4-LK	1/4"	6	69	500
KHB3T-G3/8-LK	3/8"	10	72	500
KHB3T-G1/2-LK	1/2"	13	83	500
KHB3T-G3/4-LK	3/4"	20	95	315
KHB3T-G1-LK	1"	25	113	315
KHB3T-G11/4-LK	1.1/4"	25	110	315
KHB3T-G11/2-LK	1.1/2"	25	130	315

Tech Sheet 2129

Lock not included

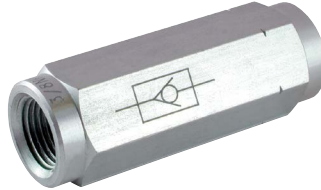
Non-return Valves

Material: Carbon steel

Plating: Zinc-plated chrome free

Interchangeability: Stucchi VU, Holmbury ATR, VPC series

Cracking Pressure: 0.35 bar



High Pressure 0.35 to 0.5 bar Cracking Pressure, BSPP

0177	Thread	Length mm	Hex Size mm	Max Pressure Bar
EHRVG-14	1/4"	60	19	700
EHRVG-38	3/8"	70	24	700
EHRVG-12	1/2"	77	30	500
EHRVG-34	3/4"	90	36	500
EHRVG-1	1"	106	45	500
EHRVG-114	1.1/4"	125	55	400
EHRVG-112	1.1/2"	140	65	320
EHRVG-2	2"	160	75	320
Tech Sheet 10170				

Material: Carbon steel

Plating: Zinc-plated chrome free

Interchangeability: Stucchi VU, Holmbury ATR, VPC series

Cracking Pressure: 3 bar

3 Bar Cracking Pressure, BSPP

0177	Thread	Length mm	Hex Size mm	Max Pressure Bar
EHRVG-14-3CP	1/4"	62	19	350
EHRVG-38-3CP	3/8"	68	24	350
EHRVG-12-3CP	1/2"	77	30	350
EHRVG-34-3CP	3/4"	88	36	350
EHRVG-1-3CP	1"	105	41	350
EHRVG-114-3CP	1.1/4"	135	55	300
EHRVG-112-3CP	1.1/2"	145	60	300
Tech Sheet 10170				

Material: Carbon steel

Plating: Zinc-plated chrome free

Interchangeability: Stucchi VU, Holmbury ATR, VPC series

Cracking Pressure: 5 bar

5 Bar Cracking Pressure, BSPP

0177	Thread	Length mm	Hex Size mm	Max Pressure Bar
EHRVG-14-5CP	1/4"	62	19	350
EHRVG-38-5CP	3/8"	68	24	350
EHRVG-12-5CP	1/2"	77	30	350
EHRVG-34-5CP	3/4"	88	36	350
EHRVG-1-5CP	1"	105	41	350
EHRVG-114-5CP	1.1/4"	135	55	300
EHRVG-112-5CP	1.1/2"	145	60	300
Tech Sheet 10170				

Flow Control Valves

Body: Carbon steel

Handle: Aluminium

Spring: SS302 or C72

Standard O-Rings: Nitrile

Ring Stem: PTFE

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
350 bar



Uni-directional (Controlled flow one direction, free flow reverse), BSPP

0177	Thread	Mounting Thread
EHCVG1/4	1/4"	M20 x 1
EHCVG3/8	3/8"	M25 x 1
EHCVG1/2	1/2"	M30 x 1.5
EHCVG3/4	3/4"	M35 x 1.5
EHCVG1	1"	M35 x 1.5
Tech Sheet 2130		



Bi-directional (Controlled flow both directions), BSPP

0177	Thread	Mounting Thread
EHTVG1/4	1/4"	M20 x 1
EHTVG3/8	3/8"	M25 x 1
EHTVG1/2	1/2"	M30 x 1.5
EHTVG3/4	3/4"	M35 x 1.5
EHTVG1	1"	M35 x 1.5
Tech Sheet 2131		

STAINLESS STEEL HYDRAULIC VALVES

stainless
steel



3



Valves & Pumps



HYDRAULICS

High Pressure Stainless Steel Ball Valves

° Working Temperature:
-20°C to +120°C

- Viton seals

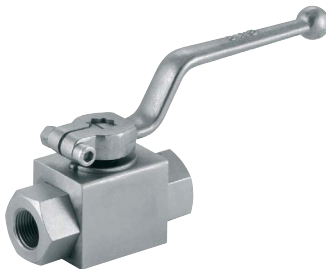


2 Way, BSPP

0098	Thread	Max Pressure Bar
HBVSS-14	1/4"	500
HBVSS-38	3/8"	500
HBVSS-12	1/2"	500
HBVSS-34	3/4"	315
HBVSS-1	1"	315

Tech Sheet 20888

High Pressure Stainless Steel Block Style Ball Valves



2 Way, BSPP

0098	Thread	DN Size	Length mm	Max Pressure Bar
HBVSS-14	1/4"	6	69	500
HBVSS-38	3/8"	10	72	500
HBVSS-12	1/2"	13	83	500
HBVSS-34	3/4"	20	95	315
HBVSS-1	1"	25	113	315

Tech Sheet 10224

Due to the change of finishes used by our supplier, the product you receive may look slightly different to that illustrated.

Lockable High Pressure Stainless Steel Block Style Ball Valves

Lock not included



2 Way, BSPP

0098	Thread	DN Size	Length mm	Max Pressure Bar
HBBVSS-14-LK	1/4"	6	69	500
HBBVSS-38-LK	3/8"	10	72	500
HBBVSS-12-LK	1/2"	13	83	500
HBBVSS-34-LK	3/4"	20	95	315
HBBVSS-1-LK	1"	25	113	315

Tech Sheet 10224

High Pressure Check Valves

Maximum Working Pressure: 350 bar



BSPP, 0.5 bar Cracking Pressure

0098	Thread
HCVSS-3/8	3/8"
HCVSS-1/2	1/2"
HCVSS-3/4	3/4"
HCVSS-1	1"

Tech Sheet 10043

Locking Device



Stainless Steel

0177	To Suit
HPBVLD-1	DN6, DN8, DN10, DN13
HPBVLD-2	DN20, DN25
HPBVLD-3	DN32, DN38, DN50

Tech Sheet 10171

316 Stainless Steel Hydraulic Ball Valves, DIN 2353

 **Working Temperature:**
-30°C to +100°C

- ANSI 316 - Body, ball and seat
- POM - Ball seats
- Nitrile - O-Rings

stainless steel



Light-duty

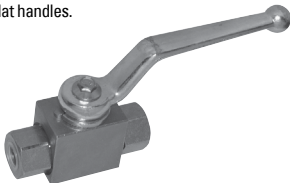
0098	OD mm	Max Pressure Bar
KHV06L-SS	6	500
KHV08L-SS	8	500
KHV12L-SS	12	500
KHV15L-SS	15	500
KHV18L-SS	18	500
KHV22L-SS	22	315
KHV28L-SS	28	315
KHV35L-SS	35	315
KHV42L-SS	42	315

Heavy-duty

0098	OD mm	Max Pressure Bar
KHV08S-SS	8	500
KHV10S-SS	10	500
KHV12S-SS	12	500
KHV14S-SS	14	500
KHV16S-SS	16	500
KHV20S-SS	20	400
KHV25S-SS	25	315
KHV30S-SS	30	315
KHV38S-SS	38	315

High Pressure 2 Way Ball Valves

N.B. From 1.1/4" - 1.1/2" are supplied with flat handles.



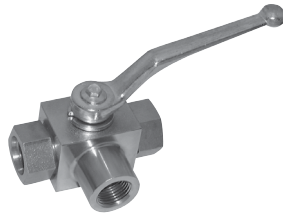
High Pressure, Carbon Steel Valves, BSPP

0098	Thread	Max Pressure Bar
BKH-14	1/4"	500
BKH-38	3/8"	500
BKH-12	1/2"	500
BKH-34	3/4"	420
BKH-1	1"	315
BKH-114	1.1/4"	315
BKH-112	1.1/2"	315
Tech Sheet 817		

3 Way Hydraulic Ball Valves, DIN/ISO 228

All below are reduced bore.

N.B. From 1.1/4" - 1.1/2" are supplied with flat handles.



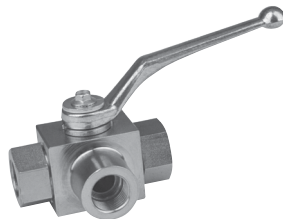
L Porting, BSPP

0098	Thread	Max Pressure Bar
HBVL-14	1/4"	500
HBVL-38	3/8"	500
HBVL-12	1/2"	315
HBVL-34	3/4"	315
HBVL-1	1"	315
HBVL-114	1.1/4"	350
HBVL-112	1.1/2"	350
Tech Sheet 816		

T Porting, BSPP

0098	Thread	Max Pressure Bar
HBVT-14	1/4"	500
HBVT-38	3/8"	500
HBVT-12	1/2"	315
HBVT-34	3/4"	315
HBVT-1	1"	315
HBVT-114	1.1/4"	350
HBVT-112	1.1/2"	350
Tech Sheet 816		

4 Way Hydraulic Ball Valves, DIN/ISO 228



X Porting, BSPP

0098	Thread	Max Pressure Bar
H4BVX-14	1/4"	500

Needle Flow Control Valves



Bi-directional (Controlled Flow Both Ways) Flow Control & Shut Off (DIN/ISO 228), BSPP

0098	Thread	Max Pressure Bar
NDV-18	1/8"	350
NDV-14	1/4"	350
NDV-38	3/8"	350
NDV-12	1/2"	350
NDV-34	3/4"	350
NDV-1	1"	350
NDV-112	1.1/2"	350
Tech Sheet 10299		

Uni-directional (Controlled Flow One Way) Free Reverse Flow (DIN/ISO 228), BSPP

0098	Thread	Max Pressure Bar
NDRV-18	1/8"	350
NDRV-14	1/4"	350
NDRV-38	3/8"	350
NDRV-12	1/2"	350
NDRV-34	3/4"	350
Tech Sheet 10299		

HYDRAULIC VALVES



3



Valves & Pumps



HYDRAULICS

875

Needle Valves

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
210 bar

Body: Brass, nickel plated
Seal: Nitrile
Stem: 304 Stainless steel



**In-line, Bi-directional
(Controlled Flow Both Ways)
Flow Control & Shut Off, BSPP**

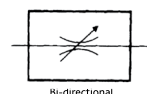
0098	Thread
1251-1010	1/8"
1251-1313	1/4"
1251-1717	3/8"
1251-2121	1/2"

Tech Sheet 10514

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
210 bar

Body: Brass, nickel plated
Seal: Nitrile
Stem: 304 Stainless steel



**Angled, In-line, Bi-directional
(Controlled Flow Both Ways)
Flow Control & Shut Off, BSPP**

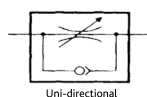
0098	Thread
1252-2010	1/8"
1252-2013	1/4"
1252-2017	3/8"
1252-2021	1/2"

Tech Sheet 10515

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
210 bar

Body: Brass, nickel plated
Seal: Nitrile
Stem: 304 Stainless steel



**In-line, Uni-directional
(Controlled Flow One Way)
with Free Reverse Flow, BSPP**

0098	Thread
1253-3013	1/4"
1253-3017	3/8"
1253-3021	1/2"

Tech Sheet 10516

Needle Valves - Speed Control

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar: 1/4" to 3/4"
320 bar: 1"

Seal: Nitrile



Female x Female, BSPP

0098	Thread	Length mm	LPM	Return LPM
NCV-14	1/4"	55	50	70
NCV-38	3/8"	65	75	110
NCV-12	1/2"	73	140	150
NCV-34	3/4"	88	175	200
NCV-1	1"	127	350	275

Tech Sheet 10517

Needle Valves - Flow Control

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar: 1/4" to 3/4"
320 bar: 1"

Seal: Nitrile

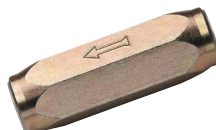


Female x Female, BSPP

0098	Thread	Length mm	LPM
INV-14	1/4"	48	50
INV-38	3/8"	58	75
INV-12	1/2"	68	140
INV-34	3/4"	78	175
INV-1	1"	108	350

Tech Sheet 10518

Hydraulic Non-return Valves

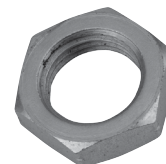


High Pressure, Carbon Steel, BSPP

0098	Thread	Length mm	Max Pressure Bar	Cracking Pressure Bar
HNRV-14	1/4"	62	350	0.5
HNRV-38	3/8"	68	350	0.5
HNRV-12	1/2"	78	350	0.5
HNRV-34	3/4"	88	300	0.5
HNRV-1	1"	112	250	0.5

Tech Sheet 10519

Panel Mounting Nuts



For Series INV & NCV

0098	To Suit
2570-13	1/4"
2570-17	3/8"
2570-21	1/2"
2570-26	3/4"

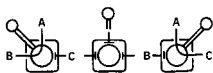
For Series 1251, 1252 & 1253

0098	To Suit
1203-1010	1/8"
1203-1313	1/4"
1203-1717	3/8"
1203-2121	1/2"

Diverter Valves

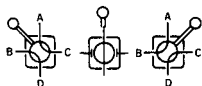


Manufactured from machined steel body with a hardened and ground spool, and a chemically blackened finish.



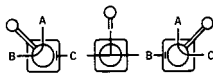
Three Port 2 Way, BSPP

0098	Thread	LPM	Max Pressure Bar
38-3DVL	3/8"	27	207
12-3DVL	1/2"	36	210
34-3DVL	3/4"	100	207
1-3DVL	1"	160	207



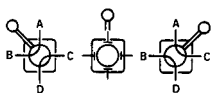
Four Port Open Centre, BSPP

0098	Thread	LPM	Max Pressure Bar
38-4DVOC	3/8"	27	207
12-4DVOC	1/2"	36	210



Three Port T, BSPP

0098	Thread	LPM	Max Pressure Bar
38-3DVT	3/8"	27	207
12-3DVT	1/2"	36	210



Four Port Closed Centre, BSPP

0098	Thread	LPM	Max Pressure Bar
38-DVCC	3/8"	27	207
12-DVCC	1/2"	36	210

In-line Isolator Needle Valves

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar

Body: Carbon steel
Seal: Nitrile

Male Thread Fixed BSPT x
Female Thread Swivel BSPP

0098	Male Thread	Female Thread	Thread
FT290-14	1/4"	1/4"	M15 x 1

Tech Sheet 10520

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar

Body: Carbon steel
Seal: Nitrile

Female Thread Fixed BSPP x
Female Thread Swivel BSPP

0098	Thread	Thread
FT290-01	1/4"	M15 x 1

Tech Sheet 10520

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar

Body: Carbon steel
Seal: Nitrile

Female Thread Swivel BSPP x
Female Thread Swivel BSPP

0098	Thread	Thread
FT290-05	1/4"	M15 x 1

Tech Sheet 10520

Female Thread Swivel BSPP x
Female Thread Compression BSPP

0098	Thread	OD mm	Thread
FT290-04	1/4"	6	M15 x 1

Tech Sheet 10520

Angled Isolator Needle Valves

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar

Body: Carbon steel
Seal: Nitrile

Male Thread Fixed BSPT x
Female Thread Swivel BSPP

0098	Male Thread	Female Thread	Thread
FT291-14	1/4"	1/4"	M15 x 1

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar

Body: Carbon steel
Seal: Nitrile

Female Thread Fixed BSPP x
Female Thread Swivel BSPP

0098	Thread	Thread
FT291-01	1/4"	M15 x 1

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar

Body: Carbon steel
Seal: Nitrile

Female Thread Swivel BSPP x
Female Thread Swivel BSPP

0098	Thread	Thread
FT291-05	1/4"	M15 x 1

Panel Mounting Nut



For Isolator Needle Valves

0098	Thread
FT205	M15 x 1

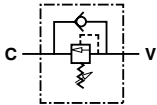
THREADED HYDRAULIC VALVES



Direct Acting Sequence Valves

Pre-set and other spring ratings available on request.

 **Maximum Working Pressure:**
350 bar



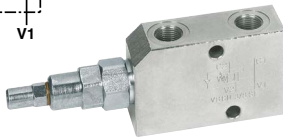
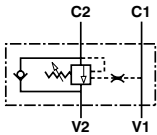
BSPP

0347	Thread	Pressure Range Bar
DASV06	3/8"	10-180
DASV08	1/2"	10-180
DASV12	3/4"	50-350

Tech Sheet 10098

Single Overcentre Valves

1:8 pilot ratio available on request.

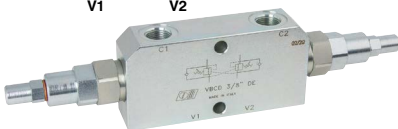
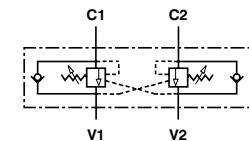


BSPP

0347	Thread	Ratio
SOCV06	3/8"	1:3.1
SOCV08	1/2"	1:3.1
SOCV12	3/4"	1:5.5

Tech Sheet 10099

Double Overcentre Valves



BSPP

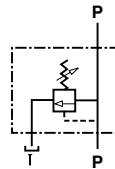
0347	Thread	Ratio
DOCV06	3/8"	1:3.1
DOCV08	1/2"	1:3.1
DOCV12	3/4"	1:5.5

Tech Sheet 10100

Pressure Relief Valves

Pre-set and other spring ratings available on request.

 **Maximum Working Pressure:**
300 bar



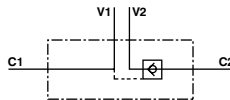
BSPP

0347	Thread	Pressure Range Bar
RV06/180	3/8"	10-180
RV08/180	1/2"	10-180
RV12/180	3/4"	10-180

Tech Sheet 10101

Single Pilot Operated Check Valves

Other cracking pressures available on request.

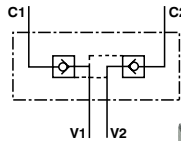


BSPP

0347	Thread	Cracking Pressure Bar	Ratio
POCV04	1/4"	4	1:5.5
POCV06	3/8"	3	1:5.5
POCV08	1/2"	6	1:5

Tech Sheet 10102

Double Pilot Operated Check Valves

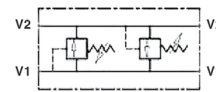


BSPP

0347	Thread	Cracking Pressure Bar	Ratio
DPOCV04	1/4"	4.5	1:5.5
DPOCV06	3/8"	4.5	1:5.5
DPOCV08	1/2"	3	1:4.5

Tech Sheet 10103

Dual Cross Relief Valve



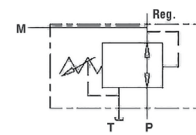
BSPP

0347	Thread	Pressure Range Bar
DCRV04/180	1/4"	10-180
DCRV06/180	3/8"	10-180
DCRV08/180	1/2"	10-180
DCRV012/180	3/4"	10-180

Tech Sheet 10534

Pressure Reducing Valve, Direct Acting

15-55 bar range available on request.

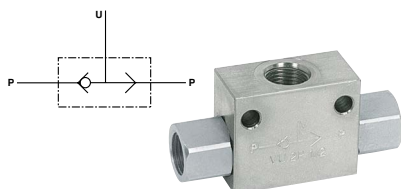


BSPP

0347	Thread	Pressure Range Bar
PREDV06	3/8"	30-165
PREDV08	1/2"	30-165

Tech Sheet 10535

Shuttle Valves



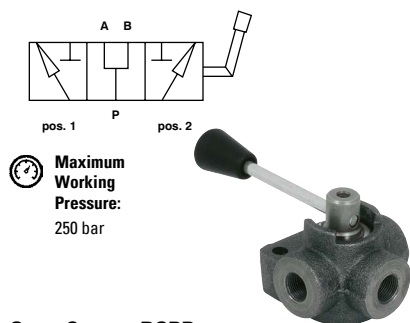
BSPP

0347	Thread	Max Pressure Bar	LPM
SV04	1/4"	450	30
SV06	3/8"	450	45
SV08	1/2"	450	70
SV12	3/4"	350	110

Tech Sheet 10104

3 Way Diverter Valves

Closed centre configuration available on request.



Maximum Working Pressure:
250 bar

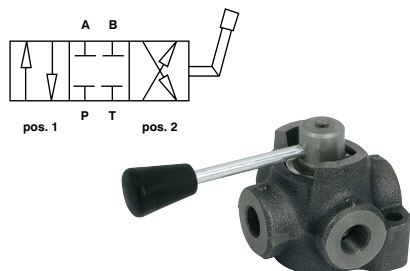
Open Centre, BSPP

0347	Thread	LPM
DV306	3/8"	35
DV308	1/2"	60
DV312	3/4"	100

Tech Sheet 10105

4 Way Diverter Valves

P to T, A and B closed, available on request.

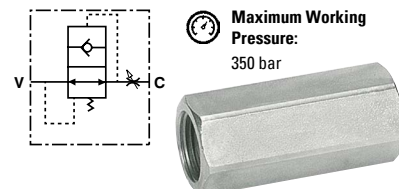


All Ports Closed, BSPP

0347	Thread	LPM
DV406	3/8"	35
DV408	1/2"	60
DV412	3/4"	100

Tech Sheet 10106

Hose Burst Valves

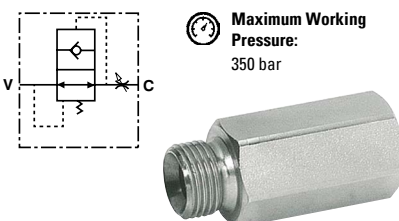


Maximum Working Pressure:
350 bar

Female/Female, BSPP

0347	Thread	LPM
HBVF04	1/4"	25
HBVF06	3/8"	50
HBVF08	1/2"	80
HBVF12	3/4"	140
HBVF16	1"	180

Tech Sheet 10107

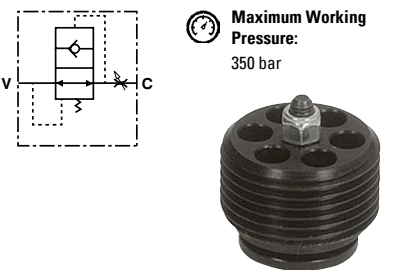


Maximum Working Pressure:
350 bar

Male/Female, BSPP

0347	Thread	LPM
HBVMF04	1/4"	25
HBVMF06	3/8"	50
HBVMF08	1/2"	80
HBVMF12	3/4"	140
HBVMF16	1"	180

Tech Sheet 10107



Maximum Working Pressure:
350 bar

Cartridge

0347	To Suit
HBVC04	1/4"
HBVC06	3/8"
HBVC08	1/2"
HBVC12	3/4"

Tech Sheet 10107

Hydraulic Swivel Joints

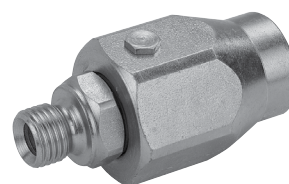
- Seal Nitrile
- Mounted between a hose assembly and rigid component in order to allow and compensate occasional rotations, preventing hose damage.



90° Swivel, BSPP

0507	Thread	Max Static Pressure Bar	Max Dynamic Pressure Bar
2019-3660	1/4"	400	200
2019-3678	3/8"	400	200
2019-3686	1/2"	300	150
2019-3694	3/4"	300	150
2019-3702	1"	300	100
2019-3703	1.1/4"	300	100
2019-3704	1.1/2"	300	80
2019-3705	2"	250	50

Tech Sheet 849



Straight Swivel, BSPP

0507	Thread	Max Rotating Pressure Bar	Max Dynamic Pressure Bar
2019-2639	1/4"	400	200
2019-2629	3/8"	400	200
2019-3637	1/2"	300	150
2019-3645	3/4"	300	150
2019-3652	1"	300	100
2019-3653	1.1/4"	300	100
2019-3654	1.1/2"	300	80
2019-3655	2"	250	50

Tech Sheet 848

THREADED HYDRAULIC VALVES

Barrel Flow Control Valve

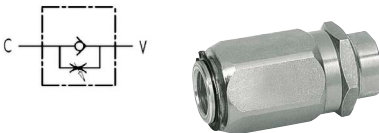


BSPP

0347	Thread	LPM	Max Pressure Bar
BFCV04	1/4"	20	300
BFCV06	3/8"	45	300
BFCV08	1/2"	70	300
BFCV12	3/4"	110	250
BFCV16	1"	160	250

Tech Sheet 10536

Barrel Flow Control Valve, with Check

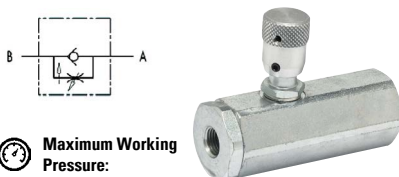


BSPP

0347	Thread	LPM	Max Pressure Bar
BFCVC04	1/4"	20	300
BFCVC06	3/8"	45	300
BFCVC08	1/2"	70	300
BFCVC12	3/4"	110	250
BFCVC16	1"	160	250

Tech Sheet 10537

Compensated Flow Control Valve



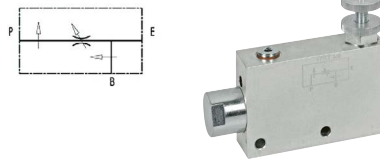
Maximum Working Pressure: 250 bar

BSPP

0347	Thread	LPM
CFVC04	1/4"	25
CFVC06	3/8"	30
CFVC08	1/2"	45

Tech Sheet 10538

3 Port Flow Control Valve, Ongoing to Pressure

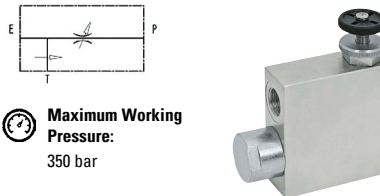


BSPP

0347	Thread	LPM
3FCVP06	3/8"	60
3FCVP08	1/2"	80
3FCVP12	3/4"	120
3FCVP16	1"	200

Tech Sheet 10539

3 Port Flow Control Valve, Excess to Tank



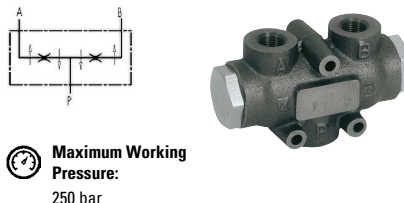
Maximum Working Pressure: 350 bar

BSPP

0347	Thread	LPM
3FCVT06	3/8"	60
3FCVT08	1/2"	80
3FCVT12	3/4"	120

Tech Sheet 10540

2 Way Flow Divider, Cast Iron



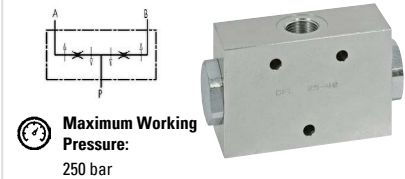
Maximum Working Pressure: 250 bar

BSPP

0347	Inlet Thread	Outlet Thread	LPM
CFD063	3/8"	3/8"	3
CFD066	3/8"	3/8"	6
CFD0610	3/8"	3/8"	10
CFD0620	3/8"	3/8"	20
CFD0632	3/8"	3/8"	32
CFD0840	1/2"	3/8"	40
CFD0860	1/2"	3/8"	60
CFD0880	1/2"	3/8"	80

Tech Sheet 10541

2 Way Flow Divider, Steel



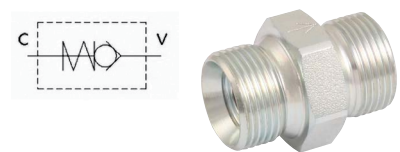
Maximum Working Pressure: 250 bar

BSPP

0347	Inlet Thread	Outlet Thread	LPM
SFD0610	3/8"	3/8"	10
SFD0620	3/8"	3/8"	20
SFD0840	1/2"	3/8"	40
SFD0860	1/2"	3/8"	60

Tech Sheet 10542

Male Check Valve



BSPP, 1 bar Cracking Pressure

0347	Thread	Max Pressure Bar
MVC04	1/4"	350
MVC06	3/8"	350
MVC08	1/2"	350
MVC12	3/4"	350
MVC16	1"	320
MVC20	1.1/4"	320
MVC24	1.1/2"	320
MVC32	2"	320

Tech Sheet 10543



Monoblock Valves

Description

Manually or mechanically controlled hydraulic directional control valves. Designed for distribution and control of work flow between generator (pump) and executive mechanisms (cylinder, hydro-motor, etc). Manufactured with up to seven plungers, with parallel or serial action, with common or individual back valve for each plunger, with or without safety valve.

Construction

Body is cast iron (EN-GJL300). Plungers are carburised steel with hard chrome plating.

Mounting

Distributor is fixed with two bolts, M8.

Port Thread Sizes:

P, T, N: 1/2" BSPP

A, B: 3/8" BSPP

Interchangeable with Walvoil SD5.

All valves come as standard with adjustable main relief valve set at 250 bar, adjustable from 20 to 250 bar.

Includes standard lever.

Description

Hydraulic distributors used for switching on/off and directing the working fluid between head flow generators (hydraulic pumps), head flow consumers (hydraulic cylinders, motors, etc) and the tank. Manufactured with up to six plungers with parallel or serial distribution.

Construction

Body is cast iron (EN-GJL300). Plungers are carburised steel with hard chrome plating.

Mounting

Distributor is fixed with two bolts, M8.

Port Thread Sizes:

T, N: 3/4" BSPP

P, A, B: 1/2" BSPP

Interchangeable with Walvoil SD11.

All valves come as standard with adjustable main relief valve set at 250 bar, adjustable from 20 to 250 bar.

Includes standard lever.

Ambient Temperature	-40°C to +60°C
Media	Mineral oil based hydraulic oil
Viscosity	12 to 800mm ² /s
Filtration Level	10 to NAS 1638
Leakage (A, B, T)	15cm ³ /min at 120 bar
Nominal Flow	40 L/min
Spool Stroke	+/- 6mm
Actuating Force	< 200 N
Modification/Spools	With 1 to 7

° Working Temperature:
-15°C to +80°C

Maximum Working Pressure:
A and B Ports: 300 bar, P Port: 250 bar,
T Port: 50 bar



Type P40, 4 Way, 3 Position, Spring Return, 40 L/min, BSPP

0479	Thread	Thread	No of Stations	Manufacturer's Code
1021-0001	3/8"	1/2"	1	P40 A1 GKZ1
1021-0002	3/8"	1/2"	2	02P40 1A1 GKZ1
1021-0003	3/8"	1/2"	3	03P40 1A1 GKZ1
1021-0004	3/8"	1/2"	4	04P40 1A1 GKZ1
1021-0005	3/8"	1/2"	5	05P40 1A1 GKZ1
1021-0006	3/8"	1/2"	6	06P40 1A1 GKZ1
1021-0007	3/8"	1/2"	7	07P40 1A1 GKZ1

Tech Sheet 60381

Ambient Temperature	-40°C to +60°C
Media	Mineral oil based hydraulic oil
Viscosity	12 to 800mm ² /s
Filtration Level	10 to NAS 1638
Leakage (A, B, T)	18cm ³ /min at 120 bar
Nominal Flow	80 L/min
Spool Stroke	+/- 7mm
Actuating Force	< 220 N
Modification/Spools	With 1 to 6

° Working Temperature:
-15°C to +80°C

Maximum Working Pressure:
A and B Ports: 300 bar, P Port: 250 bar,
T Port: 50 bar



Type P80, 4 Way, 3 Position, Spring Return, 80 L/min, BSPP

0479	Thread	Thread	No of Stations	Manufacturer's Code
1021-0008	1/2"	3/4"	1	P80 A1 GKZ1
1021-0009	1/2"	3/4"	2	2P80 1A1 GKZ1
1021-0010	1/2"	3/4"	3	3P80 1A1 GKZ1
1021-0011	1/2"	3/4"	4	4P80 1A1 GKZ1
1021-0012	1/2"	3/4"	5	5P80 1A1 GKZ1
1021-0013	1/2"	3/4"	6	6P80 1A1 GKZ1

Tech Sheet 60382

HYDRAULIC CONTROL VALVES

Monoblock Valves

Description

Hydraulic distributor used for switching on/off and control of the working fluid between head flow generators (hydraulic pumps), head flow consumers (hydraulic cylinders, motors, etc) and the tanks of hydraulic systems of mobile machines (electrical and diesel forklifts, excavators, auto-cranes, etc).

Construction

Body is cast iron (EN-GJL300). Plungers are carburised steel with hard chrome plating.

Mounting

Distributor is fixed with two bolts, M10.

Port Thread Sizes:

P, T, A, B: 1" BSPP

Interchangeable with Walvoil SD18,

All valves come as standard with adjustable main relief valve set at 250 bar, adjustable from 20 to 250 bar.

Includes standard lever.

Description

Valve monoblock available with up to six spool models. Valve has two built-in load check valves in the inlet section, one check for construction. Valves have parallel circuits, allowing operation of several combinations. Direct operation main relief differential valve is standard. Used with air cylinders for lorries, trucks and cranes.

Construction

Valve housing is chrome alloy cast iron. Spools are hardened steel and chrome-plated to secure maximum protection against corrosion and wear.

Mounting

Distributor is fixed with two bolts, M10.

Built-in port relief valves and/or anti-cavitation check valves on request.

Port Thread Sizes:

P1, P2: 3/4" BSPP

T2, A, B: 3/4" BSPP

T1, N: 1" BSPP

Interchangeable with Nimco CV300.

All valves come as standard with adjustable main relief valve set at 250 bar, adjustable from 20 to 250 bar.

Includes standard lever.

Ambient Temperature	-40°C to +60°C
Media	Mineral oil based hydraulic oil
Viscosity	12 to 800mm ² /s
Filtration Level	10 to NAS 1638
Leakage (A, B, T)	30cm ³ /min at 120 bar
Nominal Flow	120 L/min
Spool Stroke	10mm, L12 +/- 10/6
Actuating Force	< 300 N
Modification/Spools	With 1 to 4

 **Working Temperature:**
-15°C to +80°C

 **Maximum Working Pressure:**
A and B Ports: 300 bar, P Port: 250 bar,
T Port: 50 bar



Type P120, 4 Way, 3 Position, Spring Return, 120 L/min, BSPP

0479	Thread	Thread	No of Stations	Manufacturer's Code
1021-0014	1"	1"	1	P120 A1GKZ1
1021-0015	1"	1"	2	02P120 A1GKZ1
1021-0016	1"	1"	3	03P120 A1GKZ1
1021-0017	1"	1"	4	04P120 A1GKZ1

Tech Sheet 60383

Ambient Temperature	-40°C to +60°C
Media	Mineral oil based hydraulic oil
Viscosity	12 to 800mm ² /s
Filtration Level	10 to NAS 1638
Leakage (A, B, T)	30cm ³ /min at 120 bar
Nominal Flow	110 L/min
Spool Stroke	10mm, L12 +/- 10/6
Actuating Force	< 300 N
Modification/Spools	From 1-6/without 5

 **Working Temperature:**
-15°C to +80°C

 **Maximum Working Pressure:**
A and B Ports: 300 bar, P Port: 250 bar,
T Port: 50 bar



Type S290, 4 Way, 3 Position, Spring Return, 110 L/min, BSPP

0479	Thread	Thread	No of Stations	Manufacturer's Code
1021-0018	3/4"	1"	1	S291/AS

Tech Sheet 60384





Monoblock Valves

Description

Hydraulic distributor used for switching on/off and directing the working fluid between head flow generators (hydraulic pumps), head flow consumers (hydraulic cylinders, motors, etc) and the tank.

It has a setting from 70 to 140 bar for automatic switch-off. It is designed as a 'log splitter' valve.

Construction

Monoblock distributor with manual control. Body is cast iron (EN-GJL300) and spool is carburised steel with hard chrome plating.

Mounting

Distributor is fixed with three bolts, P8.

Port Thread Sizes:

P, T, A, B: 1/2" BSPP

Comes as standard with adjustable main relief valve set at 250 bar, adjustable from 20 to 250 bar.

Includes standard lever.

Description

Log splitter valve featuring an extremely fast 'rapid extend' high speed mode. It has been designed to reduce system costs by allowing a single-stage pump to be used in systems currently using two-stage (hi-low) pumps. When extra force is required the valve allows the user to manually shift from high speed mode to high force mode. A 'soft stop' differentiates between high force and high speed modes.

Construction

- Hydraulically balanced, hard chrome-plated spool
- Handle can be installed in up or down position
- Pressure release detent on retract
- 16 L/min nominal flow extends the flow up to 80 L/min
- Manual shift from high speed mode to high force mode
- Spring centre four position spool with soft stop

Mounting

Distributor is fixed with three bolts, P8. In exposed environments do NOT mount with spool in vertical position.

Port Thread Sizes:

A, B: 1/2" BSPP

P, T: 3/4" BSPP

Comes as standard with adjustable main relief valve set at 250 bar, adjustable from 20 to 250 bar.

Includes standard lever.

Ambient Temperature	-40°C to +60°C
Media	Mineral oil based hydraulic oil
Viscosity	12 to 800mm ² /s
Filtration Level	10 to NAS 1638
Pressure for Auto-release of Spool	70-140 bar
Leakage (A, B, T)	20cm ³ /min at 120 bar
Nominal Flow	80 L/min
Spool Stroke	+/- 7.9mm
Actuating Force	< 220 N

Working Temperature:
-15°C to +80°C

Maximum Working Pressure:
A and B Ports: 300 bar, P Port: 250 bar,
T Port: 50 bar



Type P81 Log Splitter Valve

0479	Thread	Manufacturer's Code
1021-0023	1/2"	P81 A2 G
Tech Sheet 60387		

Working Temperature:
-15°C to +80°C

Maximum Working Pressure:
A and B Ports: 300 bar, P Port: 250 bar,
T Port: 10 bar



Type P81RS Rapid Log Splitter Valve

0479	Thread	Thread	Manufacturer's Code
1021-0038	1/2"	3/4"	P81 RS G
Tech Sheet 60428			



HYDRAULIC ACCUMULATORS & ACCESSORIES

Diaphragm Accumulators

- Low cost non-repairable accumulators
- High reliability gas sealing system, ensures no leakage
- Electron beam welded steel shell
- Parallel threads with bonded seal recess ensures easy connection with no leaks
- **Material:** steel shell electron beam welded. Non repairable
- Nitrile membrane for mineral oil or non aggressive fluid



BSPP

0197	Manufacturer's Code	Thread	Capacity Litres	Temp Range °C	Max Pressure Bar
E007-1515-013611	108492-01125	1/2"	0.075	-10/+80	250
E016-1515-013611	108493-01125	1/2"	0.16	-10/+80	250
E032-1515-013611	109866-01125	1/2"	0.32	-10/+80	210
E050-1515-023611	108495-01125	1/2"	0.50	-20/+80	210
E075-1515-093611	108497-01125	1/2"	0.75	-20/+80	210
E100-1515-123611	109847-01125	1/2"	1.0	-20/+80	210
E140-1515-113511	108502-01125	1/2"	1.4	-20/+80	140
E200-1515-063411	108504-01125	1/2"	2.0	-10/+80	100
E200-1515-063611	110134-01125	3/4"	2.0	-10/+80	250
E280-1515-032611	108879-01125	3/4"	2.8	-10/+80	250
E350-1515-092611	108505-01125	3/4"	3.5	-10/+80	250

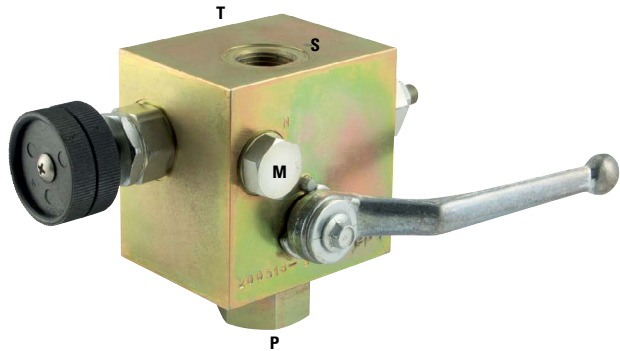
Tech Sheet 10553



Safety Blocks

- Carbon steel
- All blocks fully tested
- Nitrile seals as standard, Viton available on request
- Contact technical department
- Pressure relief valve for the protection of accumulator
- Manual dump to tank as standard

 **Maximum Working Pressure:**
360 bar



Carbon Steel

0197	BSPP S	BSPP P	BSPP T	BSPP M	Max Pressure Bar
ECA12-01-L-N	1/2"	1/2"	1/4"	1/4"	360
ECA20-01-L-N	3/4"	3/4"	3/8"	1/4"	360
ECA32-01-L-N	1/4"	1/4"	3/8"	1/4"	360

Tech Sheet 2153

HYDRAULIC ACCUMULATORS & ACCESSORIES

Hydra-Cushions

Hydracushions are a robust non repairable accumulator. They have been specifically designed for high volume, low cost applications, where it is more economical to replace a unit than to refurbish it after a long service life.

- Steel construction
- Nitrile bladder
- 1/4" gas valve

 **Maximum Working Pressure:**
172 bar



BSPP

0197	Thread	Litres
HC0E00A-00-17	1/2"	0.5
HC0100A-00-17	3/4"	1.0
HC0200A-00-17	1"	2.0
HC0400A-00-17	1.1/4"	4.0
Tech Sheet 10797		

Accumulator Bladder Kits

The kit comprises of a bladder assembly, protective cap, anti extrusion ring, O-Ring for the fluid port, back up ring and seal for the bleed plug.



Oil Service

0197	Litres	Description
0B00A-00	0.16	-
0F00A-00	0.6	-
01100A-00	1	-
01C00A-00	1.15	-
0300A-00	3	5/8" Stem
03C00A-00	3	7/8" Stem
0400A-00	4	-
1000A-00	10	-
2000A-00	20	-
2800A-00	28	-
3700A-00	37	-
5400A-00	54	-
Tech Sheet 10797		

Thermoswitches

For use with the LAC series of air blast coolers.



1/2" BSPP

0197	Temp °C
598262	40
598261	50
598263	60
598264	70
598265	80

Accumulator Charging Kits

For safe pre-charging of accumulators, Fawcett Christie Hydraulics offer a comprehensive range of equipment.



Universal Pre-charged

0197	Description
10597-01	0-25 & 0-250 bar Gauge
10597-02	0-60 & 0-400 bar Gauge
10597-03	0-10 & 0-160 bar Gauge

Accumulator Accessories

Designed to allow quick, easy and safe installation of accumulators. They are fabricated from steel and come complete with rubber cushion mouldings and mounting bolts.



Saddle & Clamps

0197	Bore mm
10958	112-114
10959	165-168
10960	220-230



Support Brackets

0197	To Suit
10961	4-9 Litre FCH Accumulators
10962	10-54 Litre FCH Accumulators



Cushioning Rings

0197	To Suit
48473-A00	10-54 Litre Support Brackets



Gas Valves

0197	Thread
10031-S03	1/4" x 1/4" BSPP
10053-S03	0.32" x 32 TPI
43030	0.302 x 1/2" UNF

HYDRAULIC OIL COOLERS



3



AC Range Air Blast Oil Coolers

The LAC air oil cooler, with single-phase or three-phase AC motor, is optimised for use in the industrial sector. The maximum cooling capacity is 300kW at ETD +40°C.

See Tech Sheet for full specification on this model.

Maximum Working Temperature:
+120°C

Maximum Static Working Pressure:
21 bar

Maximum Dynamic Working Pressure:
14 bar



BSPP

0488	Thread	Voltage	KW/°C
LAC-1	1/2"	230/1/50	0.05
LAC-2	1"	230/3/50-275/3/60	0.23
LAC-3	1"	230/3/50-275/3/60	0.36
LAC-4	1"	230/3/50-275/3/60	0.59
LAC-5	1"	230/3/50-275/3/60	0.78
LAC-6	1.1/4"	230/3/50	1.75
LAC-7	1.1/4"	230/3/50	2.1

Tech Sheet 60442

DC Range Air Blast Oil Coolers

The LDC air oil cooler with 24V DC motor is optimised for use in the mobile industry. Together with a wide range of accessories, the LDC cooler is suitable for installation in most applications and environments.

The maximum cooling capacity is 30kW at +ETD 40°C.

Also available with a 12V DC motor.

See Tech Sheet for full specification on this model.

Maximum Working Temperature:
+120°C

Maximum Static Working Pressure:
21 bar

Maximum Dynamic Working Pressure:
14 bar



BSPP

0488	Thread	Voltage	KW/°C
LDC-1	1"	24V	0.12
LDC-2	1"	24V	0.19
LDC-3	1"	24V	0.3
LDC-4	1"	24V	0.38
LDC-5	1"	24V	0.6
LDC-6	1.1/4"	24V	0.72

Tech Sheet 60443

Offline Air Blast Oil Coolers

The LOC cooling system with three-phase AC motor is optimised for use in the industrial sector.

The system is supplied ready for installation. An integrated circulation pump makes it possible to cool and treat the oil in a separate circuit (offline cooling).

See Tech Sheet for full specification on this model.

Maximum Working Temperature:
+100°C

Maximum Static Working Pressure:
21 bar

Maximum Dynamic Working Pressure:
14 bar



BSPP

0488	Thread	Voltage	KW/°C
LOC-1	1"	230/3/50-275/3/60	0.07
LOC-2	1"	230/3/50-275/3/60	0.2
LOC-3	1"	230/3/50-275/3/60	0.26
LOC-4	1"	230/3/50-275/3/60	0.45
LOC-5	1"	230/3/50-275/3/60	0.61
LOC-6	1.1/4"	230/3/50	1

Tech Sheet 60444

Hydraulic Motor In-line Coolers

The LHC air oil cooler with hydraulic motor is optimised for use in the mobile and industrial sectors.

The maximum cooling capacity is 300kW at ETD +40°C.

See Tech Sheet for full specification on this model.

Maximum Working Temperature:
+120°C

Maximum Static Working Pressure:
21 bar

Maximum Dynamic Working Pressure:
14 bar



BSPP

0488	Thread	Motor Option	KW/°C
LHC-1	1"	8.4cc	0.22
LHC-2	1"	14.4cc	0.38
LHC-3	1"	10.8cc	0.58
LHC-4	1"	10.8cc	0.76
LHC-5	1.1/4"	10.8cc	1.1
LHC-6	1.1/4"	8.4cc	1.3

Tech Sheet 60445

Valves & Pumps



HYDRAULICS

Compact Water/Oil Coolers

The Parker PWO is a compact and lightweight water/oil cooler with a high cooling capacity for its size.

Features:

- Light and compact
- Suitable for many applications
- Easy installation
- Cost-efficient and environmentally friendly



Working Temperature:

-196°C to +225°C



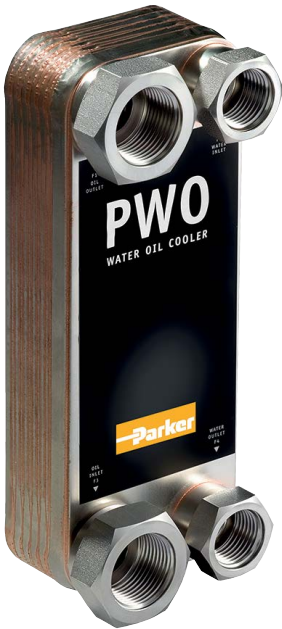
Maximum Working Pressure:

31 bar at 155°C

BSPP

0488	Thread	Thread	KW/°C	Type
PWO-1	3/4"	1/2"	1.5-5	B5TH
PWO-2	3/4"	1/2"	4-7	B8TH
PWO-3	3/4"	1/2"	5-17	B8TH
PWO-4	3/4"	1/2"	7-27	B8TH
PWO-5	1"	3/4"	5-27	B10TH
PWO-6	1"	3/4"	10-50	B10TH
PWO-7	1"	3/4"	10-65	B10TH
PWO-8	1.1/4"	1"	10-60	B25TH
PWO-9	1.1/4"	1"	10-80	B25TH
PWO-10	1.1/4"	1"	20-95	B25TH
PWO-11	1.1/4"	1"	20-105	B25TH
Tech Sheet 60460				

For full specification on this item see Tech Sheet.





HYDRAULIC OIL COOLERS

Complete Water Cooler

Hydraulic oil coolers are suitable for heat transfer fluids, lubricating and quenching oils. They are high quality products incorporating the best materials and latest technical features.

The tube stack is fully floating so the thermal stresses are minimised and it can be easily removed should cleaning be necessary.

Dissipation shown in kW based on an oil outlet temperature of 50°C and a water inlet temperature 25°C at maximum oil flow rate

 **Maximum Working Oil Temperature:**
120°C
Maximum Working Water Temperature:
110°C

 **Maximum Working Oil Pressure:**
20 bar
Maximum Working Water Pressure:
20 bar

Higher temperature versions are available up to 200°C on request.



EC-14 Series, Fresh Water, BSPP

0379	Thread	LPM	KW
EC080-1425-1	1/2"	80	4
EC100-1425-2	3/4"	92	9
EC120-1425-3	3/4"	77	13
EC140-1425-4	3/4"	68	17
EC160-1425-5	3/4"	64	22
Tech Sheet 10199			

FC-14 Series, Fresh Water, BSPP

0379	Thread	LPM	KW
FC080-1426-1	1"	140	13
FC100-1426-2	1"	145	19
FC120-1426-3	1"	116	26
FC140-1426-4	1"	105	35
FC160-1426-5	1"	96	45
Tech Sheet 10199			

FG-14 Series, Fresh Water, BSPP

0379	Thread	LPM	KW
FG080-1427-1	1.1/4"	192	28
FG100-1427-2	1.1/4"	190	37
FG120-1427-3	1.1/4"	160	50
FG140-1427-4	1.1/4"	160	62
FG160-1427-5	1.1/4"	145	79
FG200-1427-7	1.1/4"	130	123
Tech Sheet 10199			



EC-38 Series, Sea Water, BSPP

0379	Thread	LPM	KW
EC080-3875-1	1/2"	80	4
EC100-3875-2	3/4"	92	9
EC120-3875-3	3/4"	77	13
EC140-3875-4	3/4"	68	17
EC160-3875-5	3/4"	64	22
Tech Sheet 10199			

FC-38 Series, Sea Water, BSPP

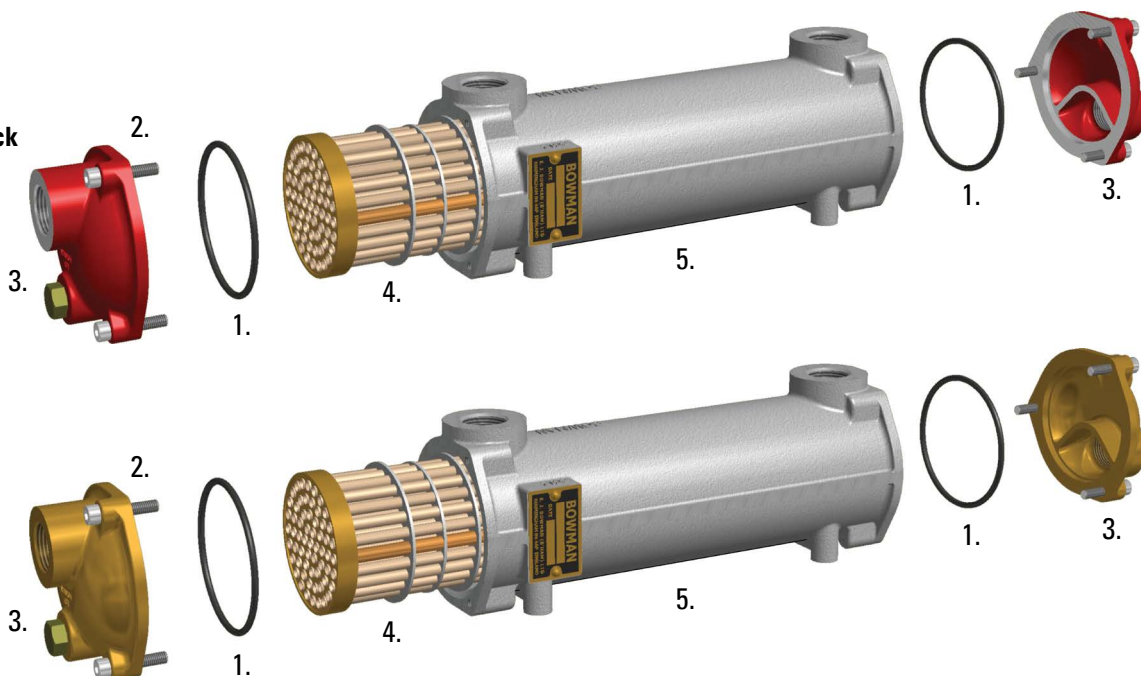
0379	Thread	LPM	KW
FC080-3876-1	1"	140	13
FC100-3876-2	1"	145	19
FC120-3876-3	1"	116	26
FC140-3876-4	1"	105	35
FC160-3876-5	1"	96	45
Tech Sheet 10199			

FG-38 Series, Sea Water, BSPP

0379	Thread	LPM	KW
FG080-3877-1	1.1/4"	192	28
FG100-3877-2	1.1/4"	190	37
FG120-3877-3	1.1/4"	160	50
FG140-3877-4	1.1/4"	160	62
FG160-3877-5	1.1/4"	145	79
FG200-3877-7	1.1/4"	130	123
Tech Sheet 10199			

Replacement Parts

1. O-Ring
2. Screws
3. End Cap
4. Tube Stack
5. Body



EC Series, Spares

0379	Description
AN12NT	O-Ring
HS06X30	Screw
EC003-1040CI	End Cover Fresh Water
EC003-1040NB	End Cap Sea Water
785-1TN1B	EC080 Tube Stack
EC021-978AL	EC080 Body
785-2TN1B	EC100 Tube Stack
EC010-783-2AL	EC100 Body
785-3TN1B	EC120 Tube Stack
EC012-783-3AL	EC120 Body
785-4TN1B	EC140 Tube Stack
EC014-783-4AL	EC140 Body
785-5TN1B	EC160 Tube Stack
EC016-783-5AL	EC160 Body

FC Series, Spares

0379	Description
OS46NT	O-Ring
HS08X35	Screw
FC003-1281CI	End Cover Fresh Water
FC003-1281NB	End Cap Sea Water
1530-1TN1B	FC080 Tube Stack
FC008-1200-1AL	FC080 Body
1530-2TN1B	FC100 Tube Stack
FC010-1200-2AL	FC100 Body
1530-3TN1B	FC120 Tube Stack
FC012-1200-3AL	FC120 Body
1530-4TN1B	FC140 Tube Stack
FC014-1200-4AL	FC140 Body
1530-5TN1B	FC160 Tube Stack
FC016-1200-5AL	FC160 Body

FG Series, Spares

0379	Description
OS52NT	O-Ring
HS08X35-FG	Screw
FG003-1583CI	End Cover Fresh Water
FG003-1583NB	End Cap Sea Water
1959-1TN1B	FG080 Tube Stack
FG008-1650-1AL	FG080 Body
1959-2TN1B	FG100 Tube Stack
FG010-1650-2AL	FG100 Body
1959-3TN1B	FG120 Tube Stack
FG012-1650-3AL	FG120 Body
1959-4TN1B	FG140 Tube Stack
FG014-1650-4AL	FG140 Body
1959-5TN1B	FG160 Tube Stack
FG016-1650-5AL	FG160 Body
1959-7TN1B	FG200 Tube Stack
FG020-1650-7AL	FG200 Body

GL Series, Spares

0379	Description
OS63NT	O-Ring
HS10X40	Screw
GL003-3141CI	End Cover Fresh Water
GL003-3141NB	End Cap Sea Water

GK Series, Spares

0379	Description
OS69NT	O-Ring
HS12X50	Screw

JK Series, Spares

0379	Description
OS74NT	O-Ring
HS16X70	Screw

PK Series, Spares

0379	Description
OS81NT	O-Ring
HS16X70-PK	Screw



Drain Plugs

0379	To Suit
915	EC, GL & GK Series
916	JK, PK & GK Series

ANTI-VIBRATION MOUNTS

Anti-vibration Mounts

Easy-to-install design with an integral fail-safe device to provide shock and failure protection for mobile, marine or seismic stationary applications. These mounts can accommodate loads between 9kg and 826kg per mount.

- Bell and flange: DD13 or DC04 steel (UNI EN10111 ALT UNI EN10130)
- Natural rubber, zinc plated in accordance with CE standards, chrome VI free, white
- Stiffness tolerance: +/- 15%

Applications: genset, marine power engines, diesel engines, pumps and HVAC.



Engine Mounts

0500	Thread	Hardness (IRHD)	Diameter mm	Height mm	Max Working Load Kg
AVM80-45	M12	45	100	38	36.7
AVM80-60	M12	60	100	38	65.3
AVM80-70	M12	70	100	38	97.9
AVM104-45	M16	45	140	49	122.4
AVM104-60	M16	60	140	49	193.7
AVM104-70	M16	70	140	49	305.9
AVM130-45	M20	45	182	71	336.5
AVM130-60	M20	60	182	71	550.6
AVM130-70	M20	70	182	71	826.0
Tech Sheet 67984					

Bobbins

Mounts can be fixed in numerous ways with either internal, external or combination threads. These can be used in compression or shear. This range can accommodate loads from 8kg to 650kg, although we can offer from 2kg to 1,020kg on request.

- Natural rubber, zinc plated in accordance with CE standards, chrome VI free, white
- Stiffness tolerance: +/- 20%

Applications: measurement equipment, instruments, small machinery, engines, pumps and radiators.



Male x Male Bobbins

0500	Thread	Hardness (IRHD)	Diameter mm	Height mm	Max Working Load Kg
MMB-161510	M4 x 10	60	16	15	25.1
MMB-202018	M6 x 18	60	20	20	33.0
MMB-302020	M8 x 20	60	30	20	97.1
MMB-303020	M8 x 20	60	30	30	66.1
MMB-404025	M10 x 25	60	40	40	122.4
MMB-504025	M10 x 25	60	50	40	212.1
MMB-505025	M10 x 25	60	50	50	137.9
MMB-755037	M12 x 37	60	75	50	621.0
Tech Sheet 67985					



Male x Female Bobbins

0500	Thread	Hardness (IRHD)	Diameter mm	Height mm	Max Working Load Kg
FMB-161510	M4 x 10	60	16	15	26.0
FMB-202018	M6 x 18	60	20	20	34.3
FMB-252518	M6 x 18	60	25	25	58.1
FMB-302020	M8 x 20	60	30	20	91.4
FMB-303020	M8 x 20	60	30	30	68.5
FMB-403023	M8 x 23	60	40	30	150.5
FMB-404025	M10 x 25	60	40	40	124.8
FMB-504025	M10 x 25	60	50	40	219.4
FMB-505025	M10 x 25	60	50	50	141.1
Tech Sheet 67986					



Female x Female Bobbins

0500	Thread	Hardness (IRHD)	Diameter mm	Height mm	Max Working Load Kg
FFB-1615	M4	60	16	15	26.3
FFB-2020	M6	60	20	20	35.1
FFB-2525	M6	60	25	25	60.7
FFB-3020	M8	60	30	20	97.9
FFB-3030	M8	60	30	30	70.4
FFB-4030	M8	60	40	30	153.0
FFB-4040	M10	60	40	40	128.9
FFB-5040	M10	60	50	40	221.1
FFB-5050	M10	60	50	50	145.2
FFB-7550	M12	60	75	50	648.5
Tech Sheet 67987					



ANTI-VIBRATION MOUNTS

Levelling Feet

These mounts are utilised as supports for various plant and machinery applications. Sizes range from 80mm up to 200mm, with loads applied from 510kg up to 4,079kg.

Plates: steel DC04 (UNI EN 10130)

Washers: steel DD12 (UNI EN 10111)

Nuts: resistance class 4

Bolts: resistance class 4.8

Other metal components: 11SMnPb 37 (UNI EN 10087)

- Natural rubber
- Zinc plated in accordance with CE standards, chrome VI free
- Stiffness tolerance: +/- 20%

Application: engines, tooling machinery, pumps, HVAC and genset.



Heavy-duty

0500	Thread	Hardness (IRHD)	Diameter mm	Min Height mm	Max Height mm	Max Working Load Kg
LFEET-8035	M12 x 1.25	80	80	122	144	510
LFEET-12040	M16 x 1.5	80	120	133	155	1020
LFEET-16050	M20 x 1.5	80	160	175	201	2039
LFEET-20060	M20 x 1.5	80	200	185	211	4079
Tech Sheet 68220						

Buffers

These mounts are designed to prevent shocks and overloading thanks to their progressive absorption. This range can accommodate weights from 2kg up to 1,400kg.

- Natural rubber, zinc plated in accordance with CE standards, chrome VI free, white
- Stiffness tolerance: +/- 20%

Applications: engines, tooling machinery, pumps, special equipment, HVAC and genset.



Male Conical Buffers

0500	Thread	Hardness (IRHD)	Diameter mm	Height mm	Max Working Load Kg
MCONBUF-2425	M6 x 18	60	24	25	41.8
MCONBUF-5050	M10 x 25	60	50	50	72.4
Tech Sheet 67988					



Male Cylindrical Buffers

0500	Thread	Hardness (IRHD)	Diameter mm	Height mm	Max Working Load Kg
MCB-100810	M4 x 10	45	10	8	5.9
MCB-161010	M4 x 12	45	16	10	16.7
MCB-251218	M6 x 18	60	20	12	46.3
MCB-251518	M6 x 18	60	25	15	80.8
MCB-302020	M8 x 20	60	30	20	88.1
MCB-403023	M8 x 23	45	40	30	72.2
MCB-503025	M10 x 25	60	50	30	282.7
MCB-755037	M12 x 37	60	75	50	573.1
Tech Sheet 67989					



Female Cylindrical Buffers

0500	Thread	Hardness (IRHD)	Diameter mm	Height mm	Max Working Load Kg
FCB-161004	M4	45	16	10	16.5
FCB-162005	M5	45	16	20	17.9
FCB-201506	M6	60	20	15	40.7
FCB-202506	M6	60	20	25	28.0
FCB-301708	M8	60	30	17	100.5
FCB-302008	M8	60	30	20	80.8
FCB-303008	M8	60	30	30	61.2
FCB-502110	M10	60	50	21	428.3
FCB-754012	M12	60	75	40	761.1
Tech Sheet 67990					